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पेटेंट कार्यालय का एक प्रकाशन
PUBLICATION OF THE PATENT OFFICE

INTRODUCTION

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01st January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS

23rd JUNE, 2023

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**THE PATENT OFFICE
KOLKATA, 23/06/2023**

Address of the Patent Offices/Jurisdictions

The following are addresses of all the Patent Offices located at different places having their Territorial Jurisdiction on a Zonal basis as shown below:-

1	<p>Office of the Controller General of Patents, Designs & Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24123311, Fax : (91)(22) 24123322 E-mail: cgpdtm@nic.in</p>	4	<p>The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai - 600 032.</p> <p>Phone: (91)(44) 2250 2081-84 Fax : (91)(44) 2250 2066 E-mail: chennai-patent@nic.in</p> <ul style="list-style-type: none"> ❖ The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.
2	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office,S.M.Road,Antop Hill, Mumbai - 400 037</p> <p>Phone: (91)(22) 24137701 Fax: (91)(22) 24130387 E-mail: mumbai-patent@nic.in</p> <ul style="list-style-type: none"> ❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu & Dadra and Nagar Haveli 	5	<p>The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector -V, Salt Lake City, Kolkata- 700 091</p> <p>Phone: (91)(33) 2367 1943/44/45/46/87 Fax: (91)(33) 2367 1988 E-Mail: kolkata-patent@nic.in</p> <ul style="list-style-type: none"> ❖ Rest of India
3	<p>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi - 110075</p> <p>Phone: (91)(11) 25300200 & 28032253 Fax: (91)(11) 28034301 & 28034302 E-mail: delhi-patent@nic.in</p> <ul style="list-style-type: none"> ❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, Delhi and the Union Territory of Chandigarh. 		

Website: www.ipindia.nic.in

www.patentoffice.nic.in

All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.

पेटेंट कार्यालय

कोलकाता, दिनांक 23/06/2023

- कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

1	<p>कार्यालय : महानियंत्रक, एकस्व, अभिकल्प तथा व्यापार चिह्न, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, भारत, फोन: (91) (22) 24123311 फैक्स: (91) (22) 24123322 ई. मेल: cgpdtm@nic.in</p>	4	<p>पेटेंट कार्यालय, भारत सरकार इंटेलेक्चुअल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजसेन्ट टु ईंगल फ्लास्क, जी. एस. टी. रोड, गायन्डी चेन्नई - 600 032. फोन: (91) (44) 2250 2081-84 फैक्स: (91) (44) 2250-2066 ई. मेल: chennai-patent@nic.in ❖ आन्ध्र प्रदेश, तेलंगाना, कर्नाटक, केरल, तमिलनाडु तथा पुडुचेरी राज्य क्षेत्र एवं संघ शासित क्षेत्र, लक्ष्मीप</p>
2	<p>पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, एंटोप हिल डाकघर के समीप, एस. एम. रोड, एंटोप हिल, मुम्बई- 400 037, फोन: (91) (22) 24137701 फैक्स: (91) (22) 24130387 ई. मेल: Mumbai-patent@nic.in ❖ <input type="checkbox"/> गुजरात, मध्य प्रदेश, गोवा तथा छत्तीसगढ़ राज्य क्षेत्र एवं संघ शासित क्षेत्र, दमन तथा दीव, वादर और नगर हवेली।</p>	5	<p>पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रधान कार्यालय) बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91) (33) 2367 1943/44/45/46/87 फैक्स:/Fax: (91) (33) 2367 1988 ई. मेल: kolkata-patent@nic.in ❖ भारत का अवशेष क्षेत्र</p>
3	<p>पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>		

वेबसाइट: <http://www.ipindia.nic.in>
www.patentoffice.nic.in

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

SPECIAL NOTICE

**18 Months publication as required under Section 11A of the Patents Act, 1970
as amended by the Patents (Amendment) Act, 2005.**

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

**(PROF. (DR) UNNAT P. PANDIT)
CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

SPECIAL NOTICE

Every effort is being taken to publish all the patent applications under section 11(A) of the Patents Act. However, if duplication of publication of any application is found, then earlier date of publication will be taken for the purpose of provisional protection for applicant and Patent Office will grant Patent not before six months from the date of second publication, provided that there is no third party representation.

Early Publication:

The following patent applications have been published under section 11A (2) of The Patents (Amendment) Act 2005 and rule 24A of The Patents (Amendment) Rules, 2006. Any person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060323 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : CLATHRATES THE TRAP FOR OIL MOLECULES FROM OIL SPIKED SOIL SAMPLES: OIL TRAPPING MECHANISM, FTIR, TGA AND ISOTHERMAL STUDIES

(51) International classification	:C02F0001400000, C02F0001280000, B82Y0040000000, G01N0021350000, A61K0008190000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)JOGINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
(87) International Publication No	: NA	----- 2)YAJVINDER SAHARAN Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
(61) Patent of Addition to Application Number	:NA	-----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present study, oil spiked soil samples were cleaned up using clathrates, by proposing an innovative mechanism, formed by different combinations of salts like sodium chloride, urea, thiourea and hydroquinone. The clathrates formed act as trap for the oil molecules present in the contaminated soil. The effects of various parameters viz.; medium pH, rpm, salt amount and contact time were studied in the batch mode. For the batch studies, Langmuir isotherm model was applied and provided best fit to the equilibrium data obtained with R2 0.99. The maximum oil removal efficiency 87% was obtained using combination B (2.0 g each of sodium chloride, Urea, Thiourea and hydroquinone) at pH 9.0, 180 rpm within 60 min in batch mode. Column studies were also carried out using different salts combination at different flow rates (1.0, 2.0, 3.0 mL min-1). The maximum oil removal efficiency 84% was obtained using combination B at flow rate of 1.0 mL min-1. Further, the FTIR and TGA studies confirmed the formation of clathrates and their application as cages for oil removal from oil spiked soil samples. The outcomes from this study assured that the oil trapping by clathrates is a newly developed and quite effective technique which could be used for treating oil contaminated soils at large scale.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060324 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PREPARATION, CHARACTERIZATION AND APPLICATION OF NANOPOROUS, HYDROPHOBIC CHITOSAN – SILICA BLEND AEROGELS

(51) International classification	:C08J0009000000, B01J0013000000, C02F0101320000, C08J0009280000, C01B0033158000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DR. JOGINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
(87) International Publication No	: NA	2)ROHIT Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In the present research work, silica, chitosan and chitosan–silica blend aerogels were prepared by a sol–gel method. The prepared aerogels were tested for their surface morphology, surface area, compression resistance test and oil adsorption capacity. The surface of the three aerogels obtained was made hydrophobic in nature by hexamethyldisilazane (HMDS) as the modifier which further increases their oil adsorption capacity. The FTIR studies of the aerogels were carried out and comparison was done which authenticated the hydrophobic nature. The SEM and XRD analysis of the aerogels were performed to study the surface morphology. The surface area were calculated using Sears method and it was highest ($275.8 \text{ m}^2\text{g}^{-1}$) for 25% CS aerogel. Further the aerogels were tested for their mechanical strength performing compression resistance test. Langmuir and Freundlich adsorption isotherm model were applied to the equilibrium data obtained which gave results with R^2 value=0.99 and $q_{\max} = 37 \text{ mLg}^{-1}$. Among all the three aerogels prepared, 25% CS blend aerogel showed highest mechanical strength, maximum porosity, high pore volume and great surface area with extremely low bulk density and maximum oil adsorption capacity. This research finding assured that the oil removal by chitosan–silica blend aerogels is a novel and quite effective technique which could be employed for treating oil contaminated soils at large scale.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060325 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYNTHESIS & CHARACTERIZATION OF COST-EFFECTIVE, ECO-FRIENDLY, FACILE METHOD FOR GRAPHENE OXIDE

(51) International classification	:C01B0032198000, H01G0011360000, C23C0016400000, C01B0032230000, B82Y0040000000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)DR. JOGINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
Filing Date	:NA	----- 2)YAJVINDER SAHARAN Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	

(57) Abstract :

In the present work, the synthesis of graphene oxide was carried out using Tour's method with further improvements. The effects of various reaction parameters viz.; reaction time, reaction temperature, amount of cleaving agents (H₂SO₄/H₃PO₄) and amount of oxidant (KMnO₄) were studied. The prepared graphene oxide sample was characterized using UV, FT-IR spectroscopy, SEM and XRD analysis. The best results were obtained at 35°C within 10 h of reaction time having 8:2 ratio of H₂SO₄/H₃PO₄ acid mixture. The experiment approach devised was conveniently controlled at room temperature, and this could be used as alternative approach for large scale production of graphene oxide.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/01/2022

(21) Application No.202211003321 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A COMPREHENSIVE FRAMEWORK FOR BIG DATA STORAGE AND ANALYTICS

(51) International classification	:G06F0016250000, G06F0016270000, G06F0016245500, G06F0016280000, G06F0016245800	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)DAR MASROOF AMIN Address of Applicant :RESERCH SCHOLAR, MMICT & BM, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
Filing Date	:NA	----- 2)DR. MUNISHWAR RAI Address of Applicant :PROFESSOR, MMICT & BM, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A COMPREHENSIVE FRAMEWORK FOR BIG DATA STORAGE AND ANALYTICS The development framework can process big data sets and distributed storage. The system is effective for handing unbounded streams and can be implemented in any programming language ranging from procedural languages, going thorough object oriented programing and Machine learning based AI programming. The system is having in-memory data engine alongwith elegant and expressive application programming interfaces to make data workers use structured and unstructured inputs as query language streaming jobs and machine learning programs for quick admittance to data clusters. The proposed work can be utilized for trend analysis, spam recognition and ETL tasks. The system can be optimised against wellsprings of Gigabytes to Petabytes. The flexibility of framework allows use data in Relational Databases, Propreitary Data Stores and other database framework. The system is available always with accurate high performing data streaming with fault-tolerance and outofbound scalability. The system has shown enhanced values for latency throughput and latency qualities.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/01/2022

(21) Application No.202211003322 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF LOW GLYCEMIC INDEX COOKIES USING KODO AND FINGER MILLETS FLOUR FOR DIABETIC PATIENTS

(51) International classification	:A21D0002360000, A21D0002180000, A23L0007100000, A21D0013020000, A21D0013062000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MS. PRIYA SAHNI Address of Applicant :DEPARTMENT OF DIETETICS & NUTRITION, M.M.I.C.T & B.M (HOTEL MANAGEMENT), MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(87) International Publication No	: NA	2)DR. MAHENDRA BISNOI Address of Applicant :SCIENTIST – D, NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE, SECTOR 81 (KNOWLEDGE CITY), MOHALI, PINCODE-140306 -----
(61) Patent of Addition to Application Number	:NA	3)MS. REKHA KAUSHIK Address of Applicant :PRINCIPAL(O), ASSOCIATE PROFESSOR, DEPARTMENT OF DIETETICS & NUTRITION, M.M.I.C.T & B.M (HOTEL MANAGEMENT), MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	4)DR. KANTHI KIRAN KONDEPUDI Address of Applicant :SCIENTIST – E, NATIONAL AGRI-FOOD BIOTECHNOLOGY INSTITUTE, SECTOR 81 (KNOWLEDGE CITY), MOHALI. PINCODE-140306 -----
(62) Divisional to Application Number	:NA	5)DR. SHIV KUMAR Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF DIETETICS & NUTRITION, M.M.I.C.T & B.M (HOTEL MANAGEMENT), MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	

(57) Abstract :

DEVELOPMENT OF LOW GLYCEMIC INDEX COOKIES USING KODO AND FINGER MILLETS FLOUR FOR DIABETIC PATIENTS The key ingredients used in the study are two varieties of millets i.e. Finger Millet (variety: CO (Ra) 14), Kodo millet (variety: JK-65), whole wheat flour (variety: PBW621) and Prebiotic fiber Sweetener i.e. Isomalto- oligosaccharides (IMOs). The leading objective was the development of cookies with millet flour combination (Kodo and finger millet) and two control cookies were prepared whole wheat flour and refined wheat flour (RWFC). Also, an attempt was made to prepare cookies from rice bran oil as shorting agent and IMOs in partial replacement of sugar. The development and nutritional evaluation of functional millet cookies with a lower glycemic index, better glucose homeostasis, and nutritional value.

No. of Pages : 24 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/01/2022

(21) Application No.202211003323 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SOLAR IRRADIATION PREDICTION FRAMEWORK BASED ON EEMD-GA-LSTM METHOD

(51) International classification :G01J0001420000, H02S0050100000, C02F0001140000, B01J0035000000, H04N0019140000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SOLAR IRRADIATION PREDICTION FRAMEWORK BASED ON EEMD-GA-LSTM METHOD This invention relates to Solar irradiation prediction framework based on EEMD-GA-LSTM method. In existing methodology, the process used by the researcher is not sufficient to enhance the forecasting accuracy of solar irradiation. Some author used pre-processing technique to reduce the non-linearity in raw data while some of them used only optimization technique to select the optimum parameter. This is not a sufficient method to forecast the solar irradiation. To remove this problem, the proposed method used pre-processing and optimization technique both to increase the forecasting accuracy.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/01/2022

(21) Application No.202211003324 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : STINGING NETTLE LASSI

(51) International classification :A61K0036185000, A61Q0007000000,
A61K0048000000, A61K0036736000,
A61K0036889000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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(72)Name of Inventor :

1)CHEF KARAN BERRY

Address of Applicant :ASSISTANT PROFESSOR, MMICT & BM (HM), MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----

(57) Abstract :

STINGING NETTLE LASSI This invention relates to stinging nettle lassi.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2022

(21) Application No.202211001649 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METICULOUS PRESAGING OF HEART DISEASE CLASSIFICATION MODEL THROUGH SDA AND FANN USING MACHINE LEARNING

(51) International classification	:G06K0009620000, G16B0040000000, G16H0050200000, G06N0005000000, G16B0050000000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)RITU AGGARWAL Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)SUNEET KUMAR Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	

(57) Abstract :

A METICULOUS PRESAGING OF HEART DISEASE CLASSIFICATION MODEL THROUGH SDA AND FANN USING MACHINE LEARNING This proposed work used the approach of self-diagnosis Algorithm, Fuzzy Artificial neural network, and NCA and PCA and imputation methods. By the use of this technique reduces the computation time for prediction of Coronary HD. For the implementation of this the two datasets are using such as Cleveland and Statlog datasets. In this research work, heart disease is a diagnosis by the data mining techniques and used the clinical parameters of patients for early stages. Data mining is used to help the physicians automatically infer the diagnostic rules to make the process reliable. In this proposed work the experiments have been carried out by the Cleveland and Statlog dataset that is collected from the UCI kaggle the ML repository. Classifiers used for that Random forest algorithm, ANN, and K-NN algorithm. The datasets for the disease prediction measure are used to accurately calculate the difference between variables and to determine whether they are correlated or not. For this classification model, the performance measure is calculated in requisites of their accuracy, precision, recall, and specificity. This approach is evaluated on the heart disease datasets for improving the accuracy performance results obtained .The outcome for KNN+SDA+NCA+FuzzyANN for Cleveland dataset accuracy achieved 98.56 %.and for Statlog dataset 98.66 %.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2022

(21) Application No.202211001650 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYNTHESIS AND CHARACTERISATION OF NOVEL OXADIAZOLE-PYRIDAZIN-3-ONE DERIVATIVES

(51) International classification	:C08G0073100000, G01N0033680000, C08G0065400000, G01N0033020000, C02F0101200000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)MS MINAXI SAINI Address of Applicant :ASSISTANT PROFESSOR, GANPATI GROUP OF INSTITUTION, BILASPUR, YAMUNANAGAR --- -----
Filing Date	:NA	2)PROF. (DR.) DINESH K. MEHTA Address of Applicant :ASSOCIATE PROFESSOR, M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(87) International Publication No	: NA	3)DR. RINA DAS Address of Applicant :ASSISTANT PROFESSOR, M.M. COLLEGE OF PHARMACY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYNTHESIS AND CHARACTERISATION OF NOVEL OXADIAZOLE-PYRIDAZIN-3-ONE DERIVATIVES The present invention was aimed to synthesis of a series of novel analogues of 4,5-dichloro-6-(substituted-benzyl)-2-(5-mercapto -[1,3,4]-oxadiazol-2-ylmethyl)-2H-pyridazin-3-one have been synthesized. The target compounds were synthesized using a Nucleophilic substitution reaction. The structures of newly synthesized compounds were confirmed by FT-IR, 1H-NMR, 13C-NMR, Mass spectroscopy and elemental analysis.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2022

(21) Application No.202211001655 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF CARBON/JUTE PORCINE HYBRID UNSATURATED POLYESTER COMPOSITE

(51) International classification	:C08L0067060000, B29C0048920000, C04B0026180000, B29C0070300000, B29K0105120000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)MS. ITI DIKSHIT Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 2)DR. GIAN BHUSHAN Address of Applicant :NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA, HARYANA ----- 3)DR. RAVINDER PAL SINGH Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 4)DR. N.K. BATRA Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 5)DR. NEERA BATRA Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 6)MR. HARSIMRRAN SINGH Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

This invention describes the development and testing of a novel hybrid composite from 5 porcine bone powder (PBP) as a filler, and carbon-jute fiber as reinforcement was successfully developed, which has been explored for the first time. Mechanical characteristics of carbon/jute hybrid polymer composites with and without filler material, namely porcine bone, were compared. In comparison to unfilled composites, the hybrid reinforced composites using porcine bone powder exhibit superior mechanical characteristics. Tensile strength ranges 10 between 230 and 310 MPa, impact strength varies between 20 and 38 KGM, and Rockwell Hardness varies between 50 and 65 HRC, depending on different porcine bone wt. %. Tensile, impact, and Rockwell hardness tests are conducted in accordance with ASTM D638, ASTM D6110, and ASTM D785, respectively. The primary purpose of this invention is development a hybrid composite of jute-carbon fibers and porcine bone powder as a filler in unsaturated 15 polyester resin. Thus, it is evident from the testing result that the porcine bones waste in the food industry is a potential candidate for the development of hybrid composite.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/01/2022

(21) Application No.202211001093 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METICULOUS PRESAGING OF HEART DISEASE OPTIMIZED BY BORUTA FEATURE SELECTION AND RFE OVER GRADIENT BOOSTING

(51) International classification	:G06K0009620000, G06N0020000000, G16B0040000000, G06N0005000000, G16B0020000000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)RITU AGGARWAL Address of Applicant :RESEARCH SCHOLAR, MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
(87) International Publication No	: NA	2)SUNEET KUMAR Address of Applicant :MAHARISHI MARKANDESHWAR ENGINEERING COLLEGE, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A METICULOUS PRESAGING OF HEART DISEASE OPTIMIZED BY BORUTA FEATURE SELECTION AND RFE OVER GRADIENT BOOSTING In the medical field, healthcare is a vast domain by which the use of data science the meaningful information transformation is a necessity of healthcare. Due to the advancement in technology with the help of machine learning easily predict the disease. Feature selection comes under the category of machine learning .it is very prominent with variables and features especially when used in dataset. Feature selection improves accuracy and eliminates irrelevant features to achieve classification performance. Random forest and gradient boosting is quite emerged and useful algorithm by which the higher number of variables of feature selection can handle .it is a major issue in feature selection. The aim of this work is the popular dataset Cleveland (which has 303 instances) used with a higher number of parameters. Feature selection Boruta and RFE are used to get the best results and accuracy performance as compare to other existing works. To predict the possibilities patients have an HD firstly analyze the dataset and observations consider for 14 features. This examination breaks down the characteristics' impact on the result of coronary illness. The ML approaches used for analysis Logistic Regression, Support Vector Machines (SVM), and Random Forest, Gradient Boosting, etc. the approaches and after-effects of the machine learning cross-validation and implementation. This present work objective was to focus on the relevant features of patients. GB, Boruta, and RFE are used to select the most relevant features. Boruta is based on the wrapper method of feature selection. This paper aims to find correlated feature accuracy and other combined with machine learning classifiers which help to find the robust prediction results .this proposed model achieved accuracy for GB classifier when implementing CF gives accuracy 83.82% and the for hybrid method (RF+GB+RFE+Boruta) accuracy is 96.74% and for FIB 90.69% and F-score 96.74 %.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/01/2022

(21) Application No.202211001094 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GEE IMPLANT GUIDE: A CONTEMPORARY PALATAL IMPLANT PLACEMENT GUIDE

(51) International classification :A61C000700000, A61C0007100000, A61C0008000000, H04L0029060000, A61K0031706800

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

GEE IMPLANT GUIDE: A CONTEMPORARY PALATAL IMPLANT PLACEMENT GUIDE Anchorage forms an indispensable part of orthodontic treatment of a patient and therefore various modalities are utilized for achievement of the same. Over the period of time, focus has shifted on the use of implants especially in cases where anchorage requirement is critical. The buccal region in between the roots of posterior teeth is the commonly used site for the same but in cases where intrusion is to be achieved, the palatal region is also utilized. The obligation for prevention of injury to the adjacent teeth roots necessitates the use of implant guides. Our article presents one such design which is easy to fabricate and can be used for placement of implants in the relatively difficult palatal sites.

No. of Pages : 8 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/01/2022

(21) Application No.202211001095 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN SYSTEM FOR DETECTING THE RISK OF COPD AND ANTHRACOSIS USING MACHINE LEARNING

(51) International classification :G06K0009620000, G06N0005000000, G06N0020000000, G16H0050700000, G06N0007000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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(72)Name of Inventor :

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(57) Abstract :

AN SYSTEM FOR DETECTING THE RISK OF COPD AND ANTHRACOSIS USING MACHINE LEARNING In the present invention discloses a classification system by which the dataset has a 430 dataset and 20 separate descriptive variables. The total sample used is 4000 in which analyze the 2000 samples found have no disease and the other samples have a common disease problem. In this paper study the system with supporting clinical decisions for effected patients that are suffering from COPD and anthracosis. To implement this model used the machine learning classifiers like as Support vector machine, random forest, decision tree, Naïve bayes, and artificial neural network. Python jupyter notebook framework is used for implementation this model. The performance metrics implemented for outcome of best results. With the two classifier of machine learning get best results in terms of accuracy. The accuracy achieved by the Support vector and Random forest is 96.866%, 92.678% etc.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014276 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CRYPTOGRAPHY: ANALYSIS OF SYN AND UDP ATTACKS USING WIRE SHARK

(51) International classification :H04L0029060000, H04L0009080000, B29C0048250000, G06F0021550000, C08K0003240000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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2)PRACHI GARG

Address of Applicant :ASSOCIATE PROFESSOR MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---

(57) Abstract :

CRYPTOGRAPHY: ANALYSIS OF SYN AND UDP ATTACKS USING WIRE SHARK Safety is the most puzzling concern for network security. Due to rapid growth of internet and networks applications, volume of files exchanged between users is increasing very rapidly. Therefore, Data safety has been very crucial problem for information transmission. Any damage or danger to data can be high-quality damage to the business enterprise. Cryptography shows a primary position in statistics safety. In modern existences network safety is known to be a critical tricky. Cryptography can be applied to hassle-free data and achieves admission by scattering of cryptographic keys among devices. This article provides review on applications of Cryptography and discussion on analysis of SYN and UDP attacks once we communicate particular data from source to receiver

No. of Pages : 15 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014277 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GREEN SYNTHESIS AND CHARACTERIZATIONS OF NICKEL OXIDE NANOPARTICLES USING STEM EXTRACT OF TINOSPORA CORDIFOLIA AND THEIR ANTICANCER ACTIVITY

(51) International classification	:A61K0036590000, A23K0010300000, B82Y003000000, B82Y0040000000, C01B0032192000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)RENU BALA Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)DR. BHAWNA PAREEK Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
Filing Date	:NA	

(57) Abstract :

GREEN SYNTHESIS AND CHARACTERIZATIONS OF NICKEL OXIDE NANOPARTICLES USING STEM EXTRACT OF TINOSPORA CORDIFOLIA AND THEIR ANTICANCER ACTIVITY This invention relates to Green Synthesis and Characterizations of Nickel Oxide Nanoparticles Using stem extract of Tinospora cordifolia and their Anticancer Activity. Nickel oxide nanoparticles are synthesized using the flower extract of Tinospora cordifolia (stem) by the co-precipitation method and analysed for their anticancer activity. Synthesized NiO NPs were characterized by Fourier-Transform Infrared Spectroscopy (FTIR), Scanning Electron Microscopy (SEM) and X-Ray Diffraction (XRD). SEM determined the shape and particle size of the synthesized NiO NPs. In this research work for the first time, Tinospora cordifolia (stem), extract is used for the synthesis of NiO nanoparticles in one step at room temperature. These photosynthesized NiO NPs showed anticancer activity against rat skeletal myoblast cell lines (L-6).

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014278 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GREEN SYNTHESIS AND CHARACTERIZATIONS OF NICKEL OXIDE NANOPARTICLES USING FLOWER EXTRACT OF RHODODENDRON ARBORETUM FOR THEIR POTENTIAL BIOLOGICAL APPLICATION

(51) International classification	:B82Y003000000, B82Y004000000, C01G005300000, A61K0036450000, A61K0009510000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)RENU BALA Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
(87) International Publication No	: NA	2)DR. BHAWNA PAREEK Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

GREEN SYNTHESIS AND CHARACTERIZATIONS OF NICKEL OXIDE NANOPARTICLES USING FLOWER EXTRACT OF RHODODENDRON ARBORETUM FOR THEIR POTENTIAL BIOLOGICAL APPLICATION Nickel oxide nanoparticles are synthesized using the flower extract of Rhododendron arboretum by the co-precipitation method and analysed for their anticancer activity. Synthesized NiO NPs were characterized by Fourier-Transform Infrared Spectroscopy (FTIR), Scanning Electron Microscopy (SEM) and X-Ray Diffraction (XRD). SEM determined the shape and particle size of the synthesized NiO NPs. In this research work for the first time, Rhododendron arboretum (flower), extract is used for the synthesis of NiO nanoparticles in one step at room temperature. These photosynthesized NiO NPs showed anticancer activity against rat skeletal myoblast cell lines (L-6).

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014280 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GREEN SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE NANOPARTICLES USING NARDOSTACHYS JATAMANSI (ROOTS) EXTRACT AND THEIR ANTICANCER ACTIVITY

(51) International classification	:A61K0036840000, B82Y0030000000, B82Y0040000000, C01G0053000000, A61K0009510000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)RENU BALA Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)DR BHAWNA PAREEK Address of Applicant :DEPARTMENT OF CHEMISTRY, MMEC, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
Filing Date	:NA	

(57) Abstract :

GREEN SYNTHESIS AND CHARACTERIZATION OF NICKEL OXIDE NANOPARTICLES USING NARDOSTACHYS JATAMANSI (ROOTS) EXTRACT AND THEIR ANTICANCER ACTIVITY Nickel oxide nanoparticles are synthesized using the flower extract of Nardostachys jatamansi (roots) by the co-precipitation method and analysed for their anticancer activity. Synthesized NiO NPs were characterized by Fourier-Transform Infrared Spectroscopy (FTIR), Scanning Electron Microscopy (SEM) and X-Ray Diffraction (XRD). SEM determined the shape and particle size of the synthesized NiO NPs. In this research work for the first time, Nardostachys jatamansi (roots) extract is used for the synthesis of NiO nanoparticles in one step at room temperature. These photosynthesized NiO NPs showed anticancer activity against rat skeletal myoblast cell lines (L-6).

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/03/2022

(21) Application No.202211014281 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYNTHESIS, CHARACTERIZATION AND APPLICATION OF HEXAMETHYLENE DIISOCYANATE BASED SUPRAMOLECULAR ORGANO OIL GELATORS

(51) International classification	:C09K0003320000, A61K0031167000, A61K0009060000, B01J0013000000, C09D0011340000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)DR. JOGINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)YAJVINDER SAHARAN Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
Filing Date	:NA	

(57) Abstract :

SYNTHESIS, CHARACTERIZATION AND APPLICATION OF HEXAMETHYLENE DIISOCYANATE BASED SUPRAMOLECULAR ORGANO OIL GELATORS In the present invention, hexamethylene diisocyanate (HMI) and 1-tetradecanol/hexadecanol were used to synthesized supramolecular organo oil gelators for the sorption of oil from oil-contaminated water systems. The chemical structure confirmations were done using FTIR and mass spectra analysis. The SEM investigation revealed the porous and fibrous nature of the gelator. The oil trapping mechanism was proposed in which the gelator molecules undergoes self-entanglement to forms fibers, having van der Waals interaction between them alongwith intermolecular H-bonding. The maximum oil uptake capacity was 57% initially but it was boosted to 95% with addition of gasoline (petrol) as the co-congealed solvent. The complete gelation process was achieved in less than 20 minutes, with a high oil retention rate and quick oil recovery.

No. of Pages : 14 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2022

(21) Application No.202211019005 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REAL-TIME GEOFENCING PARKING METHOD AND SYSTEM, AND ELECTRIC MOBILITY THERETO

(51) International classification	:H04W0004021000, G07C0009000000, G06Q0020340000, G06Q0030060000, B60R0025240000	(71)Name of Applicant : 1)Bycshare Technologies Private Limited Address of Applicant :D3- SF, M2K Sector 50, Gurugram 122018 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
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(87) International Publication No	: NA	2)Abhineet Singh Anand Address of Applicant :I 715 PALAM VIHAR, GURGAON,HARYANA 122017 -----
(61) Patent of Addition to Application Number	:NA	3)Aman Ghugtyal Address of Applicant :B-151, NEW MIG FLATS, MAYUR VIHAR PHASE 3, NEW DELHI, 110096 -----
Filing Date	:NA	4)Israr Ahmad Address of Applicant :A-348 , MINTO ROAD COMPLEX, NEAR CIVIC CENTRE NEW DELHI,110002 -----
(62) Divisional to Application Number	:NA	5)Shiv Prakash Pandey Address of Applicant :118/67 SUKHRALI SECTOR 17 A GURGAON,HARYANA 122001 -----
Filing Date	:NA	6)Ashish Sharma Address of Applicant :F-01, RAMGANGA VIHAR PHASE 2 , NEAR MIT ENGINEERING COLLEGE, MORADABAD,UP, 244001 -----
		7)Ayush Bansal Address of Applicant :H. NO. 4327, BALDEV GANJ, KOSI KALAN, MATHURA PINCODE-281403 -----

(57) Abstract :

A REAL-TIME GEOFENCING PARKING METHOD AND SYSTEM, AND ELECTRIC MOBILITY THERETO Disclosed is a method which is facilitated with the aid of application (app) that is installed on an electronic device of a user. The app includes a graphical user interface (GUI) on a display of the electronic device of the user. The app is configured to perform certain functions of the system, such as, for example, permitting a user to reserve a vehicle and access the vehicle thereafter. In an example, if the user is within a given distance from the parking zone defined by 10 geofence, the app may permit the user to request to use the vehicle, which request is directed to the system. The system may then direct an access signal to the electronic device of the user or the vehicle, which signal can permit the user to access the vehicle. The user may subsequently proceed to use the vehicle, such as, by coupling the electronic device of the user to the vehicle and driving the vehicle.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/03/2022

(21) Application No.202211011725 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ALOE TEM SOOTH CIRCLE (ATSC)-KIT

(51) International classification	:A61Q001900000, A61K0036886000, A61K0008370000, A61B0005010000, A61N0001400000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)DR. YOGESH KUMAR Address of Applicant :PRINCIPAL CUM PROFESSOR, M.M. INSTITUTE OF NURSING, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 2)MRS JYOTI PHOUGAT Address of Applicant :ASSISTANT PROFESSOR, M.M. INSTITUTE OF NURSING, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(87) International Publication No	: NA	3)MRS MANPREET KAUR Address of Applicant :ASSISTANT PROFESSOR, M.M. INSTITUTE OF NURSING, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)MRS PAYAL SAINI Address of Applicant :ASSISTANT PROFESSOR, M.M. INSTITUTE OF NURSING, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
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(57) Abstract :

ALOE TEM SOOTH CIRCLE (ATSC)-KIT The present ATSC-Kit invention is a Kit of Aloe vera gel impregnated temperature soothing pad-circle which is applied at the forehead in a pre-designed circle of application pattern to reduce the temperature along with boosting nourishment and rapid cooling property to the skin in hyperthermia condition for human beings. There is a conventional method of reducing the temperature by using homemade hydrated pads in hyperthermia conditions for human beings. However, because such a conventional method requires skills to make the folds, more rapid frequency in squeezing and changing the folded pads may cause post-application dryness, scaling, and irritations to human skin.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2022

(21) Application No.202211021739 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DIPHENYLMETHANE DIISOCYANATE BASED ORGANO OIL GELATORS: FROM SYNTHESIS TO APPLICATIONS

(51) International classification	:C09K0003320000, C02F0101320000, C02F0001280000, C08G0018760000, A61K0009060000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	Address of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)DR. JOGINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
(61) Patent of Addition to Application Number	:NA	2)YAJVINDER SAHARAN Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DIPHENYLMETHANE DIISOCYANATE BASED ORGANO OIL GELATORS: FROM SYNTHESIS TO APPLICATIONS In the present research work, supramolecular organo oil gelators were prepared using Diphenylmethane diisocyanate (MDI) and 1-tetradecanol/hexadecanol for the sorption of oil from oil contaminated water samples. The prepared gelators were characterized using FTIR, SEM and mass analysis. The FTIR and mass spectra confirmed the formation of oil gelators. Further, SEM analysis showed porous, fiber-like structures. In mechanism, it was proposed that the organo oil gel initial formed leads to self-assembly entanglements finally forming the fibres which further helps in oil uptake/trapping. The maximum uptake of the oil was around 50% initially and it was further increased to 92% using gasoline as the co-congealed solvent. Interestingly, the complete gelation of the oil from oil water emulsion was achieved within 25 min of application with high oil retention rate and easy recovery.

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2022

(21) Application No.202211021740 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HEXAMETHYLENE DIISOCYANATE, TOLUENE DIISOCYANATE, DIPHENYLMETHANE DIISOCYANATE BASED NOVAL OIL GELATORS: SYNTHESIS, CHARACTERIZATION AND FAST OIL ABSORPTION MECHANISM

(51) International classification	:C08G0018760000, C09K0003320000, C08G0018480000, C09D0011340000, A61K0008020000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA :NA	Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
Filing Date		
(62) Divisional to Application Number	:NA :NA	2)YAJVINDER SAHARAN Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
Filing Date		

(57) Abstract :

HEXAMETHYLENE DIISOCYANATE, TOLUENE DIISOCYANATE, DIPHENYLMETHANE DIISOCYANATE BASED NOVAL OIL GELATORS: SYNTHESIS, CHARACTERIZATION AND FAST OIL ABSORPTION MECHANISM In the present study, Hexamethylene diisocyanate (HMI), Toluene diisocyanate (TDI), Diphenylmethane diisocyanate (DMI) and 1-Octadecanol were used to make supramolecular organo oil gelators for the fast sorption of oil from oil-contaminated water systems. The gelators obtained were used in different combination as mentioned in Table 1 and the maximum uptake percentage efficiency was noted with and without the use of gasoline. The maximum oil uptake capacity was obtained using combination of TDI:DMI:HMI in the ratio 1:2:1 with 55% initially removal but efficiency was boosted to 97% with addition of gasoline (petrol) as the co-congealed solvent whereas when single gelator (dioctadecyl diphenylmethane -4,4- dicarbamate) was used, showed relatively lower uptake (45% initially) which was increased to 78% with addition of gasoline (petrol) as the co-congealed solvent. The complete gelation process was achieved in less than 25 minutes, with a high oil retention rate and quick oil recovery.

No. of Pages : 17 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2022

(21) Application No.202211001757 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BIOPROSPECTIVE STUDY TO MITIGATE NITRATE FROM DAIRY EFFLUENT

(51) International classification	:C02F0003340000, G01N0033180000, C02F0001280000, B09C0001100000, C02F0103320000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)NEHA SHARMA Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 2)VIPIN SAINI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 3)ANIL KUMAR SHARMA Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 4)LALIT MEHTA Address of Applicant :DEPARTMENT OF HOTEL MANAGEMENT, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 5)KALIRAJAN ARUNACHALAM Address of Applicant :DEPARTMENT OF SCIENCE ENGINEERING AND TECHNOLOGY, SCHOOL OF SCIENCE, ENGINEERING AND TECHNOLOGY, MULUNGUSHI UNIVERSITY, KABWE.80415, ZAMBIA ----- 6)SIANKUKU MUNASKA Address of Applicant :UNIVERSITY OF ZAMBIA, SCHOOL OF NATURAL SCIENCES, DEPARTMENT OF BIOLOGICAL SCIENCES, LUSAKA, ZAMBIA -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

BIOPROSPECTIVE STUDY TO MITIGATE NITRATE FROM DAIRY EFFLUENT The dairy industry is one of the evolving agro-industrial sectors which generate enormous volumes of effluent by virtue of different unit processes comprising both organic and inorganic moieties. This substantially leads to an increased Biochemical Oxygen Demand (BOD), Chemical Oxygen Demand (COD), Nitrates, Phosphates, Oil and Grease, Total Suspended and Dissolved Solids (TSS and TDS). Conventional treatment practices fail to comprehend with environmental acceptability and hence sustainability. Bioremediation is an environmental clean-up technique that uses microorganisms for degrading recalcitrant chemicals by utilizing them as metabolic substrate. We propose a microbial metabolic study to explore bio-efficacy potential of indigenous micro-flora to eliminate nitrates from effluent.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2022

(21) Application No.202211001759 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FLORAL TRASH: A PROSPECTIVE RAW MATERIAL FOR CANDLE MAKING

(51) International classification	:C11C0005000000, F21V0035000000, C11C0005020000, A23L0033105000, B65F0001160000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	2)VIPIN SAINI Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	3)ANIL KUMAR SHARMA Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
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(61) Patent of Addition to Application Number	:NA	5)KALIRAJAN ARUNACHALAM Address of Applicant :DEPARTMENT OF SCIENCE ENGINEERING AND TECHNOLOGY, SCHOOL OF SCIENCE, ENGINEERING AND TECHNOLOGY, MULUNGUSHI UNIVERSITY, KABWE.80415, ZAMBIA -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

FLORAL TRASH: A PROSPECTIVE RAW MATERIAL FOR CANDLE MAKING This invention relates to Floral Trash: A Prospective Raw Material for Candle Making. Disclosing A method of prospective raw material for candle making comprises Collection of left-over wax and mixing it with flowers after religious offerings in a ratio of 1:3; Premix in different solvents (Acetone, Ether and Choloform) for wax dissolution in 1:1:1 ratio; Pre-casted candle with a wick until solidification was attained; Finished product in different molds.

No. of Pages : 5 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/02/2022

(21) Application No.202211008521 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN EFFECTIVE FRAMEWORK FOR DISEASE PREDICTION USING MACHINE LEARNING

(51) International classification :G06N002000000, G16H0050300000,
G06Q0050220000, G16H0050700000,
G16H0050200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :Assistant Professor, Dept of CSE -----

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Address of Applicant :Assistant professor, ECE Dept -----

(57) Abstract :

Nowadays, health forecasting is vital in modern life. Big Data technologies have the potential to revolutionize fields such as healthcare, public health, and medical research. Many studies are being done on predictive analytics utilizing machine learning to improve decision making. Big data analysis can help forecast future health condition based on health factors. Several sophisticated machine learning approaches were developed and used to deliver big data predictive analytics solutions for a variety of diseases and conditions. The framework claims it was established thorough assessment of existing prediction models and their applicability to disease. The author's present the framework for training techniques, model assessment strategies, and prediction concerns, as well as solutions.

No. of Pages : 4 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/05/2022

(21) Application No.202211029846 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : UNMANNED AERIAL VEHICLE

(51) International classification :B64C002900000, B64C0039020000, B64C0027260000, B64D0047080000, A63C0009200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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Address of Applicant :GAS AUTHORITY OF INDIA LIMITED, NOIDA, UTTAR PRADESH INDIA Noida -----

(57) Abstract :

ABSTRACT UNMANNED AERIAL VEHICLE The present invention discloses a fixed-wing vertical take-off and landing unmanned aerial vehicle for surveillance and gas leak detection for long-distance cross-country gas pipeline. The unmanned aerial vehicle (UAV) (100) comprises a fuselage (102), a mid-wing part (106), a first wing (108), a second wing (110), and a secondary pusher motor (126). The unmanned aerial vehicle (UAV) (100) includes a fixed wing airframe that comprises a plurality of primary pusher motors (124) and an inverted C-shaped tail (128). The unmanned aerial vehicle (UAV) 100 with the plurality of primary pusher motors 124 and the secondary pusher motor 126 simplifies vertical take-off and landing. The unmanned aerial vehicle (UAV) 100 having a low cruise speed for accuracy and sensitive detection of gas leaks and surveillance. The unmanned aerial vehicle (UAV) 100 includes the image sensor (130), and the gas detection sensor (132) for accurate detection of gas-leaks and efficient-surveillance of pipelines. FIG. 1

No. of Pages : 39 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2022

(21) Application No.202111046525 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A BIOMIMETIC COMPOSITE FOR ORTHOPEDIC AND DENTAL IMPLANTS AND METHOD OF FABRICATING THE SAME

(51) International classification	:A61C0008000000, A61F0002300000, A61L0027540000, A61L0027320000, A61L0031160000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Kulkarni Dhananjay Madhukar Address of Applicant :BITS Pilani, K K Birla Goa Campus NH-17-B, Zuarinagar Goa, 403 726 -----
(87) International Publication No	: NA	2)N Iniyam Thiruselvam Address of Applicant :BITS Pilani, K K Birla Goa Campus NH-17-B, Zuarinagar Goa, 403 726 -----
(61) Patent of Addition to Application Number	:NA	3)Mali Kiran Dinkar Address of Applicant :Mali Kiran Dinkar -----
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a biomimetic orthopaedic/dental biocomposite material having a composition of polyether ether ketone (PEEK), boron nitride nanotubes (BNNT), and optionally hydroxyapatite (HA). Preferably, the composition can include 95% to 99% w/w PEEK as a matrix, 1% to 5% w/w BNNT as a nano-reinforcement, or 80% to 94% w/w PEEK as a matrix, and 1% to 5% w/w BNNT along with 5% to 15% w/w HA as a nano-reinforcement. 10 A method of manufacturing orthopaedic and dental implants includes steps of mixing polyether ether ketone (PEEK), boron nitride nanotubes (BNNT), and optionally hydroxyapatite (HA) to prepare a composite, and additive manufacturing (3D printing) the implant in the desired dimensions using the composite.

No. of Pages : 25 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2022

(21) Application No.202211015324 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PAPER-BASED RAPID TEST CARD FOR THE DETECTION OF ADULTERANTS IN MILK

(51) International classification :G01N0021780000, G01N0021850000, G01N0031220000, G01N0033569000, G01N0033558000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant :C/o Krishna Bahadur Singh, Suman Colony, Chamba Araili, Tehri Garhwal-249 145 Uttarakhand -----

(57) Abstract :

A paper-based rapid test card for the detection of adulterants in milk [0062] The present invention relates to a paper-based rapid test card for the detection of adulterants in milk. The present invention simultaneously detects the presence of preservative, soda, common salt, starch, detergent and urea as adulterants in milk. A drop of milk is added to the test paper-card for the detection of adulterants. The presence of adulterants is detected by the color change when the adulterant reacts with the reagent present in the card. The degree of color change is directly proportional to the concentration of adulterant. The paper-based rapid test card is simple, rapid, easy to use, economical, user-friendly and detects multiple adulterants simultaneously. (FIGURE 1)

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031293 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : VEHICLE CABIN SHELL

(51) International classification	:B62D0029040000, B62D0025200000, B60J0005040000, B29C0070300000, B62D0021020000	(71) Name of Applicant : 1)EVAGE VENTURES PVT. LTD. Address of Applicant :23, Sector 48, Kendriya Vihar, Chandigarh, 160047, India Chandigarh ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Shashank Kumar Singh Deo Address of Applicant :B-12, phase 3, Golden Arcade, Kota, Raipur, Chhattisgarh, 492010 Raipur ----- 2)Sandeep Sharma Address of Applicant :House No. 121, Sector 51A, Chandigarh, 160047 Chandigarh ----- 3)Inderveer Singh Panesar Address of Applicant :House No. 1135 (ground floor), Sector 77, Mohali, Punjab 160077 Mohali ----- 4)Fardeen Zaidi Address of Applicant :House No. 1/1, Lane 2, Vasant Vihar Enclave, Dehradun, Uttarakhand, 248001 Dehradun ----- -----
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

UNITARY CABIN SHELL FOR LAND VEHICLES AND METHOD OF MANUFACTURING THEREOF ABSTRACT A cabin shell for a land vehicle is disclosed. The cabin shell may include a unitary structure defined in a predefined shape corresponding to the cabin shell for the vehicle. The unitary structure may further define a front face, a left-side face substantially orthogonal to the front face, a right-side face substantially orthogonal to the front face and substantially parallel to the left-side face, and a top face substantially orthogonal to and positioned above the front face, the left-side face, and the right-side face. The unitary structure may further include at least two of: a layer of an epoxy, a layer of a glass fiber, and a layer of a gelcoat. [To be published with FIG. 1]

No. of Pages : 27 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/06/2022

(21) Application No.202211031296 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HEAT ABSORBING COLD PLATE

(51) International classification	:F15D0001020000, B67D0001080000, F28F0013060000, G01P0005000000, G01N0030880000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)EVAGE VENTURES PVT. LTD.

Address of Applicant :23, Sector 48, Kendriya Vihar, Chandigarh, 160047, India ----- -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Shashank Kumar Singh Deo

Address of Applicant :B-12, phase 3, Golden Arcade, Kota, Raipur, Chhattisgarh, 492010 Raipur ----- -----

2)Sandeep Sharma

Address of Applicant :House No. 121, Sector 51A, Chandigarh, 160047 Chandigarh ----- -----

3)Inderveer Singh Panesar

Address of Applicant :House No. 1135 (ground floor), Sector 77, Mohali, Punjab 160077 Mohali ----- -----

(57) Abstract :

In an embodiment, a heat removing system is disclosed that includes a first member and a second member positioned atop the first member. Each of the first member and the second member possess heat conduction property. The first member and the second member may define a cavity therebetween. Further, the heat removing system may include an inlet fluidically coupled with the cavity, the inlet being configured to receive a fluid within the cavity. The heat removing system may further include an outlet fluidically coupled with the cavity, the outlet being configured to exit the fluid from the cavity. The cavity is to create a vortex within the cavity, to maximize the heat transfer from the fluid to the first member and the second member.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/02/2022

(21) Application No.202211007465 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A NOVEL, HIGH PERFORMANCE AND STABLE CATHODE MATERIAL FOR SODIUM ION BATTERIES AND ITS PREPARATION METHOD THEREOF

(51) International classification	:H01M0010054000, H01M0004360000, H01M0004580000, H01M0004620000, H01M0010390000	(71) Name of Applicant : 1)INDIGENOUS ENERGY STORAGE TECHNOLOGIES PVT. LTD Address of Applicant :I-10, 2ND FLOOR, TIDES BUSINESS INCUBATOR, IIT ROORKEE, Roorkee ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DR. NAGESH KUMAR Address of Applicant :HOUSE NO. 108A, E-BLOCK, PARAMOUNT TULIP, DELHI ROAD, SAHARANPUR-247001 -----
(87) International Publication No	: NA	2)DR. ASIT SAHOO Address of Applicant :VILLAGE POSHAL, TOWN DAINLO, TIRTOL, JAGATSINGHPURA- 754137 -----
(61) Patent of Addition to Application Number	:NA	3)MR. AKASH SONI Address of Applicant :58-A, VAN VIHAR COLONY, TONK ROAD, JAIPUR – 302018 -----
Filing Date	:NA	4)DR. YOGESH KUMAR SHARMA Address of Applicant :116/4, NIRMAN PATH, IIT ROORKEE, ROORKEE- 247667 -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a composite material for Sodium ion batteries and the method of synthesis of the cathode material of Sodium ion batteries. The invention provides the method of synthesis of high performance and stable cathode material for Sodium ion batteries. Figure 1

No. of Pages : 41 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/03/2022

(21) Application No.202211015667 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ORGANOTIN (IV) COMPLEXES DERIVED FROM SCHIF BASE 1,3-BIS[(1E)-1-(2-HYDROXYPHENYL)ETHYLIDENE] THIOUREA: SYNTHESIS, SPECTRAL INVESTIGATION AND BIOLOGICAL STUDY TO MOLECULAR DOCKING

(51) International classification	:C07F0007220000, C07D0213530000, C08G0018240000, C08K0005570000, C08G0065400000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)ZAHOOR ABBAS Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR UNIVERSITY, SADOPUR, AMBALA 134007, INDIA -----
(87) International Publication No	: NA	2)HARDEEP SINGH TULI Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(61) Patent of Addition to Application Number	:NA	3)MEHMET VAROL Address of Applicant :DEPARTMENT OF MOLECULAR BIOLOGY AND GENETICS, FACULTY OF SCIENCE, MUGLA SITKI KOCMAN UNIVERSITY, KOTEKLI CAMPUS, TR48000 MUGLA, TURKEY -----
Filing Date	:NA	4)SHASHI SHARMA Address of Applicant :DEPARTMENT OF CHEMISTRY, DYAL SINGH COLLEGE, KARNAL, INDIA -----
(62) Divisional to Application Number	:NA	5)HARISH KUMAR SHARMA Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
Filing Date	:NA	6)PALLVI AGGARWAL Address of Applicant :DEPARTMENT OF CHEMISTRY, PT. CLS. GOVERNMENT COLLEGE, KARNAL, HARYANA 132001, INDIA -----
		7)MANOJ KUMAR Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR UNIVERSITY, SADOPUR, AMBALA 134007, INDIA -----

(57) Abstract :

ORGANOTIN (IV) COMPLEXES DERIVED FROM SCHIF BASE 1,3-BIS[(1E)-1-(2-HYDROXYPHENYL)ETHYLIDENE] THIOUREA: SYNTHESIS, SPECTRAL INVESTIGATION AND BIOLOGICAL STUDY TO MOLECULAR DOCKING A novel Schif base-derived organotin (IV) complexes have been synthesized by reacting 1, 3-bis [(1E)-1-(2-hydroxyphenyl) ethylidene]thiourea (which in turn obtained by condensing thiourea with ortho-hydroxyacetophenone) with diorganotin chlorides in methanol under stirring conditions. The synthesized compounds have been characterized by elemental analysis, FT-IR, NMR (1H, 13C, 119Sn), and Mass spectrometry. The results of the spectral study revealed that the ligand act as a tridentate in the complexes. Biological screenings demonstrate that the complexes possess significant activity against various bacterial and fungal strains while molecular docking has shown an intercalative mode of binding. The anti-angiosgenic property was evaluated using CAM assay.

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/06/2022

(21) Application No.202211031687 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR MITIGATING SPACE DEBRIS AND METHOD THEREOF

(51) International classification	:G21F 9/30	(71) Name of Applicant : 1)Indian Institute of Technology Kanpur Address of Applicant :Dean, Research & Development, Room Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Priyank Dubey Address of Applicant :Dean, Research & Development, Room Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur -----
Filing Date	:NA	2)Dipak Kumar Giri Address of Applicant :Dean, Research & Development, Room Number 151, Faculty Building, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM FOR MITIGATING SPACE DEBRIS AND METHOD THEREOF The present invention discloses a system for mitigating of space debris and method thereof. The system (100) comprises a docking unit (104), a melter unit (106), an evaporator unit (108), a calciner unit (110), a primary container (112), and a secondary container (116). The system (100) includes the docking unit (104) for collecting the radioactive waste (122), the melter unit (106) to convert it into liquefied form, and the evaporator unit (108) to remove water and volatile impurities. The calciner unit (110) then converts nitrates in the radioactive wastes (122) into non-volatile oxides, which are mixed with glass-forming constituents to create a solid glass product. The system (100) ensures efficient volume reduction, temperature control, and off-gas treatment, leading to the safe encapsulation and storage of the final product. This system (100) offers an approach to both space debris mitigation and radioactive waste management. FIG. 1

No. of Pages : 41 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2022

(21) Application No.202211031916 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INDIGENOUS GOLD STANDARD (IGS) DIAGNOSTIC KIT FOR MDR AND XDR-TB

(51) International classification	:C12Q0001180000, C12Q0001040000, C12Q0001020000, C12M0001340000, C12M0001320000	(71) Name of Applicant : 1)All India Institute of Medical Sciences Address of Applicant :Ansari Nagar, New Delhi ----- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Dr. Urvashi B Singh Address of Applicant :All India Institute of Medical Sciences, Ansari Nagar, New Delhi-110029 -----
(61) Patent of Addition to Application Number	:NA Filing Date	
(62) Divisional to Application Number	:NA Filing Date	

(57) Abstract :

INDIGENOUS GOLD STANDARD DIAGNOSTIC (IGS) KIT FOR MDR AND XDR-TB Present invention discloses an in vitro method and kit for detecting the presence of Mycobacterium tuberculosis and determining drug resistance. Method involves obtaining a sputum sample and decontaminating it using the N-acetyl L-cysteine-NaOH method. Sample pellet is then re-suspended in Phosphate Buffer Saline (PBS) and inoculated into drugcontaining tubes, each containing one of the following drugs: Rifampicin, Isoniazid, Kanamycin, and Ofloxacin. Additionally, a control group of drug-free tubes and a Para-nitrobenzoic acid (PNB) tube are included. All tubes are incubated at 37°C in a BOD incubator for 14 to 28 days. The presence or absence of colour development in the control and PNB tubes determines the presence of Mycobacterium tuberculosis, while colour development in the drugcontaining tubes indicates drug resistance to the respective drugs. Present invention provides a reliable and efficient method and kit for the detection of Mycobacterium tuberculosis and determination of drug resistance, aiding in the diagnosis and treatment of tuberculosis infections.

No. of Pages : 19 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/06/2022

(21) Application No.202211032695 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF FABRIC FROM PARTHENIUM HYSTEROPHORUS FIBRE, ITS BLENDS AND METHOD THEREOF FOR TEXTILE INDUSTRY

(51) International classification :B32B0005240000, D06P0003820000, C08G0077240000, C02F0103300000, C08G0077120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

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Address of Applicant :Department of Design, Banasthal Vidyapith, Banasthal, Newai, Tonk, Rajasthan – 304022, India Newai -----

2)JUNEJA, Shalini

Address of Applicant :Department of Home Science (Clothing & Textile), Banasthal Vidyapith, Banasthal, Newai, Tonk, Rajasthan – 304022, India Newai -----

(57) Abstract :

DEVELOPMENT OF FABRIC FROM PARTHENIUM HYSTEROPHORUS FIBRE, ITS BLENDS AND METHOD THEREOF FOR TEXTILE INDUSTRY The present invention relates to extracting fibres from plant Parthenium hysterophorus. The extraction method comprises soaking the stems of P. hysterophorus in water, boiling the soaked stems, putting them in retting liquor under pre-determined conditions, drying the retted stems and extracting the fibres manually. The retting liquor comprises one or more commercially available synthetic liquid detergent, one or more alkali solution, one or more commercially available softner in pre-determined ratio in water. The P. hysterophorus fibres are blended with one or more other natural fibres and/or synthetic fibres in workable ratio to obtain blended yarn of good strength, fineness, moisture regain property, and air permeability.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2022

(21) Application No.202211039869 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR CLASSIFYING AND UPSCALING THE DRP OPTIMIZED PARAMETERS OF POROSITY, PORE TYPES AND ASPECT RATIO TO FIELD VALUES

(51) International classification	:E21B0049000000, G01V0011000000, G01V0099000000, G01V0001500000, G01V0003380000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE Address of Applicant :Roorkee Roorkee ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)PROF. RAVI SHARMA Address of Applicant :Department of Earth Sciences, Indian Institute of Technology Roorkee, Roorkee- 247667 Roorkee ----- -----
Filing Date	:NA	2)DR. SHRUTI MALIK Address of Applicant :Department of Earth Sciences, Indian Institute of Technology Roorkee, Roorkee- 247667 Roorkee ----- -----
(87) International Publication No	: NA	3)ADITHYA SHASHIDHARA SHETTAR Address of Applicant :Department of Earth Sciences, Indian Institute of Technology Roorkee, Roorkee- 247667 Roorkee ----- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for classifying the pore types into different categories and then upscaling the porosity values to well log scale. The present invention considers the micro CT images from carbonate formations exhibiting range of heterogeneity in order to understand the detectability of pore volume, the transition boundaries between pore and grains and the pore types –w.r.t aspect ratio and size- present in the formation. Given the set of challenges, the method includes the segregation of the pores into their types; by size (micro, meso, and macro) by considering grains of different aspect ratio (AR) which intuitively determines the flow regime in the formations. The size of pores controls the schemes of fluid flow in formations and their aspect ratio controls the elastic property behaviour in stressed rocks. Because the processes are coupled, it becomes important to calibrate DRP modelling results with laboratory measurements for larger understanding. The invention also includes the upscaling of the pore volume of each pore types to well log scale to observe the trend through the entire well length using Differential Effective Medium (DEM) theory. Figure 1

No. of Pages : 28 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/08/2022

(21) Application No.202211045316 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SMART SUSTAINABLE DUAL ZONE BLADELESS AIRFLOW DEVICE

(51) International classification :F04D0017040000, F21Y0115100000, F21S0008080000, F21S0009030000, F21V0029670000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)KARBAN ENVIROTECH PRIVATE LIMITED

Address of Applicant :B22A, Shri Ram Mandir Marg, Vijay Badi, Path no 7, Sikar Road, Jaipur-302019, Rajasthan, India
Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)KARAN BANSAL

Address of Applicant :B22A, Shri Ram Mandir Marg, Vijay Badi, Path no 7, Sikar Road, Jaipur-302019, Rajasthan, India Jaipur -----

(57) Abstract :

ABSTRACT “A SMART SUSTAINABLE DUAL ZONE BLADELESS AIRFLOW DEVICE” The present invention provide a smart sustainable dual zone bladeless airflow device (100) comprising of a housing (1) that includes a back cover, a housing top (2) and a housing bottom; a plurality of cross-flow/tangential fan (3); a plurality of LED panel (6); a LED panel cover (7); a plurality of motor (4); a plurality of flap/flow deflector (8); a plurality of metal infused wire for suspending the cross-flow/tangential fan; a printed circuit board (PCB) board; a remote control; and a high efficiency particulate air (HEPA) filter (5). The housing (1) which includes plurality of motor (4) operates said plurality of cross-flow/tangential fan (3) arranged along the edges. The LED light fixture having plurality of LED panels (6) for emitting illumination, said printed circuit board (PCB) board for physically supporting and wiring electronic components. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

No. of Pages : 23 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/04/2022

(21) Application No.202211022305 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ECONOMICAL AND ECO-FRIENDLY PROCESS FOR PRODUCING CHENOPODIUM ALBUM-DERIVED CARBON QUANTUM DOTS AND THE USE THEREOF AS FLUORESCENT MARKER FOR BIOIMAGING

(51) International classification	:C09K0011650000, B82Y0040000000, B82Y0030000000, B82Y0020000000, G01N0021640000	(71)Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)VISHAL Address of Applicant :DEPTT. OF PHYSICS & DEPTT. OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 2)VARUN DUTT SHARMA Address of Applicant :DEPTT. OF PHYSICS & DEPTT. OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 3)INDU SHARMA Address of Applicant :DEPTT. OF PHYSICS & DEPTT. OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- 4)MILAN KUMAR BERA Address of Applicant :DEPTT. OF PHYSICS & DEPTT. OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AN ECONOMICAL AND ECO-FRIENDLY PROCESS FOR PRODUCING CHENOPODIUM ALBUM-DERIVED CARBON QUANTUM DOTS AND THE USE THEREOF AS FLUORESCENT MARKER FOR BIOIMAGING The present invention relates to a method for producing green-fluorescence emitting carbon quantum dots (CQDs) derived from a common vegetable and an ayurvedic medicinal plant, Chenopodium album, via a simple, cost-effective, and environmentally friendly hydrothermal synthesis route. The current invention also demonstrates how to use as-synthesized CQDs as fluorescent markers for bioimaging.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/04/2022

(21) Application No.202211022306 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ECONOMICAL PROCESS FOR MICROWAVE-ASSISTED GREEN SYNTHESIS OF CALOTROPIS GIGANTEA-DERIVED CARBON QUANTUM DOTS AND THE USE THEREOF AS FLUORESCENCE LABELING

(51) International classification	:C09K0011650000, B82Y0040000000, B82Y0020000000, B82Y0030000000, G01N0021640000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)NEETU SHARMA Address of Applicant :DEPTT. OF PHYSICS, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 -----
(87) International Publication No	: NA	2)INDU SHARMA Address of Applicant :DEPTT. OF BIOTECHNOLOGY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 --- -----
(61) Patent of Addition to Application Number	:NA	3)MILAN KUMAR BERA Address of Applicant :DEPTT. OF PHYSICS, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ECONOMICAL PROCESS FOR MICROWAVE-ASSISTED GREEN SYNTHESIS OF CALOTROPIS GIGANTEA-DERIVED CARBON QUANTUM DOTS AND THE USE THEREOF AS FLUORESCENCE LABELING The current invention provides a method for producing green-fluorescence emitting carbon quantum dots (CQDs) from Calotropis gigantea, an Ayurvedic plant, by employing a simple, cost-effective, and microwave-assisted green synthesis process. The current innovation additionally shows how to employ as-synthesized CQDs as fluorescent markers in optical bioimaging.

No. of Pages : 23 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/04/2022

(21) Application No.202211022307 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR PREPARING BUCKWHEAT FLOUR AND MORINGA OLEIFERA LEAF POWDER BASED NUTRITIONAL COOKIES

(51) International classification	:A21D0002360000, B32B0027320000, A23L0025100000, C08L0023120000, A21D0013310000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A PROCESS FOR PREPARING BUCKWHEAT FLOUR AND MORINGA OLEIFERA LEAF POWDER BASED NUTRITIONAL COOKIES The raw materials required in different preparation of cookies (control and test) were purchased from the local market. It included Buckwheat flour (Organic India), Moringa oleifera leaf powder (Organic India), Whole wheat flour (Ashirwaad ITC), Baking powder (WeikField), Baking soda (WeikField), Peanut butter (Dr. Oetkar), coconut oil (Organic India), Vanilla extract (Urban platter) and Honey (Dabur). Also, VitaFiber IMO's Prebiotic fiber Sweetener (Isomaltooligosaccharides) was purchased from BioNeutra North America Inc. through amazon.com. The packaging material used in the shelf life study of the final product was purchased from the local market, Jammu. The finalized packaging materials were PP (Polypropylene) and BOPP (Biaxially oriented polypropylene).

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/12/2022

(21) Application No.202211069294 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND APPARATUS FOR BODY VITAL AND ECG MONITORING

(51) International classification :A61B000500000, A61B0005020500, A61B0005024000, A61B0005021000, A61B0005145000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to a system (200) and an apparatus (100) for body vital and ECG monitoring. Apparatus (100) comprises a cavity (102), at least two electrodes (206), and a display module (104). The cavity (102) is configured to receive a finger of a user, and through a circuit board (126) that is operatively coupled to one or more sensors, compute body vitals selected from any or a combination of body temperature, blood pressure, heart rate, and oxygen level. The at least two electrodes (206) are configured to receive at least two fingers of the user and simultaneously compute Electrocardiogram (ECG) levels of the user. The display module (104) is configured to present the computed ECG levels and the computed body vital values.

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/07/2022

(21) Application No.202211042686 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NEW DESIGN SEALD PACKAGING VACCUME PACK CONTAINER WITH DISPENSABAL PROPERTIES

(51) International classification :C08J0005180000, B65D0083040000, F28F0009020000, C09D0163000000, H01M0002120000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

A MULTIFUNCTIONAL VACUUM CONTAINER The present invention provides a multifunctional vacuum container which comprises an air tight manually operatable lid (3); a vacuum assembly comprises of an air conduit vent (4); a protruding member (5); a circular thread groove (6); a rectangular shaped insulation chamber 10 (7); an air suctioning or releasing valve (10) (4); a closed body of the said container (11); a handle (13) for holding the said container; a metal spring (14); a sprinkler chamber (15) having a sliding lid for opening and closing the said chamber and a plurality of circular or any design pores created at the base plate of the said sprinkler chamber and a storage section (17); a main central vacuum chamber (16); a food dispensing assembly; a rolling assembly; and a thumb 15 pressing switch (36). The said container helps in keeping the life shell of the food content for a longer period of time.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/09/2022

(21) Application No.202211050703 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EDIBLE TREATMENT COMPOSITION FOR SHELF-LIFE EXTENSION OF MUSHROOMS

(51) International classification :A61P001100000, A61P0031180000, A61P0003100000, G16H0010600000, A61P0011060000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses an edible treatment composition comprising non-toxic and non-hazardous chemicals to extend the shelf-life and maintain freshness of mushroom for prolonged time during its storage and shipment. The disclosed edible treatment composition includes Kojic Acid, L-arginine, Hydroxy Cinnamic acid (HCA) and optionally additional active or inactive components like antimicrobial agent, etc. This invention is concerned with the treatment of mushroom with disclosed edible treatment composition, pre- or post- harvest, to extend its shelf-life by imparting one or more properties like, maintained whiteness, delayed browning, delayed pileus (cap) opening, better firmness, maintained structural integrity, slower weight-loss, etc. for prolonged time, amongst others. FIG. 3

No. of Pages : 35 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070197 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TIO2(TITANIUM DIOXIDE)/ZNO (ZINC OXIDE) COMPOSITE AND METHOD FOR SYNTHESIS THEREOF

(51) International classification	:C03C0017360000, B82Y0030000000, A61K0008270000, B01J0035020000, C03C0003066000	(71) Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA Filing Date :NA	(72) Name of Inventor : 1)Dr. Tanu Mittal Address of Applicant :Assistant Professor, Department of Chemistry, Faculty of Natural Sciences (FNS), GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- 2)Prof. Sangeeta Tiwari Address of Applicant :Associate Professor & Head, Department of Chemistry, Amity Institute of Applied Sciences (AIAS), Amity University, Sector-125, Noida – 201313, Uttar Pradesh, India. Noida -----
(62) Divisional to Application Number	:NA Filing Date :NA	

(57) Abstract :

A TiO₂(Titanium Dioxide)/ZnO (Zinc Oxide) composite and method for synthesis thereof comprises of following steps: i) immersing Pirhana solution glass substrate in nano silica solution for time duration in range of 2-8 minutes followed by withdrawing substrate at a rate of 2-5 mm/s and drying to obtain Silica dioxide coated glass substrate, ii) immersing obtained SiO₂ coated glass substrate in Teflon coated beaker containing aqueous hexamine solution and zinc acetate dehydrate in hydrothermal autoclave at temperature in range of 80-120o C to obtain ZnO nanoflower coated glass substrate, iii) removing ZnO nanoflower coated glass substrate from beaker followed by rinsing glass substrate with distilled water and drying at temperature in range of 80-120o C to obtain ZnO coated glass slides, and iv) dipping ZnO coated glass slides in TiO₂ solution for 2-8 min followed by withdrawing glass slides and drying to obtain TiO₂/ZnO composite.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070199 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PATIENT ISOLATION SYSTEM

(51) International classification	:A61J0007040000, G16H0040630000, A61B0005000000, G06F0003042000, A61B0005010000	(71) Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Radhika Address of Applicant :Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----
(87) International Publication No	: NA	2)Dr. Anurag Sharma Address of Applicant :Professor, Department of Computer Science and Engineering, Faculty of Engineering, Design and Automation, GNA University, Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A patient isolation system, comprising an artificial intelligence based imaging unit 1 installed within an enclosure 2 for capturing images of a visitor, an inbuilt control unit actuates a screen 3 for displaying captured images, a touch interactive display panel 4 for allowing visitor to enter details, a multi-sectioned storage container 5 for storing different type of medicines, a motorized slider arrangement 7 for withdrawing container 5 in order to allow patient to take medicines, a wearable component 8 developed to be equipped by patient on a wrist portion, a FBG (Fiber Bragg Grating) sensor 9 for examining vital health parameters of patient, a sliding arrangement 10 configured with an oxygen supplying unit 11 for providing movement to supplying unit 11 to position an oxygen mask 15, and a sliding unit 12 for providing movement to tray 13 to allow visitor to place a food item and/or beverage.

No. of Pages : 15 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/12/2021

(21) Application No.202111062290 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PROCESS FOR THE PREPARATION OF GREEN-FLUORESCENCE EMITTING CARBON QUANTUM DOTS FROM TRADITIONAL MEDICINAL PLANT CISSUS QUADRANGULARIS AND THE USE THEREOF FOR QUANTUM DOT BASED DISPLAY APPLICATIONS

(51) International classification :A61K0036870000, B82Y0040000000,
B82Y0020000000, C09K0011020000,
C09K0011650000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

PROCESS FOR THE PREPARATION OF GREEN-FLUORESCENCE EMITTING CARBON QUANTUM DOTS FROM TRADITIONAL MEDICINAL PLANT CISSUS QUADRANGULARIS AND THE USE THEREOF FOR QUANTUM DOT BASED DISPLAY APPLICATIONS The present invention relates to a process for the preparation of green-fluorescence emitting carbon quantum dots (CQDs) derived from traditional medicinal plant, Cissus quadrangularis using facile, cost-effective and eco-friendly solvothermal synthesis route. The present invention also demonstrates the use of as-synthesized CQDs for display device application.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/02/2022

(21) Application No.202211007016 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED SEAT BELT UNBUCKLE MECHANISM FOR EMERGENCY

(51) International classification :B60R0022020000, A44B0011250000,
B60R0022320000, B60R0022030000,
E05B0047000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AUTOMATED SEAT BELT UNBUCKLE MECHANISM FOR EMERGENCY An improved seat belt device 200 for unlocking of the seat belt buckle and unfastening of the seat belt is disclosed. Seat belt device 200 includes an electronic actuator 204 with an integrated arm 204-1 adapted to fit in the minimal design space. Actuator arm (204-1) is kind of pulling type of arrangement due to reciprocal motion provided by the electronic actuator. When the temperature and humidity sensor sense the emergency situation, pass the signal to controlling unit which further instruct the electronic actuator (204) to unlock the seat belt buckle (203). Electronic actuator (204) provide reciprocal motion to the actuator arm (204-1), which pulls the lever (205) by taking due to the advantage of its pulling type shape, in-turn notch (205-1) comes out of the buckle slot (203-1) and its facilitates buckle to come for unlocking instantly. FIGs. 2B and 3A shall be the reference figures.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/06/2022

(21) Application No.202211037172 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PORTABLE MUD BASED CURVY AND CONE HEAT SINKER SYSTEM FOR OUTDOOR AIR CONDITIONER UNIT

(51) International classification	:F24F0005000000, F24F0013220000, F24F0001022000, G01N0001100000, F24F0011300000	(71) Name of Applicant : 1)SANT LONGOWAL INSTITUTE OF ENGINEERING AND TECHNOLOGY Address of Applicant :Longowal, Distt. Sangrur, Punjab–148106, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)ANUJ BANSAL Address of Applicant :Assistant Professor, Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Distt. Sangrur- 148106, Punjab, India -----
Filing Date	:NA	2)JONNY SINGLA Address of Applicant :Assistant Professor, Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Distt. Sangrur-148106,Punjab, India - -----
(62) Divisional to Application Number	:NA	3)ANIL KUMAR SINGLA Address of Applicant :Associate Professor, Mechanical Engineering Department, Sant Longowal Institute of Engineering and Technology, Longowal, Distt. Sangrur-148106, Punjab, India.
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(57) Abstract :

The present disclosure relates to a portable mud based curvy and cone heat sinker system(20) for outdoor air conditioner unit. The system(20) comprising frame(1) provided on the condenser side of outdoor air conditioning unit. Frame comprising bottom water tank(11) which is configured to collect waste water from air conditioner. First inlet valve (5) and second inlet valve(6) provided on bottom water tank(11) of frame(1). Mud based curvy and cone matrix(9) mounted on stand(13). Mud based curvy and cone matrix(9) having conical shaped passages(12) with bigger diameter towards air conditioning unit. Pump(2) provided on bottom water tank(11). Delivery pipe(3) having first side connected to pump(2) and second side connected with upper water rail(8). Delivery pipe(3) configured to deliver water from bottom watertank(11) to upper water rail(8) using pump. Pores(7) configured to sprinkle water on mudbased curvy and cone matrix(9). Drain valve (4) provided on bottom watertank(11) to drain out collected water.

No. of Pages : 16 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/01/2023

(21) Application No.202311005643 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PROCESS FOR SYNTHESIS OF CALCIUM SILICATE HYDRATE AS A PRE-FORMED HARDENING ACCELERATOR

(51) International classification	:C04B004000000, C04B0028080000, C04B010310000, C04B0028020000, C04B0103140000	(71) Name of Applicant : 1)Indian Institute of Technology Roorkee Address of Applicant :Roorkee - Haridwar Highway, Roorkee - 247667, Uttarakhand, India. Roorkee ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
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(87) International Publication No	: NA	2)CHOWDHURY, Rajib Address of Applicant :Associate Professor, Civil Engineering Department, Indian Institute of Technology Roorkee, Roorkee - 247667, Uttarakhand, India. Roorkee -----
(61) Patent of Addition to Application Number	:NA	3)CHAKRABARTI, Anupam Address of Applicant :Professor, Civil Engineering Department, Indian Institute of Technology Roorkee, Roorkee - 247667, Uttarakhand, India. Roorkee -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a process for synthesizing calcium silicate hydrate (CSH) gel as a hardening accelerator for early strength gain in concrete. Concrete is a widely used construction material that can be improved in terms of strength and durability by using hardening accelerators, such as CSH, which increase the rate of cement hydration and the formation of hydration products. The invention involves mixing sodium silicate solution and distilled water, oxidizing the mixture with sulphuric acid, washing the resulting silica gel with deionized water, adding ground granulated blast furnace slag to the mixture, and using probe sonication to break down the CSH particles to a nano-size. The CSH gel produced by this method can be used as a hardening accelerator in concrete to improve its early strength gain.

No. of Pages : 52 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/04/2022

(21) Application No.202211020713 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CAN SEAMING DEVICE AND ITS METHOD THEREOF

(51) International classification :B44D0003120000, B65D0017280000, B65B0007280000, B21D0051380000, B21D0051320000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A CAN SEAMING DEVICE AND ITS METHOD THEREOF The present invention relates to a Can Seaming Device comprising a base casting (1) 10 mounted thereon a main pillar (2) and configured thereon the main plate (6) wherein the Can to be sealed is fixed; plurality of slides (4) fixed to the main pillar (2) by means of slide brackets (3) and plurality of Hex Bolts (7) for the upside and downside movement of main plate (6) ; a first operation roller and a second operation roller wherein the movement of these rollers are either mechanically controlled in the 15 automated machines by a Cam or controlled manually by Hand in the manual machines; characterized in that a first Servo motor is installed to control the rotation of the Can and another Servo motor to control the movement of the roller. Refer Figure 1.

No. of Pages : 22 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/11/2022

(21) Application No.202211067863 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "A SELF-CHARGING ELECTRIC MOTORCYCLE"

(51) International classification :B62K0011040000, B62J0043160000, B60L0050600000, H01L0029780000, B62J0043000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

ABSTRACT A SELF-CHARGING ELECTRIC MOTORCYCLE The present invention relates to a self-charging electric motorcycle. The self-charging electric motorcycle comprises at least two motors 5 (1,2), two batteries, an ECU, and a Black box. The generation of electricity is done with the help of momentum of the wheels of the said electric vehicle.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/03/2023

(21) Application No.202311015904 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NOVEL APPROACH OF DEEP LEARNING BASED BRAIN TUMOR DETECTION

(51) International classification	:A61P 350000, C12Q 016886, G06N 030400, G06N 030800, G06T 070000	(71)Name of Applicant : 1)DR DIVYA GOYAL Address of Applicant :DEPARTMENT OF PHYSIOTHERAPY GD GOENKA UNIVERSITY, GURUGRAM HARYANA, INDIA ----- 2)Dr. Vishwajeet Trivedi 3)Dr. Parimala :6 4)Dr. Richa Mahajan 5)Dr Kanchi LQhitha .Lakshmi 6)Dr. ShaikBabu , 7)Ch. B. v. Durga 8)Miss Pratibha Chokhi 9)Mrs. Bharani · G · 10)Mohana Priya T Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)DR DIVYA GOYAL Address of Applicant :DEPARTMENT OF PHYSIOTHERAPY GD GOENKA UNIVERSITY, GURUGRAM HARYANA, INDIA ----- 2)Dr. Vishwajeet Trivedi Address of Applicant :Department of Physiotherapy GD Goenka University , Gurugram , Haryana , India ----- 3)Dr. Parimala Address of Applicant :Department of Zoology, University College of Science, Tumkur University , rumkur , Karnataka, India , 572103 ----- 4)Dr. Richa Mahajan Address of Applicant :Assistant Professor, Department of Physiotherapy, QO Qoenka University , Gurugram , Haryana , India ----- 5)Dr Kanchi LQhitha .Lakshmi Address of Applicant :Associate Professor, Department of Computer Science and Engineering Vasireddy Venkatadri Institute of frechnology , Guntur , Andhra Pradesh , India ----- --- 6)Dr. ShaikBabu Address of Applicant :Department ofEngineering physics, College of Engineering, Koneru Lakshmaiah Education Foun:c:ation , Yaddeswaram , [Andhra Pradesh , India ----- --- 7)Ch. B. v. Durga Address of Applicant :Assistant Professor, PSCMR College of Engineering & Technology, Kothapet , Vijayawada, Andhra Pradesh , India , 1520001 ----- 8)Miss Pratibha Chokhi Address of Applicant :Assistant Professor, Nutrition and Dietetics, Shri Rawatpura Sarkar University Raipur , Chhattisgarh , India ----- 9)Mrs. Bharani · G · Address of Applicant :Department ofEEE, M.Kumarasamy College of Engineering , Karur , Tamilnadu , India ----- 10)Mohana Priya T Address of Applicant :Department of Computer Science, CHRIST (Deemed to be University) , Hengaluru , Karnataka , India -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Brain cancer is the leading cause of cancer deaths worldwide. One of the most reliable methods in cancer diagnosis is the examination of histological specimens under the microscope by a pathologist. Diagnosis of cancer is carried out by examining the glandular architecture of the specimen based on Deep Learning technique. Conventional histological practice in cancer diagnosis is prone to subjectivity and limited intra and inter-pathologist reproducibility, due to its heavy reliance on human interpretation. A few research efforts have been dedicated to the development of quantitative techniques in order to achieve accurate, robust, and reproducible diagnosis in histological images. An accurate diagnosis is critical for determining optimal treatment. In this invention automated method is designed and developed which helps in classification of brain tissue with more accuracy. Automated MRI (Magnetic Resonance Imaging) brain tumor segmentation is a difficult task due to the variance and complexity of tumors. In this invention, a statistical structure analysis-based tumor segmentation scheme is presented, which focuses on the structural analysis on both tumorous and normal tissues based on Deep Learning. Eight distinct invariant features are used for the prediction of tumor in a given MRI image. In order to choose an effective classifier, three neural networks are used to identify the focuses respectively, and their performance is compared.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/03/2023

(21) Application No.202311019899 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR CONVERTING A FUEL MOTORCYCLE INTO A HYBRID MOTORCYCLE

(51) International classification :B60K 6/20, B60K 6/48, B60W 20/00, B62M 23/02, B62M 6/40, B62M 6/90
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention provides smart hybrid e-bike, that run on lithium battery and running cost reduced to high extent by 80-85% and during ride, when battery exhaust, rider can switch to fuel mode and safely and timely reach nearby destination and can again recharge the battery. The system comprises a motor coupled to the hybrid motorcycle; a battery coupled with the motor. a sine wave controller with the battery, a throttle, a motor shaft extension coupled to the motor. the system may further include at least two key switches coupled with the battery and the motor. The hybrid vehicle is configured to switch from the electric mode to the fuel mode from based on operation of the at least two key switches when there is no power in the battery, without tamper in engine and its mechanism.

No. of Pages : 40 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2022

(21) Application No.202211019006 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR GEOSPATIAL DATA ACCURACY

(51) International classification :B60W0040076000, B60W0030140000, G06F0016290000, G07C0005080000, B60R0021010000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(57) Abstract :

A METHOD AND SYSTEM FOR GEOSPATIAL DATA ACCURACY Disclosed is a method and system for accuracy of geospatial data received from an IoT device integrated with a vehicle. The method includes receiving the geospatial 5 data of the vehicle from a GPS tracker embedded with the IoT device; filtering out data points where the vehicle ignition is ON as the first level of filtration; passing the geospatial data received from the GPS tracker through second level of filtration; calculating speed of the vehicle using the geospatial data; correlating the calculated speed of the vehicle with the maximum threshold speed for the vehicle 10 as the third level of filtration; eliminating the data points wherein the calculated speed of the vehicle exceeds the maximum threshold speed for the vehicle; achieving the optimized geospatial data after running through multiple levels of filtration; and passing on the filtered geospatial data on to the distance calculation measurements and calculating accurate distance travelled by the vehicle.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2022

(21) Application No.202211033635 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYNERGISTIC AGROCHEMICAL COMPOSITION

(51) International classification :A01N0043560000, A01N0047020000,
A01N0043540000, A01N0051000000,
A61K0009000000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure discloses a synergistic composition comprising Chlorantraniliprole, Thiamethoxam and Fipronil. The invention further relates to formulations comprising the composition of the present invention and methods of controlling insects, pests infesting plants in rice crop.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/03/2023

(21) Application No.202311021576 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MANUALLY OPERATED PORTABLE DEVICE FOR FERTILIZERS/ AGROCHEMICALS/SEEDS PLACEMENT IN ORCHARDS AND KITCHEN GARDENS

(51) International classification	:A01C 070200, A01C 150200, A01M 070000, G01T 012000, H03F 032400	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

MANUALLY OPERATED PORTABLE DEVICE FOR FERTILIZERS/ AGROCHEMICALS/SEEDS PLACEMENT IN ORCHARDS AND KITCHEN GARDENS The present invention provides a transportable device, designed and fabricated to demonstrate the functioning and utility of the equipment. The device consists of a storage box where granular fertilizers can be stored. It is mounted on a handle and fixed on rotatable rubberized wheel for easy transportation and fitted with a lever, to open its retainer gate for passage of fertilizer to delivery box of fertilizer, connected with main chamber through vertical sliding retainer gate opening. The delivery box is further connected through square pipe for regulating the fertilizer/agrochemical/seed placement with manually operated spring loaded lever. At the base of the equipment a square hardened penetrating iron plate is fitted to make hole in the soil by pressing the plate with feet downwards. The fertilizer/agrochemicals/seed can then be placed in the hole by moving lever upwards so that the retainer gate of storage box, opening of storage box and lower opening of delivery box can be opened for passage of materials downwards in the holes dug in the field. The device after delivery of the materials at one point can be placed at the other point in the orchards or kitchen gardens by and by to cover the whole field. The fertilizer/agrochemicals/seeds can thus be placed in precise way at desired points and in desired quantity so that the fertilizer use efficiency is optimized and increased and the fertilizer losses due to broadcasting can be minimized.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202211052773 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : POWERTRAIN FOR AN ELECTRIC VEHICLE

(51) International classification :F16D0021060000, B60K0006383000, F16D0121200000, F16D0013520000, F16H0015100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT There is disclosed a powertrain for an electric vehicle, the powertrain comprising a motor having an output rotor; a flywheel having a first face and a second face, wherein the first face of the flywheel is connected to the output rotor of the motor; a torque transmitting unit comprising a friction disk; an input shaft connected to the friction disk at one end; a pressure disk unit comprising a pressure disk; a diaphragm spring, wherein the diaphragm spring is connected to the pressure disk; a cover disk, wherein the cover disk is attached to the flywheel; a plurality of gear pair located at other end of the input shaft; characterized in that, the second face of the flywheel is connected to first side of the friction disk of the torque transmitting unit, wherein the friction disk is configured to selectively engage or disengage with the flywheel. Fig. 1

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/01/2023

(21) Application No.202311001342 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR ENHANCEMENT OF POWER GENERATION EFFICIENCY (PGE) OF PV SYSTEMS USING MIRROR REFLECTORS

(51) International classification	:G05F 1/67, H01L 31/054, H02S 20/23, H02S 40/22, H02S 40/30, H02S 40/38, H02S 40/42, H02S 50/00	(71) Name of Applicant : 1)Davinder Kumar Sharma Address of Applicant :1736 Sector 9 ----- 2)AMAN SHARMA Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The carbon emissions increase due to the ever-increasing utilization of fossil fuels all over the world. The solution is, production of cost effective green energy for ever increase energy demand for rapid development in the country there is a need for cost effective green energy production and utilization. India presently has 100 GW PV solar electricity installed capacity. The existing PV solar array could increase output by simple solution like mirror reflectors. We developed process technology using simple mirror reflectors for existing PV array. The simple principle is that mirror reflectors increase solar radiation on PV modules. The average power generation efficiency increase with the use of bottom mirror reflector and intermittent cooling was 9 % -13.5% for different angles of reflector. This process a simple, cost effective and can be augmented with existing PV arrays easily. The arrangement of the process is shown in figure. The cost per kWh incurred by traditional and modified system is Rs 8.39/kWh and Rs 8.30/kWh respectively. Water spray circulation system serves dual purpose, it maintains the temperature of the modified PV module and also clean its surface that leads to better power generation. The process gave more electricity per unit PV area. if a process is applied on all PV arrays we can get additional electricity i.e. 9 GW additional electricity with our standardized process technology. Furthermore, the PV array is modified with upper mirror in addition to bottom mirror. The double mirror system increase power generation efficiency on an average 18.45% in comparison to reference PV array. The double mirror system is more suitable to rooftop PV array system.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/03/2023

(21) Application No.202311022655 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FRUIT BAR COMPOSITION AND METHOD OF MAKING THEREOF

(51) International classification	:A23L 331250, C11D 100400, C11D 170000, H01L 271157, H01L 271158
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

FRUIT BAR COMPOSITION AND METHOD OF MAKING THEREOF The present invention discloses fruit bar composition comprising fruit pulp/ fruit leather of dried mango, dried apricot, dried sapota, dried banana, seeds, cereals and binding agents, flavour enhancer and sweeteners. The present invention also discloses a method of making fruit bars that are nutritionally valuable, ready-to-eat food alternative/supplement.

No. of Pages : 16 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/05/2022

(21) Application No.202211030099 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EDGE COMPUTING ENABLED AUTOMATED DIGITAL COMPOUND MICROSCOPE FOR IMPLEMENTING ARTIFICIAL INTELLIGENCE

(51) International classification :G06N0003080000, G02B0021360000,
G06T000700000, G16H0010400000,
G02B002100000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to novel portable, edge-computing enabled automated digital compound microscope device that allows its user to automatically capture a series of high-resolution magnified digital images of specimen mounted on glass slide. The said device can generate whole slide images from the series of captured magnified digital images, perform on-device training of artificial neural networks using whole slide image data, and can generate intelligent inferences from whole slide image data using artificial neural networks.

No. of Pages : 44 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/09/2022

(21) Application No.202211051828 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NIPPLE COVERING APPARATUS FOR GARMENTS

(51) International classification :A61J0011000000, A61J0009000000,
E04G0023000000, B60P0007020000,
E04H0006040000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

Nipple covering apparatus for garments 5 The present invention particularly relates to an improved apparatus and method of covering nipples and breasts such that wearing a bra or other materials that adhere / stick to the skin are not required. The preferred embodiment of the present invention, as disclosed herein, provides the use of HTV as the material used to make the nipple covering apparatus. Cuts are made in the HTV in order to improve the 10 covering apparatus's flexibility and resistance to crumpling under the clothing.

No. of Pages : 21 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/10/2022

(21) Application No.202211061498 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN AI BASED METHOD AND SYSTEM OF SMART MIRROR FOR HAIR CONSULTATION AND TRY-ON EXPERIENCE USING MACHINE LEARNING

(51) International classification	:G06N002000000, G06F0016248000, G06N0003040000, G06Q0050100000, G06N0003080000	(71) Name of Applicant : 1)AMARPAL SINGH BASRA Address of Applicant :Flat 701, Tower 9, Star Court, Jaypee Greens, Near Pari Chowk, Greater Noida, 201310, Uttar Pradesh, India Uttar Pradesh ----- 2)Yuvraj Singh Sekhon 3)Dhruv Gupta Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)AMARPAL SINGH BASRA Address of Applicant :Flat 701, Tower 9, Star Court, Jaypee Greens, Near Pari Chowk, Greater Noida, 201310, Uttar Pradesh, India Greater Noida -----
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(62) Divisional to Application Number	:NA	3)DHARUV GUPTA Address of Applicant :A-17, Swarn Jayanti Rail Nagar, Sector-50, Noida, 201301, Uttar Pradesh, India Noida -----
Filing Date	:NA	

(57) Abstract :

The present invention provides a Smart mirror, which is a physical device installed in the Hair Salon as a replacement to a traditional mirror, which will use Machine Learning Algorithms to process multimedia in real time, such that users can try, experiment, and choose the desired look. The aforesaid algorithms provide much more realistic results as compared to any other technology currently used for smart mirrors. The smart mirror consists of a screen with a one-way mirror (001), a CPU, and a Camera (005) to capture the Users Facial Features. The multimedia captured by the user is then processed using Machine Learning and Artificial Intelligence and displayed to the user in the Smart mirror itself.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2023

(21) Application No.202311026775 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MODIFIED FIXTURE FOR CRYOGENIC COOLING DURING WELDING

(51) International classification	:A61B 170000, A61B 172200, B23Q 111000, F25B 091400, F25D 190000	(71) Name of Applicant : 1)DAS . DR. DEBASISH Address of Applicant :606, PEC CAMPUS SECTOR 12, CHANDIGARH-160012, INDIA ----- 2)MANNA DR. ALAKESH Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)DAS. DR. DEBASISH Address of Applicant :MECHANICAL ENGINEERING DEPARTMENT,PUNJAB ENGINEERING COLLEGE(DEEMED TO BE UNIVERSITY) SECTOR 12, CHANDIGARH-160012 ----- 2)HUGAR ROHAN G Address of Applicant :MECHANICAL ENGINEERING DEPARTMENT, PUNJAB ENGINEERING COLLEGE (Deemed to be University), SECTOR-12, CHANDIGARH-160012, INDAI -----
Filing Date	:NA	
(87) International Publication No	: NA	
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The present innovation fixture (I 00) for enhanced cooling through significant increasing of heat dissipation from the weld zones to facilitate faster solidification and modify the interdendritic spacing, grain size, orientation and grain boundary character distribution, microstructural attributes in the weld area. The innovation fixture (1 00) increases the microhardness, tensile properties and minimizes the defects, residual stress, micro-porosity, crack formation during welding. The fixture (100) comprising bottom hollow copper slabs (IOIA,IOIB), top hollow copper slabs (102A,I028), bottom connectors (103A- 1030), top connectors (104A- I 040), slack metal pipes (IOSA-1 OS H), Y-connectors (I 06A, 1068), angle bnicket (I 07), metallic ducts (108A, I 088), pouring basin (I 09), U-channel support (II 0), workpiece (111A,I118), mechanism (112), reservoir (113), angle pipe connectors (114Ai 140), metal pipe connectors (115A, 1158), weld zone (116). Fixture (100) offers to hold workpieces, analyse the variation of heat dissipation for different cooling rates, enhance the life and reliability of weld structures in cold weather.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202211030287 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR IMAGE COLORIZATION OF FACE IMAGES REPRESENTED USING A SINGLE CHANNEL

(51) International classification :G06K000900000, G06T001100000,
H01L005150000, G06N0003040000,
G01N0021359000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR IMAGE COLORIZATION OF FACE IMAGES REPRESENTED USING A SINGLE CHANNEL Embodiments of the present disclosure relates to image processing systems and more particularly relates to a system and a method for image colorization of face images represented using a single channel in a computing environment, using a self-supervised triplet and feature map-based 3D face reconstruction techniques. The system (102) retrieves face images represented using a single channel from a database, generates multiple variants of face images, and determines a set of loss signal parameters for each variant. Using a 3D face reconstruction technique, the system (102) estimates colour 3D face coefficients, generates colour 3D faces and 2D counterparts, and outputs the colour 3D faces and 2D counterparts on a user interface of a user device. [FIG. 3 is a reference figure]

No. of Pages : 47 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/03/2023

(21) Application No.202311014786 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A MACHINE LEARNING-BASED HEALTHCARE MONITORING SYSTEM WITH 6G TECHNOLOGY

(51) International classification	:A61B 5/00, A61B 5/01, A61B 5/02, A61B 5/11, A61B 5/1455, A61B 5/28, A61B 5/318, A61B 5/346	(71) Name of Applicant : 1)Dr. Poongodi Manoharan Address of Applicant :Research Scientist, College of Science and Engineering, Hamad Bin Khalifa University, Doha- 500001, Qatar ----- 2)Dr. Piyush Kumar Shukla 3)Dr. Abhay Shukla 4)Anjaneya Krishna Turai 5)Prashant Kumar Shukla 6)Dr.Bharathi Gururaj 7)Aadesh Ajit Shinde Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Poongodi Manoharan Address of Applicant :Research Scientist, College of Science and Engineering, Hamad Bin Khalifa University, Doha- 500001, Qatar ----- 2)Dr. Piyush Kumar Shukla Address of Applicant :Associate Professor, Computer Science & Engineering Department, University Institute of Technology, Rajiv Gandhi Proudyogiki Vishwavidyalaya (Technological University of Madhya Pradesh), Bhopal, Madhya Pradesh- 462033 India Bhopal ----- 3)Dr. Abhay Shukla Address of Applicant :Professor, Department of Computer Science and Engineering, Axis Institute of Technology and Management, Kanpur – 208001, Uttar Pradesh, India Kanpur ----- 4)Anjaneya Krishna Turai Address of Applicant :Department Of Data Science, Symbiosis Skills and Professional University, Pune – 412101, Maharashtra, India Pune ----- -- 5)Prashant Kumar Shukla Address of Applicant :Associate Professor (Research), Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Guntur - 522302, Andhra Pradesh, India Guntur ----- 6)Dr.Bharathi Gururaj Address of Applicant :Associate Professor, Dept. of Electronic s and Communication Engineering, ACS COLLEGE OF ENGINEERING, Bangalore – 560 074, Karnataka, India Bangalore ----- 7)Aadesh Ajit Shinde Address of Applicant :Department Of CSIT, Symbiosis Skills and Professional University, Pune – 412101, Maharashtra, India Pune -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The system comprises a 6G-enabled wearable device(102) for measuring heart rate, blood pressure, body temperature, and oxygen saturation; a pre-processor(112) for removing noise and extracting a set of features; a training processor(114) for training a plurality of classifiers(122) using a pre-stored heath data device and the set of features; a central processor(116) for generating a heath report of a user, detecting diseases and generating a customized prescription upon comparing the real time user heath parameters with the pre-stored heath data, wherein the health report includes a heath rating from 1-10 and diseases detected upon comparing the real time user heath parameters with the pre-stored heath data; a 6G communication device(118) for transmitting heath report and detected diseases data to a cloud server; and a display device(120) for displaying the heath report and detected diseases data and presenting one or more clinical conditions for which the patient is at risk.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/04/2023

(21) Application No.202311025633 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PRODUCTION,OPTIMIZATION AND ENRICHMENT OF METAL NANOPARTICLES AS NANO-FERTILIZERS THROUGH MICROBIAL

(51) International classification	:B01J 350000, B09C 011000, E21B 431200, E21B 431400, G06Q 100400	(71)Name of Applicant : 1)DR. VANDANA NUNIA Address of Applicant :VANDANA NUNIA, B-134, FLAT NO 201, PEARL PLEASURE, RAJENDRA MARG, BAPU NAGAR, JAIPUR, RAJASTHAN,-302015 ----- 2)DR. RAKESH SHARMA 3)MS. SHAGUN SHARMA 4)DR. IRSHAD MOHAMMAD 5)MR. GULSHAN KUMAR SHARMA Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)DR. VANDANA NUNIA Address of Applicant :VANDANA NUNIA, B-134, FLAT NO 201, PEARL PLEASURE, RAJENDRA MARG, BAPU NAGAR, JAIPUR, RAJASTHAN,-302015 ----- 2)DR. RAKESH SHARMA Address of Applicant :WARD-2, NIRANKARI BHAWAN KE PAAS, SURATGARH, SRIGANGANAGAR, RAJASTHAN-335805 -----
(61) Patent of Addition to Application Number	:NA	3)MS. SHAGUN SHARMA Address of Applicant :HOUSE NO. 1363, SECTOR 4 REWARI, HARYANA-123401 ----- 4)DR. IRSHAD MOHAMMAD Address of Applicant :VILLAGE TAYRA, POST UDAKA TEHSIL KAMAN DISTRICT BHARATPUR, RAJASTHAN-321022 -----
(62) Divisional to Application Number	:NA	5)MR. GULSHAN KUMAR SHARMA Address of Applicant :PLOT NO-40, BALAJI VIHAR GOVINDPURA, LUNIAWAS, JAIPUR, RAJASTHAN-303012 -----
Filing Date	:NA	
(87) International Publication No	: NA	
Filing Date	:NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Production, optimization and enrichment of metal nanoparticles as nanofertilizers through microbial metabolites of cow dung-mediated reduction of ore oxides In the present invention we claimed a method for biosynthesis of nano-particles using micro-organisms while preparing an aqueous culture media from microflora of cow dung and jaggery as a source of substrate. The produced culture media contains 250 mL of water, concentration of cow dung ranging between 5gm- 1 Ogm in addition with 25gm- 50 gm jaggery at room temperature. After a period of 72 hrs, the synthesis of nano-particles was carried out by adding chalcopyrite traction nspect ratio between 0. 1 OOgm- 0.500 gm to the culture media placed on a stirrer cum heating plate. Allowing the nano-particles solution to stand on vigorous stirring and heating for Oh to 72 hrs until the DLS wavelength ranges between 100 nm to 500 nm. To further characterize FTIR, GCMS and SEM data were procured using standard protocols. Conjugated nano-particles were obtained ranging between 100nm to 200nm in diameter. Furthermore, efficacy of the synthesized nanoparricles were determined using a plant pot experiment as nano-fertilizers. Greatly enhanced morphological and physiological characteristics accounted for the extensive utilization of nanoparticles in an eco-friendly way. Thus, this research work will further provide new avenues for the synthesis and utility of nano-particles in the field of agriculture such as nanofertilizers as well as medicinal, energy and biosensor derived from other by-products of metal manufacturing units in the country.

No. of Pages : 36 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/08/2022

(21) Application No.202211049344 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FERMENTED MULTI-MILLET FRUIT-BASEDVEGANPROBIOTIC COMPOSITION AND METHOD OF PREPARING THE SAME

(51) International classification :A23L001900000, A23C0011100000, B01F0013100000, A23L0033105000, A23L0029000000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a fermented multi-millet fruit-based vegan probioticcomposition to improve gut health. The fermented multi-millet fruit-basedvegan probioticcomposition includes a millet flour mixture including one or more millet flours; a probiotic component; and an enzyme component. The millet flour mixture is treated with the enzyme component and fermented by the probiotic component to produce the fermented multi-millet fruit-basedvegan probiotic composition. The fermented multi-millet fruit-basedvegan probioticcomposition further includes a pre-biotic component, a pasteurized fruit component, a flavor component, and a stabilizer. The fermented multi-millet fruit-basedvegan probioticcomposition of the present disclosure has an optimum nutritional profile, a good sensory profile, and an improved shelf-life. The fermented multi-millet fruit-basedvegan probioticcomposition of the present disclosure is produced into a ready-to-drink beverage and provides gut health to end users. FIG. 1

No. of Pages : 43 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/11/2022

(21) Application No.202211063851 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR RENDERING AND VISUALIZATION OF 2D & 3D GEOSPATIAL DATA

(51) International classification :G06F0016290000, G06F0016230000,
G06N0005040000, G06F0016957000,
G06T0011200000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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2)Nandan Pattanayak

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(57) Abstract :

SYSTEM AND METHOD FOR RENDERING AND VISUALIZATION OF 2D & 3D GEOSPATIAL DATA ABSTRACT

Disclosed is system and method for rendering and visualization of geospatial data. The system comprises a database arrangement coupled with a processing arrangement. The database arrangement is configured to receive an input data from a source. The processing arrangement, comprising a processor is configured to: scale the input data; convert the scaled input data into a dataset; encode the dataset to create a tile of the plurality of data points of the dataset; and decode and render the created tile in form of a mesh, wherein the decoded tile is rendered in the form of the mesh on a user device. Advantageously, the system provides faster rendering of the huge size input data and its enhanced visualization on the browser, in real time, so as to equip the user for performing advanced analysis on the top of mesh. FIG. 4

No. of Pages : 31 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/03/2023

(21) Application No.202311018614 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MICRO-RNA (MIR122) BASED MOLECULAR DIAGNOSTIC KIT FOR EARLY DIAGNOSIS OF HEPATOCELLULAR CARCINOMA (HCC)

(51) International classification	:A61K 317130, A61P 350200, B01L 070000, C07K 161800, C12Q 016886	(71) Name of Applicant : 1) UTTARANCHAL UNIVERSITY Address of Applicant :ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA Dehradun -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1) NISHANT KUMAR Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA Dehradun ----
(61) Patent of Addition to Application Number	:NA	2) DR. NISHESH SHARMA Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA Dehradun ----
Filing Date	:NA	3) PROF. AJAY SINGH Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA Dehradun ----
(62) Divisional to Application Number	:NA	4) DR. ALOK TRIPATHI Address of Applicant :UTTARANCHAL UNIVERSITY, ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA Dehradun ----
Filing Date	:NA	

(57) Abstract :

The miR-122 is a good category biomarker because this is specific injuries to hepatocytes has direct involvement in the expression of this micro-RNA in Liver cancer (Haider et al., 2014). Approx 66,000 copies of miR-122 per hepatic cell are found in the liver, and generally this micro-RNA is highly expressed in any liver tissue (Jopling, 2012). The miR-122 is most important micro RNA specifically found in liver makes it major potential candidate for clinical significance and its expression status can be used to differentiate between healthy persons & liver cancer patients.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2023

(21) Application No.202311028663 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WIRELESS NETWORK DEVICE FOR WIRELESS COMMUNICATION WITH USER DEVICES IN A WIRELESS COMMUNICATION NETWORK

(51) International classification	:H04L 45/122, H04W 40/10, H04W 40/12	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR - ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)SUBHAS CHANDRA MISRA Address of Applicant :DEPARTMENT OF IME, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR ----- 2)DEBANJAN DAS Address of Applicant :DEPARTMENT OF ECE, IIIT NAYA RAIPUR, SECTOR-24, RAIPUR, CHATTISGARH- 493661, INDIA RAIPUR ----- 3)SUDIP MISRA Address of Applicant :DEPARTMENT OF CSE, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR, KHARAGPUR WEST BENGAL, - 721302, INDIA KHARAGPUR ----- 4)VENKANNA UDUTALAPALLY Address of Applicant :DEPARTMENT OF CSE, IIIT NAYA RAIPUR, SECTOR-24, RAIPUR, CHATTISGARH- 493661, INDIA RAIPUR ----- 5)ATONU GHOSH Address of Applicant :DEPARTMENT OF CSE, INDIAN INSTITUTE OF TECHNOLOGY, KHARAGPUR, KHARAGPUR WEST BENGAL, - 721302, INDIA KHARAGPUR ----- 6)TANUSHREE PAN Address of Applicant :DEPARTMENT OF IME, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WIRELESS NETWORK DEVICE FOR WIRELESS COMMUNICATION WITH USER DEVICES IN A WIRELESS COMMUNICATION NETWORK ABSTRACT A wireless network device (102) for wireless communication with one or more user devices (304) in a wireless communication network (100) is disclosed. The wireless network device (102) includes a WiFi transceiver (104) configured to wirelessly connect to user devices (304) for communicating with the user devices (304). The wireless network device (102) further includes a microcontroller (106) configured to: (a) receive messages from the user devices (304) through the WiFi transceiver (104), (b) generate a routing table based on a neighbor discovery model, and (c) connect the WiFi transceiver (104) to a source LoRa transceiver (108) to transmit the messages to the source LoRa transceiver (108). The source LoRa transceiver (108) is configured to: (a) receive the messages from the microcontroller (106) and (b) transmit the messages to a destination LoRa transceiver of a destination wireless network device through a plurality of wireless network devices. FIG. 2

No. of Pages : 39 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/02/2023

(21) Application No.202311007173 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SUPERHYDROPHOBIC MEMBRANE AND METHOD FOR FABRICATION OF A BIODEGRADABLE NANOCOMPOSITE SUPERHYDROPHOBIC MEMBRANE

(51) International classification	:C02F0001440000, C02F0009000000, B01D0067000000, C02F0001040000, B01D0061020000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY ROORKEE Address of Applicant :ROORKEE Roorkee ----- -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
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Filing Date	:NA	2)MR. GAURAV VAGHELA Address of Applicant :Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee- 247667 Roorkee ----- -----
(62) Divisional to Application Number	:NA	3)MR. MOHD SAHIL Address of Applicant :Department of Hydrology, Indian Institute of Technology Roorkee, Roorkee- 247667 Roorkee ----- -----
Filing Date	:NA	-----

(57) Abstract :

ABSTRACT A SUPERHYDROPHOBIC MEMBRANE AND METHOD FOR FABRICATION OF A BIODEGRADABLE NANOCOMPOSITE SUPERHYDROPHOBIC MEMBRANE The present invention provides a superhydrophobic membrane and method for preparing a superhydrophobic membrane using electrospraying of polydimethylsiloxane PDMS, silica fumed on an electrospun biodegradable polylactic acid (PLA) base membrane for desalination by membrane distillation technology. The superhydrophobic property is achieved by electrospraying PDMS. This membrane is suitable for use in desalination technologies such as reverse osmosis, enabling nearly zero liquid discharge from brine waste and promoting resource recovery. The membrane can also be used in water treatment, industrial wastewater management, and dehumidification. Figures 1 & 2

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2023

(21) Application No.202311011710 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TERNARY HERBICIDAL COMPOSITION

(51) International classification :A01N 43/40, A01N 43/80, A01N 43/90, A01N 47/36, A01P 13/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :
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Address of Applicant :A-88 Ashok Vihar Phase-I, Delhi - 110052 Delhi -----

(57) Abstract :

TERNARY HERBICIDAL COMPOSITION The present invention relates to a novel composition of herbicides. In particular, the present invention relates to a broad spectrum, synergistic herbicidal composition comprising a) a herbicidally effective amount of Clodinafop propargyl b) a herbicidally effective amount of Metsulfuron methyl and c) a herbicidally effective amount of Carfentrazone ethyl and at least one agriculturally acceptable excipient, wherein said composition is effective in controlling broad leaved and narrow leaved weeds in various agricultural crops, particularly Wheat. The invention further relates to formulations comprising said composition, wherein preferably, the formulation is a dry flowable (DF).

No. of Pages : 26 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/04/2023

(21) Application No.202311027861 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HYDRO-SUCTION&NBSP;PUMP AND HYDRO-POWER GENERATOR BASED ON GRAVITATIONAL FORCE,HYDRAULIC UNBALANCE,PISTON

(51) International classification	:B62D 050650, C02F 012800, C02F 013200, F03B 130000, H02K 071800	(71) Name of Applicant : 1)ABHIJIT YADAV Address of Applicant :19 B, KLG FARM, ANANGPUR,FARIDABAD HARYANA INDIA-121003 ----- -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)ABHIJIT YADAV Address of Applicant :19 B, KLG FARM, ANANGPUR,FARIDABAD HARYANA INDIA-121003 ----- -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A Hydro-suction Pump and hydro-power generator based on Gravitational force, hydraulic unbalance, piston, vacuum effect. The device includes lower tank or source of -water(I), upper tank(9), Suction pipe(6), N.O.Valve I &2(4, 12), Priming unit(3), N.C.Valvel&2 .. (5,7), U-band(11), Inner deep well(2), Internal empty space(8), Discharge pipe (10), hydraulic . ' i turbine(13), Electrical Generator(14),Water level indicator(IS) and Discharge mouth(16). All __; . part of the Device attached to each other as-per design of Device layout. For start of this device first close N.O.Valve1&2(4,12) and open N.C.Valvel&2(5,7), then start primin: When . water discharging start from N.C.Valve2(7) then stop priming and close N.C.Valvel2(5,7) and open N.O.Valvel&2(4,12). Due to unbalance volume and weight of suction side and discharge side a resultant gravitational force applied on discharge side. Due to unbalance Gravitational force a piston, vacuum effect generated in empty space(8) in upper tank.(9), so that water flow start from suction pipe(6) to discharge unit. Discharge mouth connect to lower •; tank or source of water(I) so it make a complete two point broken hydraulic loop and tworking -- --- I start as a Hydro-suction Pump and hydro-power generator. The device work as a Perpetual . Motion Device.

No. of Pages : 20 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2022

(21) Application No.202211021741 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BENZOHYDRAZIDE PYRAZOLE DERIVATIVES: SYNTHESIS, CHARACTERISTICS AND ANTIMICROBIAL ACTIVITY

(51) International classification	:A01N004360000, A01N0043560000, A01N0043540000, C07D0401140000, C07D0401120000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
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(61) Patent of Addition to Application Number	:NA	3)ANIL VERMA Address of Applicant :DEPARTMENT OF CHEMISTRY, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ---
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

BENZOHYDRAZIDE PYRAZOLE DERIVATIVES: SYNTHESIS, CHARACTERISTICS AND ANTIMICROBIAL ACTIVITY
This invention discloses a series of 1-Phenyl-3-substituted phenyl (aryl)-1H-pyrazole-4-yl-methylene benzohydrazide derivatives 6a–6k have been synthesized by condensation of benzohydrazide with different substituted formyl pyrazole derivatives under reflux conditions as mentioned in scheme 1 and 2. The synthesized compounds have been characterized by IR, NMR (1H & 13C) and mass spectra and synthesized compounds were tested for their in vitro antibacterial and antifungal activities against four bacterial and two fungal strains (Fig. 1& 2). Antimicrobial studies revealed that compounds viz.; 6b, 6c and 6d showed significant antibacterial and antifungal activities against the tested microorganisms.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/09/2022

(21) Application No.202211055899 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "A JAMMED COVER SCREW RETRIEVER"

(51) International classification :A61C000800000, F21V0017120000,
A61B0017221000, A61F0002280000,
B65G0069040000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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UTTAR PRADESH-201009, INDIA -----

(57) Abstract :

ABSTRACT A JAMMED COVER SCREW RETRIEVER The present invention relates to a jammed cover screw retriever which is a universal tool and not technique sensitive. a driver tool, 5 that can easily be adapted to any implant torque ratchet. The driver comprises three parts: head, shank and working end. The working end is horizontal plank shaped in cross-section with a bleb in the center to better engage the slot in the screw head.

No. of Pages : 18 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/03/2023

(21) Application No.202311024616 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AI BASED ROBOT FOR RECEPTIONS

		<p>(71)Name of Applicant : 1)UTTARANCHAL UNIVERSITY Address of Applicant :ARCADIA GRANT, P.O. CHANDANWARI, PREMNAGAR, DEHRADUN - 248007, UTTARAKHAND, INDIA PREM NAGAR ----- Name of Applicant : NA Address of Applicant : NA</p>
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(51) International classification	:B25J 091600, F24F 101000, H04W 521400, H04W 523200, H04W 525400	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT AI BASED ROBOT FOR RECEPTIONS The robot can improve the efficiency of the admission process by automating tasks such as data processing and analysis, document verification, and communication with applicants. This can save time and effort for admission staff and provide a more positive experience for applicants. Additionally, the robot can help eliminate bias and ensure a consistent and fair evaluation of applicants based on predefined criteria. Overall, using a robot in the admission process can help educational institutions streamline and optimize the process, making it more effective for staff and applicants.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2023

(21) Application No.202311029840 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A NOVEL MOVABLE BASKETBALLDEVICE AND SYSTEM THEREOF

(51) International classification	:B29C 641290, C02F 090000, F02N 110400, G01G 110000, G03B 212000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---

(57) Abstract :

A movable basketball system that includeshoops (101), backboards (102),arms (103), transmission drive (104), a pole (105), a drive system (106), and wheels (107). The system is designed to be easily transportable and adjustable, allowing for use in a variety of environments. The arms provide additional support and stability to the system, while the drive system enables smooth adjustments to the height of the hoops. The component box houses all necessary hardware and components, ensuring easy assembly and disassembly. With its versatile design and ease of use, this movable basketball system is ideal for use in a variety of settings, from schools and parks to community centers and recreational facilities.A movable basketballis also popular in gyms and other indoor facilities where space is limited, as they can be easily stored when not in use. The versatile design and ease of use of this movable basketball system make it an ideal choice for a wide range of settings.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2022

(21) Application No.202211018630 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SENSOR BASED DISINFECTANT DEVICE FOR USE ON OUTER SURFACES OF SMALLER OBJECTS

(51) International classification	:A61L0002180000, A61L0002240000, A61L0002260000, F04D0013080000, B67D0001080000	(71) Name of Applicant : 1)MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY) Address of Applicant :MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA, AMBALA, HARYANA 133207 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DR VANDANA ESHT Address of Applicant :ASSOCIATE PROFESSOR, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
(87) International Publication No	: NA	2)RITIKESH PATTANAIK Address of Applicant :EX. ASSISTANT PROFESSOR, MAHARISHI MARKANDESHWAR (DEEMED TO BE UNIVERSITY), MULLANA-AMBALA, 133207, HARYANA, INDIA -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SENSOR BASED DISINFECTANT DEVICE FOR USE ON OUTER SURFACES OF SMALLER OBJECTS The Sensor based Disinfectant Device is characterized by a sanitization kit powered by rechargeable batteries containing an ultrasonic distance sensor which indicates to run a submersible pump in order to sprinkle sanitizer on the adjusted surface for three seconds once the sensor detects a direct contact on surface. It allows automatic and immediate disinfectant of a surface to be ready for next use.

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2022

(21) Application No.202211075796 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A BIO-PLASTIC COMPOSITION AND A METHOD OF ITS PREPARATION THEREOF

(51) International classification	:A61K0036886000, A61K0008979400, A01N0065420000, A01N0065000000, A61K0036000000	(71)Name of Applicant : 1)Dr. Manisha Sharma Address of Applicant :A-1, 122 Safdarjung Enclave, New Delhi ----- ----- 2)Nishu Pandey 3)Ashna Amrit Kaur Kalsi 4)Yatharth Sabharwal 5)Achintya Wadhwa 6)Prisha Ashok 7)Sairaah Bhardwaj Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. Manisha Sharma Address of Applicant :A-1, 122 Safdarjung Enclave, New Delhi ----- -----
Filing Date	:NA	2)Nishu Pandey Address of Applicant :A 704, Chintels Paradiso, Sector 109, Dwarka Expressway, Gurgaon, Haryana-122017 ----- 3)Ashna Amrit Kaur Kalsi Address of Applicant :WZ-153A, First Floor, Shiv Nagar, Janakpuri-B1, New Delhi-110058 -----
(87) International Publication No	:NA	4)Yatharth Sabharwal Address of Applicant :BB-33B Near Choti Sabzi Mandi, Janak Puri, New Delhi-110058, India ----- 5)Achintya Wadhwa Address of Applicant :183-A, Vedanta Society, Plot No. 6, Sector-23, Dwarka, New Delhi, India ----- 6)Prisha Ashok Address of Applicant :Flat No. 353, Princess Park Apartments, Plot No. 33, Sector-6, Dwarka, New Delhi, India ----- 7)Sairaah Bhardwaj Address of Applicant :274 Maharaja Apartment, Plot 25, Sector 12, Dwarka, New Delhi, India -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an environment-friendly plastic composition using natural components, and a method of its preparation. An environment friendly composition comprising of water, aloe vera extract, gelatin, starch, acetic acid and food colour, which makes it more user friendly, and as a good alternative to conventional plastic bags and containers. The said composition can replicate the properties of plastic such as flexibility, mouldability, malleability, tensile strength and has a long lifespan. The said composition is simple to manufacture, economical and does not cause any harm to human life or environment while using and after discarding.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/04/2023

(21) Application No.202311030415 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR LOAD TRANSPORTATION

(51) International classification	:B60V 030200, G06Q 100800, G06Q 300600, H01M 080432, H01M 081200	(71) Name of Applicant : 1)Ashwini Anand Address of Applicant :AVA TECHNOLOGY PTY LTD, ULTIMO NSW, 2007, Australia ----- -----
(86) International Application No	:NA	2)Varun Kumar Singh
Filing Date	:NA	3)Apurva Kumari
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)Varun Kumar Singh Address of Applicant :FlyingAva Tech Pvt Ltd, 3A/172, Azad Nagar, Kanpur, Uttar Pradesh, 208002, India Kanpur ----- -----
Filing Date	:NA	2)Ashwini Anand Address of Applicant :AVA TECHNOLOGY PTY LTD, ULTIMO NSW, 2007, Australia ----- -----
(62) Divisional to Application Number	:NA	3)Apurva Kumari Address of Applicant :Associate Professor, ECE Department, BVRIT, Narsapur, Medak, Telangana, 502313, India Narsapur ----- -----
Filing Date	:NA	4)Kamal Poddar Address of Applicant :Professor, Aerospace Engineering, IIT Kanpur, Uttar Pradesh, 208016, India Kanpur ----- -----

(57) Abstract :

Disclosed is a system (100) including a plurality of drones (102) coupled to an elevator station. The plurality of drones (102) capture one or more images of a top platform of an elevator station (104), determine a status of a vacancy on the top platform by processing the one or more images, land on a charging dock (306) of the elevator station (104), acquire an object from the top platform, receive information of a destination from the elevator station (104), and determine an aviation trajectory from the elevator station (104) to the destination. The elevator station (104) senses a placement of the one or more drones on the charging dock (306), lift the object from an inventory of the elevator station (104) towards the top platform of the elevator station (104), and opens one or more gates on the top platform, when the object is lifted to a pre-defined position.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202311030590 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A HUMAN INSULIN DERIVATIVE FOR REAL-TIME MONITORING OF INSULIN QUALITY AND PROCESS FOR SYNTHESIZING THEREOF

(51) International classification	:A61K 382800, A61P 030000, A61P 031000, C07K 146200, G05B 170200	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)SANDEEP VERMA Address of Applicant :DEPARTMENT OF CHEMISTRY, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- 2)SHANTANU SEN Address of Applicant :DEPARTMENT OF CHEMISTRY, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- 3)RAFAT ALI Address of Applicant :DEPARTMENT OF CHEMISTRY, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- 4)HARMINDER SINGH Address of Applicant :DEPARTMENT OF CHEMISTRY, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A HUMAN INSULIN DERIVATIVE FOR REAL-TIME MONITORING OF INSULIN QUALITY AND PROCESS FOR SYNTHESIZING THEREOF ABSTRACT The human insulin derivative is provided. The human insulin derivative includes 3-(2-Benzothiazolyl)-tyrosine conjugated human insulin (BT-HI). The BT-HI provides visual self-reporting of insulin quality through the naked eye in the presence of a simple UV torch and play a useful role in determining insulin dosage reliability for diabetic patients. The BT-HI promises higher sensitivity in detecting insulin quality visibly, going much beyond the capabilities of currently available amyloid detecting probes or techniques. The invention offers real-time monitoring of insulin quality by on-site testing of insulin dosage quality under UV light. The BT-HI has added photophysical property as compared to native insulin. The present invention also provides the process for synthesizing the human insulin derivative. The process avoids the requirement of any of the time-consuming, low-yielding, multistep conjugation steps, thus making it extremely cost effective. FIG. 1

No. of Pages : 32 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/12/2022

(21) Application No.202211070182 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REAL ESTATE VALUATION DEVICE

(51) International classification	:G06Q0050160000, G06Q0020320000, G05D0001020000, H04N0021810000, H04N0005225000	(71) Name of Applicant : 1)GNA University Address of Applicant :Sri Hargobindgarh, Phagwara-Hoshiarpur Road, Phagwara, Punjab 144401, India. Phagwara ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a real estate valuation device, comprising a cuboidal body 1 installed with multiple omnidirectional wheels 2 for maneuvering body 1 over a ground surface, a touch interactive display panel 3 fabricated on body 1 that is accessed by user for inputting details regarding type, area, floor of property, a QR (Quick Response) scanner installed within a user's computing unit for allowing user to scan a code displayed on panel 3 for paying evaluated amount, an artificial intelligence based image capturing module 4 installed on body 1 for capturing and evaluating an estimate cost of property, a telescopically operated rod 5 attached with an electric tester 6 installed on body 1 for checking electric connections present within property, and a non-contact moisture sensor attached on body 1 for detecting any leakage present over walls of property.

No. of Pages : 18 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/03/2023

(21) Application No.202311021328 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPACT BASE STATION ANTENNA BASED ON IMAGE THEORY FOR UWB/5G RTLS
EMBRACED SMART PARKING FOR DRIVERLESS CARS

(51) International classification	:B60W 300600, H01Q 012400, H01Q 013800, H01Q 015000, H04W 840400	(71) Name of Applicant : 1)University of Engineering & Management (UEM) Address of Applicant :Gurukul, Sikar Road Near Udaipuria Mod, Jaipur, Rajasthan 303807 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. Prashant Ranjan Address of Applicant :University of Engineering & Management (UEM), Gurukul, Sikar Road Near Udaipuria Mod, Jaipur, Rajasthan 303807 -----
(87) International Publication No	: NA	2)Souhita Biswas Address of Applicant :University of Engineering & Management (UEM), Gurukul, Sikar Road Near Udaipuria Mod, Jaipur, Rajasthan 303807 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention related to thecompact base station antenna based on image theory for UWB/5G RTLS embraced smart parking for driverless cars.In this proposed invention the base station antenna design is mounted on preinstalled street light poles and the UWB sensor antennas will be either installed on autonomous car's rooftop or front windscreen. The sensor antenna will receive at least two base stations signals to determine its location and empty location on parking lot. And the antenna has enhanced directivity, so it provides high precision regarding position and localization for UWB or 5G based RTLS systems.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/05/2023

(21) Application No.202311030950 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTI-SUBSTITUTED CALCIUM PHOSPHATE FOR BIOMEDICAL APPLICATIONS AND THE METHOD OF SYNTHESIS THEREOF

(51) International classification	:A61L 271200, A61L 274600, A61L 275600, B82Y 050000, C01B 253200	(71)Name of Applicant : 1)PANJAB UNIVERSITY Address of Applicant :Panjab University, Sector-14, Chandigarh, 160014, India Chandigarh ----- 2)PUNJAB ENGINEERING COLLEGE Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)KAPOOR DR. SEEMA Address of Applicant :Professor, Dr. S. S. Bhatnagar University Institute of Chemical Engineering & Technology, Panjab University, Sector-14, Chandigarh, 160014, India. Permanent Address – # 436, Sector- 35/A, Chandigarh -160022, India Chandigarh -----
(87) International Publication No	: NA	2)BATRA DR. UMA Address of Applicant :Professor & Head Department of Materials & Metallurgical Engineering, Punjab Engineering College (Deemed to be University), Sector-12, Chandigarh, 160012, India. Permanent Address: #550, Sector25, Panchkula- 134112, Haryana, India Chandigarh -----
(61) Patent of Addition to Application Number	:NA	3)JINDAL HEENA Address of Applicant :PG Student Dr. S.S Bhatnagar University of Chemical Engineering and Technology, Panjab University, Sector-14, Chandigarh 160014, India Permanent Address: #83, Captain Karam Singh Nagar, 16 Acre, Barnala Chandigarh -----
Filing Date	:NA	4)GOEL CHAHAT Address of Applicant :PG Student Dr. S.S Bhatnagar University of Chemical Engineering and Technology, Panjab University, Sector-14, Chandigarh 160014, India Permanent Address: #42 Sector-15, Panchkula Chandigarh -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT MULTI-SUBSTITUTED CALCIUM PHOSPHATE FOR BIOMEDICAL APPLICATIONS AND THE METHOD OF SYNTHESIS THEREOF A multi-substituted calcium phosphate synthesized with simultaneous incorporation of Sodium (Na), Magnesium (Mg), Strontium (Sr), Zinc (Zn), Manganese (Mn), Copper (Cu) and Carbonate (CO₃²⁻) having (Ca+Na+Mg+Sr+Zn+Mn+Cu)/(P+CO₃²⁻) molar ratio ranging between 1.5 and 1.67 is disclosed. The synthesis process involves mixing cationic and anionic precursors solutions at pH 10±0.1 and stirring continuously at 450-500 rpm, after mixing, stirring at 450-500 rpm for 3-5 hours, ageing for 24 hours at 35±2°C, top layer removal, washing resultant solid phase with deionized lukewarm water, centrifugation at 4000 rpm for 60 minutes, drying and grinding to form powder and calcination at 800oC and 1000oC for 1 hour at heating rate 10°C/min. The as-synthesized calcium phosphate is in biphasic form comprising 66.7% HA and 33.3% β-TCP and transforms to multiphasic form upon calcination comprising 53.3% HA, 33.1% β-TCP and 13.6% α-TCP for MCaP8 and 53.8% HA, 37.5% β-TCP and 8.7% α-TCP for MCaP10

No. of Pages : 32 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/05/2023

(21) Application No.202311030951 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR DIGITAL IMAGE EVIDENCE ENCRYPTION FOR SECURE AND TEMPER PROOF DIGITAL FORENSICS IN IOT

(51) International classification	:G06F 215700, H04L 090600, H04L 093000, H04L 093200, H04N 212347	(71) Name of Applicant : 1)DEEPTI RANI Address of Applicant :Research Scholar, Department of Computer Science and Applications, Maharshi Dayanand University, Rohtak-124001, Haryana, INDIA Rohtak ----- ---
(86) International Application No	:NA	2)PROF. (DR.) NASIB SINGH GILL
Filing Date	:NA	3)DR. PREETI GULIA
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)DEEPTI RANI Address of Applicant :Research Scholar, Department of Computer Science and Applications, Maharshi Dayanand University, Rohtak-124001, Haryana, INDIA Rohtak ----- ---
(62) Divisional to Application Number	:NA	2)PROF. (DR.) NASIB SINGH GILL Address of Applicant :Head of Department, Department of Computer Science &Applications, Maharshi Dayanand University, Rohtak-124001, Haryana, INDIA Rohtak ----- ---
Filing Date	:NA	3)DR. PREETI GULIA Address of Applicant :Associate Professor, Department of Computer Science & Applications, Maharshi Dayanand University, Rohtak-124001, Haryana, INDIA Rohtak ----- ---

(57) Abstract :

ABSTRACT METHOD FOR DIGITAL IMAGE EVIDENCE ENCRYPTION FOR SECURE AND TEMPER PROOF DIGITAL FORENSICS IN IoT Present invention discloses a fast fourier transformation and chaotic mapping based method and system for digital evidence encryption in digital forensics. In present invention, the data/image is encrypted in four phases including value calculation after data acquisition, data/image transformation using fast fourier transformation technique, data/image encryption comprising steps of image pre-processing, secret key generation using 4D lorenz hyperchaotic mapping and image confusion and diffusion using 2D arnold's cat mapping and henon's mapping respectively to obtain encrypted image and finally the image is preserved at such platforms, which are not vulnerable to cyber-attacks. Further, NPCR values for lena and pepper images was 99.6928 and 99.8990 respectively and UACI values for lena and pepper images was 33.58 and 33.95, which indicates the efficiency of method disclosed in present invention.

No. of Pages : 37 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/04/2023

(21) Application No.202311026162 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CLOUD BASED ELECTRIC VEHICLES TEMPERATURE MONITORING SYSTEM USING IOT.

(51) International classification	:F24F 107000, F24F 116400, H04L 671000, H04L 671200, H04N 053780	(71)Name of Applicant : 1)Dr Pardeep Singh Cheema , Professor CSE Address of Applicant :Dr Pardeep Singh Cheema Professor CSE AKAL University ,Talwandi Sabo, Bhatinda Punjab, 151001, India. Bhatinda -----
(86) International Application No	:NA	2)Dr. Lalit Abhilashi (Pro-Chancellor) 3)Miss Parinidhi Singh 4)Mr. Pawan Kumar Singh 5)Prof. Dr. Reena Singh 6)Prof. Dr. Beg Raj (Director- AITM) Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Dr Pardeep Singh Cheema , Professor CSE Address of Applicant :Dr Pardeep Singh Cheema Professor CSE AKAL University ,Talwandi Sabo, Bhatinda Punjab, 151001, India. Bhatinda -----
(61) Patent of Addition to Application Number	:NA	2)Dr. Lalit Abhilashi (Pro-Chancellor) Address of Applicant :Abhilashi University, Chail Chowk, Tehsil, Chachyot, Mandi, HP-175008, Himachal Pradesh, India. Mandi -----
Filing Date	:NA	3)Miss Parinidhi Singh Address of Applicant :Dr. Pillai Global Academy, Sector-7, Khanda Colony, New Panvel, Navi Mumbai- 410206, India. New Panvel -----
(62) Divisional to Application Number	:NA	4)Mr. Pawan Kumar Singh Address of Applicant :Dr. Pillai Global Academy, Sector-7, Khanda Colony, New Panvel, Navi Mumbai- 410206, India. New Panvel -----
Filing Date	:NA	5)Prof. Dr. Reena Singh Address of Applicant :Abhilashi University, Chail Chowk, Tehsil, Chachyot, Mandi, HP-175008, Himachal Pradesh, India. Mandi -----
		6)Prof. Dr. Beg Raj (Director- AITM) Address of Applicant :Ashoka Institute of Technology And Management, Ashoka Engineering Chauraha, Paharia- Sarnath Road, Paharia Rd, Sarnath, Varanasi, Uttar Pradesh 221007, India. Varanasi -----

(57) Abstract :

ABSTRACT [500] Our Invention “Cloud based Electric Vehicles Temperature Monitoring system using IoT” is a take care of the temperature estimation issue of completely encased gear for power hardware activity investigation, the creators propose a web-based temperature observing framework for electrical hardware in light of aloof remote sensors. Focusing on the disservices of conventional temperature checking techniques, the framework embraces radio recurrence innovation. The plan primarily explains the vital advancements and switchgear execution in the checking framework research and talks about the plausibility of the framework conspire through tests. Screen terrifically significant parts at various times, and lay out a temperature checking organization to finish observing and the executives. As per the test results, on account of overheating, the temperature can increase to more than 75°C, and the temperature contrast estimated remotely is 0.5°C, which is adequate to show the soundness of the change. Electrical hardware, the exactness, and ongoing execution of temperature checking are ensured.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032910 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR REAL-TIME DETECTION OF PEOPLE IN VIDEO STREAM

<p>(51) International classification :C12Q 016800, C12Q 016858, G06F 030481, G06F 030484, G06N 030800</p> <p>(86) International Application No:NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Saket Ranjan Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh. Greater Noida ----- ----- 2)Shubhi Gupta 3)Sarthak Tyagi 4)Dr. Nitin Rakesh 5)Dr. Mandeep Kaur 6)Dr. Mayank Kumar Goyal Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Saket Ranjan Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh. Greater Noida ----- ----- 2)Shubhi Gupta Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh. Greater Noida ----- ----- 3)Sarthak Tyagi Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh Greater Noida ----- ----- 4)Dr. Nitin Rakesh Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh Greater Noida ----- ----- 5)Dr. Mandeep Kaur Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh Greater Noida ----- ----- 6)Dr. Mayank Kumar Goyal Address of Applicant :Department Of Computer Science School Of Engineering And Technology, Sharda University, Plot No 32-34, Knowledge Park III, Greater Noida, Uttar Pradesh Greater Noida ----- -----</p>
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(57) Abstract :

The present invention provides a system (100) for tracking one or more entities in a video stream. The system (100) includes an image acquisition unit (102), a processing unit (104), configured to convert the received video stream into a set of images, generate a condensed version of the set of images using histogram of oriented gradient (HOG) technique, extract facial attributes of one or more faces from the condensed version of the set of images, and compare the extracted facial attributes with a dataset storing facial attributes of a plurality of entities. The system (100) then transmits a first signal to a computing device upon detecting a similar face in the dataset and a second signal when the extracted face is absent from the dataset. This system is useful in various applications, including security, surveillance, and marketing.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032937 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEEP LEARNING BASED APPROACH TO ANALYSE THE INTERRELATIONSHIP BETWEEN HISTORY OF POLITICAL ECONOMY AND IMMIGRATION

(51) International classification	:A61B 010000, A61B 010600, G06N 030400, G06N 030800, G06Q 502600	(71)Name of Applicant : 1)Dr. NAZIA HUSAIN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- 2)Dr. SONU SARAN 3)KIMAYA DESHPANDE 4)KAUSHIK ZOD 5)ASMITA SAJU 6)VIJAYA ASHOK MERWADE Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. NAZIA HUSAIN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- 2)Dr. SONU SARAN Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- 3)KIMAYA DESHPANDE Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- ----- 4)KAUSHIK ZOD Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- ----- 5)ASMITA SAJU Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- ----- 6)VIJAYA ASHOK MERWADE Address of Applicant :RESEARCH SCHOLAR, DEPARTMENT OF HISTORY, SHRI J.J.T. UNIVERSITY JHUNJHUNU ----- -----
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Deep Learning based approach to analyse the interrelationship between History of political economy and immigration is the proposed invention. The invention focuses on studying the political economy of a particular nation. The proposed invention includes immigration details of population of a nation to understand the interrelationship between economy and immigration.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032938 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TRANS-DIFFERENTIATION OF A SUBPOPULATION OF WHARTON JELLY DERIVED MESENCHYMAL STEM CELLS (WJ-MSCS) IN HUMAN ASTROCYTES FOR POSSIBLE TREATMENT OF NEURODEGENERATIVE DISORDERS

(51) International classification	:A61K 352800, A61P 252800, C12N 050775, C12N 050790, G06T 050000	(71) Name of Applicant : 1)Dr. Sanjeev Gautam Address of Applicant :Associate Professor and Head, Department of Biotechnology, Institute of Integrated and Honors Studies, Kurukshetra University Kurukshetra ----- 2)Dr. Anal Kant Jha 3)Dr. Shiv Kumar Giri 4)Dr. Sunil Kumar Rai 5)Dr. Abhijeet Mishra 6)Dr VIKASH KUMAR Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Sanjeev Gautam Address of Applicant :Associate Professor and Head, Department of Biotechnology, Institute of Integrated and Honors Studies, Kurukshetra University Kurukshetra ----- 2)Dr. Anal Kant Jha Address of Applicant :Associate Professor, Department of Biotechnology, O P Jindal University, Punjipathra, Raigarh, Chhattisgarh Raigarh ----- 3)Dr. Shiv Kumar Giri Address of Applicant :Associate Professor, Department of Biotechnology, School of Basic and Applied Sciences, Maharaja Agrasen University, Baddi Baddi ----- 4)Dr. Sunil Kumar Rai Address of Applicant :Assistant Professor, Department of Cell and Molecular Biology ----- 5)Dr. Abhijeet Mishra Address of Applicant :Assistant professor, Department of Biochemistry, Shivaji college , University of Delhi Delhi ----- 6)Dr VIKASH KUMAR Address of Applicant :GENERAL MANAGER, GREEN LAXMI FOODS, VELLAMADAI, 641110 COIMBATORE -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Trans-differentiation of a subpopulation of Wharton Jelly derived mesenchymal stem cells (WJ-MSCs) in human astrocytes for possible treatment of neurodegenerative disorders is the proposed invention. The proposed invention focuses on trans-differentiation of a sub-population of Wharton Jelly derived mesenchymal stem cells (WJ-MSC's) in human astrocytes. The present invention aims at achieving the possible treatment of neurodegenerative disorders.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2023

(21) Application No.202311019611 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR ESTABLISHING SECURE-KEY EXCHANGE BETWEEN IOT-DEVICES AND INTERNET USING POST-QUANTUM CRYPTOGRAPHY KEY-EXCHANGE

(51) International classification	:H04L 090600, H04L 090800, H04L 093000, H04L 093200, H04W 761200	(71)Name of Applicant : 1)Poongodi M Address of Applicant :College of Science and Engineering, Hamad Bin Khalifa Univeristy, Doha, P.O. Box: 34110, Qatar ----- 2)T. J. NAGALAKSHMI 3)Uma N. Dulhare 4)Shaik Rasool 5)Dr. Kirtankar Rajeshwar Vishwanath 6)Mohammed Naseer Khan 7)Karunakar T Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72)Name of Inventor : 1)Poongodi M Address of Applicant :College of Science and Engineering, Hamad Bin Khalifa Univeristy, Doha, P.O. Box: 34110, Qatar ----- 2)T. J. NAGALAKSHMI Address of Applicant :Associate Professor, Department of ECE, SAVEETHA SCHOOL OF ENGINEERING, Saveetha Institute of Medical and Technical Sciences, Chennai, Tamil Nadu- 602105, India Chennai ----- 3)Uma N. Dulhare Address of Applicant :Professor and Head, Department of CS & AI, Muffakham Jah College of Engineering and Technology, Telangana- 500034, India Hyderabad -----
(87) International Publication No :	NA	4)Shaik Rasool Address of Applicant :Assistant Professor, Department of CSE, Methodist College of Engineering and Technology, Telangana- 500001, India Hyderabad ----- 5)Dr. Kirtankar Rajeshwar Vishwanath Address of Applicant :Dept.of Economics, N.W.Mahavidyalaya, Ak. Balapur, Dist.Hingoli, Maharashtra-431701, India Hingoli ----- 6)Mohammed Naseer Khan Address of Applicant :Principal Software Engineer, Visual Technologies LLC, Dallas, Texas- 75063, United States ----- 7)Karunakar T Address of Applicant :Research scholar, Electrical and Electronics Engineering, Karunya institute of technology and sciences, Coimbatore, Tamil Nadu- 641114 India Coimbatore -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system for establishing secure key exchange between Internet of Things (IoT) devices and the internet using post-quantum cryptography. The system includes IoT devices configured to generate public-private keys and an internet server configured to generate its own public-private key. During the key exchange process, a key encapsulation mechanism generates a shared secret key and a ciphertext for each IoT device, which is decrypted by a key decapsulation processing unit to recover the shared secret key. The symmetric encryption processing unit encrypts and decrypts messages exchanged between the IoT devices and the internet server using the shared secret key. The invention includes a secrecy key processing unit to prevent compromise of past and future key exchanges. A configuration unit is provided to configure IoT devices and internet server to use the same post-quantum cryptography key exchange technique for secure communication.

No. of Pages : 26 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2023

(21) Application No.202311019657 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ACCOUNTANCY THROUGH MACHINE LEARNING ALGORITHM AND BLOCK CHAIN TECHNOLOGY

(51) International classification	:G06F 216400, G06K 096200, G06N 200000, G06N 202000, G06Q 203600	(71) Name of Applicant : 1)Dr. Rashmi Sharma Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 2)Dr. Ashish Raina 3)Mrs. Rashmi Bindra 4)Mrs. Ritu 5)Mrs. Chetna Arora 6)Priya Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Dr. Rashmi Sharma Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 2)Dr. Ashish Raina Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 3)Mrs. Rashmi Bindra Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 4)Mrs. Ritu Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 5)Mrs. Chetna Arora Address of Applicant :Associate Professor, Kanya Maha Vidyalaya, Jalandhar, Punjab ----- 6)Priya Address of Applicant :Lecturer, Kanya Maha Vidyalaya, Jalandhar, Punjab -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to provide accountancy through machine learning algorithm and block chain technology. Blockchain technology is used for generating decentralize digital ledgers which is verified and recorded by multiple parties. While machine learning can be used for automation of accountancy process which is assisted analyzing financial statements. ML is used for detecting anomalies and fraudulent financial activities with prediction of future trends.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/03/2023

(21) Application No.202311024933 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND METHOD OF MULTIMODAL BIOMETRIC ACCESS CONTROL

(51) International classification :A61B 051170, G06F 213200, G07C 090000, G07C 092500, G07C 093700
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention discloses a system 100 for providing a multimodal biometric access control, said system 100 comprising: a processor 102, a computer readable medium 104, a display 106, a user interface 108, an external device 110, a communication network 112, and a memory communicatively coupled to the processor 102. The method of providing security features based on multimodal biometric access control comprises: providing access to an authorize admin to add new users to access a secure location by receiving a plurality of parameters; training a CNN using supervised machine learning based on a set of data for granting an authentication feature; providing access to a user in said secure location when each of said authentication features is identified and granted by said CNN; and triggering an alarm when at least one authentication feature is not granted by said CNN.

No. of Pages : 22 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202311031990 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR PREDICTION OF BUG FOR OPTIMIZING PARAMETERS AND IMPROVING ACCURACY USING MACHINE LEARNING

(51) International classification	:A61B 341000, G06F 113600, G06N 030400, G06N 050000, G06N 200000	(71) Name of Applicant : 1)Banasthali Vidyapith Address of Applicant :Banasthali Vidyapith, P.O. Banasthali, Banasthali, Rajasthan, India, 304022 Jaipur ----- 2)Dr. Manisha Agarwal 3)Mrs. Nidhi Srivastava Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. Manisha Agarwal Address of Applicant :Banasthali Vidyapith, P.O. Banasthali, Banasthali, Rajasthan, India, 304022 Jaipur ----- 2)Mrs. Nidhi Srivastava Address of Applicant :Banasthali Vidyapith, P.O. Banasthali, Banasthali, Rajasthan, India, 304022 Jaipur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“METHOD FOR PREDICTION OF BUG FOR OPTIMIZING PARAMETERS AND IMPROVING ACCURACY USING MACHINE LEARNING” Accordingly, embodiments herein disclose a method for prediction of bug for optimizing parameters and improving accuracy using a machine learning (ML). The method involves acquiring data from a reputed promise repository; and obtaining the data preprocessing by applying some feature selection techniques. The data modelling is provided with data metrics, and the data is to be visualized. The feature selection forms the foundation for machine learning (ML) which contributes to feature measure or assessment criterion in the data model. After the feature selection process, the training and testing are done by a random sampling chnique and taking ratio of bugged and not bugged instances, training an ML algorithm to predict labels from characteristics, tweaking it for the business need, and verifying it on outlier data are all part of the modelling process. The training and testing ratio of 80:20 has been taken into consideration and enhancing the learning procedure. Figure to be published with Abstract: Figure 1 Dated this 27th day of April, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 15 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032988 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PROCESS FOR THE SYNTHESIS OF N-(SUBSTITUTED)-4-((SUBSTITUTED-2-OXO-2H-CHROMEN-3-YL)DIAZENYL)BENZENESULPHONAMIDE COMPOUNDS AS ANTI-HERPETIC AGENTS

(51) International classification	:A61K 315200, A61P 131200, A61P 210000, A61P 250600, A61P 370000	(71)Name of Applicant : 1)GL BAJAJ INSTITUTE OF TECHNOLOGY AND MANAGEMENT Address of Applicant :PLOT NO. 2, APJ ABDUL KALAM RD, KNOWLEDGE PARK III, GREATER NOIDA, UTTAR PRADESH 201306 Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
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(61) Patent of Addition to Application Number	:NA	3)HEENA Address of Applicant :DEPARTMENT OF APPLIED SCIENCE, GLBITM, GREATER NOIDA Greater Noida -----
Filing Date	:NA	4)BRIJ KISHORE TIWARI Address of Applicant :DEPARTMENT OF APPLIED SCIENCE, GLBITM, GREATER NOIDA Greater Noida -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PROCESS FOR THE SYNTHESIS OF N-(SUBSTITUTED)-4-((SUBSTITUTED-2-OXO-2H-CHROMEN-3-YL)DIAZENYL)BENZENESULPHONAMIDE COMPOUNDS AS ANTI-HERPETIC AGENTS Abstract The present invention discloses a novel process for synthesizing N-(Substituted)-4-((Substituted-2-oxo-2H-chromen-3-yl)diazenyl)benzenesulphonamide compounds with potential anti-herpetic properties. The synthesis process comprises two main steps: (a) reacting a substituted 2-oxo-2H-chromen-3-yl compound with an appropriate diazonium salt to form a substituted 2-oxo-2H-chromen-3-yl diazenyl intermediate; and (b) reacting the substituted 2-oxo-2H-chromen-3-yl diazenyl intermediate with a suitable substituted benzenesulphonyl chloride to obtain the desired N-(Substituted)-4-((Substituted-2-oxo-2H-chromen-3-yl)diazenyl)benzenesulphonamide compound.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032989 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SEPTIC TANK MONITORING THROUGH IOT-BASED SENSING DEVICES

(51) International classification :C02F 010000, C02F 032800, C02F 110400, E03F 110000, G06Q 501000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SEPTIC TANK MONITORING THROUGH IOT-BASED SENSING DEVICES Abstract A septic tank monitoring system comprising an IoT-based sensing device, wireless communication module, power source, remote server or cloud-based platform, and user interface. The system measures septic tank parameters, transmits the data to a remote server for processing and analysis, and provides real-time monitoring and maintenance recommendations to the user through a web or mobile application. The system may also include additional features such as measuring extra parameters, using various communication technologies, performing predictive analysis, providing historical data, connecting to external alarm systems, and sharing data with authorized third parties. Fig. 1

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032990 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART ATTENDANCE MONITORING SYSTEM

(71)Name of Applicant :

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(72)Name of Inventor :

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(57) Abstract :

SMART ATTENDANCE MONITORING SYSTEM Abstract smart attendance monitoring system leveraging artificial intelligence and image processing techniques is disclosed. The system captures images using one or more cameras and processes the images to identify and match facial features with reference images and associated identification information. The attendance status is recorded and stored securely, with access provided to authorized users through a user interface that offers additional functionalities. This innovative approach offers a reliable, secure, and user-friendly method for monitoring attendance in various settings.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032994 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A FORMULATION OF PROTEASE INHIBITOR ANTIRETROVIRAL DRUG AND METHOD THEREOF

(51) International classification	:A61K 385500, A61K 450600, A61P 311800, C07D 050600, C12Q 013700	(71) Name of Applicant : 1)LOVELY PROFESSIONAL UNIVERSITY Address of Applicant :JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB-144 411, INDIA. PHAGWARA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)YACHANA MISHRA Address of Applicant :LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB-144 411, INDIA. PHAGWARA ----- 2)NEHA SRIVASTAVA Address of Applicant :LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB-144 411, INDIA. PHAGWARA ----- 3)VIJAY MISHRA Address of Applicant :LOVELY PROFESSIONAL UNIVERSITY, JALANDHAR-DELHI G.T. ROAD, PHAGWARA, PUNJAB-144 411, INDIA. PHAGWARA ----- -----
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A FORMULATION OF PROTEASE INHIBITOR ANTIRETROVIRAL DRUG AND METHOD THEREOF HIV virus tends to affect and multiply in the intracellular environment primarily macrophages, dendritic cells, and CD4 T cells which further leads to the immune system. Conventional, as well as a modern delivery system, fails to localize the required amount of drug at the target site causing a relapse of hidden infection as well as resistance. The delivery system is designed to achieve higher drug loading and deliver to target cell where infection prevails and flourish. Carboxylated multiwalled carbon nanotubes (COOH-MWCNTs) were loaded with protease inhibitor antiretroviral drug Fosamprenavir calcium (Fos) by direct loading method (FosMWCNT) for the delivery of the drug in a controlled manner with lesser adverse effects. The prepared FosMWCNT formulation was evaluated for entrapment efficiency, in vitro drug release, and surface characterization. Drug-loaded MWCNTs evaluated using FESEM, FTIR, Raman spectroscopy, and AFM techniques confirmed the structure specificity of drug-loaded MWCNTs. The formulation FosMWCNT showed $79.57\pm0.4\%$ entrapment efficiency with good dispersion. The surface morphology by FESEM and AFM confirmed the elongated structure without fracture. Particle size determination helps to determine the size of the nanostructure formed. The average particle size was found to be 290.1 nm confirming that the drug-loaded COOH-MWCNTs are in the nanosize range. The polydispersity index (PDI) was found to be 0.390. The value of zeta potential was found to be 0.230. In-vitro release studies were carried out at pH 7.4 phosphate buffer saline (PBS) which showed sustained release. An in vitro drug release study showed $91.43\pm2.3\%$ cumulative drug release in 96 hr.

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034257 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ATTITUDE OF HEALTHCARE PROFESSIONALS TOWARDS QUALITY ACCREDITATION AND IMPACT ON OUTCOME OF HEALTHCARE SERVICES

(51) International classification	:G06Q 101000, G16H 106000, G16H 402000, G16H 406700, G16H 800000	(71) Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	1)DR. NISHTHA PAREEK Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(61) Patent of Addition to Application Number	:NA	2)DR. KUNAL RAWAL Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ATTITUDE OF HEALTHCARE PROFESSIONALS TOWARDS QUALITY ACCREDITATION AND IMPACT ON OUTCOME OF HEALTHCARE SERVICES Abstract A system for assessing the attitude of healthcare professionals towards quality accreditation and its impact on the outcome of healthcare services is disclosed. The system comprises a data collection module for gathering data on healthcare professional's attitudes towards quality accreditation and healthcare service outcomes, an analysis module for processing the collected data to identify correlations between healthcare professional's attitudes towards quality accreditation and healthcare service outcomes, and a reporting module for generating a report summarizing the findings of the analysis. The system provides a comprehensive solution for assessing the attitudes of healthcare professionals towards quality accreditation and its impact on the outcome of healthcare services and can be used by healthcare organizations to improve the attitudes of healthcare professionals towards quality accreditation and enhance the outcomes of healthcare services.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034258 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PLATFORM FOR EVALUATING THE MANIFESTATION OF MUSIC ON THE HUMAN BODY

(51) International classification	:A61B 050000, A61B 050200, A61K 084900, A61P 150000, H04B 130000	(71) Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:NA	2)DR. INA SHASTRI
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(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(62) Divisional to Application Number	:NA	1)DR. INA SHASTRI
Filing Date	:NA	Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
		2)SHVEATA MISRA
		Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----

(57) Abstract :

PLATFORM FOR EVALUATING THE MANIFESTATION OF MUSIC ON THE HUMAN BODY Abstract The present invention relates to a platform for evaluating the manifestation of music on the human body. The platform includes a music selection module that enables users to choose different types of music or musical compositions from a database of music tracks from various genres, styles, and artists. A data acquisition module collects physiological and psychological data from users while they listen to the selected music using sensors and wearable devices. A data analysis module utilizes machine learning algorithms and statistical methods to assess the impact of music on users' physiological and psychological states, identifying correlations, patterns, and trends. A visualization module presents the analyzed data in an intuitive and understandable format, providing graphical representations, such as charts, graphs, and heatmaps, to depict the effects of music on the human body. The platform also includes a user interface, a recommendation engine, and a feedback module for enabling users to select music, initiate data acquisition, view the analyzed data, and interact with the platform. Fig. 1

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034259 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SECURE SURVEY PLATFORM FOR GENERATING FUSION MUSIC AND CURRICULUM DESIGN

(51) International classification	:A61K 393950, A61K 450600, A61K 480000, C07K 162800, G01N 336800	(71) Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:NA	2)DR. INA SHASTRI 3)VENUS TARKASWAR
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)DR. INA SHASTRI Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A SECURE SURVEY PLATFORM FOR GENERATING FUSION MUSIC AND CURRICULUM DESIGN Abstract A secure survey platform for generating fusion music and curriculum design, leveraging advanced encryption algorithms and authentication protocols to ensure data security and user privacy. The platform comprises a user interface for collecting preferences related to music genres, instruments, learning styles, and educational content, and a database for securely storing said preferences. The preference analysis module identifies trends and patterns, utilizing machine learning algorithms to optimize generation processes. The fusion music generator combines digital signal processing, artificial intelligence, and machine learning to create unique compositions based on user preferences. The curriculum design generator personalizes educational content by selecting relevant topics and generating resources such as lesson plans and multimedia. The platform includes a feedback module for continuous improvement and an administrator interface for user account management and aggregate data analysis. The method for generating fusion music and curriculum designs follows a series of steps ensuring personalization and security.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033002 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NANO ZIRCONIA BASED ANTICORROSIVE SUPERHYDROPHOBIC COATING FOR THE PROTECTION OF COPPER METAL AND METHOD THEREOF

(51) International classification	:C09D 040000, C09D 050800, C09D 051600, C09D 630000, G01N 273270	(71) Name of Applicant : 1)Graphic Era (Deemed to be University) Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Akanksha Rajput Address of Applicant :Department of Chemistry, Graphic Era Deemed to be University, Dehradun -----
(87) International Publication No	: NA	2)Abhilasha Mishra Address of Applicant :Department of Chemistry, Graphic Era Deemed to be University, Dehradun -----
(61) Patent of Addition to Application Number	:NA	3)Arun Pratap Singh Rathod Address of Applicant :Department of Electronics and Communication Engineering, Graphic Era Deemed to be University, Dehradun -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT NANO ZIRCONIA BASED ANTICORROSIVE SUPERHYDROPHOBIC COATING FOR THE PROTECTION OF COPPER METAL AND METHOD THEREOF The present invention provides Nano Zirconia based anticorrosive superhydrophobic coating for the protection of copper metal and method thereof. For the purpose of promoting an understanding of the principles of the invention, reference will now be made to the embodiment illustrated in the drawings and specific language will be used to describe the same. It will nevertheless be understood that no limitation of the scope of the invention is thereby intended, such alterations and further modifications in the illustrated system, and such further applications of the principles of the invention as illustrated therein being contemplated as would normally occur to one skilled in the art to which the invention relates.

No. of Pages : 29 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033011 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DUAL BANKING SYSTEM FOR MICROECONOMICS EFFICIENCY

(51) International classification	:A61P 150000, A61P 150800, G06Q 201000, G06Q 204000, G06Q 400200	(71)Name of Applicant :
(86) International Application No	:NA	1)Dr. Roop Raj Address of Applicant :Assistant Professor, RRM Group of Institute, Kurukshetra, India -----
Filing Date	:NA	2)K.Yamini Bhargavi
(87) International Publication No	: NA	3)Dr. Yua Henry
(61) Patent of Addition to Application Number	:NA	4)Dr. G. Pandi Selvi
Filing Date	:NA	5)Loukik S.Salvi
(62) Divisional to Application Number	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant :NA
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		3)Dr. Yua Henry Address of Applicant :Dean, Social and Management Sciences, Mewar International University-Nigeria -----
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		5)Loukik S.Salvi Address of Applicant :Assistant Professor, Thakur College of Engineering and Technology, TCET, A-Block, Gate No 5, Thakur Educational Campus, Shyamnarayan Thakur Rd, Thakur Village, Kandivali East, Mumbai, Maharashtra -----

(57) Abstract :

Banks are better at using funds than informal lenders, who have better access to borrowers' information. More precisely, because borrowers must submit collateral assets in order to secure bank loans because banks are unable to fully monitor their behaviour. The informal credit market does not require physical collateral for borrowing; instead, informal lenders can use social networks to learn about potential borrowers' behaviour and use social pressure to compel repayment. The creation of a banking system that successfully collects savings on a wide scale is linked to the route of continuous growth. However, during the early stages of growth when there is a lack of collateral, informal lenders and other traditional lending institutions are required.

No. of Pages : 12 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033013 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MODELLING AND FORECASTING TIME SERIES DATA IN MATHEMATICS

(51) International classification :B44C 030400, G01R 335610, G06Q 400600, G09B 190200, G09B 230200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Modelling and Forecasting Time Series Data in Mathematics Abstract The present invention pertains to modeling and forecasting time series data in mathematics, specifically introducing an innovative system and method designed to offer improved accuracy, efficiency, and stability in predicting future values and modeling the underlying structure of time series data. The system consists of input, processing, output, and display or storage modules, as well as optional pre-processing and post-processing modules. The method involves receiving input data, processing it using a novel time series forecasting algorithm, generating output data representing forecasted values, and displaying or storing the output data. The novel time series forecasting algorithm can combine existing algorithms to create a hybrid approach, adapt its parameters based on input data characteristics, and leverage pre-processing and post-processing modules for enhanced performance. This invention substantially improves the performance of time series forecasting techniques, enabling more effective analysis and decision-making across a broad spectrum of time series data and applications.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2023

(21) Application No.202311029586 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATICALLY DETERMINING EVAPOTRANSPIRATION OF CROPS

(51) International classification :A01G 092400, A01G 251600, A61B 060000, G07F 052400, H04N 014070
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :S/o Dr. D.D Sharma, Near SBI, Kandaghat, Solan, Himachal Pradesh – 173215, India. Solan ----- -----

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(57) Abstract :

The present disclosure relates to a method and system for automatically determining evapotranspiration value of a desired crop. The method comprises: receiving, by a processing unit [104] from a database [102], a set of images and a set of data; pre-processing, by the processing unit, the set of data; analyzing, by the processing unit [104], one or more pixels in images of the set of images; generating, by the processing unit, surface energy balance algorithm for land (SEBAL) model for desired crop; determining, by the processing unit, a net radiation value (Rn), soil heat flux value (G), sensible heat flux value (H), and instantaneous evaporation value (ETi); determining, by the processing unit, instantaneous evaporative fraction value () based on net radiation value (Rn), soil heat flux value (G), and instantaneous evaporation value (ETi); determining, by the processing unit, evapotranspiration value of crops for a predetermined time period value. [FIG. 2]

No. of Pages : 34 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033495 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF SUSTAINABLE ENVIRONMENT BY UTILIZING ENERGY EFFICIENT MATERIALS

(51) International classification	:B01D 530400, B01D 536200, G06Q 203200, G07F 130200, H04W 520200	(71)Name of Applicant : 1)Dr. Sachi Singh Address of Applicant :Assistant Professor.IMS Engineering College, Ghaziabad, NH-09, Adhyatmik Nagar, Near Dasna, Ghaziabad, Uttar Pradesh, Pin Code: 201015 ----- 2)Dr. Amit Parashar 3)Dr. Surpiya Pal 4)Dr. Kaushik Shandilya 5)Dr. Chhaya Agarwal 6)Mr. Pradeep Bhati 7)Ashish Kumar 8)Dr. Soma Das 9)Humaib Nasir 10)Mukshi Ahmad Qazi 11)Dr. Neha Deepak Saxena 12)Mr. Mohit Gupta Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. Sachi Singh Address of Applicant :Assistant Professor.IMS Engineering College, Ghaziabad, NH-09, Adhyatmik Nagar, Near Dasna, Ghaziabad, Uttar Pradesh, Pin Code: 201015 ----- 2)Dr. Amit Parashar Address of Applicant :Associate Professor, GL Bajaj Group of Institutions, Mathura Affiliated to Dr A P J Abdul Kalam Technical University, Lucknow, Uttar Pradesh, Pin Code: 281406 ----- 3)Dr. Surpiya Pal Address of Applicant :Temporary faculty, NIT Raipur, Great Eastern Rd, Amanaka, Raipur, Chhattisgarh, Pin Code: 492010 ----- 4)Dr. Kaushik Shandilya Address of Applicant :Researcher, USA ----- 5)Dr. Chhaya Agarwal Address of Applicant :Assistant Professor, Department of Biotechnology, Noida Institute of Engineering & Technology, Plot No 19 Knowledge Park II, Greater Noida, Uttar Pradesh, Pin Code: 201310 ----- -- 6)Mr. Pradeep Bhati Address of Applicant :Assistant professor, IIMT engineering college, Civil Engineering Department, Meerut, Uttar Pradesh, Pin Code: 201310 ----- 7)Ashish Kumar Address of Applicant :Assistant Professor (Civil Engineering), IIMT Engineering College, Meerut, Uttar Pradesh, Pin Code: 201310 ----- 8)Dr. Soma Das Address of Applicant :Assistant Professor, IMS Engineering College, Ghaziabad, Uttar Pradesh, Pin Code: 201015 ----- 9)Humaib Nasir Address of Applicant :Assistant Professor, School of Civil Engineering, Lovely Professional University, Phagwara, Punjab, Pin Code: 144402 ----- 10)Mukshi Ahmad Qazi Address of Applicant :M. Tech Scholar, LPU, Phagwara, Punjab, Pin Code: 144402 ----- 11)Dr. Neha Deepak Saxena Address of Applicant :Assistant professor, JSS Academy of Technical education, C-20/1, sector 62, Noida, Uttar Pradesh, Pin Code: 201309 ----- 12)Mr. Mohit Gupta Address of Applicant :Assistant Professor, Raj Kumar Goel Institute of Technology, Ghaziabad, Pin Code: 201003 -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of Environmental Science and aims to develop sustainable environments by utilizing energy-efficient materials. The invention involves a method for developing sustainable concrete that reduces carbon emissions and promotes sustainable building practices. It includes selecting sustainable raw materials based on specific sustainability criteria, testing the raw materials in laboratories, and mixing them in specific proportions to maximize energy efficiency and minimize environmental impact during the production of sustainable concrete. The use of electric-powered equipment, optimization of mix proportions, and recycled aggregates promote a circular economy and lead to improved building performance, increased energy efficiency, and reduced environmental impact.

No. of Pages : 8 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033499 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITIONS OF MEBEVERINE FOR THE TREATMENT OF GASTROINTESTINAL DISORDERS

(51) International classification	:A61K 312400, A61P 010000, A61P 010400, C07D 051400, C07K 070800	(71) Name of Applicant : 1)Dr. Mahesh Kumar Gupta Address of Applicant :Dean and Principal, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- -- 2)Dr. Rajkumari Thagele 3)Shubhanshu Singh 4)Ravi Gupta 5)Aadil Ansari 6)Ms. Poonam Bihone 7)Merin Rosy Joseph Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Mahesh Kumar Gupta Address of Applicant :Dean and Principal, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- -- 2)Dr. Rajkumari Thagele Address of Applicant :Associate Professor, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- -- 3)Shubhanshu Singh Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- 4)Ravi Gupta Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- 5)Aadil Ansari Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Alaniya, Kota, Rajasthan - 325003 Kota ----- 6)Ms. Poonam Bihone Address of Applicant :Assistant Professor, Institute of Pharmaceutical Science and Research, Sardar Patel University, Balaghat, Madhya Pradesh - 481001 Balaghat -- -- 7)Merin Rosy Joseph Address of Applicant :Student, Kota College of Pharmacy, SP 1, RIICO Industrial Area, Jhalawar Road, Ranpur, Kota, Rajasthan - 325003 Kota -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
(62) Divisional to Application Number	:NA	

(57) Abstract :

The present invention relates to the novel pharmaceutical compositions comprising mebeverine for the treatment of gastrointestinal disorders, including irritable bowel syndrome (IBS), functional gastrointestinal disorders, and other related conditions. Mebeverine is a well-known antispasmodic agent that exhibits high efficacy in treating gastrointestinal disorders, but its use has been limited due to its poor bioavailability and short half-life. The present invention overcomes these limitations by providing novel formulations of mebeverine that improve its bioavailability and stability, thereby enhancing its therapeutic efficacy.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033532 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CHATBOT FOR ANTENATAL WOMEN AND PARTNERS OBSTETRICS AND CHILD HEALTH CARE

(51) International classification 510200	:G01N 337400, G06Q 502200, G09B 050400, G16H 503000, H04L	(71)Name of Applicant : 1)Ms. Rekha Kumari Address of Applicant :Associate Professor Cum HOD, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 2)Ms. Sapam Debika 3)Ms. Komal Sharma 4)Ms. Ritu Makhija 5)Ms. Amrita Akhilesh 6)Ms. Hemlata Lalia 7)Ms. Ring Liangkiuwiliu 8)Ms. Lammunnen Haokip 9)Ms Suman Pandey 10)Ms. Sanjna kumari 11)Ms. Tamanna goyal Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA	(72)Name of Inventor : 1)Ms. Rekha Kumari Address of Applicant :Associate Professor Cum HOD, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 2)Ms. Sapam Debika Address of Applicant :Associate Professor, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. -----
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(61) Patent of Addition to Application Number Filing Date	:NA	4)Ms. Ritu Makhija Address of Applicant :Assistant Professor, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. -----
(62) Divisional to Application Number Filing Date	:NA	5)Ms. Amrita Akhilesh Address of Applicant :Associate Professor Cum HOD, Department of Child Health Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 6)Ms. Hemlata Lalia Address of Applicant :Assistant Professor, Department of Medical Surgical Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 7)Ms. Ring Liangkiuwiliu Address of Applicant :Assistant Professor, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 8)Ms. Lammunnen Haokip Address of Applicant :Senior Tutor/Lecturer, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 9)Ms Suman Pandey Address of Applicant :Assistant Professor, Department of Obstetrics and Gynecology Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32-34, Knowlegde Park III, Greater Noida, 201306, Uttar Pradesh, India. ----- 10)Ms. Sanjna kumari Address of Applicant :Assistant Professor, Department of Child Health Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32, Greater Noida, Uttar Pradesh, India. ----- 11)Ms. Tamanna goyal Address of Applicant :Senior Tutor/Lecturer, Department of Community Health Nursing, Sharda School of Nursing Science and Research, Sharda University, Plot No.32, Greater Noida, Uttar Pradesh, India. -----

(57) Abstract :

A CHATBOT FOR ANTENATAL WOMEN AND PARTNERS OBSTETRICS AND CHILD HEALTH CARE A system comprises an appealing app on a mobile computing device, a software-based analytics and care management engine running on a cloud computing infrastructure, and a sensor that can be worn anywhere on the human body are all components of the total system. A parent chatbot and numerous child chatbots make up a chatbot system. Each sub-chatbot belongs to a particular domain. The parent chatbot has been modified to respond to user inquiries and forward those inquiries to the appropriate sub-chatbot. A sign of preeclampsia is the presence of misfolded proteins in a urine sample from a pregnant woman. The graphical user interface also shows at least one control that enables a user to choose from among a subset of viewing windows, the subset of viewing windows having at least one window other than the first viewing window, from the set of possible viewing windows. A full-sized female with a full-body, incurable airway with a chest rise component, a forearm with a drug receiving component, and/or a foetal heart sound component make up the maternal birthing simulator.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033014 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SIMULATION-BASED OPTIMIZATION OF SUPPLY CHAIN NETWORKS

(51) International classification :G05D 010200, G06Q 100400, G06Q 100600, G06Q 100800, H02G 110000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Simulation-based Optimization of Supply Chain Networks Abstract The present invention relates to a system and method for optimizing a supply chain network consisting of multiple entities. The system comprises a memory for storing the simulation model and results, a simulation engine for simulating the network, an analysis module for identifying performance metrics, an optimization module for generating candidate network configurations, and a selection module for selecting the optimal configuration. The system may also include a user interface, and the analysis module may compare metrics to predefined benchmarks. The optimization module may use evolutionary algorithms, and the simulation engine may simulate various events. The selection module may use heuristics to consider multiple objectives. The simulation model includes topology, entity attributes, and interaction rules. The memory may store historical results for trend analysis. The method comprises generating a simulation model, simulating the network, analyzing metrics, generating candidate configurations, simulating candidates, and selecting an optimized network.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033015 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SIMULATION-BASED ANALYSIS OF HEALTHCARE SYSTEM

(51) International classification :G05D 010200, G06Q 100200, G06Q 100600, G06Q 400800, G09B 232800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Simulation-based Analysis of Healthcare System Abstract This patent describes a system and method for managing and analyzing healthcare data to improve patient care and hospital performance. The system comprises one or more data sources, a data processing module, a data storage module, an analysis module, a user interface, and one or more processors. The data sources can include electronic health records, medical device data, and patient-generated data, and the data processing module can perform functions such as data cleaning, normalization, and transformation. The analysis module can use techniques such as data mining, machine learning, and statistical analysis to provide valuable insights into patient health outcomes and hospital performance.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033016 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SIMULATION-BASED ANALYSIS OF CLIMATE CHANGE IMPACTS ON COASTAL INFRASTRUCTURE

(51) International classification :B01D 531800, C12N 091000, C12N 158200, E02B 030400, G06Q 100600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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JAIPUR Jaipur -----

(57) Abstract :

Simulation-based Analysis of Climate Change Impacts on Coastal Infrastructure Abstract This patent describes a method and system for simulating the impact of climate change on coastal infrastructure. The method involves obtaining data on the physical characteristics of the coastal infrastructure, such as location, height, and material composition, as well as predicted changes in sea level and storm surge due to climate change. This data is input into a simulation model, which simulates the impact of the predicted changes in sea level and storm surge on the coastal infrastructure. The output data generated from the simulation represents the simulated impact on the coastal infrastructure, which can include a map with color-coded regions indicating the level of impact.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033050 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR VALIDATING PROMOTIONAL EMAILS AND PRODUCT AVAILABILITY FROM E-COMMERCE WEBSITES

(51) International classification :A47J 314000, G06F 169580, G06Q 300200, G06Q 300600, H04N 214880
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

METHOD AND SYSTEM FOR VALIDATING PROMOTIONAL EMAILS AND PRODUCT AVAILABILITY FROM E-COMMERCE WEBSITES ABSTRACT A method (400) and system (100) for validating promotional emails and product availability from E-commerce websites is disclosed. In one embodiment, the method (400) includes retrieving (402) a first set of images corresponding to an image strip and a second set of images corresponding to a promotional email from a database. The method (400) further includes calculating (404) a similarity score between each of the first set of images and each of the second set of images using a first Computer Vision (CV) technique. The method (400) further includes selecting (406) one or more valid images from the second set of images based on the similarity score. The method (400) further includes determining (408) a stock availability status of at least one product presented in the one or more valid images from at least one website using a deep learning algorithm. [To be published with FIG.1]

No. of Pages : 38 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034260 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CONSUMER ACCEPTANCE OF AI ENABLED SERVICES IN RETAIL BANKING

(51) International classification :A61P 310000, B41M 055200, C11D 033700, G06Q 300200, G06Q 400200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Consumer acceptance of AI Enabled Services in retail banking Abstract A system for determining consumer adoption of AI-powered services utilizes user surveys to gain insights into consumer behavior and preferences. The system comprises a data collection module for conducting surveys among a sample of consumers, gathering information about their usage and perception of AI-powered services. An analysis module processes the survey results to identify patterns and trends in consumer adoption and usage of AI-powered services. A reporting module generates a report based on the analysis, providing insights into consumer adoption and usage of AI-powered services. This system enables stakeholders to better understand consumer behavior and preferences, allowing for the development and marketing of AI-powered services that meet the needs and expectations of consumers, ultimately driving increased adoption of AI-powered services across various industries.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034261 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IMPACT OF ADVERTISEMENT AND BRANDING ON ACCEPTANCE OF ELECTRIC VEHICLE

(51) International classification :A01K 110000, B41M 055200, B44B 070000, B60L 531600, G06Q 300200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Impact of Advertisement and Branding on Acceptance of Electric Vehicle Abstract A system for analyzing consumer perception and attitudes towards electric vehicles (EVs) collects and processes data from various sources, including surveys, social media, and online reviews. The system comprises a data collection module that gathers data from these sources, a data analysis module that identifies patterns, trends, and consumer sentiment, and a reporting module that presents the market research insights in an accessible and actionable format. This system enables stakeholders to gain a comprehensive understanding of consumer perception and attitudes towards EVs, facilitating the development and implementation of targeted marketing and promotional strategies to boost EV adoption and enhance consumer acceptance of this eco-friendly transportation option.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034276 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A NOVEL METHOD FOR ANALYZING CUSTOMER FEEDBACK MODEL FOR LEAN STARTUP

(51) International classification	:F04D 150000, G06Q 300000, G06Q 300200, G06Q 300600, H04W 046000	(71) Name of Applicant : 1)Dr. Priyanka Sharma Address of Applicant :Assistant Professor Manipal University Jaipur, Dehmi Kalan, Jaipur, Rajasthan, Pin Code: 303007 ----- 2)Smaranika Mohapatra 3)Dr.Nandani Sharma 4)Dr Vidhu K Mathur Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Dr. Priyanka Sharma Address of Applicant :Assistant Professor Manipal University Jaipur, Dehmi Kalan, Jaipur, Rajasthan, Pin Code: 303007 ----- 2)Smaranika Mohapatra Address of Applicant :Assistant Professor Manipal University Jaipur, Dehmi Kalan, Jaipur, Rajasthan, Pin Code: 303007 ----- 3)Dr.Nandani Sharma Address of Applicant :Associate Professor, Poddar Management and Technical Campus, Mansarovar, Jaipur, Rajasthan, Pin Code: 302020 ----- 4)Dr Vidhu K Mathur Address of Applicant :Assistant Professor, The ICFAI University, Jaipur Near Cambay Golf Resort, Agra Road, Jamdoli, Jaipur, Rajasthan, Pin Code: 302031 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel method (100) for analyzing customer feedback model for lean startup. The method (100) comprises collecting customer feedback using various channels such as surveys, interviews, usability tests, and social media monitoring; collecting customer feedback data to assess the impact and feasibility of addressing each feedback category, considering factors such as frequency, significance, and alignment with lean startup goals; analysing categorized feedback data to measure the severity or significance of each feedback category and prioritize them accordingly; conducting qualitative analysis of the feedback data to understand customer preferences, expectations, and challenges; developing a roadmap for implementing changes that address the identified feedback categories, ensuring alignment with lean startup principles of rapid iteration and (MVP) development; recommending changes and collect new feedback from customers; monitoring the impact of the implemented improvements on customer satisfaction and business performance.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/03/2023

(21) Application No.202311014986 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ELECTROCOAGULATION BASED TREATMENT SYSTEM AND METHOD FOR ARSENIC AND FLUORIDE CONTAMINATED WATER

(51) International classification :A61B 180000, A61B 181400, C02F 014400, C02F 014630, C02F 090000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to the electrocoagulation (EC) based treatment system and method for arsenic and fluoride contaminated water for community purposes. The operating conditions are optimized which reduces the operating cost of treatment. Residual aluminum (Al) in treated water has also been evaluated, and the water filter unit has been optimized using different materials to get Al concentration below the permissible limit. Figure 1

No. of Pages : 29 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/03/2023

(21) Application No.202311018148 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A 3D PRINTED SCAFFOLD AND A PROCESS FOR FABRICATION THEREOF

(51) International classification :A61L 273800, G11C 160400, H01L 235220, H01L 235320, H01L 271152
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A 3D PRINTED SCAFFOLD AND A PROCESS FOR FABRICATION THEREOF ABSTRACT A 3D printed scaffold and a process for fabrication thereof for bone tissue engineering is provided. The invention includes fabricating a highly antibacterial bioresorbable 3D printed scaffold by reinforcing hydroxyapatite (HA) with silver nanoparticles (Ag), nanoceria (CeO₂) and zinc oxide (ZnO) for bone tissue engineering that can heal large bone defects. The 3D printed scaffold showed a reduction in bacterial density by 99% for gram negative bacteria (*E. coli*) and 97.1% for gram-positive bacteria (*S. aureus*) within four hours of the incubation period. The 3D printed scaffold showed a higher number of apatite formations on the surface as compared to HA, which demonstrates its excellent in vitro biocompatibility. The 3D printed scaffold showed better interconnected porosity, better mechanical strength such as compression, hardness, and modulus. FIG. 1

No. of Pages : 20 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/04/2023

(21) Application No.202311028174 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND DEVELOPMENT OF PORTABLE HEALTH MACHINE

(51) International classification	:C11B 090000, G05B 230200, G06F 083800, G06F 112600, G06Q 300600	(71) Name of Applicant : 1)Kshitiz agarwal Address of Applicant :patent application ----- -----
(86) International Application No	:NA	2)Arya Institute of Engineering & Technology Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Dr Arvind Agarwal Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
(61) Patent of Addition to Application Number	:NA	2)Dr Puja Agarwal Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
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(62) Divisional to Application Number	:NA	4)Dr Pramod Sharma Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
Filing Date	:NA	

(57) Abstract :

: It is now the era of healthcare 3.0 and there is a growing interest in wellness care as a means to health management. The system is not confined to specific locations or areas for it to sense and react to emergencies. The portable health monitoring system proposed this utilizes sensors embedded within the wearable or suitcase like devices to continuously measure the user's health and promptly alert relevant authorities and caretakers in case of an emergency. The portable health monitoring system proposed in this study needs to notify relevant authorities of emergency situations regardless of the user's location. The system also allows multiple users to share a repeater so that their information can be shared and ranked between the users, ultimately prompting users to be proactive in taking care of their health. This system can also be used as a form of big data or Artificial Intelligence by collecting the health information data of the middle-aged and the elderly and the real time feedback will allow a proactive management of the users' health

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/04/2023

(21) Application No.202311028430 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR PROVIDING AN AUTOMATIC SHIFTING OF GEAR IN A BICYCLE AND METHOD THEREOF

(51) International classification	:B62M 25/00, B62M 9/04, B62M 9/123, B62M 9/133, F16H 1/02, G06N 20/00	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
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Filing Date	:NA	
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Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM FOR PROVIDING AN AUTOMATIC SHIFTING OF GEAR IN A BICYCLE AND METHOD THEREOF
The present invention discloses a machine learning (ML) based system 100 for providing an automatic shifting of gear in a bicycle. The machine learning (ML) based system 100 comprises an electronic unit 104, a plurality of sensors 110, an analysing module 112, a gear transmission unit 114, and a data training module 120. The machine learning (ML) based system 100 automatically shifts the gears according to the amount of stress the user wants to experience throughout his journey. The machine learning (ML) based system 100 also shifts the gears according to one or more cycling conditions. This may be achieved using trained a deep learning model for giving output to maintain the gear ratio to keep stress on the user within a specified range. The at least one cycling mode comprises, but not limited to, an automatic gear-shifting mode, a rider-based learning mode, and a manual mode. FIG. 1

No. of Pages : 29 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031560 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HOLTER DEVICE

(51) International classification	:A61B 050290, A61B 052760, A61N 013700, A61N 013720, G06K 096200	(71) Name of Applicant : 1)Eras Lucknow Medical College & Hospital Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)American University of Barbados 3)Mr. Mohsin Ali Khan 4)Mr. Zaw Ali khan 5)Ms. Kinza Zehra 6)Ms. Sarina Zehra
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Holter Device” is a Criteriontech developed a Holter Monitor to record electrical activity of the heart continuously for 24 hours or even longer while the patient is at home or away from a doctor. This device helps doctors in determining the cause of arrhythmia, heart palpitations, and other abnormal heart rhythms. In-built movement sensors to track precise heart activity. In-built alarm system during an emergency while it is connected to the application. Records patient's ECA at predetermined intervals. The system is connected to our remote monitoring dashboard. In the event of an emergency, the patient's data is automatically displayed on our dashboard, and an ambulance is dispatched to the patient immediately. Dedicated software/application for patient and doctors (Digi Doctor – for patient and MD for emergency while room doctors) (HIS - for OPD/Doctors).

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031561 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND DEVELOP OF ROBITIC BRIDGE

(51) International classification	:E01D 190200, E01D 190600, E01D 191200, E01D 210000, G03F 073200	(71) Name of Applicant : 1)Ashish kumar Address of Applicant :Departement :-Civil engineering Affiliation:- Tula's Institute, Dehradun, Uttarakhand, 248001, India. Dehradun ----- 2)Preeti Kumari 3)Ankita Vats 4)Divya 5)Ankur Name of Applicant : NA Address of Applicant : NA
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Our Invention “Design and develop of Robitic bridge” is a Invention presents the extension link assessment robot created in Korea. Two sorts of the link examination robots were created for link engineered overpasses and link remained span. The plan of the robot framework and execution of the NDT strategies related with the link review robot are examined. A survey on late advances in arising robot-based review advancements for span links and current scaffold link examination strategies is likewise introduced.

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031562 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ADVANCED OXYGEN CONCENTRATOR

(51) International classification	:A61M 160000, A61M 160600, A61M 161000, B01D 530400, B01D 530470	(71) Name of Applicant : 1)Eras Lucknow Medical College & Hospital Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)American University of Barbados 3)Mr. Mohsin Ali Khan 4)Mr. Zaw Ali khan 5)Ms. Kinza Zehra 6)Ms. Sarina Zehra Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Advanced Oxygen Concentrator” is a Criteriontech has developed an innovative oxygen concentrator that offers exceptional patient care support. With our concentrator, patients can receive oxygen of 93% purity, thanks to the automatic flow control valve that delivers precise amount of oxygen with every inhalation and exhalation. Our technology represents a significant advancement in oxygen therapy, providing patients with a more personalized and effective treatment option. Provides Oxygen purity of 93% ($\pm 3\%$). Provides oxygen flow according to the patient’s saturation level. Integrated Automatic Flow Control Valve for oxygen delivery. Respiration measurement sensor that accurately measures a patient’s respiration rate both during inhalation and exhalation. Respiration sensor technology enables us to enhance the purity of oxygen delivery for patients. We can provide oxygen to the patient in Pulse Mode with better accuracy. We can integrate our system with our Software/App and check the data of patients in real time. Doctors can monitor real-time data of SpO₂, oxygen purity, respiration rate & flow rate. Flow of oxygen can be monitored through HIS and RMD Dashboard.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031563 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC EXHAUST SYSTEM

(51) International classification	:A61M 051400, B60K 130400, F01N 032000, F01N 131800, F24F 070600	(71) Name of Applicant : 1)Eras Lucknow Medical College & Hospital Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)American University of Barbados 3)Mr. Mohsin Ali Khan 4)Mr. Zaw Ali khan 5)Ms. Kinza Zehra 6)Ms. Sarina Zehra Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Automatic Exhaust System” is a Criterion Tech has developed a state-of-the-art automatic exhaust system designed to improve air exchange and create a healthier environment in both residential and commercial settings. Our system is equipped with advanced sensors that continuously monitor air quality, removing fumes and other impurities for optimal indoor air quality. The system's automatic ON/OFF feature ensures that users can maintain a fresh air circulation in their desired area without having to worry about manually turning the system on and off. In addition, our system can be controlled through Alexa, providing users with the convenience of remotely controlling their exhaust system via the internet. Overall, our technology represents a significant advancement in creating a more comfortable and healthier indoor environment. Integrated with App and Alexa Device. Automatic ON/OFF system. Fume/Smoke sensor integrated with the system. Status of exhaust can be monitored regularly. Maintains fresh air/exchange air circulation as per requirement. Integrated Temperature/Smoke sensor in the system (For kitchen).

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2023

(21) Application No.202311023305 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A DEVICE FOR ELECTROMAGNETIC SENSING, SHIELDING AND RCS REDUCTION

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(51) International classification :G01S 074100, G01V 033800, G06F 030460,
G06Q 100800, H01L 235520

(86) International Application No :NA

Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA

Application Number :NA

Filing Date :NA

(62) Divisional to Application :NA

Number :NA

Filing Date :NA

(57) Abstract :

The present invention discloses, a thin nona-band metasurface absorber (100) with unit cell dimensions of $0.038\text{o} \times 0.038\text{o} \times 0.019\text{o}$ is designed on a FR-4 substrate (118) of 1.0mm thickness with $35\mu\text{m}$ copper cladding. In TE/TM mode, the absorbance is greater than 99% at the intended frequency (119) bands (i.e., 5.76, 8.6, 12.68, 14.38, 17.05, 17.94, 19.20, 20.88 and 22.62 GHz), and its reflectivity is almost zero (120). Results indicated that the metasurface absorber (121) is found independent on the angles of polarization of the incident wave (0° – 45°) (122). The use of MSAs can offer a number of benefits in antenna design including RCS reduction (158) by 10dBm2 and gain enhancement (171) through proper positioning of MSA, making them a useful tool in a variety of applications.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/04/2023

(21) Application No.202311026057 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A MORTAR AND METHOD OF PREPARATION THEREOF

(51) International classification	:C04B 16/06, C04B 24/00, C04B 24/38, C04B 28/00	(71)Name of Applicant : 1)SHARDA UNIVERSITY Address of Applicant :Plot No. 32-34, Knowledge Park 3, Greater Noida, 201310, Uttar Pradesh (UP), India (IN) Greater Noida ----- -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Nishant Kumar
(61) Patent of Addition to Application Number	:NA	Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32-34, Knowledge Park 3, Greater Noida, 201310, Uttar Pradesh (UP), India (IN) Greater Noida ----- -----
Filing Date	:NA	2)Sunil Kumar Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32-34, Knowledge Park 3, Greater Noida, 201310, Uttar Pradesh (UP), India (IN) Greater Noida ----- -----
(62) Divisional to Application Number	:NA	3)Dr. Sufyan Ghani Address of Applicant :Department of Civil Engineering, Sharda University, Plot No. 32-34, Knowledge Park 3, Greater Noida, 201310, Uttar Pradesh (UP), India (IN) Greater Noida ----- -----
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(57) Abstract :

ABSTRACT A MORTAR AND METHOD OF PREPARATION THEREOF The present invention relates to improved heat resistant mortar and methods of preparation thereof. The mortar comprises of cement, sand, crushed rubber powder, water, bagasse ash; and linseed oil. The method comprises preparing a mortar mix of cement, sand, crushed rubber powder, applying the mortar mix on the desired surface and coating the mortar surface with a layer of bagasse ash mixed with linseed oil. Fig. 1

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202311032462 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR SUSTAINED AND CONTROLLED RELEASE OF NORFLOXACIN USING A BIOCOMPATIBLE MOF BASED DRUG DELIVERY SYSTEM

(51) International classification	:A61K 090000, A61K 314960, A61K 476200, A61K 476400, A61P 250200	(71) Name of Applicant : 1)Central University of Haryana Address of Applicant :Central University of Haryana Jant-Pali Mahendergarh ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
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(87) International Publication No	: NA	2)Anindita Chakraborty Address of Applicant :Department of Chemistry Central University of Haryana Jant-Pali, Mahendergarh 123031 Mahendergarh -----
(61) Patent of Addition to Application Number	:NA	3)Prakash Kanoo Address of Applicant :Department of Chemistry Central University of Haryana Jant-Pali, Mahendergarh 123031 Mahendergarh -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present investigation is a conceptually new approach to deliver Norfloxacin (NFX), by loading the drug molecule on the porous platform of a biocompatible MOF, MIL-100(Fe). Controlled experiments resulted in high loading of the drug molecule (20 wt%) along with desired sustained release. We could further control the release of norfloxacin by coating the drug loaded MIL-100(Fe) with PEG, PEG{NFX@MIL-100(Fe)}. Both the Drug Delivery Systems (DDSs), NFX@MIL-100(Fe) and PEG{NFX@MIL-100(Fe)}, were tested for their biocompatibility through toxicity studies. The DDSs are biocompatible and shows insignificant cytotoxicity as revealed by cell viability studies through MTT assay.

No. of Pages : 23 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202311032469 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REAL TIME VIDEO SURVILLANCE SYSTEM AND METHOD FOR VIDEO SURVILLANCE IN DENSE ENVIRONMENT WITH DENSE CAPTIONING

(51) International classification	:G06K 096200, H04N 193100, H04N 194360, H04N 212330, H04N 214880	(71) Name of Applicant : 1)Quantum University Address of Applicant :Quantum University, Roorkee- 247167, Uttarakhand, India Roorkee -----
(86) International Application No	:NA	2)QU Innovation Council Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Mr. Himanshu Tyagi Address of Applicant :PhD Scholar, Computer Science & Engineering, Quantum University, Roorkee-247167, Uttarakhand, India Roorkee -----
(87) International Publication No	: NA	2)Prof. (Dr.) Vivek Kumar Address of Applicant :Vice Chancellor, Computer Science & Engineering, Quantum University, Roorkee-247167, Uttarakhand, India Roorkee -----
(61) Patent of Addition to Application Number	:NA	3)Dr. Gaurav Kumar Address of Applicant :Associate Professor, Dept of ECE, Alliance College of Engineering and Design, Alliance university, Bengaluru-562106, Karnataka, India Bengaluru -----
Filing Date	:NA	-
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT REAL TIME VIDEO SURVILLANCE SYSTEM AND METHOD FOR VIDEO SURVILLANCE IN DENSE ENVIRONMENT WITH DENSE CAPTIONING The present disclosure discloses a video surveillance system (100) comprising an image-capturing module (102) configured to capture multiple video frames an object detection and recognition module (104) configured to detect and recognize objects in real-time, a dense captioning module (106) configured to analyse a detailed information of the captured video frame and an alert generator module (108) configured to generate an alert about any unusual activity to a user, characterized that the video surveillance system (100) is configured to provide real-time video surveillance in crowded environments to enhance security. FIG. 1

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202311032061 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SOLAR TREE FOR GENERATING ELECTRICAL ENERGY FROM SOLAR RAYS

(51) International classification	:A61P 350000, F24S 202000, F24S 233000, H02J 073500, H02S 101200	(71) Name of Applicant : 1)UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN Address of Applicant :Village Bidholi, via Prem Nagar, Dehradun, Uttarakhand, 248007, India Dehradun ----- ---
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)PROF. YOGESH CHANDRA GUPTA Address of Applicant :Department of Electrical and Electronics Engineering, School of Advanced Engineering, University of Petroleum and Energy Studies, Dehradun Dehradun ----- -----
(61) Patent of Addition to Application Number	:NA	2)AJAY DHIMAN Address of Applicant :Department of Electrical and Electronics Engineering, School of Advanced Engineering, University of Petroleum and Energy Studies, Dehradun Dehradun ----- -----
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A solar tree (100), for generating an electrical power comprises a pole (102) attached to a base (101); a plurality of branches (103) extending from the pole (102); a plurality of leaves (104) extending from each of the plurality of branches (103), wherein each of the plurality of leaves (104) comprising a solar panel (105) and a battery storage unit (111) coupled to each of the plurality of leaves (104) and configured to be housed in the base (101). Further, each of the plurality of leaves (104) is designed in a shape of a maple leaf and the plurality of leaves (104) are arranged in each of the plurality of branches (103) are arranged to form a triangular shape (212). Additionally, the solar tree (100) comprising a wind turbine assembly (107), supported by the pole (102), wherein the battery storage unit (111) is coupled to the wind turbine assembly (107). Figure 1

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202311032107 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED WATER TESTING SYSTEM USING ADVANCED STATISTICAL ANALYSIS FOR IMPROVED WATER QUALITY MONITORING AND REPORTING

(51) International classification	:C02F 010000, C02F 090000, G01N 331800, G02B 213600, H04N 191760	(71) Name of Applicant : 1)Dr. Surabhi Singh Address of Applicant :Head of Department, Career Point University, Kota, Rajasthan - 325003 Kota ----- 2)Atharv Chaudhary 3)Kritik Chaudhary Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Dr. Surabhi Singh Address of Applicant :Head of Department, Career Point University, Kota, Rajasthan - 325003 Kota ----- 2)Atharv Chaudhary Address of Applicant :B. Tech (VIII Semester), Flat No-55, Fifth Floor, Panchmeni Tower, Panchsheel Nagar, Near Collectorate, Chhindwara, Madhya Pradesh - 480001 Chhindwara ----- 3)Kritik Chaudhary Address of Applicant :B-Tech (IVth Semester), Type 3/122, North Estate Ordnance Factory, Muradnagar, Ghaziabad, Uttar Pradesh - 201206 Ghaziabad -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to automated water testing system using advanced statistical analysis is described that provides improved water quality monitoring and reporting capabilities. The system includes a plurality of sensors for measuring water quality parameters such as pH, temperature, dissolved oxygen, and other key indicators. The sensor data is collected and analyzed using advanced statistical algorithms to identify trends, anomalies, and other patterns in the water quality data. The system is designed to continuously monitor water quality and provide real-time alerts and notifications when parameters fall outside of acceptable levels. The data is also used to generate comprehensive reports and visualizations that can be used by water managers, regulators, and other stakeholders to make informed decisions about water quality.

No. of Pages : 7 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202311032113 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE-BASED SYSTEM FOR ASTROLOGICAL PREDICTIONS

(51) International classification	:G08G 010100, G16B 401000, G16H 304000, G16H 502000, H04W 163200
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention provides an artificial intelligence-based system for astrological predictions. The system includes a machine learning algorithm that utilizes data analysis techniques and astrological principles to generate accurate predictions of future events. The system can be used for personal or commercial purposes, such as horoscope generation, astrological consultation, and financial forecasting.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202311032129 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TRANSCRANIAL DIRECT CURRENT STIMULATION WITH MULTISENSORY FEEDBACK

(51) International classification	:A61B 080000, A61M 210000, A61N 010400, A61N 012000, A61N 013600	(71) Name of Applicant : 1)Sharda University Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
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(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)KUMARI, Khushboo Address of Applicant :PhD Scholar, Department of Physiotherapy, School of Allied Health Sciences, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----
Filing Date	:NA	2)KUMAR, Bhuvnesh Address of Applicant :Research Dean, Research Development Cell, Sharda University, Plot No. 32, 34, Knowledge Park III, Greater Noida - 201310, Uttar Pradesh, India. Greater Noida -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a system for trans-cranial direct current (tDCS) stimulation with multisensory feedback may include a multisensory feedback unit that provides any one or combination of visual stimuli, auditory stimuli and haptic stimuli, one or more electrodes that record electrical activity of a patient's brain, and an electric stimulation unit that controllably excite or inhibit electrical activity in the brain. The system may also include a control unit configured to actuate the multisensory feedback unit to provide one or more stimuli to the patient, and actuate the electric stimulation unit to send either excitatory or inhibitory electric current to the brain based on whether the electrical activity recorded by the one or more electrodes matches with a desired electrical pattern.

No. of Pages : 32 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033062 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PHARMACEUTICAL COMPOSITION OF STABLE LIPOSOMAL FORMULATIONS OF DOXORUBICIN FOR TARGETED CANCER THERAPY

(51) International classification	:A61K 091270, A61K 311200, A61K 313370, A61K 317040, A61P 350000	(71) Name of Applicant : 1)Dr. Mahesh Kumar Gupta Address of Applicant :Dean and Principal, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 2)Debashis Purohit 3)Raghuvendra Singh 4)Bulbul Kumari 5)Manvendra Singh 6)Ashish Kumar 7)Ankit Shukla Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Dr. Mahesh Kumar Gupta Address of Applicant :Dean and Principal, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 2)Debashis Purohit Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 3)Raghuvendra Singh Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 4)Bulbul Kumari Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 5)Manvendra Singh Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 6)Ashish Kumar Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- ----- 7)Ankit Shukla Address of Applicant :Research Scholar, Career Point School of Pharmacy, Career Point University, Kota, Rajasthan, Pin Code: 325003 ----- -----
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The Present invention relates to the development of a stable liposomal formulation of doxorubicin for targeted cancer therapy. The formulation consists of doxorubicin hydrochloride, a phospholipid component, and a sterol component. By encapsulating doxorubicin within a liposomal carrier, the formulation aims to improve drug efficacy while reducing adverse effects. The formulation was evaluated through in vitro and in vivo tests to determine its stability, drug release profile, safety, and efficacy. Results indicate that the liposomal formulation has a favorable pharmacokinetic profile, improved efficacy, and stability under various storage conditions. The invention provides a novel and effective method for delivering doxorubicin to tumor tissues while minimizing the risk of adverse effects, enabling it to be produced at scale for cancer treatment.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033063 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SMART DEVICE FOR PLANT DISEASE DETECTION USING TRANSFER LEARNING TECHNIQUE

(51) International classification :G05B 230200, G06K 096200, G06T 070000,
H04L 124600, H04L 612521

(86) International Application No:NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA
Application Number :NA

Filing Date :NA

(62) Divisional to Application :NA
Number :NA

Filing Date :NA

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(57) Abstract :

The present invention relates a smart device (100) for plant disease detection using transfer learning technique. The smart device (100) comprises a data collecting unit, an analyzing unit, a pre-trained model library and a user interface unit. The data collecting unit comprises a camera for capturing images of plants, a processor for executing software instructions, and a memory for storing data and software components. The analyzing unit comprises an image processing module for enhancing the quality of the captured images, a feature extraction module for extracting features from the captured images, and a classification module for classifying the extracted features. The user interface unit is configured to display the output of the classification module.

No. of Pages : 12 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033082 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR MANAGING GRIEVANCES USING BLOCKCHAIN

(51) International classification :G06N 200000, G06Q 200600, H04L 090600, H04L 090800, H04L 093200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to a grievance managing system (100) that utilizes a decentralized database connected over a blockchain network to manage and track grievances from multiple entities. The system (100) includes an artificial intelligence engine (102) communicatively coupled with the decentralized database to receive and store grievances, update their status, and transmit notifications to associated computing devices. The system ensures authenticity of entities and stores grievances securely using SHA256 hash technique. The AI engine prioritizes grievances based on severity and impact on the associated entity, while higher authorities generate responses that are stored on the decentralized database for reference. The system provides an efficient and transparent approach to managing grievances while preventing misuse and ensuring accountability.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033083 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EIGHT-PORT MIMO ANTENNA FOR IOT APPLICATIONS

(51) International classification :H01Q 013800, H01Q 015200, H01Q 212800, H04B 070413, H04B 070600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure relates to an eight-port super wideband MIMO antenna on FR4 substrate for internet-of-things applications. The antenna is designed to operate across a broad frequency range, including multiple wireless standards such as GSM, 3G, 4G, and WiFi, making it versatile and suitable for various IoT devices and applications. The antenna design uses eight-port antenna elements to achieve MIMO technology, enabling it to transmit and receive data from multiple devices simultaneously, improving system capacity and throughput. The antenna exhibits excellent radiation efficiency, gain, and pattern characteristics, ensuring reliable and robust wireless communication in various environments and scenarios. The antenna has an Envelope Correlation Coefficient (ECC)<0.025, Directive Gain (DG)>9.995dB, Total Active Reflection Coefficient (TARC)<-40dB and Channel Capacity Loss (CCL)<0.30b/s/Hz in the entire operating band (2.85GHz-20.0GHz).

No. of Pages : 36 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033111 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SECURE COMMUNICATION AND CLASSIFICATION FOR DRONE-ENABLED EMERGENCY MONITORING SYSTEMS

(51) International classification :G06K 096200, G06N 030000, G06N 030800, G06N 050000, G06N 200000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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Address of Applicant :Assistant Professor, Department of Engineering and Technology, Gurugram University, Gurugram, Haryana, 122001, India -----

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Address of Applicant :Assistant Professor, Department of Engineering and Technology, Gurugram University, Gurugram, Haryana, 122001, India -----

(57) Abstract :

ARTIFICIAL INTELLIGENCE AND MACHINE LEARNING BASED SECURE COMMUNICATION AND CLASSIFICATION FOR DRONE-ENABLED EMERGENCY MONITORING SYSTEMS ABSTRACT This invention belongs to the field of AI and ML and its utility is to enable the Secure Communication and Classification for Drone-Enabled Emergency Monitoring Systems. For emergency catastrophe monitoring circumstances, the technology primarily uses encryption and classification models. The two stages of the AISCC-DE2MS paradigm are image categorization and encryption. The AISCC-DE2MS model achieves security at the outset by combining an ECC-Based ElGamal Encryption approach with an Artificial Gorilla Troops Optimizer (AGTO) algorithm. The AISCC-DE2MS model uses long short-term memory (LSTM)-based classification, penguin search optimisation (PESO)-based hyperparameter tuning, and densely connected network (DenseNet) feature extraction to categorise emergency situations.

No. of Pages : 8 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033129 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IOT BASED TRANSIT VEHICLE SAFETY AND SECURITY MONITORING AND CONTROLLING SYSTEM AND METHOD THEREOF

(51) International classification	:G08B 131960, G08B 250000, G08B 251000, H04W 049000, H04W 080000	(71) Name of Applicant : 1)Graphic Era (Deemed to Be University) Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Saksham Mittal Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----
(87) International Publication No	: NA	2)Dr. Mohammad Wazid Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----
(61) Patent of Addition to Application Number	:NA	3)Dr. Devesh Pratap Singh Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun -----
Filing Date	:NA	----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the IoT based transit vehicle safety and security monitoring and controlling system. The IoT based transit vehicle safety and security monitoring and controlling system comprised of a video monitoring module for capturing real time multimedia of every spot, entry and exit point in a transit vehicle. The video monitoring module further comprising at least four IoT driven wireless camera positioned in preferred location in said transit vehicle. A wireless sensor unit for monitoring plurality of dynamic parameter in the transit vehicle. The sensor unit further comprised of a temperature sensor, a smoke sensor, a humidity sensor, an air quality sensor, a passenger identity detection unit, a driver identity authorization module, a harsh braking sensor, and a luminosity sensor.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311033133 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR CALCULATION OF TOTAL DISSOLVED SOLIDS IN WATER INSIDE WATER PURIFICATION UNIT

(51) International classification	:C02F 010000, C02F 011400, C02F 012800, C02F 014200, C02F 090000	(71) Name of Applicant : 1)Sharda University Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)SHARMA, Sudhanshu Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- 2)KHALID, Kabir Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- 3)SWAIN, Debashish Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- 4)THAPLIYAL, Anubhav Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- 5)KUMAR, Pranjal Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida ----- 6)PRIYADARSHINI, Rashmi Address of Applicant :Plot No. 32-34, Knowledge Park-III, Greater Noida - 201310, Uttar Pradesh, India Greater Noida -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (300) is disclosed for calculation of TDS in water inside water purification unit. The system (300) includes PCB (314), and pair of rods (312) connected to PCB (314), rods (314) positioned at a predetermined gap from each other, submerged in the water to sense conductivity value thereof. Voltage divider circuit (VDC) (304) is mounted on PCB (314), which reduces potential difference across rods (312) and converts conductivity value received from rods (312) into analogue signal. Control unit (306) is mounted on PCB (314) and connected to VDC (304). Control unit (306) receives analogue signal from the VDC (304), processes the analogue signal to obtain a value indicative of the amount of TDS in the water, compares the value to threshold value, and triggers an indicator device when the value is greater than the threshold value.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033150 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DYSLEXIA DETECTION AND LEARNING IMPROVEMENT IN DYSLEXIA SUBJECT

(51) International classification	:A61P 090000, A61P 250000, A61P 251600, A61P 252200, G09B 170000	(71)Name of Applicant : 1)Amandeep Kaur Address of Applicant :205, Soft Computing and Computer Vision Lab, Department of Computer Science and Technology, Aryabhata Academic Block, Central University Punjab, Bathinda, Punjab, India, Pin code: 151401 Bathinda -----
(86) International Application No	:NA	2)Parvinder Singh Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	3)Jayanti Singh Address of Applicant :215, Quantum Information Processing and Security Lab, Department of Computer Science and Technology, Aryabhata Academic Block, Central University Punjab, Bathinda, Punjab, India Pin code: 151401 Bathinda -----
(87) International Publication No	: NA	4)Paramjeet Singh Address of Applicant :205, Soft Computing and Computer Vision Lab, Department of Computer Science and Technology, Aryabhata Academic Block, Central University Punjab, Bathinda, Punjab, India Pin code: 151401 Bathinda -----
(61) Patent of Addition to Application Number	:NA	5)Satnam Singh Address of Applicant :Department of Information Technology and Communication Panchayat Samiti Padampur, District Sri Ganganagar, Rajasthan, India Pin code: 335041 Sri Ganganagar -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR DYSLEXIA DETECTION AND LEARNING IMPROVEMENT IN DYSLEXIA SUBJECT The present disclosure relates to a system (100) and a method (500) for detecting dyslexia and improving learning of complex India language such as Hindi for a subject having dyslexia. The system (100) is configured to monitor eye movements, finger motion, and audio input of the subject while reading a text displayed on a screen. If the subject faces difficulty or is unable to read the text, the system (100) and the method (500) thereof assists in improving the subject by changing text and various other features of a particular text until the subject improves in learning of the language. Figure 1, Figure 5D

No. of Pages : 31 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033594 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN EFFECTIVE RISK ASSESSMENT SYSTEM FOR E-COMMERCE IN CLOUD COMPUTING WITH BIG DATA APPROACH TO NETWORK SECURITY

(51) International classification :G06F 011800, G06F 012000, G06Q 100600, G06Q 300600, H04L 671000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Dr. Saroj Bala

3)Ankita Rani

4)Ashish Dixit

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6)Mahendra Kumar Sonker

Name of Applicant : NA

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Address of Applicant :Associate Professor, Department of Computer Science & Engineering, KCC Institute of Technology & Management, Greater Noida -----

(57) Abstract :

The present invention relates to an effective risk assessment system for e-commerce in cloud computing with a big data approach to network security. The system provides an automated and proactive risk assessment mechanism to ensure the security of e-commerce transactions in the cloud. The system utilizes a big data approach to analyze and evaluate various parameters to identify potential risks and provide recommendations for remediation. The system also includes a feedback mechanism to update the risk assessment algorithm based on the effectiveness of the remediation.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033601 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BUILDING TRUST AND SECURITY IN SUPPLY CHAIN MANAGEMENT WITH BLOCKCHAIN TECHNOLOGY

(51) International classification	:G06F 216400, G06Q 100600, G06Q 100800, H04L 090600, H04L 093200	(71)Name of Applicant :
(86) International Application No Filing Date	:NA :NA	1)Dr. Surendra Pratap Singh Kothari Address of Applicant :Assistant Professor, Department of ABST (Commerce), S. S. Jain Subodh PG Autonomous College, Ramagh circle, Jaipur -----
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(61) Patent of Addition to Application Number Filing Date	:NA :NA :NA	Name of Applicant : NA Address of Applicant : NA
(62) Divisional to Application Number Filing Date	:NA :NA	(72)Name of Inventor : 1)Dr. Surendra Pratap Singh Kothari Address of Applicant :Assistant Professor, Department of ABST (Commerce), S. S. Jain Subodh PG Autonomous College, Ramagh circle, Jaipur ----- 2)Dr. D. Saravanan Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai- 600119 ----- 3)Mr. S. Vignesh Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai- 600119 ----- 4)Mr. R. Rahin Batcha Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai- 600119 ----- 5)Mr. Vijay Ramalingam Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Sathyabama Institute of Science and Technology (Deemed to be University), Jeppiaar Nagar, Rajiv Gandhi Salai, Chennai- 600119 ----- 6)Dr. G. Arunkumar Address of Applicant :Associate Professor, Department of Computer Science & Engineering, Madanapalle Institute of Technology & Science, Madanapalle, Chittoor ----- 7)Dr. Muktak Vyas Address of Applicant :Professor, FMC, Poornima University, Jaipur, T-1, 23, Redwood Apartment, Opposite Ashadeep Enclave, Behind Asian Cancer Hospital, Shri Kishanpura, Jaipur ----- 8)Prof. (Dr.) Gaurav Malpani Address of Applicant :Professor, 120, Vasundhara Colony, Tonk Road, Jaipur ----- --- 9)Prof. (Dr.) Monika Khatri Address of Applicant :Professor, Faculty of Management and Commerce, 134 Gurunanak Pura, Rajapark, Jaipur ----- 10)Dr. Urvashi Bhamboo Address of Applicant :Professor and Head of Department (MBA), A-206, Shiv Shakti Nagar, Jagatpura Road, Malviya Nagar, Jaipur -----

(57) Abstract :

The proposed invention is a supply chain management solution that leverages blockchain technology to build trust and security within the supply chain process. By utilizing a decentralized and transparent framework, it enhances transparency, traceability, and reliability. The system assigns unique identifiers to products and records their movements on the blockchain, enabling efficient tracking and verification. Smart contracts automate processes, reducing manual intervention and improving operational efficiency. The invention fosters trust among participants by providing a verifiable and tamper-proof record of transactions. It enhances supply chain visibility, streamlines logistics, and enables efficient compliance with regulations. The solution empowers consumers to verify product authenticity and origin, promoting responsible practices. Interoperability, standardized protocols, and robust security measures ensure successful implementation. Overall, the proposed invention transforms supply chain management by fostering transparency, trust, and security in the global supply chain ecosystem.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033670 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ELECTRIC AROMA DIFFUSER DEVICE

(51) International classification	:A61L 090300, A61L 091200, B05B 012600, B05B 030000, B05B 030400	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(86) International Application No	:NA	2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)BALI, Nishu Address of Applicant :Department of Computer Application, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(87) International Publication No	: NA	2)CHAUDHARY, Deepika Address of Applicant :Department of Computer Application, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(61) Patent of Addition to Application Number	:NA	3)SINGLA, Anshu Address of Applicant :Department of Computer Science and Engineering, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
Filing Date	:NA	4)SINGH, Jaiteg Address of Applicant :Department of Computer Application, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(62) Divisional to Application Number	:NA	5)DAHIYA, Neelam Address of Applicant :Department of Computer Application, CUIET, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
Filing Date	:NA	

(57) Abstract :

An electric aroma diffuser device 100 includes a housing 102, an insulator layer 108, an electric plug unit 110, and an aroma diffuser unit 114. The housing 102 is adapted to receive a holding tray 104 attached to a top end of the housing 102. The holding tray 104 is configured to accommodate a set of incense. The heating element 106 disposed beneath the holding tray 104 to emit heat energy to heat the set of incense to generate fragrance and disperse in the surrounding area. The aroma diffuser unit 114 is configured to facilitate the user to adjust the direction of fragrance. The control unit 116 is configured to monitor one or more indicative parameters of the electric aroma diffuser device 100. The insulator layer 108 radially disposed on the housing 102 to retain the heat within to provide easy handling to a user.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033673 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM TO DETECT INTRUSION AND ACCESS OF CONFIDENTIAL INFORMATION BY UNAUTHORIZED USERS IN A NETWORK

(51) International classification	:G06F 215700, G06F 216200, G06Q 201000, G08B 131860, H04L 090600	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----- 2)Bluest Mettle Solutions Private Limited Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	1)MISHRA, Rahul Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
(87) International Publication No	: NA	2)SINGH, Dhiraj Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune -----
(61) Patent of Addition to Application Number	:NA	3)SHARMA, Ishu Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an intrusion detection system (100) and method (300) that includes a processor (102) and memory (104) that execute a set of instructions to detect various forms of network intrusion. The system downloads an SSL certificate, extracts information from it, compare it to a trusted local copy, and detects seized networks, wildcard certificates, and subject alternative names with DNS entries. Additionally, the system records signal strength indicator data and declare a rogue access point if there are discrepancies in the received RSSI values. The processor (102) also generates an alert and transmits the alert in real-time to security personnel computing devices (114). The system correspondingly performs at least one action to prevent the impact of detected intrusion and unauthorized access.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2023

(21) Application No.202311028821 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : UNMANNED AERIAL VEHICLE

(51) International classification	:B64C 1/30, B64C 3/54, B64C 3/56	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Anubhav Mishra Address of Applicant :Department of Design, IIT Kanpur, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur ----- 2)Nachiketa Tiwari Address of Applicant :Department of Design, IIT Kanpur, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT UNMANNED AERIAL VEHICLE The present invention discloses an unmanned aerial vehicle (UAV). The unmanned aerial vehicle (UAV) (100) comprises a plurality of primary links (102), a plurality of motor arms (106), one or more primary actuator units (112), a plurality of load cells (134), a plurality of secondary links (140), a plurality of potentiometers (142), a controller, and a slider plate (144). The unmanned aerial vehicle (UAV) (100) is adapted to transform into one or more configurations during flight. The unmanned aerial vehicle (UAV) (100) is equipped with a plurality of load cells (134) and grippers (136) to hold a payload (138). The unmanned aerial vehicle (UAV) (100) changes its shape to navigate through tight spaces or around obstacles, making them more manoeuvrable. The unmanned aerial vehicle (UAV) (100) is used for search and rescue operations in tight or cluttered spaces, or for inspecting complex infrastructure comprises collapsed structures, caves, and underground operations. FIG. 1

No. of Pages : 34 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2023

(21) Application No.202311028936 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PORTABLE MEDICAL SUCTION DEVICE

		<p>(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -----</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Mubashir Ali Address of Applicant :Department of CEAF MedTech Lab, IIT Kanpur, IIT Kanpur, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh – 208016, India Kanpur -----</p> <p>2)Janakarajan Ramkumar Address of Applicant :Department of Mechanical Engineering, IIT Kanpur, Post Office: IIT Kanpur, Kanpur, Uttar Pradesh - 208016, India Kanpur -----</p> <p>3)Rajan Bhargava Address of Applicant :702, Mansarovar, 7/90-D , Tilak Nagar, Kanpur, Uttar Pradesh -208002, India Kanpur -----</p>
(51) International classification	:A61M 1/00	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT PORTABLE MEDICAL SUCTION DEVICE The present invention discloses a portable medical suction device. The portable medical suction device 100 comprises a housing 102, a suction generating unit 104, a suction container 120, and a suction probe 118. The portable medical suction device 100 is adapted to provide optimal suction pressure to remove body waste from the cavities of a human body. The body wastes comprise one of an ear wax, mucous, vomit, or gastric secretions from the oropharynx. The portable medical suction device 100 is lightweight and easy to carry, making it convenient for use in various clinical settings, including in the field or at home. The portable medical suction device 100 is used for both earwax removal and oropharyngeal suction, making it a versatile tool for healthcare providers. FIG. 1

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/04/2023

(21) Application No.202311028966 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR COMPARING COURSES ON MULTIPLE EDTECH PLATFORMS USING META SEARCH WEBSITE TOOL

(51) International classification :A61K 471400, A61K 474600, H04N 131170, H04N 132610, H04N 218543
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant : NA

(72)Name of Inventor :

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(57) Abstract :

ABSTRACT . , I . , iVIE:I!HOD FOR COH'AI{INC 'cour:SES ON MULTIPLE EDTECH PLATFORMS USINC,:;:M.EtA SEARCH WEBSITE - rOOL . I Excn1pla;·y embodi;ncnts of lhe prsent disclosurC are directed towards :1 method lln- cum paring courses nn multiple edtech platform;: using meta search wchsih: tool co111prising steps of choosing the languag": tillc and level of th,: courst.: on the website tool by a user. At next step, obtaining the search results from the wbsite tunl. At next stq1, collecting mel"adara from the search results. At next step. processing and storing mdadata in a database. 1\1 next step, organizing allll analyzing n1etadat;a; ami at next step, preseming the analyzed metaclata to the::: user ll) tale an informed decision about· which course best suits the user's requirenJcnts.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/04/2023

(21) Application No.202311028993 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "BRAIGON : A BRAIN GAME"

(51) International classification	:A63F 132145, A63F 132400, A63F 133500, A63F 135200, A63F 135500	(71) Name of Applicant : 1)Graphic Era Hill University, Dehradun Campus Address of Applicant :510, Society Area, Clement Town, Dehradun – 248002, Uttarakhand, India Dehradun ----- ---
(86) International Application No	:NA	2)Graphic Era Deemed To be University, Dehradun Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Parveen Dhoundiyal Address of Applicant :Student, Department of CSE, Graphic Era Hill University, Dehradun Dehradun ----- -----
(87) International Publication No	: NA	2)Dr. Satvik Vats Address of Applicant :Assistant Professor, Department of CSE, Graphic Era Hill University, Dehradun Dehradun ----- -----
(61) Patent of Addition to Application Number	:NA	3)Dr. Vikrant Sharma Address of Applicant :Assistant Professor, Department of CSE, Graphic Era Hill University, Dehradun Dehradun ----- -----
Filing Date	:NA	4)Mrs. Samriti Thakur Address of Applicant :W/O Dr. Vikrant Sharma, VPO. Ambari, near canal flour mills, Distt. Dehradun, Uttarakhand, India, PIN: 248125 Dehradun ----- -----
(62) Divisional to Application Number	:NA	5)Mrs. Priya Singh Address of Applicant :W/O Dr. Satvik Vats, H.No C-102/959A, Charphatak , Mohaddipur, Gorakhpur, UP-273008 Gorakhpur ----- -----
Filing Date	:NA	

(57) Abstract :

A game that uses circuitry to translate a player's brain activity to control the rotation of a circular spinning visual display. Two players competing against one another can play the game in one implementation, and the visual display can feature a number of shifting patterns.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032217 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ERGONOMIC CHAIR WITH INTEGRATED LUMBAR SUPPORT AND POSTURE CORRECTION

(51) International classification	:A47C 070200, A47C 074000, A47C 074600, A47C 090000, B60N 026600	(71) Name of Applicant : 1)Dr. Preeti Saini Address of Applicant :Assistant Professor, Department of Physiotherapy, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana - 121004, India Faridabad ----- 2)Dr. Kangana Juneja Kansal 3)Mukul Kaushik Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Dr. Preeti Saini Address of Applicant :Assistant Professor, Department of Physiotherapy, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana - 121004, India Faridabad ----- 2)Dr. Kangana Juneja Kansal Address of Applicant :Demonstrator, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana - 121004, India Faridabad ----- 3)Mukul Kaushik Address of Applicant :Research scholar, Manav Rachna International Institute of Research and Studies, Faridabad, Haryana - 121004, India Faridabad -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An ergonomic chair with integrated lumbar support and posture correction mechanism is disclosed. The chair includes a backrest with an adjustable lumbar support mechanism, a seat with an adjustable angle and depth, and a posture correction mechanism integrated into the backrest or armrests. The posture correction mechanism may include a pressure sensor, a camera or other imaging device, or a machine learning algorithm to monitor the user's posture and provide personalized feedback. The chair may also include adjustable armrests, a headrest, and a base with wheels or other support mechanisms. The chair's design provides proper support for the user's back and spine, promotes a healthy sitting posture, and provides personalized feedback to help the user maintain a healthy sitting position.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032221 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR ANALYZING THE CRISIS MANAGEMENT SYSTEM DEVELOPMENT IN COMPLEX ORGANIZATION

(51) International classification	:A23L 331000, A61K 316850, A61P 250400, G06Q 100600, G06Q 502600	(71) Name of Applicant : 1)Dr. Ashutosh Kumar Address of Applicant :Associate Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 2)Dr. Aditi Gaur 3)Dr. Sandeep Kumar 4)Ms. Richa Gulati 5)CMA Amit Goyal 6)Mr. Ravi Ranjan Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Dr. Ashutosh Kumar Address of Applicant :Associate Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 2)Dr. Aditi Gaur Address of Applicant :Associate Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 3)Dr. Sandeep Kumar Address of Applicant :Associate Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 4)Ms. Richa Gulati Address of Applicant :Assistant Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 5)CMA Amit Goyal Address of Applicant :Assistant Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 ----- 6)Mr. Ravi Ranjan Address of Applicant :Assistant Professor, School of Commerce and Management,Career Point University, N.H. 52, Alaniya Kota, Rajasthan, Pin Code: 325003 -----
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for analyzing the crisis management system development in complex organization. The method (100) comprises data collection from complex organization, obtaining information about the occurrence of crisis, acquiring and collecting threat information, and adopting and implementing solutions. The method (100) comprises following steps of: data collection from complex organization by using analysis of secondary data and primary data; obtaining information about the occurrence of crisis in complex organization; acquiring threat information and collecting threat information material; resolving the crisis issue using data science tools according to the acquired threat information; and adopting and implementing solutions to overcome the crisis in future.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032222 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS OF PREPARING PURE PHASE HIGH PERFORMANCE ANODE MATERIAL FROM SUGARCANE BAGASSE AND TUNING THE INTERPLANAR SPACING OF BIOMASS DERIVED HARD CARBON FOR NA-ION BATTERY APPLICATIONS

(51) International classification	:H01M 040200, H01M 045050, H01M 045250, H01M 045870, H01M 100540	(71) Name of Applicant : 1)INDIGENOUS ENERGY STORAGE TECHNOLOGIES PVT. LTD Address of Applicant :I-10, 2ND Floor, Tides Business Incubator, IIT Roorkee, Roorkee-247667 Roorkee ----- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)DR. NAGESH KUMAR Address of Applicant :HOUSE NO. 108A, E-BLOCK, PARAMOUNT TULIP, DELHI ROAD, SAHARANPUR, UTTAR PRADESH- 247001 TIRTOL ----- 2)DR. ASIT SAHOO Address of Applicant :VILLAGE POSHAL, TOWN DAINLO, TIRTOL, JAGATSINGHPURA, ODISHA- 754137 JAIPUR ----- -----
(87) International Publication No	: NA	3)MR. AKASH SONI Address of Applicant :58-A, VAN VIHAR COLONY, TONK ROAD, JAIPUR, RAJASTHAN – 302018 SAHARANPUR ----- -----
(61) Patent of Addition to Application Number	:NA	4)DR. NISHANT GOUTAM Address of Applicant :VILLAGE- KHAIDLANA, BLOCK-GANGOH, SAHARANPUR, UTTAR PRADESH- 247341, ROORKEE ----- 5)DR. YOGESH KUMAR SHARMA Address of Applicant :116/4, NIRMAN PATH, IIT ROORKEE, ROORKEE, UTTARAKHAND- 247667 SAHARANPUR ----- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a pure phase high-performance anode material from sugarcane bagasse for and its method of preparation thereof. The invention provides low cost, high yield, high performance, and stable electrode (anode) material for rechargeable metal-ion batteries. The pure phase hard carbon material is synthesized from sugarcane bagasse as high performance and stable anode material for Sodium ion batteries (SIBs). The invention also provides a process of tuning the interplanar spacing of biomass derived hard carbon and its impact on plateau capacity for Na-ion battery. Figures 1 and 2

No. of Pages : 30 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032228 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FORMULATION AND EVALUATION OF ETHANOLIC EXTRACT OF DICHAETANTHERA AFRICAN NANOEMULGEL FOR THE ASSESSMENT OF ANTI-INFLAMMATORY ACTIVITY

(51) International classification	:A01H 064400, A23L 331050, A61K 089789, A61P 290000, C07D 051000	(71) Name of Applicant : 1)Dr. Mohd Ruman Khan Address of Applicant :Professor, Department of Pharmacy, Rakshpal Bahadur College of Pharmacy, Bareilly ----- 2)Priya Thakur 3)Dr. R. L. Manisha 4)Ms. Snehal Dwarkanath Lad 5)Mr. Mahesh Bapurao Kshirsagar 6)Ghorpade Poonam Raosaheb 7)Nitin Mishra 8)Dr. Mohd Abid 9)Purnima Rai 10)Sudhanshu Kumar Jha Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72) Name of Inventor : 1)Dr. Mohd Ruman Khan Address of Applicant :Professor, Department of Pharmacy, Rakshpal Bahadur College of Pharmacy, Bareilly ----- 2)Priya Thakur Address of Applicant :Assistant Professor, Brahmaeine, Hanumanganj, Ballia, Uttar Pradesh ----- 3)Dr. R. L. Manisha Address of Applicant :Associate Professor, Malla Reddy College of Pharmacy, Maisammaguda, Medchal-Malkajgiri ----- 4)Ms. Snehal Dwarkanath Lad Address of Applicant :Assistant Professor, Shri Amolak Jain Vidya Prasarak Mandal's College of Pharmaceutical science and Reaserch Center Kada, Tal:- Ashti, Dist.:Beed ----- 5)Mr. Mahesh Bapurao Kshirsagar Address of Applicant :Assistant Professor, Shri Amolak Jain Vidya Prasarak Mandal's College of Pharmaceutical Science and Reaserch Center Kada, Tal:- Ashti, Dist.: Beed ----- 6)Ghorpade Poonam Raosaheb Address of Applicant :Assistant Professor, Shri Amolak Jain Vidya Prasarak Mandal's College of Pharmaceutical Science and Reaserch Center Kada, Tal:- Ashti, Dist.: Beed ----- 7)Nitin Mishra Address of Applicant :Assistant Professor, Department of Pharmacy, J.S. Singh Institute of Pharmacy, Sitapur, UP. (India) ----- 8)Dr. Mohd Abid Address of Applicant :Professor, Janta College of Pharmacy, Bijnor ----- 9)Purnima Rai Address of Applicant :Assistant Professor, City School of Pharmacy, Barabanki, Lakshvar, Vajaha, Uttar Pradesh 225412 ----- 10)Sudhanshu Kumar Jha Address of Applicant :Research Scholar, Maharshi Dayanand University, Rohtak, Haryana, India -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to a novel nanoemulgel composition comprising an ethanolic extract of Dichaeathera africana, a surfactant, a co-surfactant, a gelling agent, and a suitable carrier for topical application. The composition exhibits enhanced stability, skin penetration, and therapeutic efficacy compared to traditional anti-inflammatory agents. The nanoemulgel composition may be used in the treatment of various inflammatory disorders and autoimmune diseases. The invention also provides a process for preparing the nanoemulgel composition. The use of nanoemulsion technology in the formulation of the composition allows for efficient delivery of the ethanolic extract and improved bioavailability. The nanoemulgel composition of the present invention provides a safe and effective alternative to traditional NSAIDs for the management of inflammation. The present invention offers a valuable contribution to the field of pharmaceutical technology, providing a new approach to the treatment of inflammatory disorders.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033675 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : VACCINE SUPPLY CHAIN MANAGEMENT USING BLOCKCHAIN

(51) International classification	:A61K 390000, G06Q 100600, G06Q 100800, H04L 090600, H04L 093200	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----- 2)Bluest Mettle Solutions Private Limited Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)MISHRA, Rahul Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----- 2)PANDEY, Sakshi Address of Applicant :ODC-4, Panchshil Tech Park, inside Courtyard by Marriott premises, Hinjewadi Phase - 1, Pune - 411057, Maharashtra, India. Pune ----- 3)MITTAL, Ruchi Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a vaccine supply chain management system (100) that provides a secure and reliable solution for managing the vaccine supply chain and employs blockchain technology to monitor and record temperature, dry ice level, and location data of vaccine shipments. The system includes a decentralized database (112) connected to an AI engine (102) that uses sensors and trackers attached to each container to monitor and record the data on a blockchain network (104). The recorded data can be accessed by authorized entities through a user interface, allowing real-time tracking of vaccine shipments. The system also includes learning algorithms to detect deviations from predefined rules and conditions and a quality control module to ensure the integrity of vaccine shipments.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033715 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD TO ENABLE SHARDING IN A BLOCK CHAIN NETWORK

(51) International classification	:G06F 162200, G06F 162700, G06F 215600, G06Q 100600, H04L 671097	(71) Name of Applicant : 1)SACHIN KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN - 210310, UTTAR PRADESH, INDIA GREATER NOIDA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)SACHIN KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN - 210310, UTTAR PRADESH, INDIA GREATER NOIDA ----- 2)VAIBHAV TRIPATHI Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	3)JYOTIKA SINGHAL Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA ----- 4)VIJAY KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA -----
Filing Date	:NA	

(57) Abstract :

A system (10) to enable sharding in a block chain network (20) is disclosed. The system includes a processing subsystem (30) including an identification module associated with a plurality of nodes constituting the block chain network. The identification module identifies a predefined number of validator nodes from the plurality of nodes based on a plurality of parameters when a transaction is initiated between at least two nodes. The processing subsystem includes a validator module to enable the predefined number of validator nodes identified to validate the transaction initiated by a plurality of validation techniques by providing details of the transaction. The processing subsystem includes a management module to append a block corresponding to the transaction to the block chain network upon validating the transaction. The management module stores data corresponding to the transaction and a header of the block appended to the predefined number of validator nodes and the plurality of nodes excluding the predefined number of validator nodes respectively. FIG. 1

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202311033716 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND A METHOD FOR A CONSENSUS MECHANISM IN A BLOCK CHAIN NETWORK

(51) International classification	:G06F 216400, G06Q 100800, G06Q 203800, G06Q 400400, H04L 121800	(71) Name of Applicant : 1)SACHIN KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN - 210310, UTTAR PRADESH, INDIA GREATER NOIDA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)SACHIN KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN - 210310, UTTAR PRADESH, INDIA GREATER NOIDA ----- 2)VAIBHAV TRIPATHI Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA ----- 3)JYOTIKA SINGHAL Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA ----- 4)VIJAY KUMAR Address of Applicant :FLAT-1701, T-6, UNITECH HEIGHTS, SECTOR - CHI03, GREATER NOIDA GAUTAMBUDH NAGAR, PIN – 210310, INDIA GREATER NOIDA -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (100) to enable a consensus mechanism in a blockchain network is disclosed. The system includes a receiving module (112) to receive data for processing from a contract layer and an agent (128). The system also includes a plurality of nodes (114) to assign a weight to each parameter of a plurality of first parameters to obtain a validator node. The system includes a plurality of modules to calculate corresponding parameters namely, stakes, uptime, capacity, sustainability score and node utilization. Weightage is assigned to the corresponding parameters. The system includes a validator node selection module (126) to calculate a cumulative score for each node and subsequently select the validator nodes to be added to the block chain network. FIG. 1

No. of Pages : 31 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202311033783 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVICE FOR DETECTING DIGITAL CONTENT TAMPERING

(51) International classification	:G06F 211000, G06F 211400, G06F 213100, G06F 216400, H04N 054600	(71) Name of Applicant : 1)Dr.AvaneeshSingh Address of Applicant :Post-Doctoral Fellow,Indian Institute ofTechnology Kanpur, UttarPradesh 208016 ----- 2)Dr. Krishna KumarSharma 3)Dr. AbhinavSharma 4)AshutoshTripathi 5)Bikash Saha 6)Dr.Dattatray G.Takale Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr.AvaneeshSingh Address of Applicant :Post-Doctoral Fellow,Indian Institute ofTechnology Kanpur, UttarPradesh 208016 -----
(87) International Publication No	: NA	2)Dr. Krishna KumarSharma Address of Applicant :Assistant Professor,University of Kota,Rajasthan, 324010 -----
(61) Patent of Addition to Application Number	:NA	3)Dr. AbhinavSharma Address of Applicant :Assistant Professor,Department of ComputerScience & Engg,ITER,Siksha 'O' AnusandhanUniversity,orissa,751030 -----
Filing Date	:NA	4)AshutoshTripathi Address of Applicant :Assistant Professor,Computer Science andEngineering, Institute ofTechnical Education andResearch Bhubaneswar -----
(62) Divisional to Application Number	:NA	5)Bikash Saha Address of Applicant :Project Engineer, IndianInstitute of TechnologyKanpur,208016 -----
Filing Date	:NA	6)Dr.Dattatray G.Takale Address of Applicant :Assistant Professor, VIIT,SPPU, Pune,411037 -----

(57) Abstract :

This invention describes Device For Detecting Digital Content Tampering. Digital platforms have become a new battleground for democracy, where shaping the flow of information is now a key strategy for disrupting the democratic transfer of power through elections. To address this issue, a device capable of detecting tampering with digital content uploaded about political views is presented. The device includes encryption of the digital content portion containing proof-of-verification and identification of any tampering evidence through hash value comparison. Upon detecting tampering, an alert message is provided to the user or output medium. Additionally, a method for creating tamper-evident digital content is provided. This disclosure is significant as internet freedom restrictions tend to increase before and during crucial votes, and the use of such devices can help maintain the authenticity and reliability of digital content in the democratic process.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/08/2022

(21) Application No.202211048865 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HELICAL GROOVE (9023'19") LAPPING TOOL FOR 105MM RIFLED BORE BARRELS

(51) International classification	:B21C 1/00	(71) Name of Applicant : 1)Ordnance Factory Kanpur Address of Applicant :Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SRIVASTAVA, Abhineet Address of Applicant :Deputy General Manager, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
Filing Date	:NA	2)SINGH, Jitendra Kumar Address of Applicant :Jr. Works Manager, CTR, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
(62) Divisional to Application Number	:NA	3)SHROTRYA, Abhishek Address of Applicant :Jr. Works Manager, GS-I, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----
Filing Date	:NA	4)KATIYAR, Navneet Address of Applicant :Machinist, GS-I, Ordnance Factory Kanpur, Kalpi Road, Kanpur - 208009, Uttar Pradesh, India. Kanpur -----

(57) Abstract :

The invention is unique as Ordnance Factory Kanpur is one of the leading manufacturer of medium and high caliber Artillery Gun Systems in INDIA having rifled barrels under the flagship of AWEIL. The present novel invention relates to the groove lapping of 105mm bore size of barrels as per drawing COT SK 3244 and COT SK 3250 having rifled grooves of helical angle of 9023'19" inside its bore, being used in artillery gun systems. The invention aims to remove the defects occurring during manufacturing and after the firing trial of weapon. The invention has been established in Ordnance Factory Kanpur.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/03/2023

(21) Application No.202311017238 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A TWO-STAGE PNEUMATIC SUPPLY ARCHITECTURE FOR LIGHT-WEIGHT UNTETHERED PNEUMATIC ACTUATION SYSTEMS

(51) International classification	:A61B 170000, B60T 070800, B81B 070000, F01L 130600, H04N 052250	(71) Name of Applicant : 1)Council of Scientific and Industrial Research Address of Applicant :Anusandhan Bhawan 2 Rafi Marg New Delhi India 110001 Delhi ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Aman Arora Address of Applicant :CSIR-Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur 713209 west bangal india Durgapur -----
(87) International Publication No	: NA	2)Debadrata Sarkar Address of Applicant :CSIR-Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur Durgapur -----
(61) Patent of Addition to Application Number	:NA	3)Soumen Sen Address of Applicant :CSIR-Central Mechanical Engineering Research Institute, Mahatma Gandhi Avenue, Durgapur Durgapur -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Title: A two-stage pneumatic supply architecture for light-weight untethered pneumatic actuation systems A two-stage accumulator based pneumatic supply architecture makes possible the rapid actuation of multiple compliant pneumatic 5 actuators simultaneously for their potential applications in wearable robotic assistive and rehabilitative devices, serving as light-weight and untethered actuation systems. Most of the works in prior art have implemented pressure feedback based closed loop control schemes in pressurizing the actuators and involve algorithms too complex to 10 achieve desired pressure rapidly with minimal control iterations. The present invention involves no feedback control between the actuators and the immediate accumulators that supply pressurized air to them. It envisages the use of a simple data driven system performance model to achieve individual desired pressures in each actuator by solenoid valve control, ensuring it occurs within the 15 targeted duration of time. A simple Proportional Derivative (PD) based control scheme rejuvenates the individual secondary accumulators upto the model based predetermined pressures from the primary reservoir, in between the consecutive actuation cycles. Thus, this pneumatic supply scheme makes possible the individual pressurization of multiple actuators simultaneously, inspite 20 of the continuous decrease in supply pressure level in primary reservoir through a simple yet reliable technique. Figure:-1

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2023

(21) Application No.202311029339 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PHARMACEUTICAL COMPOSITION IN POWDER FORM IN SACHETS AND TABLET OF 90 MG TICAGRELOR + 20 MG ROSUVASTATIN

(51) International classification	:A61K 090000, A61K 092000, A61K 092400, A61K 315190, C07D 870400
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**

1)Vishal Kumar

Address of Applicant :flat 789, LNT Dwarka 18b ----- ----

2)Dr.Sukriti Bhalla

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

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2)Dr.Sukriti Bhalla

Address of Applicant :same dwarka ----- -----

(57) Abstract :

ABSTRACT PHARMACEUTICAL COMPOSITION IN POWDER FORM IN SACHETS AND TABLET OF 90 MG TICAGRELOR + 20 MG ROSUVASTATIN Aspects of present disclosure relate to a pharmaceutical composition of ticagrelor and rosuvastatin for treatment of Acute Coronary Syndrome. comprising of an antiplatelet selected from P2Y12 inhibitors: clopidogrel, ticagrelor, and prasugrel; rosuvastatin calcium salt as a statin; and excipients. The powder form in sachets and tablets allows for easy administration and provides a convenient dosage form for patients who have difficulty swallowing tablets. The composition has been developed by combining the two active ingredients in a single dosage form to enhance patient compliance and improve the efficacy of the treatment. The combination of ticagrelor and rosuvastatin has been shown to provide synergistic effects in the treatment of Acute Coronary Syndrome, making the composition more effective. The composition has been formulated to enhance patient compliance, improve the efficacy of treatment, and simplify administration of medication. The composition is expected to improve the therapeutic outcomes in the treatment of Acute Coronary Syndrome.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/04/2023

(21) Application No.202311025662 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GREEN SYNTHESIS OF STRONTIUM NANOPARTICLES AND THEIR APPLICATION IN WASTEWATER TREATMENT

(51) International classification	:C02F 010000, C02F 012800, C02F 013000, C02F 014000, C02F 017000	(71) Name of Applicant : 1)SUMAN KUMARI Address of Applicant :DEPARTMENT OF PHYSICS, C.R.S. UNIVERSITY JIND -126102 HARYANA, INDIA ----- -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor : 1)KUMARI SUMAN Address of Applicant :DEPARTMENT OF PHYSICS, C.R.S. UNIVERSITY JIND -126102 HARYANA, INDIA ----- -----
(87) International Publication No	: NA	2)JASVIR Address of Applicant :DEPARTMENT OF PHYSICS, C.R.S. UNIVERSITY JIND -126102 HARYANA, INDIA ----- -----
(61) Patent of Addition to Application Number	:NA	3)KUMAR ANAND Address of Applicant :DEPARTMENT OF PHYSICS, C.R.S. UNIVERSITY JIND -126102 HARYANA, INDIA ----- -----
Filing Date	:NA	4)KUMAR ANOOP Address of Applicant :DEPARTMENT OF PHYSICS, C.R.S. UNIVERSITY JIND -126102 HARYANA, INDIA ----- -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present work unveils the reusable photocatalytic action of strontium oxide (SrO) nanoparticles synthesized using Albizia julibrissin plant extract via the co-precipitation method. The material and its synthesis reveal an eco-friendly approach that provides new insight into synthesizing the photocatalyst. The plant extract controls the parameters such as particle size, morphology, structure . and other characteristic features of the synthesized material which are important aspects. of a photocatalyst. The synergic effect of stuctural and morphology parameters leads to an enhanced photo-degradation/pollutant removal efficiency of 87.4% for cationic methylene bluo: dye under visible light irradiation. In addition, the reusability of the SrO photocatalyst over four cycles are tested, and the results indicate that SrO can be proven to be an effective eco-friendly photocatalyst.

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/05/2023

(21) Application No.202311031368 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CUTTING EDGE SYSTEM BASED ON RF & IOT HELPS TO CONVENT ANY OLD FRIDGE TO SMARTER FRIDGE

(51) International classification	:G06F 095000, G06Q 100000, H01L 390200, H04N 214820, H04W 481600	(71) Name of Applicant : 1)SURESH GYAN VIHAR UNIVERSITY Address of Applicant :GYAN VIHAR MARG, JAGATPURA, JAIPUR, RAJASTHAN 302017 JAGATPURA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)ARASTU SHARMA
(61) Patent of Addition to Application Number	:NA	Address of Applicant :SURESH GYAN VIHAR UNIVERSITY, GYAN VIHAR MARG, JAGATPURA, JAIPUR, RAJASTHAN 302017 JAGATPURA -----
Filing Date	:NA	 2)SUDHANSHU SHARMA
(62) Divisional to Application Number	:NA	Address of Applicant :SURESH GYAN VIHAR UNIVERSITY, GYAN VIHAR MARG, JAGATPURA, JAIPUR, RAJASTHAN 302017 JAGATPURA -----
Filing Date	:NA	

(57) Abstract :

ABSTRACT A CUTTING EDGE SYSTEM BASED ON RF & IOT HELPS TO CONVENT ANY OLD FRIDGE TO SMARTER FRIDGE Discloses herein a cutting edge system based on RF & IOT helps to convert any old fridge to smarter fridge comprises Cloud Mobile App (100), Cloud Server (70), Detachable Refrigerator Mote (10), Lora Unit (11), Computing Unit (12), Power Supply Unit (13), Waterproof Temperature Sensor (14), Dual Actuator Unit (15), Solenoid Lock (16), Touch Keypad (17), RF Control Node (50), Lora Unit (51), Computing Unit (52), Power Supply Unit (53), Wifi Unit (54), Speaker Unit (56) and Indicator Unit (57). A Detachable Refrigerator Mote has been proposed in the system that needs to be attached with the fridge and is able to make your older fridge to a smarter fridge; in the Detachable Refrigerator Mote, there is Touch keypad is used to open the door manually by entering the pass code. The water proof sensor is used to sense the real time temperature inside the fridge and pass to the Computing Unit; the Actuator Unit is used to control the Solenoid Lock of the fridge that can be controlled through the cloud Mobile App. The Lora Unit is used to trans-receive the information from and to the RF Control Node with the help of Lora Network; the Detachable Refrigerator Mote is powered through the Power Supply Unit; at the RF control Node.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031558 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT-BASED CABINET

(51) International classification	:A47B 970000, G07C 090000, G10L 150800, H04L 090800, H04L 671200	(71) Name of Applicant : 1)Eras Lucknow Medical College & Hospital Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)American University of Barbados 3)Mr. Mohsin Ali Khan 4)Mr. Zaw Ali khan 5)Ms. Kinza Zehra 6)Ms. Sarina Zehra Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “IOT-BASED CABINET” is a Criteriontech that introduces an IOT-based cabinet for the security of small gadgets such as mobile phones, tablets, and other IOT devices. These devices can be kept inside the cabinet and secured with a passcode. If a device receives a call or a notification, it will be displayed on the cabinet's screen at regular intervals. This cabinet was designed to resolve two main problems. The first is to keep the devices secure, and the second is to keep official meetings private. You can now attend official meetings while maintaining privacy, as well as receive all important notifications and calls while your device is securely stored in this cabinet. Secure storage for small gadgets. All the notifications display on the cabinet's screen. Maintain privacy during official meetings. Novelties Secure storage for small gadgets. all the notifications display on the cabinet's screen. Maintain privacy during official meetings.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033207 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "ELECTRIC HOT PLATE FOR DENTAL PROCEDURES"

(51) International classification	:B29C 450000, B29L 310000, C02F 010000, F24C 151000, H01L 216700	(71) Name of Applicant : 1)Mr. Jai Prakash Agarwal Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Aman Vihar, Dehradun- 248001 Dehradun ----- 2)Dr. Nalin Somani 3)Dr. Nitin Kumar Gupta Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor : 1)Mr. Jai Prakash Agarwal Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Aman Vihar, Dehradun- 248001 Dehradun ----- 2)Dr. Nalin Somani Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Arya Nagar, Dehradun- 249407 Dehradun ----- 3)Dr. Nitin Kumar Gupta Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Vijay Colony, Dehradun- 248001 Dehradun -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of dental tools and devices, specifically an electric hot plate for use in dental procedures. The electric hot plate device for use in dental clinics and laboratories, includes a pair of metal plates fixed in a heat-insulated fiber handle, a heating filament positioned between the pair of metal plates, a circuit connected to the heating filament, a wire connecting the circuit to a plug, and wherein the device is designed to be heated by an electrical current rather than direct heat.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033227 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED WOOD COATING MATERIAL

(51) International classification	:B05D 070600, B27K 033400, B29C 481200, C09D 051400, E04F 150400
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention relates to a coating material for wood and its method of preparation that can improve the quality of wood's outer surface and make it free from termite. The films of PVA (Polyvinyl alcohol) with cellulose nanocrystals and cellulose nanofiber were synthesized which were obtained from dry leaves of Ficus auriculata that provide mechanical strength to the film and added the methanolic extract of Ficus auriculata fruit in those films which enhanced their biological property. Figure 1

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033245 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EVALUATION OF MURRAYA PANICULATA FOR DIABETIC WOUND HEALING

(51) International classification :A61K 090000, A61K 365800, A61K 367500, A61P 031000, A61P 170200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)Dr Kashmira J. Gohil

Address of Applicant :M. Pharm, PhD, Dean & Professor (Pharmacology), Anand College of Pharmacy, Sharda Group of Institutions (SGI), Uttar Pradesh, Agra, 282007, India -----

2)Ms. Deepa Joshi

Address of Applicant :M. Pharm Research Scholar, Anand College of Pharmacy, Sharda Group of Institutions (SGI), Uttar Pradesh, Agra, 282007, India Agra -----

(57) Abstract :

EVALUATION OF MURRAYA PANICULATA FOR DIABETIC WOUND HEALING ABSTRACT The present invention relates to an herbal formulation for treating diabetic wound healing. The invention discloses a hydrochloric Murraya Paniculata extract ointment for treating diabetic wound healing. The invention also provides the method of preparing the same. The wound contraction rate and tensile strength significantly increased following treatment of an ointment containing 10% (w/w) of the hydroalcoholic extract. The percentage wound contraction on the 14th day and tensile strength of incised wound on the 10th day with ointment formulation was significantly ($P<0.001$) increased to (95.75 ± 0.671) and (459.4 ± 5.683) compared to control group. The extract also shows increased the rate of epithelialization. An ointment containing an extract of M. Paniculata facilitated wound healing primarily by enhancing tissue integrity, cellular proliferation, and collagen synthesis at the location of the lesion.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033316 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FOSTER DOG PROTECTION COLLAR

(51) International classification	:A01K 150200, A01K 270000, A61B 050200, C12N 050000, H04L 671008	(71) Name of Applicant : 1)Rashmita sehgal Address of Applicant :Harcourt butler technical university, nawabganj kanpur (research scholar) ----- -----
(86) International Application No	:NA	2)Dr. Nihar M. Ranjan
Filing Date	:NA	3)Oswalt Manoj
(87) International Publication No	: NA	4)Abhinandan Kumar Tiwari
(61) Patent of Addition to Application Number	:NA	5)RajaKumar B.R.
Filing Date	:NA	6)Binu Dennis
(62) Divisional to Application Number	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
		1)Rashmita sehgal Address of Applicant :Harcourt butler technical university, nawabganj kanpur (research scholar) ----- -----
		2)Dr. Nihar M. Ranjan Address of Applicant :Department of Information Technology, JSPM'S Rajarshi Shahu College of Engineering, Pune. ----- --
		3)Oswalt Manoj Address of Applicant :Assistant Professor, Department of Computer Science and Business System, Sri Krishna College of Engineering and Technology, Coimbatore ----- -----
		4)Abhinandan Kumar Tiwari Address of Applicant :Research scholar, School of CE, KIIT University, Bhubaneswar, Odisha. ----- -----
		5)RajaKumar B.R. Address of Applicant :Resbee Info Technologies (P) Ltd, 3- 207-18E, Perumal Nagar II,Ananthan Nagar, Asaripallam. ----- --
		6)Binu Dennis Address of Applicant :Resbee Info Technologies (P) Ltd, 3- 207-18E, Perumal Nagar II,Ananthan Nagar, Asaripallam. ----- -----

(57) Abstract :

The main design of our invention discloses a foster dog protection collar, which comprises a camera and a decision-making unit with an alert system. The main purpose of the present invention is to provide a foster dog protection collar for protecting the foster dog from the dog suspected of having rabies. Initially, the camera captures the video of the dog standing in front of a foster dog who wears a foster dog protection collar and passes the captured video signal to the video processing unit. The video processing unit processes the received signal and the activity measurements unit monitors the dog's activities. The decision-making unit consists of an AI unit, which identifies whether the dog is suspected of having rabies or not. If the dog is suspected of having rabies means the decision-making unit turns on the LED light and speaker to chase away the dog. [To be published with Figure.1]

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033368 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT AND EVALUATION OF LIPID-BASED NANOPARTICLE FORMULATIONS FOR IMPROVED TREATMENT OF DIABETES MELLITUS

(51) International classification	:A61K 091270, A61K 311900, A61K 476900, A61P 031000, A61P 055000	(71) Name of Applicant : 1)Pradeep Swarnkar Address of Applicant :Research Scholar Career Point School of Pharmacy, Career Point University, Kota-Rajasthan, Pin Code: 325003 -----
(86) International Application No	:NA	2)Dr. Mahesh Kumar Gupta 3)Abhilasha Shete 4)Mukesh Mehra 5)Shama Parveen 6)Ankit Sharma
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor : 1)Pradeep Swarnkar Address of Applicant :Research Scholar Career Point School of Pharmacy, Career Point University, Kota-Rajasthan, Pin Code: 325003 -----
(61) Patent of Addition to Application Number	:NA	2)Dr. Mahesh Kumar Gupta Address of Applicant :Dean, Pharmacy, Career Point School of Pharmacy, Career Point University, Kota-Rajasthan, Pin Code: 325003 -----
Filing Date	:NA	3)Abhilasha Shete Address of Applicant :Associate Professor, Kota College of Pharmacy, Kota, Rajasthan, Pin Code: 324001 -----
(62) Divisional to Application Number	:NA	4)Mukesh Mehra Address of Applicant :Associate Professor, Kota College of Pharmacy, Kota, Rajasthan, Pin Code: 324001 -----
Filing Date	:NA	5)Shama Parveen Address of Applicant :Assistant Professor, Kota College of Pharmacy, Kota, Rajasthan, Pin Code: 324001 -----
		6)Ankit Sharma Address of Applicant :Assistant Professor, Kota College of Pharmacy, Kota, Rajasthan, Pin Code: 324001 -----

(57) Abstract :

The present invention relates to the development and evaluation of a novel lipid-based nanoparticle formulation of rosiglitazone for improved treatment of diabetes mellitus. The formulation is optimized for particle size, drug loading capacity, and drug release profile, and the evaluation results show sustained and controlled release behavior with prolonged drug release over a period of 24-48 hours. The composition of the formulation includes triglycerides, phospholipids, Tween 80, polyethylene glycol, and rosiglitazone. The lipid-based nanoparticle formulation of rosiglitazone offers several advantages over conventional formulations, including improved bioavailability, sustained drug release, targeted drug delivery, and reduced side effects. The invention provides a novel formulation of rosiglitazone for the treatment of diabetes mellitus, which may lead to improved therapeutic outcomes and patient compliance. The invention has the potential to make a significant contribution to the field of drug delivery and diabetes mellitus management.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033382 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CHANTING RING

(51) International classification	:G06Q 502000, G09B 190600, H04L 124200, H04L 124370, H05B 471200	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(86) International Application No	:NA	2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)KAUR, Amandeep Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(87) International Publication No	: NA	2)BONKRA, Anupam Address of Applicant :Information Technology Department, Chandigarh Engineering College-CGC, Landran, Sector 112, Greater Mohali, Punjab - 140307, India. Greater Mohali -----
(61) Patent of Addition to Application Number	:NA	3)DHIMAN, Pummy Address of Applicant :Chitkara University Institute of Engineering and Technology, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
Filing Date	:NA	4)VERMA, Siddharth Address of Applicant :CBS, Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a chanting ring (100) to count number of chanting practices, the chanting ring (100) includes a ring body (102), a rounded object (104) rotatably attached to the ring body (102), and a sensor (106) attached to the ring body (102) that detects the rotation of the rounded object. The ring (100) also includes a control unit (108) that receives data from the sensor regarding the number of rotations of the rounded object, compares the received number with a number set by the user through a computing device (116), and triggers a speaker (112) to emit sound when the number of rotations matches the set number. The ring may also include a communication module (114) to transmit data to the associated computing device and a display module to show the progress of the rotations.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033395 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR UTILIZATION OF SHALE AGGREGATES IN SUBBASE LAYER FOR FLEXIBLE PAVEMENT.

(51) International classification	:A61K 314200, A61K 315190, C04B 110000, E01C 073200, F21V 190000	(71) Name of Applicant : 1)Malaviya National Institute of Technology Jaipur Address of Applicant :Malaviya National Institute of Technology (MNIT), Jawahar Lal Nehru Marg, Jhalana Gram, Malviya Nagar, Jaipur, Rajasthan 302017 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Mr. Amit Sain Address of Applicant :Malaviya National Institute of Technology Jaipur 302017 Jaipur -----
(61) Patent of Addition to Application Number	:NA	2)Dr. Arun Gaur Address of Applicant :Malaviya National Institute of Technology Jaipur 302017 Jaipur -----
Filing Date	:NA	3)Dr. Dipankar Sarkar Address of Applicant :National Institute of Technology, Agartala 799046 Agartala -----
(62) Divisional to Application Number	:NA	4)Mr. Rajat Manglamurti Ninawe Address of Applicant :Chhaya Niwas SAI colony NEHRU Ward Tirora Dist Gondia 441601 Gondia -----
Filing Date	:NA	

(57) Abstract :

This invention relates to the use of shale aggregates found near Rani Bazar Tripura as subbase material in flexible pavement. The Northeast region of India faces a scarcity of conventional stone aggregates, making it crucial to use locally available materials for road construction to ensure economic sustainability. However, the shale aggregate was found to have weaker engineering properties when compared to stone aggregates. To overcome this issue, a stabilization formula of 3% OPC-43 cement and 1 lt/m² nanomaterials (Terrasil and Zycobond) with water in a proportion of (1:1:200) was developed. The laboratory tests conducted showed higher strength of shale aggregates as compared to stone aggregates in terms of CBR, UCS, and CS, with a difference of 90%, 114%, and 26%, respectively. Therefore, the stabilized shale aggregates can be effectively used as a subbase layer for flexible pavement.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033426 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SUSTAINABILITY MANAGEMENT

		<p>(71)Name of Applicant : 1)PROFESSOR SYED HAIDER ALI Address of Applicant :Head Department of Business Administration, Khwaja Moinuddin Chishti Language University, Sitapur-Hardoi Bypass Road Lucknow-226013, India ----- ---</p> <p>-----</p> <p>2)Dr. DOA NAQVI 3)Dr KHUSHNUMA BANO Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)PROFESSOR SYED HAIDER ALI Address of Applicant :Head Department of Business Administration, Khwaja Moinuddin Chishti Language University, Sitapur-Hardoi Bypass Road Lucknow-226013, India ----- ---</p> <p>-----</p> <p>2)Dr. DOA NAQVI Address of Applicant :Assistant Professor, Department of Business Administration, Khwaja Moinuddin Chishti Language University, Sitapur-Hardoi Bypass Road Lucknow-226013, India -</p> <p>-----</p> <p>3)Dr KHUSHNUMA BANO Address of Applicant :Assistant Professor (T), Department of Business Administration, Khwaja Moinuddin Chishti Language University, Sitapur-Hardoi Bypass Road Lucknow-226013, India -</p> <p>-----</p>
(51) International classification	:A61K 081900, A61K 083100, A61K 476000, C02F 012800, G06Q 100600	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SUSTAINABILITY MANAGEMENT The present invention relates to a sustainability management and in particular relate to a sustainability management in an organization by systematic synthesis of the present invention with the aim of lowering bias while allowing for flexibility and creativity in order to assure the rigor and quality of our review and to enhance their social and environmental performance. Businesses can get a variety of advantages from effective sustainability management, such as a better reputation, lower expenses, higher income, and better risk management. Sustainability management will develop and play a crucial part in determining the direction of the business as the significance of sustainability continues to rise. Fig. 2

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/04/2023

(21) Application No.202311029923 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LARGE SCALE GLOBAL OPTIMIZATION USING DYNAMIC POPULATION BASED DE

(51) International classification :C12N 158600, G06N 031200, G16B 402000, H04B 070452, H04L 675100
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Large Scale Global Optimization is one of the most challenging problem in the domain of stochastic optimization. Due to high dimensionality in entire optimization process different type of problems may occur for finding the global optima eg. solution space increase exponentially, problem complexity increases, and candidate search direction also increase exponentially. So, deterministic optimization algorithms cannot perform well for this kind of problems. Differential Evolutionary Algorithm is a population-based, stochastic search and optimization algorithm which can be used for global optimization problems. In this paper we present self-adaptive dynamic population based Differential evolutionary algorithm which automatically adapts its parameters including Population Size.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/04/2023

(21) Application No.202311030071 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A BIODEGRADABLE FOAM AND PROCESS FOR PREPARING THEREOF

(71)Name of Applicant :

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(51) International classification :C08J 2300/16, C08J 2367/04,
C08J 9/04
(86) International Application No
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application
Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

A BIODEGRADABLE FOAM AND PROCESS FOR PREPARING THEREOF ABSTRACT A biodegradable foam is provided. The biodegradable foam involves a natural material extract from self-growing cane grass as reinforcement and poly vinyl alcohol as matrix. The biodegradable foam is the best cushion material for packaging acoustic and thermal insulation. The biodegradable foam is easy to manufacture, environmentally friendly and can be easily decomposed after use. The biodegradable foam can be used as the packaging material for different household equipments and electronics like refrigerators, washing machine, and juicer as well provides scratch free packaging. The biodegradable foam has high compressive strength compared to the polystyrene (thermocol) material. The present invention also provides the process for preparing the biodegradable foam. The process is simple, cost-effective and scalable. FIG. 1

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034822 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR WEIGHT ENUMERATION OF GENERALIZED REED-MULLER CODES

(51) International classification	:A61K 490000, A61P 031000, H03M 131300, H04L 010000, H04L 050000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

“METHOD FOR WEIGHT ENUMERATION OF GENERALIZED REED-MULLER CODES” Accordingly, embodiments herein disclose a method for weight enumeration of generalized reed-muller (GRM) codes, comprising the steps of: counting a number of codewords of each weight which is an interesting area of research in coding theory for both electrical engineering and computer science. The weight distribution is the main characteristic of the generalized reed-muller (GRM) code and governs the behaviour of the code from both theoretical and practical aspects using a weight enumerator. The GRM codes and affine Geometry are established by approximating low weight codewords using lower degree polynomials when codewords are viewed as evaluation vectors of degree r polynomials in m variables. Dated this 9th day of May, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034838 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR TRACKING AND CONTROLLING LAUNDRY OPERATIONS USING MACHINE LEARNING BASED ANALYSIS OF ACOUSTIC TRANSDUCER SIGNAL, AND METHOD THEREOF

(51) International classification	:G05B 130400, G06N 030400, G06N 030800, G06N 200000, G06Q 100800	(71) Name of Applicant : 1)Dr Rachit Garg Address of Applicant :School of computer science engineering Lovely Professional University, Phagwara, Punjab, India . ----- 2)Dr Mohammad Israr 3)Dr Gauri Mathur 4)Dr Rajesh Dey 5)Dr Tarandeep Kaur 6)Dr Valliappan Raju 7)Ms Harjinder Kaur Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Dr Rachit Garg Address of Applicant :School of computer science engineering Lovely Professional University, Phagwara, Punjab, India . ----- 2)Dr Mohammad Israr Address of Applicant :Maryam Abacha American University of Nigeria, Federal Republic of Nigeria ----- 3)Dr Gauri Mathur Address of Applicant :School of computer science engineering Lovely Professional University, Phagwara, Punjab, India . ----- 4)Dr Rajesh Dey Address of Applicant :Gopal Narayan Singh University, Jamuhaar, Bihar, 821305, India . ----- 5)Dr Tarandeep Kaur Address of Applicant :School of Computer Applications, Lovely Professional University, Chaheru, Phagwara, Punjab, India . ----- 6)Dr Valliappan Raju Address of Applicant :Perdana University, Kuala Lumpur, Malaysia ----- 7)Ms Harjinder Kaur Address of Applicant :School of Computer Applications, Lovely Professional University, Chaheru, Phagwara, Punjab, India . -----
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a system and method of tracking and controlling the laundry operation using advanced soft sensor tools, preferably machine learning based acoustic transducer signal. The system comprises at least one washer-dryer type laundry machine (100) having a heat pump; a monitoring device (300) communicatively coupled to a control unit of the laundry machine (100) via a central server (200). the soft sensor tool is configured carry out one or more steps in an order of: receiving one or more input data as sensed by one or more electronic/mechanical sensors coupled to the control unit of the laundry machine (100); estimating one or more parameters associated with the washing/drying related operation, wherein the parameters include various values related to temperature, moisture, water level, fabric quality, motor condition or like; predicting breakdown/failure possibility of any component of the laundry machine before its occurrence; showing one or more recommendations in a display of the monitoring device (300) so that the operator/use becomes aware of the operational status of the laundry machine and takes remedial actions. Fig. 1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034367 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR EVALUATING HATE MESSAGES ON SOCIAL MEDIA

(51) International classification	:G06Q 500000, H04L 510400, H04L 515200, H04W 042000, H04W 042100
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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Address of Applicant :Department of Computer Science and Engineering, Guru Jambheshwar University of Science and Technology, Hisar (Haryana) ----- -----

(57) Abstract :

ABSTRACT METHOD FOR EVALUATING HATE MESSAGES ON SOCIAL MEDIA The present disclosure relates to a field of evaluating hate messages on social media and particularly relates to a method for evaluating hate messages on social media with the help of deep learning techniques comprising steps of, collecting a plurality of messages on social media from one or more social media users, classifying the collected plurality of messages, placing each of the plurality of messages from social media users and identifying user profile features representative of users in each of the plurality of social media user communities, detecting a message article posted on social media as one of real message article and a hate message article based on the user profile features of the user that posted the message article, generating and validating the message article posted on social media from social media users as one of the real message articles. Figure 1 shall be reference figure.

No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034382 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A TELEMEDICINE CONSULTATION, CLINICAL AND MEDICAL DIAGNOSTIC LAB FACILITIES ELECTRIC BUS SYSTEM FOR PRIMARY HEALTH CARE OF RURAL INDIA

(51) International classification	:A61B 050000, G16H 150000, G16H 406700, G16H 502000, G16H 800000	(71)Name of Applicant : 1)Dr. K Srinivas Address of Applicant :Associate Professor, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India ----- ----
(86) International Application No	:NA	2)Dr. A Charan Kumari 3)Mr. K. Shabd Swaroop Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Dr. K Srinivas Address of Applicant :Associate Professor, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India ----- ----
(87) International Publication No	: NA	2)Dr. A Charan Kumari Address of Applicant :Assistant Professor, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India ----- ----
(61) Patent of Addition to Application Number	:NA	3)Mr. K. Shabd Swaroop Address of Applicant :Third year B.Tech. Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India ----- ----
Filing Date	:NA	-----
(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	-----

(57) Abstract :

The present invention discloses a Telemedicine Consultation, Clinical and Medical Diagnostic Lab Facilities Electric Bus System for Primary Health Care of Rural India. The system comprising, but not limited to, a system comprising of real-time video consultation, Clinical and Medical Diagnostic Lab facilities. This system can be easily transported to remote or underserved areas, allowing for on-site, true telemedicine consultation with real-time clinical health parameter testing under the supervision and full participation of the doctor, diagnostic testing and treatment based on complete test evidence and well-informed decision results in a true telemedicine solution. The system also comprising, but not limited to, a system with software that uses Artificial Intelligent Bot and machine learning for the Patient Registration, quick preliminary diagnosis of the disease/health problem based on the symptoms provided by the patient and thereafter connecting the patient to the concerned expert doctor for Telemedicine Consultation, Tracking the treatment and storing the Patient medical records, prescriptions and diagnostic reports on the cloud, and also integration of the mobile health care system with the National Health framework of Ayushman Bharat Digital Mission to cater to the primary health care of the Rural India. The system not only uniquely identifies the Patient with ABHA Health ID but also facilitates secure storage and sharing of the health records of the patients with the doctors across the nation anywhere, anytime and also facilitates easy migration of the patients across the Higher Medical Facilities for advanced treatment. Thus, this system can cater to the Primary health care needs of Rural India remotely and help them get convenient and effective treatment saving a number of lives with timely medical support. Accompanied Drawing [FIG. 1, 2 and 3]

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034386 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR SECURING & VISUALIZING SENSOR DATA ON PRIVATE BLOCKCHAIN

(51) International classification	:G06F 162700, G06F 216200, H04L 090600, H04L 093200, H04L 121800	(71) Name of Applicant : 1)Siddhant Khanna Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India – 201206 ----- 2)Siddharth Shukla 3)Virat Shukla 4)Pawan Kumar Pal 5)Harsh Khatter Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The prevent invention is related to securing and visualizing sensor data on Private Blockchain. The proposed results can be used to safeguard the crucial data and can be viewed easily via dashboards. The proposed model can be used in industries like Supply Chain, Logistics as well as Security. It will provide transparency and security to the organizations. Figure 1 and Figure 2 show the detail description of the present invention.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034387 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM WITH CASE TOOL BASED ON HYPER METAHEURISTIC ALGORITHM FOR OPTIMAL CLUSTERING OF MODULES IN SOFTWARE SYSTEMS

(51) International classification	:A61B 342000, A61P 430000, G06F 162800, G06F 163500, G06K 096200	(71) Name of Applicant : 1)Dr. A. Charan Kumari Address of Applicant :Assistant Professor, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India -----
(86) International Application No	:NA	2)Dr. K. Srinivas Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Dr. A. Charan Kumari Address of Applicant :Assistant Professor, Department of Electrical Engineering, Faculty of Engineering, Dayalbagh Educational Institute (Deemed University), Dayalbagh, Agra-282005, U.P. India -----
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a system with a CASE tool based on hyper metaheuristic algorithm called ModCluster for optimal clustering of modules in large/very large size software systems. The tool executes a highly efficient Hyper Metaheuristic Algorithm (HMA) for the clustering process. Hyper Metaheuristic Algorithm (HMA) is an effective multi-objective optimization algorithm expressly designed and implemented by us for the solution of optimal Module Clustering in large/ very large software systems. The objective of HMA is to provide optimal solutions to the said problem in a reasonable amount of computational time. Module clustering in software systems improves the modular structure and maintainability of the software system by promoting high cohesion within modules, encapsulating dependencies, enhancing reusability and testability, and making maintenance and updates more manageable. Therefore, the primary objective of software module clustering is to produce high quality clusters with maximum intra-connectivity (cohesion) and minimum inter-connectivity (coupling). Thereby, this invention/CASE Tool helps in reducing the time, effort and cost involved in software maintenance.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034422 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT BASED SMART AGRICULTURE MONITORING SYSTEM FOR SUSTAINABLE PRODUCE AND GREEN CLIMATE

(51) International classification	:C07K 144150, C07K 160000, C12N 158200, C22B 012400, G06Q 500200	(71) Name of Applicant : 1)GLA UNIVERSITY MATHURA Address of Applicant :Mathura - 281406, Uttar Pradesh, India Mathura ----- Name of Applicant : NA Address of Applicant : NA
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Filing Date	:NA	4)Dr. Monalisa Sahoo Address of Applicant :Assistant Professor, Department of Agronomy, Institute of Agriculture and Natural Sciences, Deen Dayal Upadhyaya Gorakhpur University, Gorakhpur-273009, Uttar Pradesh, India Gorakhpur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The growth of world population and tremendous urbanization initiatives has posed an important challenge to sustainable agriculture. To efficiently utilize the land to yield maximum produce, IoT based smart agriculture monitoring systems are an absolute necessity today. The sensing and actuator modules deployed as part of such systems are responsible for water management, soil quality monitoring and of course prediction of the safety and quality of the produce. Incorporating cloud servers and edge devices to such IoT based system through a three tier architecture can provide correct prediction performances and even real time monitoring with less Internet traffic. Vertical farming is another important direction where such monitoring systems can be highly beneficial. In this chapter, an overview of such smart agricultural systems is presented along with important research challenges, architectures and case studies. Open research problems in this field are also discussed to motivate researchers in this field.

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034425 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A KIOSK FOR DETERMINING ONE OR MORE VITAL SIGNS AND METHOD THEREOF

(51) International classification	:A61B 5/01, A61B 5/02, A61B 5/107, A61B 5/1455, E04H 1/12, G06Q 10/10, G16H 40/20, G16H 50/10	(71)Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -
(86) International Application No Filing Date	:NA :NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)ANANT TIWARI Address of Applicant :WESTERN LAB, WL 303 D INDIAN INSTITUTE OF TECHNOLOGY, KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -
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(57) Abstract :

ABSTRACT A KIOSK FOR DETERMINING ONE OR MORE VITAL SIGNS AND METHOD THEREOF The present invention discloses a kiosk for determining one or more vital signs and method thereof. The kiosk (100) for determining one or more vital signs of a user comprises a frame (102), a supporting frame (128), one or more vital signs determining units (134), a memory unit (122), and a controller board (120). The kiosk (100) is adapted to determine the one or more vital signs comprising at least one of a weight parameter, height parameter, blood pressure parameter, pulse rate parameter, oxygen saturation parameter, and temperature parameter of the user. The one or more vital signs determining units (134) comprises at least one of a weight sensing unit (108), height sensing unit (110), blood pressure cuff 112, pulse oximeter (116), and temperature sensing unit (118). The kiosk (100) is a self-service unit that can be used for the diagnosis of vital signs. FIG. 1

No. of Pages : 31 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/05/2023

(21) Application No.202311036836 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN AUTOMATED SEED PLANTING MACHINE AND METHOD

(51) International classification	:A01C 010000, A01C 050600, A01C 210000, A01H 010400, G01N 350000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The seed planting machine (100) is an innovative agricultural device that automates and optimizes the seed planting process. It incorporates a seed hopper (2a), a seed distribution mechanism (3), seed metering device (4a), and planting units (5). The machine is powered by a motor-operated system (6) and features a control system (7) with an operator interface (8) for setting planting parameters. With precise seed placement and spacing, the machine enhances efficiency, reduces labor efforts, and improves crop yield. It offers customizable settings, can integrate with real-time monitoring, and contributes to sustainable agriculture practices.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036838 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FITSETGO: UNLEASHING THE POTENTIAL OF GAMIFICATION IN FITNESS APPS FOR IMPROVED EXERCISE ADHERE AND WELL-BEING USING MACHINE LEARNING

(51) International classification	:A61P 030200, A63B 210000, A63B 231200, G06N 030800, G06N 200000	(71)Name of Applicant : 1)HARSH VARDHAN Address of Applicant :Department of Computer Science, KIET Group of Institutions, Delhi-NCR, Ghaziabad, Uttar Pradesh, India 201206 ----- 2)Ankit Kumar Saini 3)Vinay kumar 4)Dr. Sumita R. Chaudhuri 5)Rishabh Jain 6)Yuvraj Singh 7)Ayush Saini 8)Lalita Mishra 9)Latika Sharma 10)Dr. Jyoti Srivastava 11)Silki Kharaliya
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant :NA
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(57) Abstract :

The end user might become invested in physical well-being thanks to the gamification of fitness programmes. Examined are gamification strategies used in fitness apps and their effects on user behaviour and welfare. By carefully examining the body of current literature and examining popular fitness applications, we are able to pinpoint crucial gamification elements that are regularly used to motivate users. These elements include points, badges, leaderboards, challenges, and virtual awards. We also discuss the psychological principles that underlie gamification, including goal-setting, social influence, intrinsic and extrinsic motivation, and intrinsic versus extrinsic drive. These principles and mechanisms help to explain how these strategies encourage long-term engagement and constructive behaviour change. Running and jogging can be converted into a system that encourages user engagement in pursuit of physical well-being. We can implement a merit system that is based on the user's daily objective accomplishments. The most recent addition to it is a body posture detection feature that determines whether or not an individual is exercising with proper posture. This alone demonstrates its accessibility. At the moment, FitSetGo is concentrating on calorie-based exercises like walking, cycling, and jogging. The idea is to free users from having to devote their entire attention to weightlifting and cardio in order to concentrate on their health.

No. of Pages : 16 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036841 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED METHOD FOR DNA ANALYSIS OF MIXED SAMPLES IN FORENSIC

(51) International classification :A01H 010400, B01L 030000, B01L 070000, C12Q 016816, C12Q 016869
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN IMPROVED METHOD FOR DNA ANALYSIS OF MIXED SAMPLES IN FORENSIC The present invention discloses an improved method for DNA analysis of mixed samples in forensic investigations utilizing artificial intelligence (AI). The method involves training an AI model using a large dataset of mixed DNA samples and corresponding individual DNA profiles. Subsequently, the trained AI model is employed to analyze mixed DNA samples, enabling the identification of individual contributors within the mixture. Additionally, the method quantifies the contribution of each individual DNA profile in the mixed sample using the AI model.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036846 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IOT AND CLOUD BASED TECHNIQUE TO TRACK AND MONITOR THE WORK AND WELL BEING OF THE STREET SWEEPERS

(51) International classification	:B32B 271200, G06F 095000, H04L 431600, H04L 671001, H04W 761000	(71)Name of Applicant :
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(87) International Publication No	: NA	3)Syamsu Rijal
(61) Patent of Addition to	:NA	4)Dr. Aditya Kumar Panda
Application Number	:NA	5)Dr. Anilkumar R
Filing Date	:NA	6)Sanjay Kumar Gupta
(62) Divisional to Application	:NA	7)Vikas V Pawar
Number	:NA	8)Prof Shilpa S Jadimath
Filing Date	:NA	9)Dr. Choksi Himanshu H
		10)Mr. Vijender Noonwal
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(57) Abstract :

AN IoT AND CLOUD BASED TECHNIQUE TO TRACK AND MONITOR THE WORK AND WELL BEING OF THE STREET SWEEPERS ABSTRACT Mobile sensing systems are now being developed and in order to improve public awareness of current environmental conditions. However, in order to translate this awareness into actual actions that may be taken by communities and changes in political systems, more is required than simply gathering and presenting data. We performed design fieldwork with government, business, and public interest stakeholders so that our invention on mobile environmental sensing would be better informed. This acted as a "invention vehicle" by anchoring our interviews and granting us status as environmental action inventors. In the meantime, we constructed an environmental air quality sensor system and put it on street sweeping machines in a large city in the United States. In this invention, we give a qualitative examination of the landscape of environmental action, with a primary focus on findings that will assist inventors in the formulation of effective technological solutions.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034445 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHODS OF DATA MINING, IOT/ WSN & AI ARE USED TO AVOID BACTERIAL INFECTION IN THE FOODSTUFF

(51) International classification	:A61P 310400, G06F 013234, H04L 122800, H04W 047000, H04W 841800	(71)Name of Applicant : 1)Mr Ramakant Ganjeshwar Address of Applicant :Assistant Professor, Department of Computer Science and Engineering (Data Science), CMR ENGINEERING COLLEGE HYDERABAD, Medchal, Hyderabad ----- 2)Ms Sheenam Naaz 3)Mrs Namrata Kumari 4)Mr Ram Krishna Singh 5)Mrs Roobal Yadav 6)Mr Amit 7)Ms Rashi Sahay 8)Ms Ramanjot Kaur 9)Ms Gagandeep Kaur 10)Mr Sanjay Kumar Nayak 11)Dr Anupam Kumar Sharma 12)Ms Priyanka Aggarwal Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Abstract Ingestion of certain bacteria, viruses, and parasites can cause human illness. Pathogens, as the name implies, are infectious microorganisms that can cause human disease. If you want to avoid getting sick from eating out, educate yourself on proper food handling procedures and always use them. To put it bluntly, food poisoning can be fatal. The "Food Safety" group ensures the food is properly cooked and stored so the customer doesn't get sick. In developing countries, food poisoning is especially common. If people who are sick but hiding it suddenly show symptoms, they could contaminate the food supply and spread the disease. Everyone is in danger from pollution. To be considered healthy or safe, food must not have gone bad, retain all of its nutritional value, and be free of contaminants (both chemical and biological). It's harmful to a person's health to eat spoiled food. Food safety standards and methods for preventing and treating food-borne illnesses are covered here.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034475 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR MANAGING GROWTH OF CROPS

(71)Name of Applicant :

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(51) International classification :A01G 092400, A01G 130200, B32B 273200, C08J 051800, H04W 361800

(86) International Application No Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number Filing Date :NA

(62) Divisional to Application Number Filing Date :NA

(57) Abstract :

ABSTRACT METHOD AND SYSTEM FOR MANAGING GROWTH OF CROPS 5 Present invention describes a method of managing growth of crops. The method comprises acquiring, from sensors, data related to crops growing in an agriculture farm. The sensors are installed at edges of the agriculture farm. Climate information for a number of days is acquired from a weather sensing device. The data related to the crops and the climate information are transmitted 10 to a server for further processing. A type of the crops and features associated with growth of the crops is determined based on the data related to the crops. Machine learning (ML) data models are executed on the type of crops, the features associated with growth of the crops, and the climate information to determine a suitable action to be performed. The suitable action is implemented using 15 actuators in the agriculture field for proper growth of the crops.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034607 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A HYBRID ENERGY GENERATION SYSTEM

		<p>(71)Name of Applicant : 1)UNIVERSITY OF PETROLEUM AND ENERGY STUDIES, DEHRADUN Address of Applicant :Village Bidholi, via Prem Nagar, Dehradun, Uttarakhand, 248007, India Dehradun ----- ---</p> <p>Name of Applicant : NA Address of Applicant : NA</p>
(51) International classification	:F03D 090000, H01M 160000, H02J 033200, H02J 033800, H02J 073400	
(86) International Application No	:NA	<p>(72)Name of Inventor :</p>
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a hybrid system (102, 104, 106) for generation of electric energy. The hybrid system (102, 104, 106) comprises a first energy generating module (120), a second energy generating module (130), a plate (126), a connection mechanism (118) and a hollow member (128). The first energy generating module (120) comprises a rotor (122). The rotor (122) is configured to rotate with the first energy generating module (120) to generate a first energy. The plate (126) is coupled to the bottom end of the first energy generating module (120) and is configured to couple the second energy generating module (130). Further, the second energy generating module (130) generates a second energy. Moreover, the hollow member (128) is configured to provide support to the plate (126) and is coupled at the lower end of the connection mechanism (118) via a coupling mechanism (124). Fig. 4

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036854 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED AIRCRAFT BLACK BOX

(51) International classification	:B62D 410000, B64D 130600, B64D 450000, G07C 050000, G07C 050800
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention relates to an improved aircraft black box system. The system comprises a black box unit (1) with a robust casing (2), high-capacity data storage devices (3), a real-time data transmission module (4), and cloud-based data storage servers (5). It enhances flight data recording, storage, and analysis for aviation safety and accident investigation. The system provides increased storage capacity, real-time data transmission, remote access, and advanced security measures. The invention offers significant improvements to enhance aviation safety and improve accident investigation efficiency. (Figure to be published along with abstract : FIG. 1)

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036864 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED VOTING SYSTEM WITH TWO-FACTOR AUTHENTICATION FOR SECURE AND RELIABLE ELECTIONS

(51) International classification :G06Q 204000, G07C 130000, H04L 093200, H04L 656000, H04W 120600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
Application Number :NA
Filing Date :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

AUTOMATED VOTING SYSTEM WITH TWO-FACTOR AUTHENTICATION FOR SECURE AND RELIABLE ELECTIONS ABSTRACT
The automated voting system described in this patent employs a 5 two-factor authentication process to ensure secure and reliable voting in an election. The system includes an automated voting machine with ID, fingerprint, and iris scanners, a display screen, and a printer. The user's identity is verified by scanning their ID and comparing it with the voter list data in the database. A second level of authentication is initiated using the 10 fingerprint and iris scanners, and upon successful authentication, the display screen is activated for casting votes. A unique alphanumeric receipt number is generated for verification purposes, and users can access the platform to check their votes and the total number of votes cast. The method aims to provide a secure and reliable means of voting in 15 an election using a two-level authentication process. Claims: 10, Figures: 4

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036877 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED SYSTEM AND METHOD FOR ALLOWING VISUALLY IMPAIRED USERS TO USE THEIR PERSONAL COMPUTERS

(51) International classification	:A61H 030600, G06F 031600, G06F 087000, G06Q 300200, G09B 210000	(71)Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA GREATER NOIDA --- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)KUSHAGRA MITTAL Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 2)ABHISHEK KUMAR Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 3)DEEPAK BAGHEL Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 4)MS. GARIMA JAIN Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 5)DR. RAJ KUMAR GOEL Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida ----- 6)MS. ADITEE MATTOO Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system and method for enabling visually impaired users to operate their personal computers using voice input and output. The system includes a voice input module (202), a voice output module (206), and a processing module (204) that receives voice commands from the user, translates them into text commands, and executes them based on the task data stored in memory (108), and generates a voice response that is outputted to the user through one or more speakers. The system (100) may be used with laptops, desktops, or a combination thereof and uses a Speech Recognition module selected from a range of options. The method involves initiating the voice input module (202) by a voice command from the user, processing the voice commands using the processing module (204), and providing output in the form of a voice response through the voice output module (206).

No. of Pages : 27 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036880 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED WATER LEVEL CONTROLLING SYSTEM WITH DOUBLE CRANK CHIN MECHANISM

(51) International classification	:A01G 251600, C02F 010000, G01N 331800, G05B 150200, G05D 091200	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA GREATER NOIDA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)PANKAJ KUSHWAHA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(87) International Publication No	: NA	2)MR. ANANT AGRAWAL Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	3)MR. SANJAY KUMAR Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
Filing Date	:NA	4)DR. HITESH Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An automated water level controlling system (100) designed to regulate the water level in a tank. It includes a water tank (102), a double crank chin mechanism (106), switches (104a-104n), a 4-way elbow (206), a motor pump (108), an electric board (110), and wires (112). The double crank chin mechanism (106) controls the water flow into the tank using slotted pipes (202a-202n), a crank rod (204), and floating balls (206a-206b) that activate and deactivate the switches (104a-104n) based on the water level in the tank. The system is activated by turning on the motor pump (108) manually, and as the water level rises or falls, the floating balls (206a-206b) push the appropriate switch to regulate the flow of water into the tank. The electric board (110) distributes power to the components of the system.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032728 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A DEVICE FOR PROVIDING ASSISTANCE AND REHABILITATION DURING FLEXION AND EXTENSION MOVEMENT OF FINGERS

(51) International classification	:A61F 2/54, A61F 2/58, A61F 2/68, A61F 2/70, B25J 13/02, B25J 13/08, B25J 15/00, B25J 9/00	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)VITTHAL MANOHAR KHATIK Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)ANUPAM SAXENA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- -----
Filing Date	:NA	

(57) Abstract :

ABSTRACT A DEVICE FOR PROVIDING ASSISTANCE AND REHABILITATION DURING FLEXION AND EXTENSION MOVEMENT OF FINGERS The present invention discloses a device for providing assistance and rehabilitation during flexion and extension movement of fingers. The device (100) comprises at least four articulated finger units (102), an articulated thumb unit (104), at least four primary cords (114), a secondary cord (116), a dorsal fixation unit (118), a palm fixation unit (120), a primary actuation unit (122), and a secondary actuation unit (124). The device (100) is adapted to provide an optimal range of motion at the time of flexion and extension movement of one or more fingers of the user. The device (100) is adapted to assistance and stability to the hand, making it easier for the user to perform daily activities with comfort. The device (100) is adapted to assist the user to perform daily activities more easily and independently, improving their quality of life and overall well-being. FIG. 1

No. of Pages : 31 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032771 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR PROVIDING FLEXION AND EXTENSION MOVEMENT TO ARTICULATED FINGER UNITS OF AN ARTIFICIAL HAND

(51) International classification	:A61F 2/54, A61F 2/58, A61F 2/68, A61F 2/70, B25J 13/02, B25J 13/08, B25J 15/00, B25J 9/00	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)VITTHAL MANOHAR KHATIK Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)ANUPAM SAXENA Address of Applicant :DEPARTMENT OF MECHANICAL ENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA KANPUR -----
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM FOR PROVIDING FLEXION AND EXTENSION MOVEMENT TO ARTICULATED FINGER UNITS OF AN ARTIFICIAL HAND The present invention discloses a system for providing flexion and extension movement to articulated finger units of an artificial hand. The system (100) comprises a differential mechanism unit (106), an actuation unit (132), and a control unit (152). The differential mechanism unit (106) comprises a first guide rail (114), a second guide rail (120), and a third guide rail (126). The first guide rail (114) is configured with a first cable holder (116) to hold a first cable (118). The second guide rail (120) is configured with a second cable holder (122) to hold a second cable (124). The third guide rail (126) is configured with a third cable holder (128) to hold a third cable (130). The first cable holder (116), the second cable holder (122), and the third cable holder (128) are connected to each other to provide flexion and extension movements in the articulated finger units (102). FIG. 1

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032808 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR REMOTE PATIENT MONITORING

<p>(51) International classification :A61B 050000, A61P 350000, G16H 106000, G16H 406700, H04L 011600</p> <p>(86) International Application No :NA</p> <p>Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA</p> <p>Filing Date :NA</p> <p>(62) Divisional to Application Number :NA</p> <p>Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor : 1)GARG, Shilpi Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>2)KAUSHAL, Rajesh Kumar Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>3)KUMAR, Naveen Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>4)PANDA, Surya Narayan Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p> <p>5)FLAMMINI, Francesco Address of Applicant :IDSIA USI-SUPSI, University of Applied Sciences and Arts of Southern Switzerland, 6928 Manno, Switzerland. Manno -----</p> <p>6)VERMA, Anshul Address of Applicant :Banaras Hindu University, Varanasi - 221005, Uttar Pradesh, India Varanasi -----</p> <p>7)RANI, Meena Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----</p>
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(57) Abstract :

The disclosed embodiments illustrate a system (100) and a method (300) for patient monitoring, the system includes one or more wearable devices (102) attached to the patient, each wearable devices include sensors (104) to identify health parameters including heart rate, blood pressure, respiratory rate, oxygen saturation level, body temperature, and activity level. Additionally, the system includes a processing unit (106) that receives signals from the wearable devices, the received data with pre-defined thresholds, and transmits notifications to a computing device (114) if any health parameters exceed the thresholds. The system also stores received health data on a server (116), allowing communication between the patient and healthcare practitioners that access the patient's health history from the server. Further, the system includes a blockchain integration module, where the processing unit is configured to store personal information, the health history, and the received set of health parameters of a plurality of patients in a blockchain ledger.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032232 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : “A HERBAL COMPOSITION AND METHOD FOR PREPARATION THEREOF”

(51) International classification	:A61K 361850, A61K 364840, A61K 366700, A61K 368100, A61P 370400
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

The present invention relates to a herbal composition, comprising seeds of Pongamia pinnata; and tubers of Dioscorea villosa. The method for preparation of the herbal composition comprises the following steps; i) seeds of Pongamia pinnata and tubers of Dioscorea villosa, were collected washed, dried the to obtain a dried powder; ii) The mixture solution is transferred in two different Soxhlet apparatus and extracted with solvent. iii) The uniform solution is dried in a hot air oven at 55°C-65°C to obtain an extract; and iv) extract was concentrated by distilled water and their solvents were reduced under pressure and stored in vacuum desiccators.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032233 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYNTHESIS OF SILVER NANOPARTICLES USING THE EXTRACT OF COELASTRELLA TERRESTRIS

(51) International classification	:A23L 331050, A61K 333800, B22F 092400, B82Y 400000, C09D 115200
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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2)Harish

Name of Applicant : NA

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(57) Abstract :

The present invention relates to a method for synthesizing silver nanoparticles (AgNPs) utilizing the extract of Coelastrella terrestris as a natural reducing and capping agent. The method optimizes various parameters such as the weight of dried algal biomass, concentration of silver nitrate (AgNO₃), ratio of algal extract to AgNO₃ solution, pH, temperature, and reaction time. The optimized conditions were determined to be pH 10, room temperature (RT), a ratio of 10:90 for algal extract to AgNO₃, and a reaction time of 24 hours. The synthesized AgNPs exhibited characteristic properties such as a peak at 420 nm in the UV-visible spectrum, crystalline and spherical morphology based on X-ray diffraction (XRD) analysis, a zeta potential of -25.5 mV, and a particle size ranging from 10 to 80 nm with an average size of 35 nm according to scanning electron microscopy (SEM) observations.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032234 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMMUNICATION DEVICE FOR HEARING IMPAIRED PEOPLE TO ACCESS MEDICAL EMERGENCY SERVICE

(51) International classification	:A61N 013900, G16H 406700, H04R 250000, H04W 049000, H04W 765000	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Mr. Anshu Kumar Address of Applicant :Department of ECE, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)Dr. Rajnish Kumar Address of Applicant :Department of IT, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
Filing Date	:NA	

(57) Abstract :

“COMMUNICATION DEVICE FOR HEARING IMPAIRED PEOPLE TO ACCESS MEDICAL EMERGENCY SERVICE” The present invention relates to the field of an apparatus for adapting a mobile communication device to the benefit of hearing-impaired people, and more specifically, to a mobile communication device to access medical emergency service. The communication device for hearing impaired people to access medical emergency service includes a microphone configured to recognize sound events, a reception module for receiving audio information, an information conversion module to convert said audio information into speech data, said information conversion means being in communication with said message reception, a storage unit that facilitates machine-readable medium storing instruction that, when executed by the at least one processing unit, a processing unit configure to organizing said speech data into a symbolic representation of said speech data, said data processing means being in communication with said information conversion, and a communication module for sending alert in case of medical emergency. Dated this 17th day of October, 2022 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032235 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR ESTIMATION AND PREDICTIVE CONTROL OF AIR POLLUTION

(51) International classification	:G05B 130400, G06N 200000, G07C 050800, H04L 410853, H04M 110600	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dr. Prabha Nair Address of Applicant :Department of IT, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(87) International Publication No	: NA	2)Dr. V K Pandey Address of Applicant :Department of ECE, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	3)Dr. Raman Batra Address of Applicant :Department of ME, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“SYSTEM FOR ESTIMATION AND PREDICTIVE CONTROL OF AIR POLLUTION” The present invention relates to the field of a system for estimating air pollution and a method applied thereto, and more specifically, to a movable real-time air pollution estimation system and a method applied thereto. The system for estimation and predictive control of air pollution including a set of sensors configured to generate output signals conveying information related to air pollutant present in air, a data acquisition module to generating a circuitry to receive said digital signals, a storage unit configured to store a database for storing analyzed information, a communication module for transmitting air pollution data detected by and received from the set of sensors and position data received from the positioning device via the network system, a processing unit for receiving the air pollution data and the position data transmitted from the communication module, and then performing process of analysis and management on the data, and one or more display units to displayed the pollution data. Dated this 17th day of October, 2022 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 14 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032236 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WALL UNIT FOR SAVING PLASTIC WASTES USING ECOBRICK

(51) International classification :E04C 1/00, E04C 1/40,
E04C 1/41
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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(72)Name of Inventor :

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A, Gurugram, Haryana-122017, India Gurugram -----
--

(57) Abstract :

“WALL UNIT FOR SAVING PLASTIC WASTES USING ECOBRICK” Accordingly, embodiments herein disclose a wall unit for saving plastic wastes using ecobrick, comprising of: an ecobrick filled with a plastic wrapper. The ecobrick includes a pilot model with a mortar which has been created as the wall unit. The compressive strength of such wall unit is found to be 31 MPa after 28 days of curing which is much higher than the plain mortar used in a construction work, thereby improving the performance of mortar using the ecobrick. The use of plastic bottles in the wall unit also saves the amount of mortar to be actually used during construction.

Further, the use of ecobrick as a building construction material is provided for marginal structures like, animal shelter, boundary wall of gardens, stools and benches in community parks, etc. Figure to be published with Abstract: Figure 1 Dated this 28th day of April, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032237 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART CABLE CONNECTING DEVICE

(51) International classification	:B60L 531600, F21V 080000, H02G 151800, H04L 126400, H04N 214363	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
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(87) International Publication No	: NA	2)Dr. Hitesh Singh Address of Applicant :Department of CSE, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	3)Dr. Raman Batra Address of Applicant :Department of ME, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“SMART CABLE CONNECTING DEVICE” The smart cable connecting device includes a sensing unit for wirelessly communicating a sensed condition away from the device and wirelessly receiving a signal, a socket including a socket body having at least one internal cavity therein, an electrically conductive contact terminal disposed within the cavity for establishing an electrical connection between the electrical power supply wiring and the socket, a memory storing instructions executable by the controller, a controller configured to connect with signal receiving device, electrification display and lightning protection circuit, described controller is also connected with the image capture device gathering electrification display duty, a releasable latch carried on the combination of the plug and the socket for releasably mounting the fixture on the support and a communication module configured to transmit a control signal over a control channel that runs from a connector port on a patch panel of the local area network to an integrated circuit chip mounted on the end device through at least a communications cable. Dated this 17th day of October, 2022
POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034678 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DIGITAL NOTICE BOARD

(51) International classification	:G06Q 101000, G06Q 501000, G06Q 503000, G09F 071800, G09F 150000	(71) Name of Applicant : 1)Chitkara University Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala ----- 2)Chitkara Innovation Incubator Foundation Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)JAGGI, Chinky Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(61) Patent of Addition to Application Number	:NA	2)GAUR, Manoj Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
Filing Date	:NA	3)KUMAR, Pankaj Address of Applicant :Chitkara University, Chandigarh-Patiala National Highway, Village Jhansla, Rajpura, Punjab - 140401, India. Patiala -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a notice board (100) for educational institutions, hospitals, and corporate environments and the notice board may be used as a nameplate. The notice board (100) includes a housing (102), a display unit (104), an input unit (106), and a control unit (108). The housing (102) is designed to be mounted in a predefined area, and the display unit (104) is attached to the housing to display information provided by an entity. The input unit (106) is operatively coupled to the display unit and is configured to enter the information, which may include a name, address, logo, and contact detail. The control unit (108) displays at least one of a set of information selected by the entity to the display unit. Moreover, the notice board provides a versatile and efficient solution for displaying information in a variety of settings.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034679 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR PRESERVING LATENT FINGERPRINTS DEVELOPED BY PHYSICAL METHOD

(51) International classification	:A61B 051170, A61B 051172, C12P 192000, G03G 090800, H01M 105400
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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Address of Applicant :Block 57-339/340, Heavy Water Colony, Rawatbhata, Rajasthan - 323307, India. Rawatbhata -----

(57) Abstract :

The present disclosure relates to an efficient and cost-effective composition and method for preserving latent fingerprints obtained by powder methods and particularly to preserving latent fingerprints obtained by powder methods on porous surfaces using 1%-10% Polyvinyl alcohol (PVA) solution.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202311034701 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN APPARATUS TO ORDER WAITING TOKENS

(51) International classification	:A63F 030000, G05D 010200, H01J 373040, H01M 080401, H04L 090800
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(72)Name of Inventor :

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Address of Applicant :Department of Management Studies, Graphic Era Deemed to be University, Dehradun. Dehradun -----

(57) Abstract :

The present invention discloses an apparatus to order waiting tokens. The apparatus to order waiting tokens (100) comprises of a twin tower assembly having a first tower (101a) and a second tower (101b); an arch (102) having first sleeve (102a) and a second sleeve (102b) connected at the opposite ends of said arc (102); and a plurality tokens (104) having a hole (104h) at the centre and an extruded semi-circle at the circumference to pile-up said tokens on the said first rod and second rod to order waiting of public at places such as doctor's clinic or banks or other similar places to serve people on first-come and first-serve basis.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034721 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF A MACHINE LEARNING BASED APPROACH TO PREDICT CHARGING DEMAND FOR ELECTRIC VEHICLES

(51) International classification	:B60L 536600, G06N 030800, G06N 050000, G06N 200000, G06N 202000	(71)Name of Applicant :
(86) International Application No Filing Date	:NA :NA	1)Anita Rani Mehta Address of Applicant :Ph.D. Research Scholar (UGC JRF), Department of Computer Science and Applications, Kurukshetra University, Kurukshetra, India Kurukshetra ----- --
(87) International Publication No	: NA	-----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	2)Dr. Priyanka Sisodia 3)Dr. Sangamesh Sirsg 4)Dr. Shikha Gautam 5)Chanchal Tiwari 6)Dr. CH. Nagaraju 7)Dr. Bhukya Madhu 8)Kamal Kishor Sharma 9)Dr. Pankaj Rahi Name of Applicant : NA Address of Applicant : NA
(62) Divisional to Application Number Filing Date	:NA :NA	(72)Name of Inventor : 1)Anita Rani Mehta Address of Applicant :Ph.D. Research Scholar (UGC JRF), Department of Computer Science and Applications, Kurukshetra University, Kurukshetra, India Kurukshetra ----- -- 2)Dr. Priyanka Sisodia Address of Applicant :Associate Professor, Department of Master of Computer Applications, Geetanjali Institute of Technical Studies, Udaipur, Rajasthan, India Udaipur ----- -- 3)Dr. Sangamesh Sirsg Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Guru Nanak Dev Engineering College Bidar, Karnataka, India Bidar ----- -- 4)Dr. Shikha Gautam Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Engineering and Technology, University of Lucknow, Lucknow, India Lucknow ----- -- 5)Chanchal Tiwari Address of Applicant :Research Scholar, Poornima University, Jaipur, Rajasthan, India Jaipur - ----- -- 6)Dr. CH. Nagaraju Address of Applicant :Professor, Department of Electronics and Communication Engineering, Annamacharya Institute of Technology and Sciences, Andhra Pradesh, India Tirupati ----- -- 7)Dr. Bhukya Madhu Address of Applicant :Assistant Professor, Department of Computer Science & Engineering, KG Reddy College of Engineering & Technology, Hyderabad, India Hyderabad ----- -- 8)Kamal Kishor Sharma Address of Applicant :Senior Lecturer, Department of Mechanical Engineering (Maintenance), IIIMT College of Polytechnic, Greater Noida, India Greater Noida ----- -- 9)Dr. Pankaj Rahi Address of Applicant :Associate Professor, Department of Artificial Intelligence & Data Science, Poornima Institute of Engineering and Technology, Jaipur, Rajasthan, India Jaipur ----- --

(57) Abstract :

The invention relates to a system and method to develop Machine Learning based approach to predict charging demand for electric vehicles. Predicting charging demand for electric vehicles (EVs) is an important task for optimizing charging infrastructure and ensuring efficient utilization of resources. Machine learning can be utilized to develop predictive models for estimating EV charging demand. The present invention discloses an Machine learning based approach to predict charging demand for electric vehicles can be developed which includes data collection, data pre-processing, feature engineering, splitting the dataset, model selection, model training, model evaluation, model refinement, predict charging demand and monitoring and updating. The success of the predictive model heavily depends on the quality and relevance of the collected data. Therefore, it's crucial to have a comprehensive and representative dataset for accurate predictions.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032238 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR MONITORING WATER FOR USE IN RAINFED AND DRYLAND FARMING BY USING DRONES

(51) International classification	:B64C 390200, C02F 014200, G01N 331800, G06Q 500600, G06T 030000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**

1)The NorthCap University

Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)**Name of Inventor :**

1)Dr. Roshan Raman

Address of Applicant :Department of Multidisciplinary Engineering, The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----

(57) Abstract :

“SYSTEM FOR MONITORING WATER FOR USE IN RAINFED AND DRYLAND FARMING BY USING DRONES”

Accordingly, embodiments herein disclose a robust system for monitoring water use in rainfed and dryland farming using drones, comprising of: a drone including a plurality of sensors, high-resolution digital imaging, and artificial intelligence (AI) capabilities. The drone can fly over and gather data on the agriculture land. The data is to be combined with other data points to generate a water use insights report. Further, the proposed system may include a self-learning artificial intelligence (AI) model which is configured to enable the drone to detect changes in the environment, identify when the water is scarce, and to recommend ways to improve the water use efficiency. Additionally, the system provides the water use alert notifications based on the drone monitoring data in the rainfed and dryland farming. Dated this 28th day of April, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032239 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVICE FOR TRANSMITTING ROTARY MOTION

(51) International classification	:F16H 25/00, F16H 53/00	(71) Name of Applicant : 1)Noida Institute of Engineering and Technology Address of Applicant :19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Raman Batra
Filing Date	:NA	Address of Applicant :Department of ME, Noida Institute of Engineering and Technology, 19, Institutional Area, Knowledge Park II, Greater Noida, Uttar Pradesh-201306, India Greater Noida -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“DEVICE FOR TRANSMITTING ROTARY MOTION” The present invention relates to the field of a transmission device and in particular to the methods of transmitting motion and to devices for effecting the methods of transmitting motion. The device for transmitting rotary motion includes a body configured with driving, driven and motion-transmitting members installed therein, a motion-transmitting member for transforming an alternating rotary motion of a drive shaft into an undirected rotary motion of a body driven about driven shaft, a mechanical energy accumulation member in the form of a spring device, engagement member for transforming the linear motion into an undirected rotary motion of the intermediate shaft via drive members, and wherein the motion member is designed to exhibit an overtravel in relation to the transmitted rotary motion. Dated this 17th day of October, 2022 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032240 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INLINE WORM-PLANETARY GEAR BOX FOR TORQUE MULTIPLICATION

(51) International classification	:B25B 170200, B60K 170400, F16H 036600, F16H 570400, F16H 610000	(71) Name of Applicant : 1)Meerut Institute of Engineering and Technology, Meerut Address of Applicant :NH-58, Baghpat Bypass Crossing, Delhi-Roorkee Highway, Meerut-250005, Uttar Pradesh, India Meerut ----- 2)Ratnendra Kushwaha 3)Mr. Lakshya Gupta 4)Dr. Awani Bhushan 5)Dr. Swapan Suman Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	2)Ratnendra Kushwaha Address of Applicant :B-315, Gaur Homes, Govindpuram, Ghaziabad-201001, Uttar Pradesh, India Ghaziabad ----- ----- 3)Mr. Lakshya Gupta Address of Applicant :SG-132, G block, Shastri Nagar, Ghaziabad -201001, Uttar Pradesh, India Ghaziabad ----- 4)Dr. Awani Bhushan Address of Applicant :Vellore Institute of Technology, Vandalur Kelambakkam road, Chennai-600127, India Chennai ----- ----- 5)Dr. Swapan Suman Address of Applicant :Meerut Institute of Engineering and Technology, NH-58, Baghpat Bypass Crossing, Delhi-Roorkee Highway, Meerut-250005, Uttar Pradesh, India Meerut -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“INLINE WORM-PLANETARY GEAR BOX FOR TORQUE MULTIPLICATION” Accordingly, embodiments herein disclose an inline worm-planetary gear box for torque multiplication, comprising of: an upper case 1; a lower case 2; and an input worm 3 which is placed inside a worm shaft hole attached by a worm bearing 4 on the lower case 2. The worm is engaged with a worm gear 5 placed on a worm gear shaft 6 placed inside a worm shaft bearing 7. The worm gear shaft 6 is in turn connected to a sun gear 8 of a first unit of planetary gear set. Further, the proposed gear box may include a shaft arm of second unit connected to the sun gear of third unit. The planet gears are engaged to a ring gear 11, which is fixed inside ring grooves which are part of upper and lower cases 1, 2. Figure to be published with Abstract: Figure 3 Dated this 27th day of March, 2023 Pooja IN/PA/1838 Agent for the Applicant

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032241 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TWO-INPUT BULK-DRIVEN MOS TRANSISTOR BASED VOLTAGE DIFFERENCING INVERTING BUFFERED AMPLIFIER

(51) International classification	:A61B 172200, G06F 094550, G11C 111500, H03F 034500, H04N 196300	(71) Name of Applicant : 1)Dr. Richa Srivastava Address of Applicant :Electronics and Communication Engineering Department, KIET Group of Institutions, Delhi-NCR, Ghaziabad, India Ghaziabad ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Dr. Richa Srivastava Address of Applicant :Electronics and Communication Engineering Department, KIET Group of Institutions, Delhi-NCR, Ghaziabad, India Ghaziabad -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“TWO-INPUT BULK-DRIVEN (BD) MOS TRANSISTOR BASED VOLTAGE DIFFERENCING INVERTING BUFFERED AMPLIFIER” Accordingly, embodiments herein disclose a two-input bulk-driven (BD) MOS transistor based voltage differencing inverting buffered amplifier (VDIBA), comprising of: two-input bulk-driven (BD) NMOS transistor which is configured to provide significant reduction in power consumption along with increased input signal range and acceptable bandwidth. The VDIBA is operated at supply voltage of ± 0.6 V with input signal range of ± 0.6 V and quiescent power consumption of $103 \mu\text{W}$ which is also quite low. The proposed VDIBA significantly reduces the power dissipation and increases the input signal range, and also provides extremely low power dissipation of the proposed VDIBA and makes it suitable for biomedical signal processing applications. Figure to be published with Abstract: Figure 2 Dated this 10th day of April, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202311032266 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR THE SYNTHESIS OF PHENOLS AND PHENOLIC COMPOUNDS USING HYDROXYL BORON NITRIDE NANOSHEETS AS CATALYSTS

(51) International classification	:B01J 272400, B82Y 400000, C01B 210640, C07C 175800, C08K 051300	(71)Name of Applicant : 1)Indian Institute Of Technology, Mandi Address of Applicant :IP & TT Cell, SRIC Office, IIT Mandi, Kamand, Himachal Pradesh 175005, India ----- -----
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)Priyanka Choudhary Address of Applicant :School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India ----- -----
(61) Patent of Addition to Application Number	:NA	2)Kamlesh Kumari Address of Applicant :School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India ----- -----
Filing Date	:NA	3)Devendra Sharma Address of Applicant :School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India ----- -----
(62) Divisional to Application Number	:NA	4)Sahil Kumar Address of Applicant :School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India ----- -----
Filing Date	:NA	5)Venkata Krishnan Address of Applicant :School of Chemical Sciences and Advanced Materials Research Center, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India ----- -----

(57) Abstract :

ABSTRACT METHOD FOR THE SYNTHESIS OF PHENOLS AND PHENOLIC COMPOUNDS USING HYDROXYL BORON NITRIDE NANOSHEETS AS CATALYSTS A method (100) for the synthesis of phenols and phenolic compounds using hydroxyl boron nitride nanosheets (103) as catalyst, may be provided. The method (100) may include sonication (110) of the boron nitride (102), hydrothermal (112) of boron nitride (102) to obtain hydroxyl boron nitride as catalyst (103) and using the hydroxyl boron nitride catalyst (103) in the synthesis of phenols and phenolic compounds. The functionalized catalyst (103) used for synthesis of phenol and phenolic compounds, provides a green, sustainable, highly reusable and metal-free methodology under mild conditions

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202311032304 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR METAL-FREE DIRECT TRANSFORMATION OF ARYL BORONIC ACID TO PRIMARY AMINES

(51) International classification	:A61K 083100, A61K 317850, C07D 131200, C07F 050200, G01N 335200	(71)Name of Applicant : 1)Puneet Kumar Address of Applicant :Department of Chemistry, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow-226025, Uttar Pradesh, India Lucknow ----- 2)Saumya Verma 3)Komal Rathi 4)Dinesh Chandra 5)Dr. Jawahar L. Jat 6)Dr. Ved Prakash Verma Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72)Name of Inventor : 1)Puneet Kumar Address of Applicant :Department of Chemistry, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow-226025, Uttar Pradesh, India Lucknow ----- 2)Saumya Verma Address of Applicant :Department of Chemistry, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow-226025, Uttar Pradesh, India Lucknow ----- 3)Komal Rathi Address of Applicant :Department of Chemistry, Banasthali University, Banasthali Newai-304022, Rajasthan, India Banasthali ----- 4)Dinesh Chandra Address of Applicant :Department of Chemistry, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow-226025, Uttar Pradesh, India Lucknow ----- 5)Dr. Jawahar L. Jat Address of Applicant :Department of Chemistry, Babasaheb Bhimrao Ambedkar University (A Central University), Vidya Vihar, Raebareli Road, Lucknow-226025, Uttar Pradesh, India Lucknow ----- 6)Dr. Ved Prakash Verma Address of Applicant :Department of Chemistry, Banasthali University, Banasthali Newai-304022, Rajasthan, India Banasthali -----
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a novel method for the metal-free direct transformation of aryl boronic acids or esters to primary amines. The method employs N-Boc-O-tosylhydroxylamine (TsONH_{Boc}) as an aminating agent, enabling the synthesis of primary aromatic amines with high yield and broad substrate scope, including electron-rich, electron-deficient, heterocyclic, sterically hindered, and halogenated substrates. The reaction takes place in an organic solvent or solvent mixture under acidic conditions and can be performed at temperatures ranging from ambient to the reflux temperature of the reaction medium. The N-Boc-O-tosylhydroxylamine utilized in this method is commercially available, easy to synthesize, non-hygroscopic, and stable at ambient temperature, offering advantages over traditional -NH₂ reagents that are often explosive or hygroscopic. This invention overcomes the limitations of traditional methods and provides a sustainable, metal-free approach for the synthesis of aryl amines, which are essential building blocks in pharmaceuticals, agrochemicals, and functional materials.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034817 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR SECURE PATH FINDING OR ROUTE DETECTION IN GOOGLE MAPS

(51) International classification	:A61M 013600, A61M 392200, G06F 030230, G06Q 100400, H04Q 030000	(71) Name of Applicant : 1)The NorthCap University Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23 A, Gurugram, Haryana-122017, India Gurugram ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	1)Mr. Sumit Kumar Address of Applicant :Assistant Professor, The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
(61) Patent of Addition to Application Number	:NA	2)Dr. Neeti Kashyap Address of Applicant :Assistant Professor (Sel. Grade), The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
Filing Date	:NA	3)Ms. Prerna Singal Address of Applicant :Assistant Professor (Sr. Scale), The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“SYSTEM AND METHOD FOR SECURE PATH FINDING OR ROUTE DETECTION IN GOOGLE MAPS” Accordingly, embodiments herein disclose system and method for secure path finding or route detection in Google maps. The system comprises a plurality of street cameras, smart streetlights, and traffic lights which can collect real-time traffic data, road conditions, and weather conditions. The collected data is processed and analyzed using machine learning techniques to identify patterns and trends that can help optimize routing suggestions for users. Based on the collected and analyzed data, the system calculates the fastest, safest, and most efficient route to the user's destination using transit node routing algorithm. Also, the proposed system provides alternative routes to the user, thereby avoiding congestion or dangerous roads by users and providing them with options if there are multiple routes to their destination. Dated this 9th day of May, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034820 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SOLAR POWERED AND BATTERY SWAPPABLE ELECTRIC KART

(51) International classification	:B60L 538000, B62D 211800, F21S 090300, F21V 080000, H02J 073500	(71) Name of Applicant : 1)Dr. Amit Porwal Address of Applicant :Assistant Professor, Mechanical Engineering Department, Feroze Gandhi Institute of Engineering & Technology, Raebareli, Uttar Pradesh, India Raebareli -----
(86) International Application No	:NA	2)Prof. Neha Gupta Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Rishabh Pandey Address of Applicant :Student, Mechanical Engineering Department, Babu Banarsi Das Institute of Technology & Management, Lucknow, Uttar Pradesh, India Lucknow -----
(87) International Publication No	: NA	2)Ayush Tiwari Address of Applicant :Student, Mechanical Engineering Department, Babu Banarsi Das Institute of Technology & Management, Lucknow, Uttar Pradesh, India Lucknow -----
(61) Patent of Addition to Application Number	:NA	3)Yuvraj Singh Rathore Address of Applicant :Student, Mechanical Engineering Department, Babu Banarsi Das Institute of Technology & Management, Lucknow, Uttar Pradesh, India Lucknow -----
Filing Date	:NA	4)Harshit Asthana Address of Applicant :Student, Mechanical Engineering Department, Babu Banarsi Das Institute of Technology & Management, Lucknow, Uttar Pradesh, India Lucknow -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“SOLAR POWERED AND BATTERY SWAPPABLE ELECTRIC KART” Accordingly, embodiments herein disclose a solar powered and battery swappable electric kart, comprising of: a chassis which is configured to position on bottom portion of the solar powered and battery swappable electric kart. Further, the proposed electric kart may include a plurality of tires which is positioned below the chassis, and two DC motors which are configured to rotate the plurality of tires and initiate the forward motion of the electric kart. Furthermore, the proposed electric kart may include a steering wheel mechanism which is configured to steer the electric kart in left or right directions. The two DC motors and two switches are connected to two batteries with means of wires such that the two batteries are charged via a solar panel. Dated this 29th day of April, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202311034821 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DRONE-BASED AMBULANCE ALARM SERVICE SYSTEM FOR HEAVY TRAFFIC

(51) International classification	:B64C 390200, G01S 050000, G05D 010000, G06Q 503000, H04L 693290	(71) Name of Applicant : 1)The NorthCap University Address of Applicant :Near Rotary Public School Cartarpuri Alias, Huda, Sector 23 A, Gurugram, Haryana-122017, India Gurugram ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Ms. Prerna Singal Address of Applicant :Assistant Professor (Sr. Scale), The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
(87) International Publication No	: NA	2)Dr. Neeti Kashyap Address of Applicant :Assistant Professor (Sel. Grade), The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
(61) Patent of Addition to Application Number	:NA	3)Mr. Sumit Kumar Address of Applicant :Assistant Professor, The NorthCap University, Sector 23 A, Gurugram, Haryana-122017, India Gurugram -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“DRONE-BASED AMBULANCE ALARM SERVICE SYSTEM FOR HEAVY TRAFFIC” Accordingly, embodiments herein disclose a drone-based ambulance alarm service system for heavy traffic, comprising of: a fleet of drones equipped with high resolution cameras, ultrasonic detectors, GPS sensor, and RC buzzer alarm. The ultrasonic detectors detect vehicles. The drones can monitor the roads and provide real-time updates to ambulance drivers on the best routes to take. The drones can be controlled by a central control center, which can monitor traffic conditions and coordinate the movement of drones to provide the most efficient escort for ambulances. The drones can be equipped swarm intelligence algorithms to detect and avoid obstacles such as buildings, trees, and power lines. Dated this 9th day of May, 2023 POOJA Agent for the Applicant IN/PA/1838

No. of Pages : 9 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202311033434 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF CHAT ANALYZER USING NLP AND MACHINE LEARNING

(51) International classification	:B08B 031200, G05B 130400, G06F 403000, G06N 030400, G06N 200000	(71)Name of Applicant : 1)Arin Katiyar Address of Applicant :Student, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----
(86) International Application No	:NA	2)Atul Khajuria
Filing Date	:NA	3)Aman Tyagi
(87) International Publication No	: NA	4)Shradha Saini
(61) Patent of Addition to Application Number	:NA	5)Jyoti Sharma
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(62) Divisional to Application Number	:NA	(72)Name of Inventor : 1)Arin Katiyar Address of Applicant :Student, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----
Filing Date	:NA	2)Atul Khajuria Address of Applicant :Student, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----
		3)Aman Tyagi Address of Applicant :Student, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----
		4)Shradha Saini Address of Applicant :Student, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----
		5)Jyoti Sharma Address of Applicant :Assistant Professor, KIET Group of Institutions, Delhi-NCR, Ghaziabad ----- -----

(57) Abstract :

ABSTRACT The growth of instant messaging services like WhatsApp has led to an increase in the amount of data related to online communication that is produced each day. An approach to information retrieval is presented in this research for the purpose of analysing WhatsApp conversations. The objective is to obtain a deeper understanding of the communication patterns, subjects, and thoughts of the users. Tokenization, elimination of stop words, and stemming are all aspects of the preparation of the raw data that is required by the approach that has been suggested. After the data has been processed, more analysis is performed on it using methods such as frequency analysis and topic modelling. The analysis is carried out on a huge dataset of WhatsApp conversations in order to find common topics and themes that come up in the chats. The findings demonstrate that the methodology of information retrieval is able to successfully recognise recurring themes and communication patterns within the chats. This method can be utilised to get insights on the behaviour of group talks as well as the behaviour of individuals when messaging. In general, the findings of this study give a helpful foundation for evaluating conversations on WhatsApp by utilising information retrieval techniques. The results of this study have significance for a diverse set of fields and fields of study, including but not limited to the fields of communication studies, social network analysis, and marketing research. Python libraries like matplotlib, streamlit, seaborn, re, and pandas as well as several NLP principles were utilised in this research. Keywords: Chat Analyzer, Whatsapp Chat analysis, Machine Learning, NLP, Streamlit

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/03/2023

(21) Application No.202314014435 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CONTAINER

(51) International classification	:B60P 7/13, B61D 45/00, B61D 7/00, B65D 77/06, B65D 88/52, B65D 88/54, B65D 90/20	(71) Name of Applicant : 1)FORTINBRAS RESULTS PTY LTD Address of Applicant :22 Flametree Street, Bridgeman Downs, Queensland 4035, Australia ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)COOMER, Paul Address of Applicant :22 Flametree Street, Bridgeman Downs, Queensland 4035, Australia ----- 2)FARLEY, Scot Address of Applicant :7 Catherine Street, Birkdale, Queensland 4159, Australia -----
(31) Priority Document No	:17/687637	
(32) Priority Date	:05/03/2022	
(33) Name of priority country	:-----	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A CONTAINER An apparatus for storing or transporting flowable materials or other materials, such as diesel fuel, comprises a container and a support. The container is supported by the support. The support sits on or is mounted across an upper part of an open top 5 railway wagon or open top truck or truck trailer used for transporting bulk commodities (such as coal or iron ore). The apparatus is movable between an expanded configuration in which the container is expandable into a lower part of the open top railway wagon or open top truck or truck trailer used for transporting bulk commodities, and a collapsed configuration in which the container is 10 collapsible to the support. In use, a railway wagon is filled with coal or other bulk commodities and the apparatus is placed on top of the railway wagon in the collapsed configuration. At the port, the coal is emptied from the railway wagon and the container of the apparatus is filled with fuel. The support supports the apparatus on the railway wagon and the container extends into the railway wagon. 15 The fuel may then be transported back to the mine, where the apparatus is removed from the railway wagon and the container decanted. The railway wagon is again filled with coal or other bulk commodities and the apparatus is placed on top of the railway wagon in the collapsed configuration and the cycle continues to meet the fuel requirements of the relevant mine. 20 37

No. of Pages : 55 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032870 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT AND TESTING OF A MUCOADHESIVE HERBAL BUCCAL TABLET FOR THE TREATMENT OF APHTHOUS ULCERS

(51) International classification	:A61K 090000, A61K 092000, A61P 010200, G06F 083400, G06F 113600	(71) Name of Applicant : 1)KIET Group of institutions (KIET school of Pharmacy) Address of Applicant :Ghaziabad, Uttar Pradesh, India ----- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Ashu Mittal Address of Applicant :KIET Group of institutions (KIET school of Pharmacy), Ghaziabad, Uttar Pradesh, India ----- 2)Mr. Debaprasad Ghosh Address of Applicant :KIET Group of institutions (KIET school of Pharmacy), Ghaziabad, Uttar Pradesh, India ----- 3)Ms. Mansi Tyagi Address of Applicant :KIET Group of institutions (KIET school of Pharmacy), Ghaziabad, Uttar Pradesh, India ----- 4)Mr. Ayush Sharma Address of Applicant :KIET Group of institutions (KIET school of Pharmacy), Ghaziabad, Uttar Pradesh, India ----- 5)Mr. Hemant Tomar Address of Applicant :KIET Group of institutions (KIET school of Pharmacy), Ghaziabad, Uttar Pradesh, India ----- -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The aim of the study is to formulate bucco adhesive tablet with selected herbal active ingredients which will provide an increased contact time as well as the desired antibacterial, analgesic and anti-inflammatory effects. Two natural active ingredients were selected based on literature. The dosages used for active ingredients i.e. Yashtimadhu and d-limonene, were based on literature as well as the dosages of products already on the market. The compatibility of Yashtimadhu plant extract with selected pharmaceutical excipients was assessed using DSC. During compatibility studies, the natural active ingredients and excipients were mixed in 1:1 ratios. The DSC thermograms of the 1:1 mixtures were then compared with the thermograms of the pure active ingredients. Changes in the thermal patterns were then studied. Emergence or disappearance in peaks and shifts in peak temperatures greater than 15 °C were considered as indicators of a significant drug interaction. In order to access the compatibility of d-limonene with excipients and Yashtimadhu extract, FTIR studies were conducted. The selected natural active ingredients were compatible with each other as well as with carbopol971P, microcrystalline cellulose, aspartame, talc, magnesium stearate according to DSC analysis and FTIR studies. A number of polymers with documented mucoadhesive properties were selected. Powder flow properties and compressibility was assessed using angle of repose and Carr's index. The flow properties of the powder blend were improved by the addition of talc and magnesium stearate. Aspartame was added to improve the tablet's aesthetic properties. Small pilot scale tablet batches, each containing a different mucoadhesive polymer were manufactured by direct compression method. The tablets were assessed for mass variation, friability, hardness, diameter and thickness. After initial characterization of the physicochemical properties of the tablets, dissolution studies were carried out to obtain the release profile of formulation. The mucoadhesive performance of the product was studied using wash off test. Carbopol 971P demonstrated optimal mucoadhesive strength and was used in the final formulation. This study proved that it is possible to formulate natural active ingredients into a stable mucoadhesive tablet.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032876 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR MULTIVARIATE REGRESSION ANALYSIS OF LINEAR AND NONLINEAR RELATIONSHIPS

(51) International classification :G01N 216400, G01N 330000, G01N 332800, G06F 171800, G06N 030200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

System and Method for Multivariate Regression Analysis of Linear and Nonlinear Relationships Abstract This invention describes a system for multivariate regression analysis of linear and nonlinear relationships, comprising a processor, memory, and user interface. The processor receives input data consisting of independent variables and a dependent variable, and performs multivariate regression analysis using a combination of linear and nonlinear regression techniques, including polynomial regression, logistic regression, and spline regression. The memory stores the input data and the results of the analysis. The user interface enables a user to input the independent and dependent variables, select the regression techniques to be used, and display the results of the analysis. The processor is further configured to perform variable selection and model selection to optimize the regression analysis. This system can be used in various industries, including finance, healthcare, and social science, to analyze complex data and identify significant relationships between variables.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032877 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTIVARIATE ANALYSIS IN BIG DATA ANALYTICS AND MACHINE LEARNING

(51) International classification :G06F 162600, G06N 200000, G06N 201000, G06Q 300200, H04L 411600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Multivariate Analysis in Big Data Analytics and Machine Learning Abstract This invention describes a system for multivariate analysis in big data analytics and machine learning. The system comprises a computer processor, memory, a dataset stored in memory, and program instructions stored in memory. The program instructions include code for applying principal component analysis (PCA) to the dataset to reduce its dimensionality, code for applying a machine learning algorithm to the reduced dataset to generate a model, and code for applying the model to one or more additional datasets to make predictions or classifications. The system can be applied in various fields such as finance, healthcare, and customer segmentation. By using PCA to reduce the dimensionality of the dataset and applying machine learning algorithms to generate models, the system can extract meaningful insights and make accurate predictions, revolutionizing the way we analyze and utilize big data.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032878 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT TRANSPORTATION SYSTEM TO ENHANCE MOBILITY AND SAFETY

(51) International classification :A61P 310200, B60Q 012600, G06F 113600, G06T 116000, G08G 010100
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Intelligent Transportation System to Enhance Mobility and Safety Abstract The present invention relates to intelligent transportation systems, and more specifically to systems and methods for enhancing traffic flow, reducing congestion, and improving safety. The system includes a data collection module for gathering traffic information, a data processing module for analyzing traffic data and generating traffic predictions, and a traffic management module for adjusting traffic signals based on the predictions. Additionally, the system includes a user interface module for displaying real-time traffic information and recommended routes to drivers. The system can communicate with other transportation systems to coordinate traffic flow on a regional or national level. The method involves receiving real-time traffic data, analyzing it to identify congestion points and traffic patterns, generating route recommendations, and communicating these recommendations to drivers to optimize travel time and reduce the risk of accidents. The system and method can prioritize emergency vehicles and public transportation, and also includes a feedback module for refining and improving traffic management strategies over time.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202311032879 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART TRANSPORTATION ANALYTICS SYSTEM FOR PREDICTIVE MAINTENANCE AND OPERATIONS OPTIMIZATION.

(51) International classification :G05B 230200, G06N 200000, G06Q 100000, G06Q 100400, G06Q 100600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Smart Transportation Analytics System for Predictive Maintenance and Operations Optimization. Abstract A Smart Transportation Analytics System that leverages artificial intelligence, machine learning, and data analytics for optimizing operations and predictive maintenance in transportation networks, aiming to enhance the overall efficiency, safety, and reliability of the transportation system.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202311032905 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A NOVEL NANOPARTICLE-BASED COATING COMPOSITION FOR CORROSION RESISTANCE AND METHOD THEREOF

(51) International classification :C09D 050800, C09D 630000, C22C 384200, C22C 384800, C22C 385000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention discloses a novel nanoparticle-based coating composition for corrosion resistance and method thereof. Nanoparticles of one or more metals, metal oxides, or metal salts, having an average particle size of less than 100 nm and present in the coating composition in an amount of 0.1 to 10% by weight; and a binder, which can be any suitable organic or inorganic material, including polymers, resins, or ceramics. A solvent which dissolved or dispersed the binder and nanoparticles; wherein the coating composition can be applied to metallic surfaces using conventional coating methods, such as spraying, brushing, or dipping, and can be cured at room temperature or elevated temperature, depending on the binder used in the composition, forming a dense and uniform layer on the metallic surface, which provides excellent corrosion resistance. Further, the binder contains 0.5-25 wt% (based on paint solids) primary nano-scale particles which can be incorporated as solid, produced by jet dispersion of nano-scale particles into the binder.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031685 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HANDHELD AIR PRESSURIZED CANDLE EXTINGUISHING APPARATUS AND METHOD

(51) International classification :C11C 050000, F02B 370130, F02C 061800, F23Q 250000, H01H 093400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT HANDHELD AIR PRESSURIZED CANDLE EXTINGUISHING APPARATUS AND METHOD The present invention relates a handheld air pressurized candle extinguishing apparatus (100) and a method (400) for operating the same. The handheld air pressurized candle extinguishing apparatus (100) comprises of a pressurized air container (102), a hollow pipe (104) having a distal end (106) and a proximal end (108), a flexible tube (110), a nozzle (112), and a pressurized air control means (114). The nozzle (112) if activated is configured to direct flow of air pressure from the distal end (106) towards flame of at least one candle. The pressurized air control means (114) is configured to be connected to the proximal end (108) of the hollow pipe (104), and control release of the air pressure from the pressurized air container (102) to the distal end (106) of the hollow pipe (104), through the nozzle (112).

No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031734 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : UNDERPASS COLLISION MONITORING SYSTEM

(51) International classification :B62D 011900, E01C 010400, E02D 290450, G05B 194061, G08G 050400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An underpass collision monitoring system, comprising a set of ultrasonic sensors 2 installed on an underpass 1 for detecting height of heavy loaded vehicles, wherein a microcontroller compare the detected height with a pre-defined height for determining clearance of vehicle, a display panel 5 for displaying information regarding detected height of the vehicles, warning messages of low clearance and alternative routes, a vibration sensor 6 for detecting intensity of vibrations resulted due to collision of the vehicles in case the driver ignores alerts, an imaging unit 7 for capturing images of the vehicle's registration plates prior to the collision, a local server for fetching data(s) regarding the vehicle's height, registered plate number, collision intensity and an unique identity number dedicated to the underpass 1, wherein a processing unit generates an e-challan regarding illegal trespassing of the vehicles.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031856 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A MULTI-AXES DEBRIS TRACKING SYSTEM

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(51) International classification :A61B 342000, E04D 130760, G05B 194140, G16H 502000, G21K 050400
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

The present invention discloses a multi-axes debris tracking system utilizing plurality of laser sensors (102) to track space debris with its orbital velocity profile. The system enhances the working characteristics of any space debris, locating its precise movement with its shape and size. A plurality of laser sensors (102) is installed in 3D order over a satellite structure (101) to create the tracking sphere (201). The debris entering the tracking sphere (201) is traced by laser with a multi-dimensional approach, creating a virtual perception image of the debris's shape and size. The system calculates the debris's velocity profile based on the time it takes to pass through the tracking sphere (201), contributing to the overall safety and sustainability of space operations. By using advanced machine learning algorithms and models, the system may predict the future movement of debris and provide timely and accurate avoidance alerts, improving the safety and efficiency of space operations.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031857 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IOT AND MACHINE LEARNING-BASED AUTOMATED SYSTEM FOR EFFICIENT ELECTRICITY CONSUMPTION MANAGEMENT

(51) International classification	:G06K 190770, G06N 050000, G06N 050400, G06N 200000, G06N 202000	(71) Name of Applicant : 1)Lovely Professional University, Address of Applicant :Lovely Professional University, Delhi Jalandhar GT road Phagwara- 144411. Phagwara ----- ---
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Filing Date	:NA	

(57) Abstract :

The present invention proposes an automated system that efficiently manages electricity consumption. It is an IoT-based system that uses sensors to continuously measure the available electricity units, and the data collected is stored on an IoT platform. This data can be used to show the current electric unit consumption rate on a daily, weekly, or monthly basis. The system estimates the daily consumption, days or weeks left, the last billed date, last billed amount, total units recharged, and total units used. An alarm is activated immediately, and an SMS alert is automatically sent to the user's registered number for recharge when the elasticity units fall below the required threshold. The IoT-based platform has three main components: an intelligent card attached to the electric prepaid meter, a web server, and a mobile application. The system uses a one-time pin (OTP) to verify payments and protect user data.

No. of Pages : 19 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031858 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A GENERATIVE DESIGN OF AEROFOIL RIBS FOR DRONES

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(57) Abstract :

The present device and system utilize a rib component Mesher airplane and spar vibrating mechanism for designing a generated technology-assisted aerofoil rib design. The associated steps for this mechanism are: identifying aerofoil coordinates to configure rib design; utilizing the Fusion 360 framework to model rib, meshing a rib component to generate efficient and error-free design, applying boundary conditions to identify design area, and availing the stability for airplanes to keep it flying straight. The combination of axial and diagonal aerofoil rib coordinates can be employed for sustainable production in modern drones. The said system is more cost-effective, utilized for aerospace applications, and helps in designing a generative technology-assisted aerofoil rib with a large aspect ratio.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031886 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR ANALYZING THE ROLE OF CULTUREMES IN THE DEVELOPMENT OF INDIAN INTELLECTUAL TRADITION

(51) International classification	:A61P 250000, G01B 112500, G01N 219500, G06Q 501800, H04L 510400	(71) Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)DR. VEERENDRA KUMAR MISHRA
Filing Date	:NA	Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Method and System for Analyzing the Role of Culturemes in the Development of Indian Intellectual Tradition Abstract The present invention is a method for analyzing the role of culturemes in the development of Indian intellectual tradition. The method involves obtaining a dataset of historical Indian texts and using natural language processing (NLP) techniques to identify and classify culturemes within the dataset. The frequency and distribution of the identified culturemes are analyzed to determine their relationships with corresponding intellectual traditions. The output of the analysis provides a comprehensive understanding of how culturemes have shaped the Indian intellectual tradition over time. The invention employs a multidisciplinary approach that combines NLP, machine learning, and data mining techniques to provide a deeper understanding of the cultural and social dynamics that have influenced the development of the Indian intellectual tradition. The invention can be used by scholars and researchers to gain new insights into the complex and diverse cultural influences that have shaped this tradition, providing a more nuanced understanding of this rich and diverse cultural heritage. The invention represents a significant development in the field of cultural studies and has the potential to revolutionize the analysis of culturemes in the Indian intellectual tradition.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202311031901 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MEASURING DIGITAL RANKING ON A SOCIAL MEDIA PLATFORM

(51) International classification	:G06F 16/951, G06N 20/00, H04L 63/00	(71) Name of Applicant : 1)SAYAL, Anuj Address of Applicant :A 305, Kenwood Tower, Charmwood Village, Surajkund, Faridabad - 121009, Haryana, India. Faridabad -----
(86) International Application No	:NA	2)SAYAL, Deepa
Filing Date	:NA	Name of Applicant : NA
(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)SAYAL, Anuj Address of Applicant :A 305, Kenwood Tower, Charmwood Village, Surajkund, Faridabad - 121009, Haryana, India. Faridabad -----
(62) Divisional to Application Number	:NA	2)SAYAL, Deepa Address of Applicant :A 305, Kenwood Tower, Charmwood Village, Surajkund, Faridabad - 121009, Haryana, India. Faridabad -----
Filing Date	:NA	

(57) Abstract :

An multi-layered system 100 and method to measure digital ranking on social media platforms include a data source collection unit 102, a data set unit 104 containing different types of data and parameters on which data source is extracted, a data retrieving unit 106 to retrieve data by setting a criteria by the user, a data privacy, security, and anonymization unit 108, a data storage unit 110 consisting of database servers for raw and processed data, a data pre-processing unit 112 for extracting features, a feature extraction unit 114 to extract data set by implementing algorithms, a network analysis, data mining and prediction unit 116 to provide results based on analysis algorithms, and a data visualization unit 118 containing parameters and filters on which user can evaluate data. System 100 is capable for data privacy, detecting and eliminating fake accounts and contributing to the false evaluation of digital ranking.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202311033784 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ADVANCED HIGH-SPEED COMPUTING DEVICE FOR BIG DATA ANALYTICS

		<p>(71)Name of Applicant : 1)Dr. Avaneesh Singh Address of Applicant :Post-Doctoral Fellow, Indian Institute of Technology Kanpur, Uttar Pradesh 208016 ----- ----- 2)Dr. Krishna Kumar Sharma 3)Dr. Abhinav Sharma 4)Ashutosh Tripathi 5)Bikash Saha 6)Dr. Dattatray G. Takale Name of Applicant : NA Address of Applicant : NA</p>
(51) International classification	:G06F 011800, G06F 012000, G06F 162450, G06F 162600, G06F 169535	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	
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(57) Abstract :

This invention describes Advanced High-Speed Computing Device for Big Data Analytics. The High-Speed Data Processing Device is a cutting-edge technology that transforms the way businesses handle large volumes of data. Equipped with advanced hardware and software components, it can handle complex analytics tasks and machine learning algorithms that require high-performance computing resources. Its fast processors, memory, and storage enable it to quickly process massive amounts of data, while its networking capabilities allow it to seamlessly integrate with cloud-based resources for scalability. With a user-friendly interface, it offers real-time insights into task status and includes advanced security features like encryption and threat detection to ensure data integrity. The device is an ideal solution for businesses that want to maximize the value of their data and make data-driven decisions faster and with greater accuracy.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202311033795 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD TO FORM A HYBRID BIPOLAR SUPERCAPACITOR

(51) International classification	:C07K 070800, H01G 113000, H01G 114600, H01G 118600, H01L 212250	(71) Name of Applicant : 1)Indian Institute Of Technology, Mandi Address of Applicant :IP & TT Cell, SRIC Office, IIT Mandi, Kamand, Himachal Pradesh 175005, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Viswanath Balakrishnan Address of Applicant :School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----
(87) International Publication No	: NA	2)Nitika Arya Address of Applicant :School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----
(61) Patent of Addition to Application Number	:NA	3)Yadu Chandran Address of Applicant :School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----
Filing Date	:NA	4)Priyanka Kajal Address of Applicant :School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----
(62) Divisional to Application Number	:NA	5)Satvasheel Powar Address of Applicant :School of Mechanical and Materials Engineering, Indian Institute of Technology Mandi, Kamand, Mandi 175075, Himachal Pradesh, India -----
Filing Date	:NA	

(57) Abstract :

ABSTRACT A METHOD TO FORM A HYBRID BIPOLAR SUPERCAPACITOR A method (100) to form a hybrid bipolar supercapacitor is provided. The method (100) may include mixing Molybdenum disulfide (MoS) and carbon nanotubes (CNT) to obtain MoS-CNTink. Further, the method (100) may include drop casting MoS-CNTink on a substrate to obtain an electrode and using the electrode with an aqueous electrolyte. The Molybdenum disulfide (MoS) and carbon nanotubes (CNT) may be mixed in ratio of 20:80. The formed supercapacitor may facilitate bipolar supercapacitor performance with higher capacitance in negative potential by giving equal importance to both electrode and electroly

No. of Pages : 30 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311033883 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METAL - ORGANIC CLUSTERS (MOCS) RESIST FORMULATION COMPATIBLE TO NEXT GENERATION LITHOGRAPHY APPLICATIONS FOR HIGH VOLUME ELECTRONICS CHIP MANUFACTURING

(51) International classification	:G03F 072000, H01L 210270, H01L 216830, H01L 217680, H01L 217800	(71)Name of Applicant :
(86) International Application No	:NA	1)Indian Institute of Technology Mandi Address of Applicant :Kamand - 175005, Himachal Pradesh, India Mandi -----
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Manvendra Chauhan Address of Applicant :School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh), -175005, India Mandi -----
Filing Date	:NA	2)Sumit Choudhary Address of Applicant :School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh), -175005, India, Mandi -----
(62) Divisional to Application Number	:NA	3)Kumar Palit Sharma Address of Applicant :School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh), -175005, India Mandi -----
Filing Date	:NA	4)Diksha Thakur Address of Applicant :School of Chemical Sciences, Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh) - 175005 Mandi -----
		5)Subrata Ghosh Address of Applicant :School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh), -175005, India, an Indian citizen Mandi -----
		6)Satinder K. Sharma Address of Applicant :School of Computing and Electrical Engineering (SCEE), Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh), -175005, India Mandi -----
		7)Kenneth E. Gonsalves Address of Applicant :School of Basic Science, Indian Institute of Technology (IIT)-Mandi, (Himachal Pradesh) - 175005, India, Mandi -----

(57) Abstract :

Present invention describes the synthesis of novel organo-inorganic based metal-organic cluster (MOCs) resist to achieve sub-15 nm technology node in semiconductor industries. Said resists are synthesized by reacting Indium (III) Acetate and MAA ligand. The synthesized metal-organic cluster formulation demonstrates a narrow size 5 distribution of 2 nm or less. The developed resists are further modified with the incorporation of photoacid generators (PAGs) to enhance the post-exposure dissolution rate into specifically optimized developer solution to produce well-resolved and scum-free sub-15 nm HP line patterns. The designed resists are highly sensitive and able to pattern various features in micro to nano-domain by advanced lithography techniques 10 such as helium ion beam lithography, e-beam lithography, 254 nm DUVL and 13.5 nm EUVL for high-resolution patterning.

No. of Pages : 26 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311033980 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WEB BASED LIBRARY MANAGEMENT SYSTEM

		(71)Name of Applicant : 1)Mr. Pankaj Kumar 'Dedha' Address of Applicant :Librarian, Department of Central Library, Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, 201003, India ----- 2)Dr Sarita Mishra 3)Ms. Rekha Gajanan Joshi 4)Dr Sachin Abaji Borde 5)Mr. Sunil Kumar S 6)Mr. Anant Marotrao Thorat 7)Dr Samrat Ashok Jadhav 8)Mr. S Saravana Kumar 9)Mr. Karbhari Govindrao Magar Name of Applicant : NA Address of Applicant : NA
		(72)Name of Inventor : 1)Mr. Pankaj Kumar 'Dedha' Address of Applicant :Librarian, Department of Central Library, Raj Kumar Goel Institute of Technology, Ghaziabad, Uttar Pradesh, 201003, India ----- 2)Dr Sarita Mishra Address of Applicant :Associate Professor, Department of Social science (Library and Information Science) Dr. C. V. Raman University Bilaspur, Chhattisgarh, 495001, India ----- ----- 3)Ms. Rekha Gajanan Joshi Address of Applicant :Librarian, Library Science Department, Nath School of Business and Technology MGMU. Cha. Sambhaji Nagar (Aurangabad), Maharashtra, 431003, India ----- ----- 4)Dr Sachin Abaji Borde Address of Applicant :Librarian Hi-Tech Institute of Technology, Chhatrapati Sambhajinagar, Maharashtra, 431133, India ----- 5)Mr. Sunil Kumar S Address of Applicant :Assistant Professor, Master of Computer Applications Department, AIMS Institute Bangalore, Karnataka, 560058, India ----- 6)Mr. Anant Marotrao Thorat Address of Applicant :Librarian, Department of Library, KES Dr. C. D. Deshmukh Commerce and Sau. K. G. Tamhane Arts College Roha, Raigad, Maharashtra, 402109, India ----- ----- 7)Dr Samrat Ashok Jadhav Address of Applicant :Assistant Professor, Department of Accountancy, KES's Dr C D Deshmukh Commerce and Sau. K. G. Tamhane Arts College, Roha. Roha, Raigad, Maharashtra, 402109, India ----- 8)Mr. S Saravana Kumar Address of Applicant :Assistant Professor, Computer Science and Business Systems, KIT - Kalaignar Karunanidhi Institute of Coimbatore, Tamilnadu, 641402, India ----- 9)Mr. Karbhari Govindrao Magar Address of Applicant :Librarian, Department of Library, V.P.S.P.M.S., Arts, Commerce and Science College kannad Tq. Kannad, Aurangabad, Maharashtra, 431103, India ----- ---
(51) International classification	:G06F 094550, G06Q 502600, H04L 410213, H04L 410806, H04L 411800	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

WEB BASED LIBRARY MANAGEMENT SYSTEM ABSTRACT This invention belongs to the field of Automation in Library and its utility is to enable Web Based Library Management System. Libraries today face even more difficult obstacles as we go from the information age to the knowledge society. The library is increasingly seen as a single window knowledge bank rather than just a collection of books. This research examines web-based library management software's definition, characteristics, selection criteria for the best open-source library management software, benefits, and drawbacks. The invention consists of System with internet connectivity, scanner, QR Code and different set of online versions of books.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311034013 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REAL-TIME TASTE TRANSFER SYSTEM AND METHOD USING INTERCONNECTED POUR MACHINES

(51) International classification	:F03D 092500, G06Q 100800, G06Q 201200, G06Q 300400, G06Q 300600	(71) Name of Applicant : 1)SAURABH PRASAD Address of Applicant :K 649, Shrinath Apartment, K Block, Kidwai Nagar, Kanpur, Uttar Pradesh, India Kanpur ----- -----
(86) International Application No	:NA	2)AMBIKA RANI Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor : 1)SAURABH PRASAD Address of Applicant :K 649, Shrinath Apartment, K Block, Kidwai Nagar, Kanpur, Uttar Pradesh, India Kanpur ----- -----
(87) International Publication No	: NA	2)AMBIKA RANI Address of Applicant :K 649, Shrinath Apartment, K Block, Kidwai Nagar, Kanpur, Uttar Pradesh, India Kanpur ----- -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a system and method for transferring taste in real-time using interconnected pour machines. The system (100) includes multiple pour machines (102a-102n) that transfer taste wirelessly from one machine to another. Each pour machine comprises touch sensors (108a-108n), a digital signal processor (110), a controller (120), an encoder (112), a decoder (114), a transmitter (116), and a receiver (118) to sense and process user's physical touch signals and transmit the converted data through a communication network (104). The method involves receiving, inverting, and processing the signals using a digital signal processor, controller, encoder, and transmitter, respectively, to transmit the taste. Additionally, the method includes steps for generating deactivation signals and activating one of the slots (106a-106n) based on the received data. The system is controlled using an ARDUINO UNO R3 controller, and the encoding and decoding of data are done using HT12E and HT12D encoders, respectively.

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311034076 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR REAL-TIME DETECTION AND REPAIR PRIORITIZATION OF POTHOLES

(51) International classification	:B29K 210000, E01C 071800, E01C 110000, E01C 230600, G01C 213600	(71) Name of Applicant : 1)National Institute of Technology, Kurukshetra Address of Applicant :National Institute of Technology Kurukshetra, Kurukshetra - 136119, Haryana, India Kurukshetra -- ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)CHHABRA, Jitender Kumar Address of Applicant :BT-503, Flats Building, NIT Campus, National Institute of Technology, Kurukshetra - 136119, Haryana, India Kurukshetra ----- ----- 2)GUPTA, Varun Address of Applicant :H No 283, Block A, Wave Estate Sector 85, Mohali (SAS Nagar) - 140308, Punjab, India Mohali ----- -----
(87) International Publication No	: NA	3)CHOPRA, Muskaan Address of Applicant :H No 1133, First Floor, Sector 34C, Chandigarh - 160022, Chandigarh, India Chandigarh ----- ----- -----
(61) Patent of Addition to Application Number	:NA	4)MENGI, Gopal Address of Applicant :H No 1415, Sector 61, Chandigarh - 160062, Chandigarh, India Chandigarh ----- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a method for detecting and prioritizing the repair of potholes. The method includes receiving one or more thermal images of roads captured by a camera. The method further includes detecting one or more potholes in the roads based on analysis of the one or more thermal images using a machine learning (ML) model. Further, the method includes receiving, from one or more sensors, depth information and location information associated with each of the detected one or more potholes. Further, the method includes assigning a priority for repairing the detected one or more potholes, to each of the detected one or more potholes based on the depth information and the location information. Further, the method includes transmitting information of the detected one or more potholes and the assigned priority to a pothole unit associated with authorities for enabling the authorities to manage the pothole repair process.

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311034109 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SMART VEHICLE FOR WASTE MANAGEMENT, WASTE MANAGEMENT SYSTEM, AND METHOD THEREOF

(51) International classification	:A61F 054510, B60H 010000, G06Q 100000, G06Q 502600, H04Q 090000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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2)BAJPAI, Anurag

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SINGH, Prachi

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2)BAJPAI, Anurag

Address of Applicant :Neta Ji Subhash Nagar, Near Rajghat, Kanpur Road, Raebareli Uttar Pradesh 229001 India Kanpur ----- -----

(57) Abstract :

A smart vehicle for waste management, waste management system, and method thereof Abstract of the Invention Disclosed herein is a smart vehicle for waste management, comprising a driver cabin (25), a waste collecting compartment (17) mounted behind the driver cabin (25), and a robotic arm (1) with a bin (2), mounted between the driver cabin (25) and the waste collecting compartment (17) for disposing wastes into the waste collecting compartment (17). A waste management system is further provided in the waste collecting compartment (17), which comprises a waste segregating assembly (24) embedded with a plurality of category sensors (M, E, D, I and C) for segregating wastes according to their pre-defined categories and a plurality of sub-compartments (11, 12, 15 and 16) each positioned adjacent and along the waste segregating assembly (24), designated to collect waste of the particular pre-defined category and provided with one or more quantity sensors (22) for monitoring the quantity of waste collected in each of the sub-compartments (11, 12, 15 and 16).

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202311034146 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR PREPARING TAX RETURN AND FILING BY CHAT MESSENGER

(51) International classification	:A63F 138700, G06Q 101000, G06Q 400000, H04L 510400, H04L 511000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**

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Address of Applicant :Plot No. G15, KH No 10/15,Qutub Vihar, Ph-1 C/G- Block, Jhankar Road Pole N0-154 Delhi 110071

Name of Applicant : NA

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(72)**Name of Inventor :**

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Address of Applicant :C 15 Kutub Vihar Jhankar Road Goyla Dairy New Delhi -----

2)Saleah

Address of Applicant :C 15 Kutub Vihar Jhankar Road Goyla Dairy New Delhi -----

(57) Abstract :

The present invention relates to a tax return preparation and filing system comprising a processor in combination with memory and input devices, a tax return template database, a business profile database, a business Profile for the Business Owner having data necessary to prepare tax returns in conjunction with other data which may be required for validation from government authorities, an invoice database operationally connected to the said processor prepared on the basis of business profile and other data, and a user verifying module to verify the prepared tax return and to provide One Time Password (OTP) for submitting the return on official website, a validation module to validate the entries in the tax return prepared. The tax return is generated by the processor by combining the data from said tax return template, business profile, invoice data and validating the data at government portal, the said tax return stored in tax return database.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034198 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATED AUDITING SYSTEM FOR DATA INTEGRITY AND VERIFICATION USING BLOCKCHAIN TECHNOLOGY

(51) International classification	:G06F 216400, G06N 200000, H04L 093000, H04L 093200, H04L 430450	(71) Name of Applicant : 1)Dr. Devender Kumar Address of Applicant :Associate Professor, Computer Science, Baba Mastnath University, Asthal Bohar, Rohtak, Haryana ----- 2)Dr. Aman Gupta 3)Dr. Ajit Kaswan 4)Dr. Tumma Srinivasarao 5)Dr. Gaurav Kumar Bharti 6)Dr. Sanju Das Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Devender Kumar Address of Applicant :Associate Professor, Computer Science, Baba Mastnath University, Asthal Bohar, Rohtak, Haryana ----- 2)Dr. Aman Gupta Address of Applicant :Assistant Professor, Commerce and Management, Chief Finance Officer, Shri JJT University, Jhunjhunu, Rajasthan ----- 3)Dr. Ajit Kaswan Address of Applicant :Computer Science, Assistant Professor, Deputy Registrar, Shri JJT University, Jhunjhunu, Rajasthan ----- 4)Dr. Tumma Srinivasarao Address of Applicant :Professor, CSE Department, Seshadri Rao Gudlavalleru Engineering College, Gudlavalleru, Krishna, Andhra Pradesh - 521356 ----- 5)Dr. Gaurav Kumar Bharti Address of Applicant :Assistant Professor, Electrical Engineering Department, Chandigarh University, Gharuan, Mohali, Punjab, India - 140143 ----- 6)Dr. Sanju Das Address of Applicant :TA, Department of Computer Science, Assam University, Silchar, Assam, India - 788011 ----- ----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to provide an automated auditing system for data integrity and verification using Blockchain Technology. The Blockchain Technology is temper proof therefore data manipulation is inhibited after record the data. Each transaction is validated and approved by a network of nodes in the blockchain network, which helps to ensure the integrity of the data. Hence the system provides real time monitoring and temper proof auditing of financial institutions.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034211 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD OF EXTRACTING SECONDARY METABOLITES FROM A FUNGAL SPECIES

<p>(51) International classification :A23K 103000, C07K 075600, C07K 143700, C12N 011400, C12Q 016895 (86) International Application No:NA Filing Date :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA Application Number :NA Filing Date :NA (62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)IIMT UNIVERSITY MEERUT Address of Applicant :O POCKET, GANGA NAGAR, MEERUT, UTTAR PRADESH 250001 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)DR. NAVNEET SHARMA Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- 2)DR. SURABHI SINGHAL Address of Applicant :DEPARTMENT OF BOTANY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT ----- 3)DR. ASHOK KUMAR Address of Applicant :SCHOOL OF AGRICULTURE, IIMT UNIVERSITY, MEERUT MEERUT ----- 4)ER. DEEPALE AGGARWAL Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- 5)DR. ASHOK KUMAR Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- 6)DR. SACHIN TYAGI Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- 7)DR. RISHI GAUTAM Address of Applicant :DEPARTMENT OF ZOOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT ----- 8)DR. ANIRUDDHA RAM Address of Applicant :COLLEGE OF LAW, IIMT UNIVERSITY, MEERUT MEERUT ----- 9)MRS. SARBHA BHASKAR Address of Applicant :COLLEGE OF LAW, IIMT UNIVERSITY, MEERUT MEERUT ----- 10)MR. SAI PRAKASH NAROJU Address of Applicant :D.No. 7-5-91/2, Medhari Bazar, Khammam, Telangana, India- 507001 Khammam -----</p>
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(57) Abstract :

A novel method for producing antidiabetic agents from fungi. The antidiabetic agents are compounds that are isolated from the mycelium of fungi, including species of the genus Penicillium, Aspergillus, and Trichoderma. The compounds have an inhibitory effect on the activity of enzymes involved in carbohydrate metabolism, specifically alpha-glucosidases and alpha-amylases. These compounds can be used to treat diabetes and related metabolic disorders. The method includes the steps of culturing the fungi, extracting the mycelium, and identifying and isolating the antidiabetic compounds. The effectiveness of the compounds is demonstrated by in vitro and in vivo experiments. The invention provides a novel approach to the treatment of diabetes and related metabolic disorders.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034238 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPOSITION AND METHOD FOR TREATING ORAL LICHEN PLANUS WITH A MIXTURE OF VARIOUS NATURAL INGREDIENTS

(51) International classification	:A61K 089789, A61K 367700, A61K 450600, A61P 010200, A61P 390000	(71) Name of Applicant : 1)IIMT UNIVERSITY MEERUT Address of Applicant :O POCKET, GANGA NAGAR, MEERUT, UTTAR PRADESH 250001 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)DR. SURABHI SINGHAL Address of Applicant :DEPARTMENT OF BOTANY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -----
Filing Date	:NA	2)DR. NAVNEET SHARMA Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- -----
(87) International Publication No :	NA	3)DR. ASHOK KUMAR Address of Applicant :SCHOOL OF AGRICULTURE, IIMT UNIVERSITY, MEERUT MEERUT -----
(61) Patent of Addition to	:NA	4)DR. ASHOK KUMAR Address of Applicant :DEPARTMENT OF BIOTECHNOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- -----
Application Number	:NA	5)DR. SACHIN TYAGI Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- -----
Filing Date	:NA	6)DR. RISHI GAUTAM Address of Applicant :DEPARTMENT OF ZOOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -----
(62) Divisional to Application	:NA	7)MS. YATI VASHISHTHA Address of Applicant :DEPARTMENT OF MICROBIOLOGY, SCHOOL OF LIFE SCIENCE & TECHNOLOGY, IIMT UNIVERSITY, MEERUT MEERUT -- -----
Number	:NA	8)DR. ANIRUDDHA RAM Address of Applicant :COLLEGE OF LAW, IIMT UNIVERSITY, MEERUT MEERUT -----
Filing Date	:NA	9)MRS. SARBHA BHASKAR Address of Applicant :COLLEGE OF LAW, IIMT UNIVERSITY, MEERUT MEERUT -----
		10)MRS. ITISHREE BEHERA Address of Applicant :ENVIRONMENTAL MICROBIOLOGY LABORATORY, DEPARTMENT OF BOTANY, RAVENSHAW UNIVERSITY, CUTTACK, ODISHA - 753003, INDIA CUTTACK -----

(57) Abstract :

The present invention relates to a composition and method for treating oral lichen planus using a combination of traditional Chinese medicinal herbs and other natural ingredients. The composition comprises a precise mixture of various raw medicinal materials in specific weight portions. The method involves extracting the active compounds from the raw materials using ethanol and a series of processing steps, including heating, filtering, evaporating, spray drying, and granulating. The resulting granulated mixture is then encapsulated in a hard gelatin capsule to create a convenient and easy-to-use final product. The method is efficient and cost-effective, producing a dry extract with high potency and purity. The composition and method have been found to be effective in the treatment of oral lichen planus, with minimal side effects. Overall, this invention provides a safe and natural alternative to conventional medical treatments for oral lichen planus.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036903 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT PLANT MONITORING SYSTEM WITH BUG REPELLENT AND REMOTE COMMUNICATION

(51) International classification	:A01G 070000, A01G 092400, A01M 070000, G05B 230200, G06F 113600	(71) Name of Applicant : 1)NOIDA INSTITUTE OF ENGINEERING & TECHNOLOGY Address of Applicant :19, KNOWLEDGE PARK-II, INSTITUTIONAL AREA, GREATER NOIDA-201306, GAUTAM BUDDHA NAGAR, UTTAR PRADESH, INDIA GREATER NOIDA ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
Filing Date	:NA	1)PRASHANT PANDEY Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park-II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(87) International Publication No	: NA	2)RAJNISH KUMAR Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(61) Patent of Addition to Application Number	:NA	3)DR. KUMUD SAXENA Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
Filing Date	:NA	4)MR. MAYANK DEEP KHARE Address of Applicant :Noida Institute Of Engineering & Technology, 19, Knowledge Park- II, Institutional Area, Greater Noida-201306, Gautam Buddha Nagar, Uttar Pradesh, India Greater Noida -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An intelligent plant monitoring system (100) has been proposed that includes a plant monitoring device (102) with multiple sensors (202), a bug repellent unit (204), a communication unit (206), a solar panel (210), and a controller (208) to determine various parameters related to a plant and generate an alert signal when the determined parameters fall below a predefined threshold value. The system (100) may generate notifications and transmit them to user devices (106) with information about moisture level, temperature, NPK value, intensity of light, or a combination thereof. The controller (114) also activates the bug repellent unit (102) at regular intervals to repel dangerous bugs and insects that are harmful for the plants. The plant monitoring device (102) of the invention is 3D printed using various materials and is beneficial for remote monitoring and adjusting the environment of a plant based on its requirements.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036918 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CURD CHURNING SYSTEM AND METHOD THEREOF

(51) International classification	:A01J 250600, A23C 150600, F16H 570400, H04M 071200, H04Q 110000
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)Samvidam Private Limited

Address of Applicant :Bhupender Singh C/o 8 Biswa, Opp. Saini Chopal, Gurugram, Gurgaon, Haryana, India, 122001
Gurugram -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Vipin Ahuja

Address of Applicant :Bhupender Singh C/o 8 Biswa, Opp. Saini Chopal, Gurugram, Gurgaon, Haryana, India, 122001. Gurugram -

(57) Abstract :

ABSTRACT CURD CHURNING SYSTEM AND METHOD THEREOF The present invention provides a system and method of curd churning which is automatic and provides bi-direction rotation with variable speed and wooden churner.

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036921 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LICHENIC EXTRACT WITH ANTIBACTERIAL AND ANTIOXIDANT PROPERTIES: COMPOSITION AND METHOD THEREOF

(51) International classification	:A23L 331050, A61K 310500, A61K 473400, A61P 310400, C08K 032200	(71) Name of Applicant : 1)Graphic Era (Deemed to be University) Address of Applicant :566/6, Bell Road, Clement Town, Dehradun – 248002, Uttarakhand, India. Dehradun ----- ---- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Abhilasha Mishra Address of Applicant :Department of Chemistry, Graphic Era Deemed to be University, Dehradun Dehradun ----- 2)Amena Ali Address of Applicant :Department of Biotechnology, Graphic Era Deemed to be University, Dehradun Dehradun ----- 3)Somya Sinha Address of Applicant :Department of Biotechnology, Graphic Era Deemed to be University, Dehradun Dehradun ----- 4)Dr. Pallavi Singh Address of Applicant :Department of Biotechnology, Graphic Era Deemed to be University, Dehradun Dehradun ----- 5)Dr. Kumud Pant Address of Applicant :Department of Biotechnology, Graphic Era Deemed to be University, Dehradun Dehradun ----- 6)Dr. Bindu Naik Address of Applicant :Department of Food Technology, Graphic Era Deemed to be University, Dehradun Dehradun ----- ----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT LICHENIC EXTRACT WITH ANTIBACTERIAL AND ANTIOXIDANT PROPERTIES: COMPOSITION AND METHOD THEREOF The present invention provides a composition and method of preparation of lichenic extract in a polar solvent constituting a 1:1 ratio of distilled water and ethanol.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/05/2023

(21) Application No.202311036996 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "METHOD FOR PREPARATION OF ACTIVATED CARBON FOR WASTEWATER TREATMENT"

(51) International classification	:B01J 202000, C01B 323420, C02F 010000, C02F 012800, C02F 013000	(71) Name of Applicant : 1)Dr. Pankaj Chamoli Address of Applicant :Shri Guru Ram Rai University, Dehradun, Uttarakhand-248001 Dehradun ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr. Pankaj Chamoli Address of Applicant :Shri Guru Ram Rai University, Dehradun, Uttarakhand-248001 Dehradun ----- 2)Twinkle Address of Applicant :Research Scholar, Department of Physics, Shri Guru Ram Rai University, Dehradun, Uttarakhand-248001 Dehradun -----
Filing Date	:NA	3)Vanshika Gairola Address of Applicant :Research Scholar, Department of Physics, Shri Guru Ram Rai University, Dehradun, Uttarakhand-248001 Dehradun -----
(87) International Publication No	: NA	4)Vinay Rawat Address of Applicant :Research Scholar, Department of Physics, Shri Guru Ram Rai University, Dehradun, Uttarakhand-248001 Dehradun -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for preparing activated charcoal comprises following steps: i) collecting raw charcoal, followed by crushing the raw charcoal in a mortar pestle to obtain powdered charcoal; ii) introducing alkaline solution in a mixture, followed by addition of powder charcoal to obtain a mixture solution; iii) keeping the mixture solution for 20 hours to 28 hours, followed by placing in the muffle furnace at 280-310°C for 45-75 minutes to obtain residues; iv) crushing the residues in the mortar pestle post cooling, followed by washing with 1M HCl to remove impurities to obtain a purified compound; and v) drying the purified compound for 11-13 hours in an oven to obtain activated carbon.

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/10/2022

(21) Application No.202217058180 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : THERMOPLASTIC POLYURETHANE COMPOSITIONS COMPRISING NITRO-SUBSTITUTED POLYESTER DIOLS

(51) International classification	:C08G 18/66, C08G 18/46, C08G 18/42, C08G 18/32, C08L 75/06	(71) Name of Applicant : 1)NOVOLOOP, INC. Address of Applicant :3475 Edison Way, Suite Q Menlo Park, California 94025 ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:62/989098	(72) Name of Inventor :
(32) Priority Date	:13/03/2020	1)KNAUER, Katrina Marie Address of Applicant :1721 Oak Avenue Redwood City, California 94061 -----
(33) Name of priority country	:-----	2)LE ROY, Jennifer Address of Applicant :745 S. Bernardo Avenue Unit 56 Sunnyvale, California 94087 -----
(86) International Application No Filing Date	:PCT/US2021/022101 :12/03/2021	3)PRATT, Russell Clayton Address of Applicant :36365 Cabrillo Drive Fremont, California 94546 -----
(87) International Publication No	:WO 2021/183883	4)PILSK, David Samuel Address of Applicant :845 Woodside Way, Apt. 104 San Mateo, California 94401 -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	5)HIGGINSON, Cody James Address of Applicant :1235 Palm Street San Jose, California 95110 -----
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

This invention relates to the field of polymers. More specifically, the invention comprises thermoplastic polyurethane elastomers comprising polyesters comprising nitro-substituted dicarboxylic acids that are products obtained by decomposition of polyethylene. The thermoplastic polyurethane elastomers described herein exhibit higher glass transition temperatures and higher Shore A hardness compared to thermoplastic polyurethane elastomers synthesized from similar polyester diols made from virgin monomers that do not contain nitro substitution.

No. of Pages : 41 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202313027477 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN QR CODE DEVICE ENABLED METHOD TO FIND OUT MISSING PERSON, WANTED PERSON, PERSON WITH CRIMINAL RECORDS AS WELL AS UNKNOWN PERSONS DETAILS AND ITS APPLICATION THEREOF

(51) International classification :A61P 010000, B01J 130400, G06Q 202200, G06Q 203200, H04N 212390
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :
Filed on :01/01/1900
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :
1)DEEPAK GUPTA
Address of Applicant :35 DARU BHONDELA BADA
BAZAR GUDRI JHANSI -----
Name of Applicant : NA
Address of Applicant : NA
(72)Name of Inventor :
1)DEEPAK GUPTA
Address of Applicant :35 DARU BHONDELA BADA BAZAR
GUDRI JHANSI -----

(57) Abstract :

An QR code device enabled method to find out missing person, wanted person, person with criminal records as well as unknown persons details and its application thereof. The present invention, discloses A QR code device enabled method to find out the missing person, wanted person, person with criminal records as well as unknown persons with the help of public and the law and enforcement agency characterized in that; Registration Module: wherein the registration and creation of ID by the concern persons or by police station or by commercial firm or by Social entity (NGO) is done by providing theirs details, Log-in module: wherein the entry of the login details of a registered user is initiated ,uploading Module: wherein the uploading of the general, missing, wanted ,unknown and criminal persons details is done by the registered user either through QR code scanner or manually, Data storage Module: wherein the details of the general, missing, wanted , unknown and criminal persons is stored in the system database, Verification and communication Module: wherein the checking, cross checking and searching by using filters of the general, missing, wanted ,unknown and criminal persons details are initiated with the help of APIs .

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202317035005 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PACKAGING FILM, BATTERY, AND ELECTRONIC DEVICE

(51) International classification	:H01M 040400, H01M 064000, H01M 100400, H01M 100562, H01M 501160	(71) Name of Applicant : 1)NINGDE AMPEREX TECHNOLOGY LTD. Address of Applicant :No.1, Xingang Road, Zhangwan Town, Jiaocheng Zone Ningde, Fujian 352100 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)LI, Rui Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352106 ----- 2)HUANG, Zhiqi Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352106 ----- 3)LI, Lin Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352106 ----- 4)GUO, Peipei Address of Applicant :No.1 Xingang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352106 -----
(31) Priority Document No	:202011133536.2	
(32) Priority Date	:21/10/2020	
(33) Name of priority country	:-----	
(86) International Application No	:PCT/CN2021/124408	
Filing Date	:18/10/2021	
(87) International Publication No	:WO 2022/083542	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A packaging film, comprising a protective layer, a metal layer, and a first packaging layer that are sequentially stacked. The melting point of the first packaging layer is 100°C to 130°C. Further provided in the present application are a battery having the packaging film and an electronic device having the battery. The present application can improve battery safety.

No. of Pages : 13 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202318033135 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPOSITE WEAR COMPONENT

(51) International classification	:B60T 081700, B60W 301400, B62D 060000, G01C 213600, G06Q 300200	(71) Name of Applicant : 1)Magotteaux International S.A. Address of Applicant :Rue Adolphe Dumont, 4051 Vaux-sous-Chevremont, BELGIUM ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)DESILES, Stéphane Address of Applicant :Rue Longchamps 35, 4920 Aywaille, BELGIUM ----- 2)LEPOINT, François Address of Applicant :Rue du Général Modard 26, 4000 Liège, BELGIUM ----- 3)TAS, Burhan Address of Applicant :Rue de la Station 17, 4800 Verviers, BELGIUM -----
(31) Priority Document No	:20166110.5	
(32) Priority Date	:27/03/2020	
(33) Name of priority country	:-----	
(86) International Application No	:PCT/EP2021/057409	
Filing Date	:23/03/2021	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:202117044494	
Filed on	:30/09/2021	

(57) Abstract :

ABSTRACT Title of the Invention: COMPOSITE WEAR COMPONENT The present invention discloses a hierarchical composite wear component comprising a reinforcement in the most exposed part to wear, the reinforcement comprising a three-dimensionally interconnected network of periodically alternating millimetric ceramic-metal composite granules with millimetric interstices, said ceramic-metal composite granules comprising at least 52 vol%, preferably at least 61 vol%, more preferably at least 70 vol% of micrometric particles of titanium carbide embedded in a first metal matrix, the ceramic-metal composite granules having a density of at least 4.8 g/cm³, the three-dimensionally interconnected network of ceramic-metal composite granules with its millimetric interstices being embedded in the second metal matrix, said reinforcement comprising in average at least 23 vol%, more preferably at least 28 vol%, most preferably at least 30 vol% of titanium carbide, the first metal matrix being different from the second metal matrix, the second metal matrix comprising the ferrous cast alloy. Figure 10

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202318033140 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPOSITE WEAR COMPONENT

(51) International classification	:B60T 081700, B60W 301400, B62D 060000, G01C 213600, G06Q 300200	(71) Name of Applicant : 1)Magotteaux International S.A. Address of Applicant :Rue Adolphe Dumont, 4051 Vaux-sous-Chevremont, BELGIUM ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)DESILES, Stéphane Address of Applicant :Rue Longchamps 35, 4920 Aywaille, BELGIUM ----- 2)LEPOINT, François Address of Applicant :Rue du Général Modard 26, 4000 Liège, BELGIUM ----- 3)TAS, Burhan Address of Applicant :Rue de la Station 17, 4800 Verviers, BELGIUM -----
(31) Priority Document No	:20166110.5	
(32) Priority Date	:27/03/2020	
(33) Name of priority country	:-----	
(86) International Application No	:PCT/EP2021/057409	
Filing Date	:23/03/2021	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:202117044494	
Filed on	:30/09/2021	

(57) Abstract :

ABSTRACT Title of the Invention: COMPOSITE WEAR COMPONENT The present invention discloses a hierarchical composite wear component comprising a reinforcement in the most exposed part to wear, the reinforcement comprising a three-dimensionally interconnected network of periodically alternating millimetric ceramic-metal composite granules with millimetric interstices, said ceramic-metal composite granules comprising at least 52 vol%, preferably at least 61 vol%, more preferably at least 70 vol% of micrometric particles of titanium carbide embedded in a first metal matrix, the ceramic-metal composite granules having a density of at least 4.8 g/cm³, the three-dimensionally interconnected network of ceramic-metal composite granules with its millimetric interstices being embedded in the second metal matrix, said reinforcement comprising in average at least 23 vol%, more preferably at least 28 vol%, most preferably at least 30 vol% of titanium carbide, the first metal matrix being different from the second metal matrix, the second metal matrix comprising the ferrous cast alloy. Figure 10

No. of Pages : 29 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202317030663 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SCALABLE SYNTHESIS OF PERIMORPHIC MATERIALS

(51) International classification	:C01F 5/24	(71) Name of Applicant :
(31) Priority Document No	:63/086760	1)DICKINSON CORPORATION
(32) Priority Date	:02/10/2020	Address of Applicant :31 Commercial Blvd. Novato, CA 94949 -----
(33) Name of priority country	:-----	Name of Applicant : NA
(86) International Application No	:PCT/US2021/053316	Address of Applicant : NA
Filing Date	:04/10/2021	(72) Name of Inventor :
(87) International Publication No	:WO 2022/072917	1)BISHOP, Matthew
(61) Patent of Addition to Application Number	:NA	Address of Applicant :35 Dolphin Isle Novato, CA 94949 -----
Filing Date	:NA	-----
(62) Divisional to Application Number	:NA	2)THOMAS, Abhay
Filing Date	:NA	Address of Applicant :137A Richardson Drive Mill Valley, CA 94941 -----

(57) Abstract :

The present disclosure is directed to the scalable synthesis of novel perimorphic materials, including stratified perimorphic frameworks, on recyclable templates, and using recyclable process liquids. Using these methods, three-dimensional architectures constructed from two-dimensional molecular structures can be produced economically and with reduced waste.

No. of Pages : 263 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/04/2023

(21) Application No.202317028235 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ULTRA-LOW-CARBON CLINKER-FREE CEMENT, AND PREPARATION METHOD AND USE THEREFOR

(51) International classification	:A61B 502000, C04B 073600, C21C 070600, C21C 071000, C22C 380000	(71) Name of Applicant : 1)HEBEI UNIVERSITY OF TECHNOLOGY Address of Applicant :No. 5340, Xiping Road, Beichen District, Tianjin 300401 ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)ZHOU, Jian Address of Applicant :No. 5340, Xiping Road, Beichen District, Tianjin 300401 ----- 2)XU, Mingfeng Address of Applicant :No. 5340, Xiping Road, Beichen District, Tianjin 300401 -----
(31) Priority Document No	:202210047686.4	
(32) Priority Date	:17/01/2022	
(33) Name of priority country	:-----	
(86) International Application No Filing Date	:PCT/CN2022/119169 :16/09/2022	
(87) International Publication No	:WO 2023/001320	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

“ULTRA-LOW-CARBON CLINKER-FREE CEMENT, AND PREPARATION METHOD AND USE THEREFOR” The disclosure provides an ultralow-carbon clinker-free cement, prepared from the following raw materials: granulated blast-furnace slag, gypsum and calcium oxide-based materials. The granulated blast-furnace slag accounts for 65%-95% of the total weight of the raw materials, the gypsum accounts for 4.5%-34.5% of the total weight of the raw materials, and the balance is the calcium oxide-based material. A weight percentage of calcium oxide and/or calcium hydroxide in the total weight of the raw materials is controlled to be 0.05% -0.75%. The disclosure further provides a method for preparing the ultralow-carbon clinker-free cement and application of the ultralow-carbon clinker-free cement in the preparation of concrete, mortar or cement products. The ultralow-carbon clinker-free cement of the disclosure has the advantages of high early strength, ultrahigh long-term strength, low shrinkage, carbonation resistance, low carbon emissions, etc.

No. of Pages : 41 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202317034403 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HIERARCHICAL COMPOSITE WEAR PART WITH STRUCTURAL REINFORCEMENT

(51) International classification	:B62D 290000, B62D 290400, C21D 080200, C22C 381400, E04D 033500	(71) Name of Applicant : 1)MAGOTTEAUX INTERNATIONAL S.A. Address of Applicant :Rue Adolphe Dumont 4051 Vaux-sous-Chèvremont -----
(31) Priority Document No	:20213121.5	Name of Applicant : NA
(32) Priority Date	:10/12/2020	Address of Applicant : NA
(33) Name of priority country	:-----	(72) Name of Inventor :
(86) International Application No Filing Date	:PCT/EP2021/082918 :25/11/2021	1)DESILES, Stéphane Address of Applicant :Rue Longchamps 35 4920 Aywaille -----
(87) International Publication No	:WO 2022/122393	2)BERTON, Guy Address of Applicant :Thier de l'Eglise 5 4210 Oteppe -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)BABINEAU, Marc Address of Applicant :Route de l'Abbaye 68 4052 Beaufays -----
(62) Divisional to Application Number Filing Date	:NA :NA	4)SINGH JAGGI, Amoldeep Address of Applicant :20807 103RD PL SE Kent, Washington 98031 -----

(57) Abstract :

The present invention is related to hierarchical composite wear component comprising a reinforced part, said reinforced part comprising a reinforcement of a triply periodic minimal surface ceramic lattice structure, said structure comprising multiple cell units, said cell units comprising voids and micro-porous ceramic cell walls, the micro-pores of the cell walls comprising a sinter metal or a cast metal, the ceramic lattice structure being embedded in a bi-continuous structure with a cast metal matrix.

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202317034541 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SAMPLE GENERATION METHOD AND APPARATUS

(51) International classification	:G06F 113600, G06K 096200, G06K 190600, G10L 190050, H04S 030000	(71)Name of Applicant : 1)BEIJING YUANLI WEILAI SCIENCE AND TECHNOLOGY CO., LTD. Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:202011309190.7	(72)Name of Inventor : 1)WANG, Dongxiao Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 -----
(32) Priority Date	:20/11/2020	2)YANG, Mingqi Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 -----
(33) Name of priority country	:-----	3)MA, Nan Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 -----
(86) International Application No Filing Date	:PCT/CN2021/130459 :12/11/2021	4)XIA, Long Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 -----
(87) International Publication No	:WO 2022/105693	5)GUO, Changzhen Address of Applicant :F01-03 & 05-10, 6th Floor, Building 1, No. 8 Yard, Guangshun South Avenue Chaoyang District Beijing 100102 -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided are a sample generation method and apparatus. The sample generation method comprises: acquiring a plurality of text-audio pairs, wherein each text-audio pair contains a text segment and an audio segment; calculating an audio feature of an audio segment of each of the plurality of text-audio pairs, and selecting, by means of screening and according to the audio feature, a target text-audio pair and a splicing text-audio pair corresponding to the target text-audio pair from among the plurality of text-audio pairs; splicing the target text-audio pair and the splicing text-audio pair into a text-audio pair to be tested, and testing the text-audio pair to be tested; and when the text-audio pair to be tested meets a preset test condition, writing the text-audio pair to be tested into a training database.

No. of Pages : 48 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/04/2023

(21) Application No.202311030598 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR FABRICATION OF PAPER-BASED ANALYTICAL DEVICE FOR DETECTION OF BACTERIA AND PRODUCT THEREOF

(51) International classification	:B01L 030000, C12Q 016890, G01N 273270, G01N 335430, G11C 160400	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY KANPUR Address of Applicant :DEAN, RESEARCH & DEVELOPMENT, ROOM NUMBER 151, FACULTY BUILDING, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)SANTOSH KUMAR MISRA Address of Applicant :DEPARTMENT OF BIOLOGICAL SCIENCES AND BIOENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur -----
Filing Date	:NA	2)PIYUSH KUMAR Address of Applicant :DEPARTMENT OF BIOLOGICAL SCIENCES AND BIOENGINEERING, IIT KANPUR, POST OFFICE: IIT KANPUR, KANPUR, UTTAR PRADESH - 208016, INDIA Kanpur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A PROCESS FOR FABRICATION OF PAPER-BASED ANALYTICAL DEVICE FOR DETECTION OF BACTERIA AND PRODUCT THEREOF ABSTRACT A process for fabrication of paper-based analytical device for detection of bacteria is provided. The process includes a combination of a redox active dye and carbon nanoparticles (CNPs) on filter paper to fabricate color changing redox active paper stamps (CoRAPS). The process provided by the present invention is simple and cost-effective. The present invention also provides the paper-based analytical device for detection of bacteria. The paper-based analytical device provides easy, cost effective and rapid detection of bacterial infection. The paper-based analytical device detects bacterial infection within 30 minutes. The paper-based analytical device may serve as a platform technology that can be applied for various uses ranging from detection of bacterial contamination in water to detection of bacterial infections in wounds. FIG. 1

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2023

(21) Application No.202317019612 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BATTERY PROTECTION PLATE AND MANUFACTURING METHOD THEREFOR, BATTERY, AND ELECTRONIC DEVICE

(51) International classification	:H01M 50/284, H01M 50/298	(71) Name of Applicant : 1)DONGGUAN NVT TECHNOLOGY LIMITED Address of Applicant :No.8 Xingguo Road, Jiaoshe Village, Dongkeng Town Dongguan, Guangdong 523000 ----- --
(31) Priority Document No	:202110873749.7	Name of Applicant : NA Address of Applicant : NA
(32) Priority Date	:30/07/2021	(72) Name of Inventor :
(33) Name of priority country	:-----	1)CAO, Yifang Address of Applicant :No.8 Xingguo Road, Jiaoshe Village, Dongkeng Town Dongguan, Guangdong 523000 ----- --
(86) International Application No Filing Date	:PCT/CN2022/095273 :26/05/2022	2)ZHAO, Yabin Address of Applicant :No.8 Xingguo Road, Jiaoshe Village, Dongkeng Town Dongguan, Guangdong 523000 ----- --
(87) International Publication No	:WO 2023/005392	3)ZHANG, Yanting Address of Applicant :No.8 Xingguo Road, Jiaoshe Village, Dongkeng Town Dongguan, Guangdong 523000 ----- --
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)LIANG, Yumei Address of Applicant :No.8 Xingguo Road, Jiaoshe Village, Dongkeng Town Dongguan, Guangdong 523000 ----- --
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

"BATTERY PROTECTION PLATE AND MANUFACTURING METHOD THEREFOR, BATTERY, AND ELECTRONIC DEVICE" 5 Implementations of this application relate to the field of battery technologies and disclose a battery protection board and a manufacturing method thereof, a battery, and an electronic device. The battery protection board includes a first circuit board, a second circuit board, and a tab connecting portion. The first circuit board includes a first substrate, electronic components, and an insulation layer, 10 where the first substrate includes a first surface and a second surface that are provided back to back with each other, several of the electronic components are disposed on the first surface, and the insulation layer covers the electronic components on the first surface. The second circuit board includes a second substrate, where the second substrate includes a third surface and a fourth surface 15 that are provided back to back with each other. The third surface is connected with the second surface, and the tab connecting portion is disposed on the fourth surface. Through the above arrangement, the first substrate has sufficient space reserved for soldering the second substrate, improving reliability of connection between the first circuit board and the second circuit board, optimizing spatial 20 layout of the battery protection board, and ensuring versatility of the first circuit board. This improves versatility of the battery protection board to some extent.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/04/2023

(21) Application No.202317027434 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD OF MANUFACTURING A HOT ROLLING MILL ROLL BY LASER CLADDING

(51) International classification	:B21B 271000, B23K 263400, B23K 263420, B23K 353000, C23C 241000	(71) Name of Applicant : 1)CENTRE DE RECHERCHES MÉTALLURGIQUES ASBL Address of Applicant :Rue Ravenstein 4 1000 BRUSSELS ---- ----- Name of Applicant : NA Address of Applicant : NA
(31) Priority Document No	:20201483.3	(72) Name of Inventor :
(32) Priority Date	:13/10/2020	1)WALMAG, Gisèle Address of Applicant :Rue de la Poste 3 4130 TILFF ----- ----
(33) Name of priority country	:-----	2)ESSER, Grégory Address of Applicant :Rue Théodore Dujardin 8 4830 Limbourg --
(86) International Application No Filing Date	:PCT/EP2021/078329 :13/10/2021	3)SINNAEVE, Mario Address of Applicant :Rue du Marquat 11a 4280 MERDORP -----
(87) International Publication No	:WO 2022/079108	-----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to a method for manufacturing a hot rolling mill roll by laser cladding a reusable steel axe substrate having a rotational symmetry axis with a metal coating external layer, said metal coating external layer having a work tool steel composition, wherein the composition for said metal coating external layer comprises 0.5-3.5% C, 2-18% Cr, 0.5-7% Mo, 0.5-8% V, 0.2-7% W, 0-5% Nb, 0-1% Ti, 0.5-2% Mn, 0.2-3% Si and 0-3% Ni, the rest being Fe and inevitable impurities; characterised in that : - the composition for said metal coating external layer further comprises nitrogen in the range 200-2500ppm; - the sum of atomic contents (mass %) of MC carbides-forming elements, selected from the group consisting of Ti, Nb, and V, + 3/8 of the sum of atomic contents (mass %) of M23C6 and/or M2C forming elements, selected from the group consisting of Mo, W, and Cr, is lower than the sum of atomic contents (mass %) of interstitial elements C and N, + 0.01.

No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202317033739 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BATTERY AND ELECTRONIC DEVICE HAVING SAME

(51) International classification :G02F 011523, G06F 013234, H01M 041300, H01M 504490, H02J 070000
(86) International Application No :PCT/CN2020/122221
Filing Date :20/10/2020
(87) International Publication No :WO 2022/082437
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Provided is a battery (100), comprising a housing (10) and a battery core (20) accommodated in the housing (10). The housing (10) comprises a first housing (11) and a second housing (12) which are electrically isolated from each other. The second housing (12) is mounted on the first housing (11). The battery core (20) comprises a first electrode plate (21), a second electrode plate (22), and a diaphragm (23) located between the first electrode plate (21) and the second electrode plate (22). The battery (100) further comprises a first conductive member (31) and a second conductive member (32) which are accommodated in the housing (10) and electrically isolated from each other, the first conductive member (31) being electrically connected to the first electrode plate (21) and the first housing (11), and the second conductive member (32) being electrically connected to the second electrode plate (22) and the second housing (12). The first conductive member (31) and the second conductive member (32) form a conductive structure (30), and the first electrode plate (21), the diaphragm (23) and the second electrode plate (22) are wound around the conductive structure (30) to form the battery core (20). A starting end of the first electrode plate (21) and a starting end of the second electrode plate (22) are located between the first conductive member (31) and the second conductive member (32). Further provided is an electronic device (200) having the battery (100). According to the battery (100), the internal space utilization rate and energy density of the battery (100) can be improved.

No. of Pages : 15 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034254 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR PRODUCING A BIODEGRADABLE PLASTIC FILM

(51) International classification :B65D 654600, C08G 637800, C08L 011600, C08L 890000, C08L 990000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

A SYSTEM FOR PRODUCING A BIODEGRADABLE PLASTIC FILM Abstract The present invention is a system and method for producing a biodegradable plastic film using waste materials from banana peels and Euphorbia caducifolia plant debris. The system comprises a chopper, a beaker, a heating element, a grinding apparatus, a container, a stirring device, a drying surface, and an oven. The method involves several steps, including chopping, boiling, drying, grinding, mixing, stirring, spreading, and drying again. The resulting plastic film is environmentally friendly and can be used in a variety of applications. The system can be adapted to include different types of equipment and materials, and the method can be modified to suit specific needs. This invention offers a sustainable and eco-friendly solution for the production of plastic materials that can help reduce the impact of traditional plastics on the environment.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034255 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR AUDIO STEGANOGRAPHY USING COMBINED APPROACH OF COMPRESSION & CRYPTOGRAPHY

(51) International classification :G06N 030400, G06T 010000, G09C 050000, H04L 090800, H04L 651101
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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2)DR. VAIBHAV VYAS

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(72)Name of Inventor :

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Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----

(57) Abstract :

Method for Audio Steganography Using Combined Approach of Compression & Cryptography Abstract The present invention is a method for audio steganography using a combined approach of compression and cryptography. The method aims to provide a secure and efficient way to transmit confidential data using audio signals. The method involves compressing the data to be concealed using a lossless compression algorithm, encrypting the compressed data using a symmetric or asymmetric encryption algorithm, and embedding the encrypted data within the audio carrier signal using a least significant bit (LSB) or other steganographic technique, generating a steganographic audio signal that conceals the encrypted data. The steganographic audio signal can then be transmitted or stored for later use.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202311034256 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TOOL TO DETERMINE THE IMPACT OF DIVERSE TECHNIQUES ON VOCAL MUSIC LEARNING

(51) International classification	:G06F 031200, G09B 150000, G10H 010000, H04N 133660, H04W 240200	(71) Name of Applicant : 1)BANASTHALI VIDYAPITH Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(86) International Application No	:NA	2)DR. INA SHASTRI
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor : 1)DR. INA SHASTRI Address of Applicant :BANASTHALI VIDYAPITH, P.O. BANASTHALI, BANASTHALI, RAJASTHAN, INDIA, 304022 JAIPUR Jaipur -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

TOOL TO DETERMINE THE IMPACT OF DIVERSE TECHNIQUES ON VOCAL MUSIC LEARNING Abstract The present invention relates to a tool for determining the impact of diverse techniques on vocal music learning. The tool includes an input module configured to receive audio data related to a user's singing performance, a reference database storing audio data related to one or more reference performances, a processing module configured to analyze the user's singing performance in comparison to one or more reference performances, a scoring module configured to assign a score based on the analysis of the user's singing performance, a feedback module configured to provide feedback and personalized recommendations to the user based on the score and the analysis of the user's singing performance, and a user interface configured to display the feedback and personalized recommendations to the user. Fig. 1

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/04/2023

(21) Application No.202311028435 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "ISOLATION OF ANDROGRAPHOLIDE FROM ANDROGRAPHIS PANICULATA LINN LEAVES"

(51) International classification	:A61K 313410, A61K 313650, A61K 361900, A61P 370600, C07D 076000	(71)Name of Applicant : 1)DR. BHUVNESH KUMAR SINGH Address of Applicant :ASSOCIATE PROFESSOR, MORADABAD EDUCATIONAL TRUST GROUP OF INSTITUTIONS FACULTY OF PHARMACY, RAMGANGA VIHAR PHASE 2 MORADABAD, UTTAR PRADESH-244001, INDIA ----- -----
(86) International Application No Filing Date	:NA :NA	2)MR. VIVEK KUMAR Address of Applicant :ASSOCIATE PROFESSOR, MORADABAD EDUCATIONAL TRUST GROUP OF INSTITUTIONS FACULTY OF PHARMACY, RAMGANGA VIHAR PHASE 2 MORADABAD, UTTAR PRADESH-244001, INDIA ----- -----
(87) International Publication No	: NA	3)MRS. BHAWANA RATHI Address of Applicant :ASSOCIATE PROFESSOR, MORADABAD EDUCATIONAL TRUST GROUP OF INSTITUTIONS FACULTY OF PHARMACY, RAMGANGA VIHAR PHASE 2 MORADABAD, UTTAR PRADESH-244001, INDIA ----- -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)MS. SURABHI SHRIVASTAVA Address of Applicant :ASSOCIATE PROFESSOR, MORADABAD EDUCATIONAL TRUST GROUP OF INSTITUTIONS FACULTY OF PHARMACY, RAMGANGA VIHAR PHASE 2 MORADABAD, UTTAR PRADESH-244001, INDIA ----- -----
(62) Divisional to Application Number Filing Date	:NA :NA	5)MS. NISHI SHARMA Address of Applicant :ASSOCIATE PROFESSOR, MORADABAD EDUCATIONAL TRUST GROUP OF INSTITUTIONS FACULTY OF PHARMACY, RAMGANGA VIHAR PHASE 2 MORADABAD, UTTAR PRADESH-244001, INDIA ----- -----
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(57) Abstract :

The current disclosure focuses on isolating phytoconstituents from Andrographis paniculata linn's active extracts and characterising them further with LC-MS. The analysis and quantification of plant and drug metabolites found in biological samples has also been done using LCMS. for the purpose of providing a qualitative assay with high enough sensitivity, specificity, and molecular structure information. It explains the UCMS technique's use to characterise andrographolide. The current invention facilitates the separation and identification of andrographolide by LCMS from the leaves of Andrographis paniculata Linn.

No. of Pages : 10 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/05/2023

(21) Application No.202311035741 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR MEASURING EARTH RESISTANCE

(51) International classification	:G01R 27/18, G01R 27/20, G01R 31/52, G01R 31/54	(71) Name of Applicant : 1)DSS Electric Corporation LLP Address of Applicant :B-106, First floor, Sector 64, Noida, Uttar Pradesh- 201301, India. Noida -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor : 1)Praveen Kumar Address of Applicant :B-106, first floor, Sector 64, Noida-201301, Uttar Pradesh, India. Noida -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM FOR MEASURING EARTH RESISTANCE Present invention describes system for measuring earth resistance. The system comprises a substation transformer comprising a plurality of terminals. A first test lead is connected with a line terminal of the plurality of terminals for obtaining a first line reference value required for measurement of the earth fault loop impedance. A second test lead is connected with a neutral terminal of the plurality of terminals for obtaining a second line reference value required for measurement of the earth fault loop impedance. The first line reference value and the second line reference value are added to determine a line resistance. A third test lead is connected with an earth terminal of the plurality of terminals for obtaining an earth resistance required for measurement of the earth loop impedance. A processing element determines the earth loop impedance based on the line resistance and the earth resistance. (Figure 3)

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/05/2023

(21) Application No.202311031137 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND DEEP LEARNING ALGORITHMS TO DETECT AND PREVENT MALWARE IN CYBER SECURITY

(51) International classification	:G06F 215600, G06K 096200, G06N 030400, G06N 030800, G06N 200000	(71) Name of Applicant : 1)LLOYD INSTITUTE OF ENGINEERING & TECHNOLOGY, GREATER NOIDA Address of Applicant :Plot No - 3, Knowledge, Park-II, Greater Noida, Uttar Pradesh - 201308, India Greater Noida ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Dr. ALN Rao Address of Applicant :Professor, Department of CSE, Lloyd Institute of Engineering and Technology, Greater Noida, Uttar Pradesh-201308, India. Greater Noida ----- 2)Dr. A. Kakoli Rao Address of Applicant :Professor and HoD, Department of CSE, Lloyd Institute of Engineering and Technology, Greater Noida, Uttar Pradesh-201308, India. Greater Noida ----- 3)Shalini Address of Applicant :Student, Department of CSE, Lloyd Institute of Engineering and Technology, Greater Noida, Uttar Pradesh-201308, India. Greater Noida -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ARTIFICIAL INTELLIGENCE AND DEEP LEARNING ALGORITHMS TO DETECT AND PREVENT MALWARE IN CYBER SECURITY ABSTRACT With rapid technological advancement, security has become a major issue due to the increase in malware activity that seriously threatens the security and safety of computer systems and stakeholders. Maintaining stakeholders', particularly end users, security and protecting the data from fraudulent efforts is one of the most pressing concerns. A set of malicious programming code, scripts, active content, or intrusive software designed to destroy intended computer systems and programs or mobile and web applications is called malware. According to learning, naive users cannot distinguish between malicious and benign applications. Thus, computer systems and mobile applications should be designed to detect malicious activities towards protecting the stakeholders. Several algorithms are available to see malware activities by utilizing novel concepts, including Artificial Intelligence, Machine Learning, and Deep Learning. In this learning, we emphasize Artificial Intelligence (AI) based techniques for detecting and preventing malware activity. We present a detailed review of current malware detection technologies, their shortcomings, and ways to improve efficiency. Our learning shows that adopting futuristic approaches for developing malware detection applications shall provide significant advantages. The comprehension of this synthesis shall help researchers for further research on malware detection and prevention using AI.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/05/2023

(21) Application No.202311031223 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND DEVELOPMENT OF ARTIFICIAL INTELLIGENCE BASED NINO ROBOT

(51) International classification	:C11B 090000, G05B 230200, G06N 050400, G06N 200000, G06Q 300200	(71) Name of Applicant : 1)Kshitiz agarwal Address of Applicant :patent application ----- -----
(86) International Application No	:NA	2)Arya Institute of Engineering and Technology Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor : 1)Dr Arvind Agarwal Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
(87) International Publication No	: NA	2)Dr Puja Agarwal Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
(61) Patent of Addition to Application Number	:NA	3)Dr Himanshu Arora Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
Filing Date	:NA	4)Dr Pramod sharma Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
(62) Divisional to Application Number	:NA	5)Mr Pawan Sen Address of Applicant :SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
Filing Date	:NA	

(57) Abstract :

Abstract: Nino is a humanoid robot with advanced abilities such as talking, walking, dancing, singing, playing, and problem-solving, all of which are powered by its built-in intelligence. This research paper investigates the feasibility of bringing Nino into the classroom as an assistant teacher, providing innovative, developmentally appropriate, hands-on, experiential, and interactive activities, stories, poems, and projects to introduce, strengthen, summarise, and assess concepts taught by teachers. Nino is also a member of SKIP, or the Sirena Knowledge and Information Programme, which teaches children about technology through robotics labs in schools. This paper also discusses Nino's evolution with neural networks, artificial intelligence, ASR, and text-to-speech solutions, as well as its planned variants Nino-T and Nino-Teen, which are tailored for different places and purposes.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202314034723 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND DEVICE FOR FIXED CONNECTION OF SOLAR CELL STRING, AND PRESS ASSEMBLY

(51) International classification	:G11C 160400, H01L 310500, H01L 311800, H01R 135200, H02S 403400	(71)Name of Applicant : 1)SUZHOU XIAONIU AUTOMATION EQUIPMENT CO., LTD. Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China
(31) Priority Document No	:CN202211224117.9	Name of Applicant : NA
(32) Priority Date	:09/10/2022	Address of Applicant :NA
(33) Name of priority country	:-----	(72)Name of Inventor :
(86) International Application No	:NA	1)CHEN, Shigeng Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China
Filing Date	:NA	-----
(87) International Publication No	: NA	2)WU, Yonggang Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China
(61) Patent of Addition to Application Number	:NA	-----
Filing Date	:NA	3)GE, Qifei Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China
(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	4)YANG, Yong Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China

		5)YIN, Biao Address of Applicant :Building 16, No. 156, Xinyang Avenue, Xinzhuang Town, Changshu City, Suzhou, Jiangsu 215562 China

(57) Abstract :

A method for fixed connection of a solar cell string, in which a first press and a second press are placed on a front film to apply pressure to the front film and a back film to keep the front film and the back film flat, which effectively avoids the shrinkage of the front film and the back film during a melting-solidification operation. The first press and the second press press against the front film prior to a melting-solidification, such that the first press and the second press can move with the solar cell string, and can always press the front film throughout the melting-solidification operation. Therefore, the solar cell string can move in the melting-solidification zone constantly without stay, which improves the production efficiency of the solar cell string. A press assembly and a device are also provided to perform the method.

No. of Pages : 45 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2023

(21) Application No.202311031559 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DIABETIC FOOT DETECTION

(51) International classification	:A43B 170200, A61B 173200, A61H 390400, A61P 031000, A61P 170200	(71) Name of Applicant : 1)Eras Lucknow Medical College & Hospital Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)American University of Barbados 3)Mr. Mohsin Ali Khan 4)Mr. Zaw Ali khan 5)Ms. Kinza Zehra 6)Ms. Sarina Zehra
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Mr. Mohsin Ali Khan Address of Applicant :Eras Lucknow Medical College & Hospital , Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 2)Mr. Zaw Ali khan Address of Applicant :Eras Lucknow Medical College & Hospital , Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 3)Ms. Kinza Zehra Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow ----- 4)Ms. Sarina Zehra Address of Applicant :Eras Lucknow Medical College & Hospital, Sarfarazganj, Hardoi Road, Lucknow, Uttar Pradesh 226003, India. Lucknow -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Diabetic Foot Detection” is a Criteriontech developed an AI based innovative device for Diabetic Foot Patients. Precise assessment of patient’s diabetic foot condition. Improved and effective treatment through accurate assessment by device. Provides clear and accurate picture with the help of light and camera. Using hardware and software, this device can precisely and appropriately assess a patient's diabetic foot. Doctors can examine the diabetic foot's exact position and condition. Doctors can also monitor the length and color of the diabetic foot. This helps doctors make an accurate diagnosis of the patient's wound and allows them to prescribe better treatment on a regular basis. This device monitors the exact location and color of the wound using appropriate light and camera.

No. of Pages : 9 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/04/2023

(21) Application No.202317026267 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR PREDICTING CANCER METASTASIS AND SCREENING OF DRUGS

(51) International classification	:G16B 40/00, G16H 50/70	(71) Name of Applicant : 1)MESTASTOP SOLUTIONS PRIVATE LIMITED Address of Applicant :D714 Raja Aristos, Doddakammanahalli Main Road, Bengaluru, Karnataka, Bangalore 560076 -----
(31) Priority Document No	:202041040890	Name of Applicant : NA Address of Applicant : NA
(32) Priority Date	:21/09/2020	(72) Name of Inventor :
(33) Name of priority country	:-----	1)CHOWDHURY, Arnab Roy Address of Applicant :D 714 Raja Aristos, Doddakammanahalli Main Road Bangalore, Karnataka, 560076 Bangalore -----
(86) International Application No Filing Date	:PCT/IN2021/050915 :17/09/2021	2)CHOWDHURY, Debabani Roy Address of Applicant :D 714 Raja Aristos, Doddakammanahalli Main Road Bangalore, Karnataka, 560076 Bangalore -----
(87) International Publication No	:WO 2022/059026	3)PANDRE, Manoj Address of Applicant :Door # 4/5, Compounder Lane, Bus stand road, Hospet, Karnataka, 583201 Hospet -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)ROY, Samrat Address of Applicant :#123, A Block, Radiant Shine, Begur Kopa Rd, Yelenahalli, Bangalore, Karnataka, 560068 Bangalore -----
(62) Divisional to Application Number Filing Date	:NA :NA	5)KANNAN, Sundarajan Address of Applicant :No. 685/4, RR Building, Bandappa road, Yeswanthpur, Bangalore, Karnataka, 560022 Bangalore -----

(57) Abstract :

Systems and methods for predicting cancer metastasis and screening of drugs. Embodiments herein disclose methods and systems for determining the ability of at least one cancer cell to metastasize and for screening of compounds/drugs for their potential use in inhibiting cancer metastasis.

No. of Pages : 29 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2023

(21) Application No.202311026791 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND DEVELOPMENT OF ROBOCOP ROBOT FOR ADVANCED SURVEILLANCE AND GUIDANCE SYSTEM

(51) International classification	:A61B 342000, B25J 190000, C11B 090000, G06F 112600, G08B 131960	(71) Name of Applicant : 1)Kshitiz agarwal Address of Applicant :patent application ----- -----
(86) International Application No	:NA	2)Arya Institute of Engineering & Technology Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Dr Arvind Agarwal Address of Applicant :Arya Institute of Engineering & Technology ,SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
(61) Patent of Addition to Application Number	:NA	2)Dr Pramod Sharma Address of Applicant :Arya Institute of Engineering & Technology,SP-40, RIICO Industrial Area, Kukas, Delhi Road, Jaipur Rajasthan - 302028 Jaipur ----- -----
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Filing Date	:NA	

(57) Abstract :

A Robot is a machine—especially one programmable by a computer—capable of carrying out a complex series of actions automatically. A robot can be guided by an external control device, or the control may be embedded within. Robots may be constructed to evoke human form, but most robots are task-performing machines, designed with an emphasis on stark functionality, rather than expressive aesthetics. Robocop implies that it can be shared and modified by anyone, because the design has been made public for all to see. It's a concept that comes from software development, and has also extended outside that realm. There are a set of principles that have grown from this concept. They are called the “the open-source way” and can also be applied to other professional domains such as media, science, manufacturing etc. These principles are Transparency, Collaboration, Release Early and Often, Meritocracy, and Community.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2023

(21) Application No.202311027111 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CONTINUOUS LUNG HEALTH MONITORING SYSTEM

(51) International classification

:A41D 13/11, A61B 5/00, A61B 7/00,
G06N 20/00, G06N 3/08, G16H 50/20,
G16H 50/30

(86) International Application No

:NA

:NA

(87) International Publication No

: NA

(61) Patent of Addition to Application Number

:NA

:NA

(62) Divisional to Application Number

:NA

:NA

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(57) Abstract :

A CONTINUOUS LUNG HEALTH MONITORING SYSTEM ABSTRACT A continuous lung health monitoring system 100 that is capable of detecting the current status of the patient's lung health is provided. The continuous lung health monitoring system 100 includes a wearable acoustic mask 102 and a detachable intelligent edge device 108 that monitors the patient's lung health using nasal auscultations obtained from the wearable acoustic mask 102. The continuous lung health monitoring system 100 incorporates decision making by predicting the deterioration or recovery of the patient using machine learning algorithms. The continuous lung health monitoring system 100 enables patient's health monitoring without continuous power supply and internet. The continuous lung health monitoring system 100 is highly cost-effective and easy to use, thereby making it highly suitable for any type of subject like a child, old age, or sick person. FIG. 1

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/06/2022

(21) Application No.202221035482 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DESIGN AND WORK OF COVID CARE ASSISTING ROBOT EQUIPPED WITH ARTIFICIAL INTELLIGENCE.

(51) International classification :A61B000500000, G16H0010600000, G16H0050300000,
G16H0050200000, B25J0009160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant : NA

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(57) Abstract :

This invention describes a robotic device designed to provide medical assistance to analyse the patient's condition and learn about the treatments provided to make the patient better. The automated system has been programmed with Artificial intelligence to perform the testing when a patient enters the hospital vicinity. It has a portable CT scanner and temperature scanner that helps detect the infection level. The Portable X-ray equipped with the robotic system allows performing a chest CT to assure the infection. The Oxygen level of the patient is monitored, and the patient and the doctors are advised about the possible methods to improve the oxygen level based on the criticality of the patient. It keeps tracking all the activities and strategies adopted by doctors to treat different patients. It performs data extraction from worldwide data to analyse and provide the best treatment method to the doctors using machine learning. Design and work of covid care assisting robot equipped with artificial intelligence

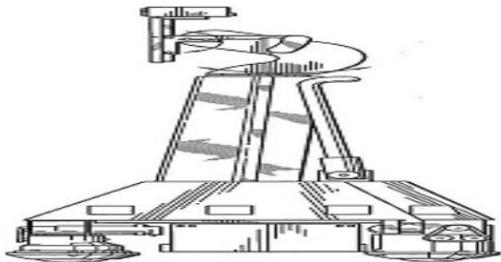


FIGURE - 1

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/04/2023

(21) Application No.202321027960 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AI-POWERED VIRTUAL ASSISTANT FOR CUSTOMIZABLE DATA ANALYSIS WITH USER-FRIENDLY INTERFACE.

(51) International classification :G06F 031600, G06F 094510, G06N 030000, G10L 152200, H04N 214310
(86) International Application No Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA
(62) Divisional to Application Number Filing Date :NA

(71)Name of Applicant :

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3)Prof. Pooja Rameshchandra Oza

4)Prof. Gajanan Arsalwad

5)Prof. Nagaraju Bogiri

6)Prof. Vikas B. Maral

7)Prof. Pranav Shriram

8)Dr. Dattatray G. Takale

Name of Applicant : NA

Address of Applicant : NA

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7)Prof. Pranav Shriram

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Address of Applicant :Assistant Professor VIIT, SPPU, Pune -----

(57) Abstract :

This invention describes AI-powered virtual assistants for customizable data analysis with a user-friendly interface in the field of data analysis. This technology utilizes artificial intelligence and machine learning algorithms to analyze large volumes of data and provide insights to users. The system is highly scalable and can analyze data from a range of sources, including databases, spreadsheets, and cloud-based storage solutions. One of the key features of this technology is its user-friendly interface, which includes voice recognition and natural language processing, allowing users to interact with the virtual assistant using spoken commands. Additionally, the system is highly customizable, allowing users to configure it to meet their specific data analysis needs. This technology has the potential to significantly improve data analysis capabilities for businesses and organizations, providing users with accurate and relevant insights in a quick and efficient manner.

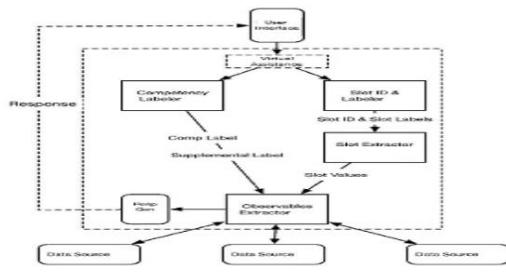


FIGURE – 1

No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202321033113 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HYBRID SOIL IMPROVEMENT DEVICE FOR ENHANCED CROP YIELD

(51) International classification	:A01B 770000, A01D 411270, B07B 014600, C05G 038000, H04W 720400	(71)Name of Applicant : 1)Swati Sinha Address of Applicant :Assistant Professor, SNJBs KBJ COE -- ----- 2)Pankaj Ramnath Modak 3)Sanjay Devidas Nagrale 4)Mahesh Dadu Mogane 5)Prathamesh Sawarkar 6)Mahesh Ashok Bhandari Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Swati Sinha Address of Applicant :Assistant Professor, SNJBs KBJ COE ----- ----- 2)Pankaj Ramnath Modak Address of Applicant :Assistant Professor, AISSMS College of engineering Savitribai Phule Pune University ----- 3)Sanjay Devidas Nagrale Address of Applicant :Assistant Professor, AISSMS College of engineering Savitribai Phule Pune University ----- 4)Mahesh Dadu Mogane Address of Applicant :PG Student, Arvind College of engineering,Satara ----- 5)Prathamesh Sawarkar Address of Applicant :PG Student, Arvind College of Engineering,Satara ----- 6)Mahesh Ashok Bhandari Address of Applicant :Assistant Professor, VIIT, SPPU, Pune ----- -----
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention describes Hybrid Soil Improvement Device for Enhanced Crop Yield. The Hybrid Soil Improvement Device is an innovative and compact solution that utilizes mechanical and chemical processes to optimize soil conditions for plant growth. The device features sharp blades that penetrate the soil and a reservoir that releases a specially formulated soil conditioner to improve soil structure and nutrient availability. It is powered by a rechargeable battery and equipped with sensors that measure soil moisture levels and nutrient content, providing farmers with real-time information on soil conditions and crop health. By improving soil aeration and water infiltration, promoting root development, and increasing nutrient availability, it can significantly enhance crop yield while reducing fertilizer and water usage, ultimately contributing to sustainable agriculture and food security. The device is a valuable contribution to the agricultural industry, providing farmers with an affordable and efficient solution for improving soil quality and crop yield.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/07/2022

(21) Application No.202221042884 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CONTAINER WITH SELF-DISPENSING MECHANISM FOR LIQUIDS

(51) International classification :E03F000700000, F21Y0115100000,
B05B001100000, B65D0047120000,
B65D0041260000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Pune -----

(57) Abstract :

Disclosed is a container (100) with self-dispensing mechanism. The container comprises a hollow body member (10) having a lower portion (10) and an upper portion (14). The container (100) further comprises a resilient bellow (16) connecting the lower portion (12) and the upper portion (14). The container (100) furthermore comprises an opening (14a) configured on the upper portion (14) of the hollow body member (10) for filling and taking out the liquid and a nozzle unit (20) having a base cap (22) and a nozzle (24) with opening at its tip (24a). The container (100) also comprises a measuring cup (30) having central hollow pipe (32), wherein the central hollow pipe (32) is open from the bottom portion and top portion. Specifically, the measuring cup (30) is capable of removably placed on the nozzle unit (20) such that the nozzle (24) passes through the central hollow pipe (32) and the tip (24a) of the nozzle comes out from the top portion of central hollow pipe (32).

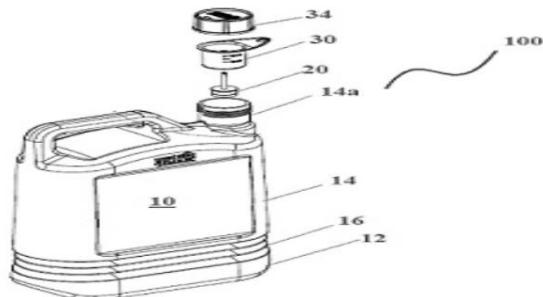


Figure 1

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2022

(21) Application No.202221073304 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SCREEN PRINTING INK COMPOSITION AND A PROCESS FOR ITS PREPARATION

(51) International classification :C09D0011030000, B41M0001120000, C09D0011520000, C09D0011101000, B41F0015080000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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(57) Abstract :

ABSTRACT SCREEN PRINTING INK COMPOSITION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a screen printing ink composition and a process for its preparation. The screen printing ink compositions of the present disclosure are water based compositions, devoid of hazardous solvents in the composition. The screen printing ink compositions of the present disclosure effectively impart enhanced adhesion, scratch resistance, chemical resistance, and excellent drying time when applied to the plastic substrates.

COMPLETE SPECIFICATION

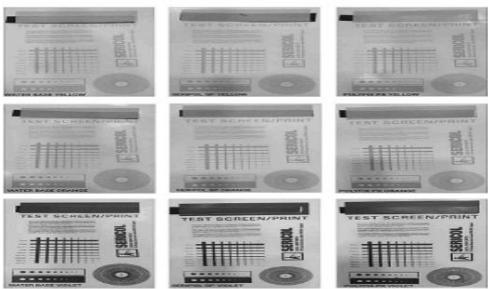


Figure 1

No. of Pages : 40 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202321034909 A

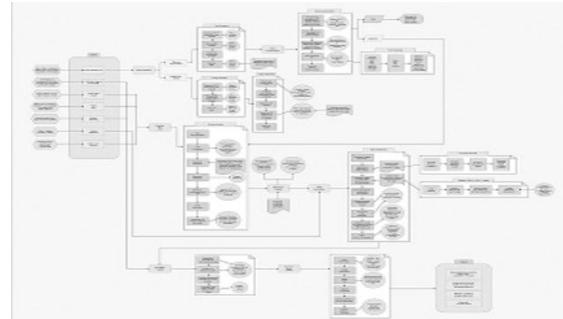
(43) Publication Date : 23/06/2023

(54) Title of the invention : EDICT.AI - AUTOMATED NEWS VIDEO GENERATION

(51) International classification	:B60R 010000, G06Q 100600, H04N 052220, H04N 052620, H04N 218540	(71)Name of Applicant : 1)KULDEEP BABAN VAYADANDE Address of Applicant :Flat No. 202, B Wing, Niwasa Umang, Kondhwa BK., Pune -----
(86) International Application No Filing Date	:NA :NA	2)Prof.(Dr). Premanand P. Ghadekar 3)Mohit Chawla 4)Mustansir Bohari 5)Asif Mursal 6)Omkar Mundlik 7)Omkar Jadhav
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA	Address of Applicant : NA
(62) Divisional to Application Number Filing Date	:NA :NA	(72)Name of Inventor : 1)Dr. KULDEEP BABAN VAYADANDE Address of Applicant :Vishwakarma Institute of Technology, 666, Upper Indiranagar, Bibwewadi, Pune, Maharashtra, INDIA - 411037 Pune -----
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(57) Abstract :

edict.ai is a web application designed to automate the production of news videos from written articles and seamlessly upload them to social media sites. Our system leverages technologies such as web scraping, news authentication, image searching, scripting, audio production, image mapping, video production, thumbnail creation, and automatic video uploading to streamline the content creation process. Additionally, we use sentiment analysis and image classification to enhance the naturalness and expressiveness of the generated speech, creating compelling and engaging videos. Our platform is tailor-made for news outlets and individual journalists who want to effortlessly transform their written articles into visually stunning video content. By facilitating the creation and dissemination of engaging and informative news videos, our platform promotes unbiased and diverse journalism, enabling news outlets and journalists to reach a wider audience.



No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202321034931 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : POLYHERBAL GREEN TEA FOR MANAGEMENT OF DIABETES MELLITUS

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3)Prof. (Dr.) Mrunal Krishnarao Shirsat
4)Dr. Amj Malik
5)Dr. Mohd Mudassir Hussain
6)Vinay Kumar Yanmandru
7)Dr. Raghvendra
8)G Suresh Kumar
9)Dr. G. Sudhakarao
10)Dr. Syed Mujtaba Ahmed
11)Dr. Gavini Siva Bharath
12)Polly Gupta

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Address of Applicant : NA

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(51) International classification :A23F 033400, A61K 361850, A61K 368200, A61P 031000, C07D 138200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

The present invention relates to a polyherbal green tea formulation for the management of diabetes mellitus. The formulation combines carefully selected herbal ingredients, including green tea leaves, Gymnema sylvestre leaves, cinnamon bark, fenugreek seeds, Indian gooseberry, and bitter melon, to provide a synergistic effect in controlling blood sugar levels. The formulation offers a natural and holistic approach to diabetes management, harnessing the antidiabetic properties of these herbs. The invention also provides a method for the preparation of the polyherbal green tea formulation, ensuring the optimal blend of ingredients and therapeutic efficacy.

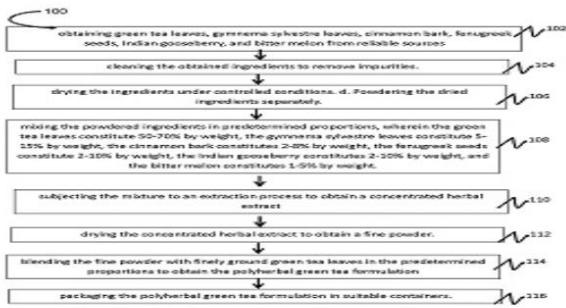


Figure 3.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035328 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTI-PURPOSE SEALING MODULE FOR PLASTIC FILM BASED BAGS AND POUCHES MAKING MACHINE

(51) International classification	:B31B 70/64, B65B 51/10, B65B 51/30	(71)Name of Applicant : 1)Mamata Machinery Private Limited Address of Applicant :423/P, Sarkhej-Bavla Highway, Moraiya, Taluka Sanand, Dist. Ahmedabad-382 213, India Ahmedabad ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)MISTRY Hemang Rameshchandra Address of Applicant :4, Pushpam Twin Towers, Near Shyamalprasad Bridge, Vejalpur, Ahmedabad, Gujarat India, 380051 Ahmedabad ----- 2)PITHAVA Janak Keshavlal Address of Applicant :L-103, Surampya Apartment, Near Nigam Society, Ghodasar, Ahmedabad, Gujarat, India, 380050 Ahmedabad -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

MULTI-PURPOSE SEALING MODULE FOR PLASTIC FILM BASED BAGS AND POUCHES MAKING MACHINE Abstract Multi-purpose sealing module (20) for machine (10) to manufacture heat-sealed plastic film based bags comprises a servo motor driven common drive shaft (30) in keyed connection with eccentric cams (40a, 40b) and (50a, 50b) such that eccentricity is equal and in opposite directions. Crank arms (60a, 60b) are connected to the eccentric cams (40a, 40b) though bearings (80a, 80b) and through bearings (120a, 120b) to linear guide rods (100a, 100b). Linear guide rods (100a, 100b) are in rigid connection with upper seal beam (140). Crank arms (70a, 70b) are connected to the eccentric cams (50a, 50b) though bearings (90a, 90b) and through bearings (130a, 130b) to connecting rods (110a, 110b). Connecting rods (110a, 110b) are in rigid connection with lower seal beam (150). Movement of lower seal beam (150) is guided by linear guide rods (100a, 100b). Angular movement of common drive shaft (30) gives simultaneous linear movement in opposite directions to upper seal beam (140) and lower seal beam (150) controlling the gap between a sealing jaw connected to upper seal beam (140) and a sealing jaw connected to the lower seal beam (150). Seal time and seal pressure of sealing of plastic film based bags and pouches; and angular movement of the drive shaft (30) are controlled by a programmable controller.

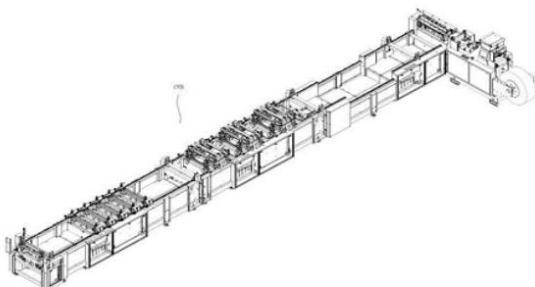


Fig. 1

No. of Pages : 31 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035331 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A HYBRID (CENTRALIZED AND DECENTRALIZED) PRODUCT AND LOGISTICS VERIFICATION SYSTEM USING BLOCKCHAIN.

(51) International classification :G06Q 100800, H04L 090600, H04L 090800, H04L 093200, H04L 671040
(86) International Application No Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number Filing Date :NA

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(57) Abstract :

The prevalence of counterfeiting is causing severe damage to the reputation of companies and brands. Numerous brands have suffered a decline in their value and recognition due to the presence of counterfeit products. To tackle those concerns, it is essential to maintain openly available data for consumers to verify product information and establish a sense of trust in its authenticity. Blockchain technology offers a potential solution by verifying the authenticity of products and instilling confidence in users. The proposed system utilizes Quick Response (QR) codes or unique encrypted codes, which are highly effective methods for detecting product uniqueness. By scanning the QR code, users are directed to a blockchain containing comprehensive product information, as well as details about the manufacturer and owner. This enables buyers to make informed decisions based on reliable data. Our developed system offers three pre-defined roles (manufacturer, retailer, customer) to users during the registration process. The registration and login data will be stored centrally on the hosting devices or clouds. Manufacturers have the capability to add their products to the system, product details and ownership status are stored within Ethereum's architecture using smart contracts. Each registered product is assigned a unique ID and QR Code for identification purposes. Manufacturers, distributors, and retailers have the option to update the location of the original product. Customers can authenticate products and track their locations by using the unique ID or QR Code.



Figure 1. Completing Working Process of the product verification system

No. of Pages : 8 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/05/2023

(21) Application No.202321035335 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR IOT BASED AUTOMATIC BUS PASS CHECKING SYSTEM USING VOICE RECOGNITION

(51) International classification	:G10L 150000, G10L 150600, G10L 151870, G10L 152200, H04N 214147	(71)Name of Applicant : 1) SAGE UNIVERSITY Address of Applicant :Kailod Kartal, Rau Bypass Road, Indore - 452020, Madhya Pradesh India Indore -----
(86) International Application No Filing Date	:NA :NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number Filing Date	:NA :NA	1) Dr. Prashant Jain Address of Applicant :SAGE University, Kailod Kartal, Indore-Dewas By-Pass Road Indore-452020, Madhya Pradesh India Indore -----
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(57) Abstract :

The IoT bus pass checking system with voice recognition is an innovative and useful application of IoT technology. By integrating voice recognition technology, the system can offer an added layer of convenience and accessibility for passengers, as they can simply speak their details instead of manually entering them through a device. This can be especially beneficial for passengers who may have difficulty using a mobile device or smart card reader. Additionally, the system's ability to collect and analyse passenger data in real-time can provide valuable insights into passenger behaviour, usage patterns, and system efficiency. This can allow for more informed decision-making and continuous improvement of the system. The invention provides the advantages including- Shock proof and is Internet of things based-light in weight, less in volume; Processing of passenger entry is faster so entry queue waiting time will be lesser, accurate and free of human discretion; Transportation details are quickly updated; Voice inputs and recognition based passenger identity detection; Machine learning based so very Accurate. Voice sampled are stored in database and Pattern matching Algorithm is applied to match the voice and provide authentication. Figure 5.



Fig 1: Speech Capturing and Recognition

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/05/2023

(21) Application No.202321035427 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CAPILLARY "U" TUBE BASED LOW PRESSURE DIE CASTING SYSTEM AND METHOD THEREOF

(51) International classification :B22D 172200, B22D 180400, F25B 390200, G06T 070000, H01L 230000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention relates to method (600) and system (100) for low pressure die casting. The system includes a die assembly (102) including two die blocks (102a, 102b) clamped together to form one mould cavity (102c). One die block (102b) of the two die blocks (102a, 102b) includes a gate portion (102d). The system further includes metal based capillary tube (104). The metal based capillary tube (104) includes a first limb (104a) attached to the one mould cavity (102c) through the gate portion (102d), a second limb (104b) attached to air chamber (108), and a straight section (104c) connecting the first limb (104a) and the second limb (104b). The system (100) further includes a heater (106) enclosing the capillary tube (104). To be published with FIG. 1

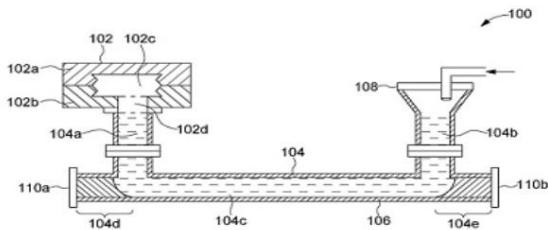


FIG. 1

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/05/2023

(21) Application No.202321035446 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : POLYHERBAL FORMULATION OF TRIANTHEMA PORTULACASTRUM AND LEONOTIS NEPETIFOLIA FOR DERMATITIS

(51) International classification	:A61K 090000, A61K 361850, A61K 362200, A61K 471000, A61P 170000	(71) Name of Applicant : 1)Dr. Dishant Gupta Address of Applicant :Professor, Swami Vivekanand College of Pharmacy, Indore, Madhya Pradesh-452020, India ----- 2)Dr. Priya Jain 3)Dr. Nadeem Ahmed Farooqui 4)Dr. Neelam Khan 5)Dr. Javed Pathan Khan 6)Dr. Mahavir Chhajed 7)Dr. Sumeet Dwivedi Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a topical formulation of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.), comprising of hydro-alcoholic extracts of Trianthema portulacastrum Linn. leaves; hydro-alcoholic extracts Leonotis nepetifolia (L.) R.Br. leaves; and pharmaceutically acceptable excipient; wherein the amount of Trianthema portulacastrum Linn. leaves extract 0.75ml and Leonotis nepetifolia (L.) R.Br. leaves extract 1.0ml. The topical formulation of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.), wherein the formulation is cream. The topical formulation of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.), wherein the pharmaceutically acceptable excipients are stearic acid, cetyl alcohol, almond oil, glycerol, methyl paraben, triethanolamine and water. The topical formulation, wherein the amount of Trianthema portulacastrum Linn. extract ranges from 0.5ml to 1.5ml, Leonotis nepetifolia (L.) extract ranges from 0.5ml to 1.5ml, amount of stearic acid ranges from 5ml to 10ml, cetyl alcohol ranges from 5ml to 10ml, almond oil 5ml, glycerol 3ml, methyl paraben 0.02ml, triethanolamine quantity sufficient and water to make 100 ml. The topical formulation has the maximum drug content 96.21%. The process for the preparation of topical formulation comprising of adding hydro-alcoholic extracts of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.) in a dish; separately adding stearic acid, cetyl alcohol, almond oil and melting it; adding hydro-alcoholic extracts of leaves of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.) R.Br with the glycerol, methyl paraben, triethanolamine and water in another porcelain dish and heating at 70°C; and adding all mixtures with continuous stirring at room temperature and storing in a suitable container. The topical formulation of hydro-alcoholic extracts of Trianthema portulacastrum Linn. and Leonotis nepetifolia (L.) is useful for the treatment dermatitis.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202321032593 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROBOTIC MONITORING DEVICE FOR A HOSPITAL ENVIRONMENT TO RECORD DOCTORS' ACTIONS AND ASSIST IN EMERGENCIES

(51) International classification	:A61B 050000, A61M 053150, B42D 15000, G06Q 100800, G16H 402000	(71)Name of Applicant :
(86) International Application No	:NA	1)Shri Shankaracharya Institute of Professional Management & Technology Raipur Address of Applicant :P.O, Old Dhamtari Road, Sejabahar, Mujgahan, Chhattisgarh 492015 -----
Filing Date	:NA	2)Mr. Nishant Tripathi 3)Ms.Riju Bhattacharya 4)Dr. RPS Sahu 5)Dr. Sapna Singh Kshatri 6)Mr. Sunil Kumar Dewangan 7)Mr. Mahendra Kumar Sahu
(87) International Publication No	:NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mr. Riju Bhattacharya 2)Dr Rudra Pratap Singh Chauhan
(62) Divisional to Application Number	:NA	Address of Applicant : "Associate Professor, Dept of CSE, Shri Shankaracharya Institute of Professional Management and Technology Old Dhamtari Road, Sejabahar, Mujgahan, Pin Code: 492015, Raipur, Chhattisgarh" -----
Filing Date	:NA	3)Dr. Sapna Singh Kshatri Address of Applicant : "Assistant Professor, Dept of AIML Shri Shankaracharya Institute of Professional Management and Technology Old Dhamtari Road, Sejabahar, Mujgahan Pin Code: 492015, Raipur, Chhattisgarh" -----
(55) International Classification	:A61B 050000, A61M 053150, B42D 15000, G06Q 100800, G16H 402000	4)Ms. Lalita Panika Address of Applicant : "Assistant Professor Bhilai Institute Of Technology Raipur Chhattisgarh, Kendri Railway Station Abhanpur Road Atal Nagar - 493661 Raipur Chhattisgarh" -----
(56) International Application No	:NA	5)Dr. Manjusree Nayak Address of Applicant : "Assistant Professor, Dept of CSE National Institute of Science and Technology(Autonomous) Department of Computer Science and Engineering, Institute Park, Pallur Hills, near to NH, Golanthara, Brahmapur, Odisha 761008" -----
Filing Date	:NA	6)Mr. Sunil Kumar Dewangan Address of Applicant : "Assistant Professor, Dept of CSE Shri Shankaracharya Institute of Professional Management and Technology Old Dhamtari Road, Sejabahar, Mujgahan Pin Code: 492015, Raipur, Chhattisgarh" -----
(57) International Publication No	:NA	7)Mr. Mahendra Kumar Sahu Address of Applicant : "Assistant Professor, Dept of IT Shri Shankaracharya Institute of Professional Management and Technology Old Dhamtari Road, Sejabahar, Mujgahan Pin Code: 492015, Raipur, Chhattisgarh" -----
Filing Date	:NA	8)Mr. Niraj Kumar Sahu Address of Applicant : "Shri Shankaracharya Institute of Professional Management and Technology Old Dhamtari Road, Sejabahar, Mujgahan Pin Code: 492015, Raipur, Chhattisgarh" -----
(58) International Classification	:A61B 050000, A61M 053150, B42D 15000, G06Q 100800, G16H 402000	9)Ms. Sandhya Bhattacharya Address of Applicant : "Assistant Professor, Dept of CS Shri Shankaracharya Institute of Professional Studies Old Dhamtari Road, Sejabahar, Mujgahan Pin Code: 492015, Raipur, Chhattisgarh" -----
(59) International Application No	:NA	10)Mr. Bhimasesh Moharam Address of Applicant : "Assistant Professor, Dept. of CSE, Lovely Professional University, Jalandhar - Delhi G.T. Road, Phagwara, Punjab (India) - 144411" -----

(57) Abstract :

This invention describes a smart Robotic Monitoring Device for a hospital environment is a highly advanced system that records doctors' actions and assists in emergencies. It consists of a robotic device designed to move around critical care areas, such as the operating room, ICU, and Emergency Ward, and equipped with sensors and cameras to capture data in real-time. The device collects data that is transmitted to a centralized data storage and processing unit, where it is processed using advanced algorithms and artificial intelligence. The processed data is used to generate reports and alerts to healthcare professionals in real-time, and new trainee interns can access the data remotely using any computing device to learn and understand the procedures in detail. Additionally, the device is capable of connecting to an online database to find an expert in case of challenging cases that doctors cannot solve. This system provides real-time data to healthcare professionals, enabling them to improve patient outcomes, and it is a valuable addition to the hospital environment.

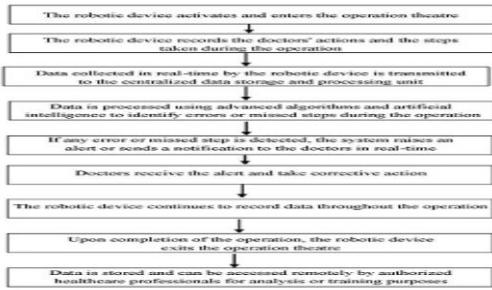


FIGURE – 1

No. of Pages : 31 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202321032594 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REAL-TIME MONITORING AND PREDICTIVE ANALYSIS DEVICE FOR EARLY WARNING OF CONSTRUCTION ISSUES AND STRUCTURAL FAILURE.

(51) International classification	:A61B 342000, G01M 050000, G01N 350200, G06F 111000, H04L 411470	(71)Name of Applicant :
(86) International Application No	:NA	1)Shri Shankaracharya Institute of Professional Management & Technology Raipur Address of Applicant :P.O, Old Dhamtari Road, Sejabahar, Mujgahan, Chhattisgarh 492015 -----
Filing Date	:NA	2)Dr. Tarun Kumar Rajak Address of Applicant :Shri Shankaracharya Institute Of Professional Management & Technology Raipur,492015 -----
(87) International Publication No	: NA	3)Mr. Nishant Tripathi 4)Suprabha Panda Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Mr. Nishant Tripathi Address of Applicant :Shri Shankaracharya Institute of Professional Management & Technology Raipur,492015 -----
(62) Divisional to Application Number	:NA	2)Dr. Tarun Kumar Rajak Address of Applicant :Shri Shankaracharya Institute Of Professional Management & Technology Raipur,492015 -----
Filing Date	:NA	3)Debabrata Debnath Address of Applicant :GE Road, Raipur, Chhattisgarh,492015 -----
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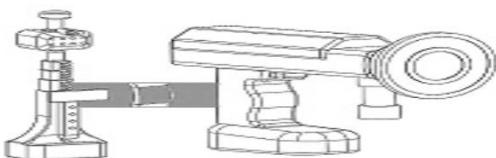


FIGURE - 2

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202321032596 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART SYSTEM FOR ENSURING PASSENGER SECURITY WITH DRIVER MONITORING AND HISTORY TRACKING.

(51) International classification	:A61P 290000, B60W 400800, F02D 413800, G06T 072000, G08B 210600	(71)Name of Applicant :
(86) International Application No	:NA	1)ShriShankaracharyaInstitute ofProfessionalManagement &Technology Address of Applicant :P.O, Old DhamtariRoad, Sejabahar,Mujgahan,Chhattisgarh492015 -----
Filing Date	:NA	2)Dr. Nirjanan Panda
(87) International Publication No	: NA	3)Mrs. Sumitra Samal
(61) Patent of Addition to Application Number	:NA	4)Mr. Somesh Kumar Dewangan
Filing Date	:NA	5)Dr J P Patra
(62) Divisional to Application Number	:NA	6)Dr Suman Kumar Swarnkar
Filing Date	:NA	7)Mr. Yogesh Kumar Rathore
		8)Dr. Pritish Arunrao Tijare
		9)Dr. Bhimsen Moharana
		10)Dr. Snehasis Dey
		11)Mr. Mammathnath Das
		12)Dr. Shrabanee Swagatika
		Name of Applicant : NA
		Address of Applicant : NA
		(72)Name of Inventor :
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		2)Dr Suman Kumar Swarnkar Address of Applicant :Shri Shankaracharya Institute of Professional Management and Technology, Raipur, Chhattisgarh,492015, India -----
		3)Mr. Yogesh Kumar Rathore Address of Applicant :Shri Shankaracharya Institute of Professional Management and Technology, Raipur, Chhattisgarh,492015, India -----
		4)Dr. Pritish Arunrao Tijare Address of Applicant :Sipna College Of Engineering And Technology, Badnera Road, Amravati, Maharashtra, India 444701 -----

		5)Dr. Bhimsen Moharana Address of Applicant :Assistant Professor, CSE, Lovely Professional University,Jalandhar,Punjab,144402, -----
		6)Dr. Snehasis Dey Address of Applicant :College Of Engg Bhubaneswar,KGI Technical Campus,Patia Bhubaneswar,751024 -----
		7)Mr. Mammathnath Das Address of Applicant :"Assistant Professor, Department of AI & DS, VNR VJET, Vignana Jyothi Nagar, Pragathi Nagar, Nizampet(S.O),Hyderabad, Telengana,500090, India." -----
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		11)Mr. Somesh Kumar Dewangan Address of Applicant :Shri Shankaracharya Technical Campus, Junwani,Chhattisgarh,49020. -----

(57) Abstract :

This invention describes a system to ensure the safety of taxi passengers by monitoring the behavior and actions of the taxi driver in real-time. The system utilizes various components, such as high-quality audio sensors/microphones, GPS module, backup battery, IR sensor, security measures, and more. The audio sensors/microphones capture the conversation between the driver and passenger, while the GPS module tracks the location of the taxi to provide estimated arrival times and real-time progress tracking. The backup battery and IR sensor ensure that the device is always active and ready to respond to any safety issues. The system also includes security measures to prevent tampering and raise an alarm in case of any anomalies or distress. Additionally, the system tracks the driver's emotions and body language and provides passengers with information about the driver's ratings and historical performance. The system is controlled centrally and can be rescheduled by the taxi company's owner to ensure passenger safety. Overall, the system provides multiple layers of security to ensure a safe and comfortable ride for passengers.

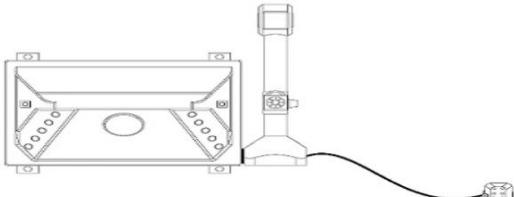


FIGURE - 1

No. of Pages : 29 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202321035012 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CYBER HOME AUTOMATION SYSTEM

(51) International classification :E06B 097200, G01N 350400, G05B 130400, G05B 150200, H04L 122800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)MUJUMDAR, Isha

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Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :Shri Ramdeobaba College of Engineering and Management, Ramdeo Tekdi, Gittikhadan, Katol Road, Nagpur-440013, Maharashtra, India Nagpur ----- -----

(57) Abstract :

Abstract Title: A cyber home automation system The present invention relates to a cyber home automation device (100) installed at home premises which aids in improving cyber hygiene and cyber security for all computing devices having a terminal (200) with an application module (400). The cyber home automation device (100) consists of a number of different cyber hygiene modules (450) which are used for management and enhancement of the user device security. A controller (110) with a relay module (120) is used to connect different smart home devise like fan, refrigerator, mirror for output of different security related features using sensors (310) and output panels (320). The output panels (320) are configured to provide audio and video output. The cyber home automation device (100) helps in providing cyber security awareness and management thereby improving the cyber hygiene practice and reducing the cyber fatigue faced by the users. Figure 1

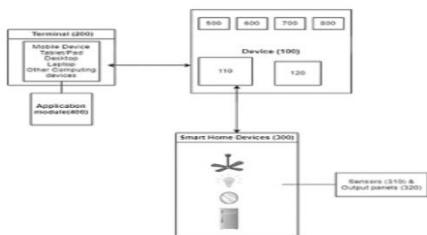


Figure 1

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035053 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HEPATOPROTECTIVE FORMULATION OF HYDRO-ALCOHOLIC EXTRACTS OF ABUTILON INDICUM AND ECLIPTA ALBA

(51) International classification	:A01N 650000, A61K 361850, A61K 362800, A61K 365300, A61P 011600	(71) Name of Applicant : 1)Dr. Mahavir Chhajed Address of Applicant :Professor and Principal, Vidyasagar College of Pharmacy, Indore, Madhya Pradesh-452016, India ----- 2)Dr. Sumeet Dwivedi 3)Mr. Umesh T. Jadhao 4)Ms. Rupali Likhar 5)Dr. Abhishek Dwivedi 6)Dr. Ishan Dubey 7)Ms. Sushma Ramlakhan Singh Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Dr. Mahavir Chhajed Address of Applicant :Professor and Principal, Vidyasagar College of Pharmacy, Indore, Madhya Pradesh-452016, India ----- 2)Dr. Sumeet Dwivedi Address of Applicant :Associate Professor, Acropolis Institute of Pharmaceutical Education & Research, Indore-453771, Madhya Pradesh, India -----
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(87) International Publication No :	NA	6)Dr. Ishan Dubey Address of Applicant :Associate Professor, Sri Aurobindo Institute of Pharmacy, Indore, Madhya Pradesh, India ----- 7)Ms. Sushma Ramlakhan Singh Address of Applicant :Assistant Professor, University Institute of Pharmacy, Oriental University, Indore, Madhya Pradesh, India -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a hepatoprotective formulation, comprising of hydro-alcoholic extract of Abutilon indicum; hydro-alcoholic extract of Eclipta alba; and pharmaceutically acceptable excipients. The amount of hydro-alcoholic extract of Abutilon indicum ranges from 25 mg to 75 mg and the amount of hydro-alcoholic extract of Eclipta alba ranges from 25 mg to 75 mg. The hepatoprotective formulation, wherein the extract is hydro-alcoholic extract of Abutilon indicum and Eclipta alba leaves. The hepatoprotective formulation, wherein the hydro-alcoholic extracts are extracted from leaves of Abutilon indicum and Eclipta alba. The hepatoprotective formulation, wherein the pharmaceutically acceptable excipients are microcrystalline cellulose, starch, crospovidone, aerosil, talc, magnesium stearate and water. The process for the preparation of hydro-alcoholic extracts of Abutilon indicum and Eclipta alba leaves, comprising of collecting separately fresh leaves from the plants of Abutilon indicum and Eclipta alba and drying in shade; powdering the dried leaves of Abutilon indicum and Eclipta alba; extracting separately the powdered plant materials using ethanol:water (90:10) by Soxhlet extractor for 48 hours; removing the solvents by evaporating and drying by rotary evaporator; and storing the extract in a desiccator for further use. The hepatoprotective formulation is in tablet form. The hepatoprotective formulation is useful to prevent damage to the liver.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035069 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WIRELESS POWER TRANSMISSION SYSTEM USING MAGNETIC RESONANCE COUPLING

(71) Name of Applicant :

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Address of Applicant :Assistant Professor, Department of Electrical Engineering, Kalinga University, New Raipur, Chhattisgarh, India. -----

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3) Dr. V. Balaprasakash

4) Dr. K. Senthil Kumar

5) Dr. Shashank Sharma

6) Anu G Pillai

7) Rahul Baghel

8) Mahesh Ahuja

9) Dr. Aloke Verma

10) Mr. Rajendra Kumar Sahu

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

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4) Dr. K. Senthil Kumar

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5) Dr. Shashank Sharma

Address of Applicant :Assistant Professor, Department of Physics, Dr. C V Raman University, Kargi Road Kota, Bilaspur, Chhattisgarh - 492113, India. -----

6) Anu G Pillai

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8) Mahesh Ahuja

Address of Applicant :Assistant Professor, Department of Electrical Engineering, Kalinga University, Raipur, Chhattisgarh, India. -----

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(51) International classification :H01F 381400, H02J 501200, H02J 504000, H02J 508000, H04B 050000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

The proposed invention presents a Wireless Power Transmission System that utilizes magnetic coupling to transfer electrical energy wirelessly. The system eliminates the need for physical connections or wires, offering enhanced convenience, mobility, and efficiency in power delivery. Key components of the system include a power source, a transmitting coil, and a receiving coil. The power source generates electrical energy, which is transmitted through the transmitting coil, creating a magnetic field. The receiving coil captures the energy from the magnetic field and converts it back into electrical power. The system is designed for short to moderate distance power transmission and incorporates optimization techniques, such as resonant coupling, to enhance efficiency. The proposed invention has various applications, including consumer electronics, automotive charging, healthcare implants, and industrial automation. It represents a significant advancement in the field of electrical engineering, paving the way for a wireless and interconnected future.

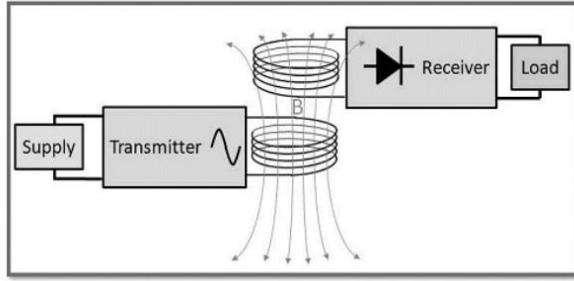


Figure 1: Functional block diagram of proposed invention

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035153 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : “SUNSCREEN ACTIVITY OF AQUEOUS, METHANOL AND ACETONE EXTRACTS OF LEAVES OF ANNONA SQUAMOSA L. (CUSTARD APPLE)”

(51) International classification	:A61K 361850, A61P 030600, A61P 130800, A61Q 170400, H01M 081011	(71)Name of Applicant : 1)Ms. Rutuja Balu Dhawade Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 2)Ms. Dnyaneshwari Vilas Kadam 3)Dr Atul Arjun Baravkar 4)Mr. Nilesh Ashokrao Nalawade 5)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, Baramati Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Ms. Rutuja Balu Dhawade Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 2)Ms. Dnyaneshwari Vilas Kadam Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 3)Dr Atul Arjun Baravkar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 4)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 -----
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to evaluate photo absorptive property and screening of sunscreen activity of different extract of leaves of Annona squamosa L. This plant contains phenols and flavonoids that have established it have excellent antioxidant activity. Annona squamosa L is rich in source of antioxidant and protect the skin from damaging effect of free radical. free radical is tiny reactive oxygen molecule that can cause damage to skin custard apple has ability to fight free radicals there by preventing the skin from becoming prone to skin-aging, acne the actogenin present in custard apple that helps to minimizing the incidence of skin cancer. All flavonoids have aromatic chromophore as indicated by UV absorption in the 250nm region of their UV spectra certain flavonoid contain carbonyl chromophore and absorb light in the 300nm. Flavonoid absorb UV radiation and may act as sunscreen. Most sunscreen contain compounds which absorb radiation in the UVB region. The activity is compared with that of well-established sunscreen drug p-aminobenzoic acid (PABA).

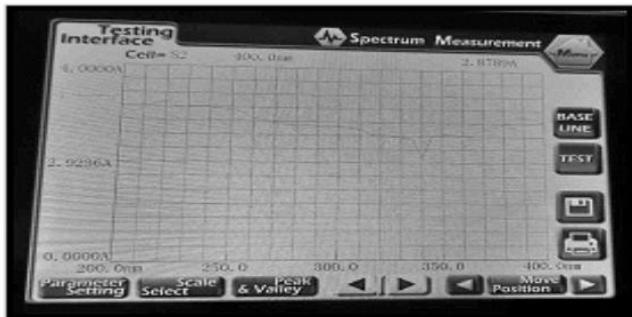


Figure 1: UV Spectrum of Aqueous Extract

No. of Pages : 26 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035162 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL SHAMPOO FOR LICE"

(51) International classification	:A01K 611300, A01N 652200, A45D 243000, A61Q 050200, A61Q 170200	(71)Name of Applicant : 1)Miss. Tanuja Tukaram Bhagat Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
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(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant :NA
Filing Date	:NA	(72)Name of Inventor : 1)Miss. Tanuja Tukaram Bhagat
(62) Divisional to Application Number	:NA	Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
Filing Date	:NA	2)Miss. Mohini Ravindra Bankar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
(57) Abstract :	The present invention relates to herbal shampoo for lice. Further invention relates to herbal shampoo comprising Pediculus humanus capitis and other pharmaceutical acceptable excipients. Yet another invention relates to process for preparation of herbal shampoo for lice. Natural herbal shampoos are appealing to the consumers as they contain natural herbs without any harmful effects. The shampoo is used to remove dirt or other debris from hairs. Natural herbs are used in an herbal shampoo, which becomes more beneficial, safe, or efficacious than synthetic ones. A liquid or cream preparation or detergent to wash the hair is called as shampoo. Head lice infection is not a primary health hazard or vector for disease, but they are a social problem with substantial costs. Diagnosis of head lice infection required the detection of living louse. Anti-helminthic are a group of anti-parasitic drugs that expel parasitic worms [helminths] and other internal parasites from the body by either stunning or killing them and without causing significant damage to the host. It reduces scalp inflammation to create an ideal environment for hair growth. The anti-helminthic property of plant and shampoo can be used for infection of hair lice. Objective of present study involve preparation of herbal shampoo using custard apple seed, camphor leaves, eucalyptus oil, perfume, glycine, sodium chloride, coloring agent, and shikakai, alcohol	

DRAWINGS Sheet No.01 of 01

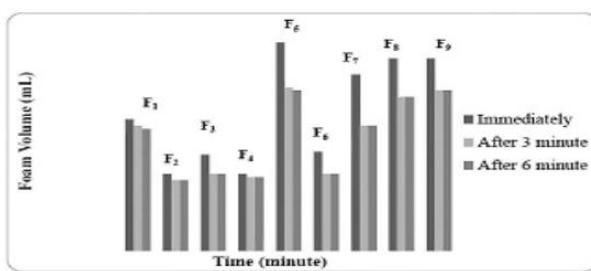


Fig. (1). Foaming capacity of formulations

No. of Pages : 20 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035163 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL SUPPOSITORY CONTAINING FLAX SEEDS AND TURMERIC FOR THE TREATMENT OF HEMORRHOIDS"

(51) International classification	:A23K 103000, A61B 170000, A61K 090200, A61K 365500, A61K 369066	(71) Name of Applicant : 1)Ms. Aakanksha Anil Zadbuke Address of Applicant :Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- 2)Ms. Priyanka Apsing Pawara 3)Ms. Rutuja Machhindra Choudhar 4)Mrs. Pallavi S.Kamble 5)Mr. Nilesh Ashokrao Nalawade 6)Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, Baramati Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Ms. Aakanksha Anil Zadbuke Address of Applicant :Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- 2)Ms. Priyanka Apsing Pawara Address of Applicant :Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- 3)Ms. Rutuja Machhindra Choudhar Address of Applicant :Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- 4)Mrs. Pallavi S.Kamble Address of Applicant :Agricultural Development Trust (ADT)'School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- 5)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 -----
(87) International Publication No :	NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates the herbal suppository comprising Flax Seeds and Turmeric for the treatment of Hemorrhoids. Further invention relates to process for preparation of herbal Suppository comprising Flax Seeds and Turmeric with other pharmaceutical acceptable excipients. The rectal route has proven its worth in terms of achieving successful drug delivery both locally and systematically. The primary goal of this invention is to develop and evaluate flax suppositories. To administer its herbal powder to internal sites, suppositories are placed directly into the rectal. A suppository comprises flax as a main active ingredient, administered through the rectal route, used as laxative, and bacterial infection of the anus. For the formulation of the present invention, the suppository preferably comprises flax in an inert base, which may comprise any suitable inert pharmaceutical carrier. The base may optically comprise the liquid or gel form or a dry extract of the juice, or any other form of flax, all of which are collectively termed "flax extract". Curcumin is a polyphenol derived from the dietary spice, turmeric. It possesses diverse therapeutic effects but it has very poor bioavailability due to poor aqueous solubility and rapid first pass metabolism in the intestinal mucosa and liver. In this work the objective is to develop dosage forms those will avoid the first pass metabolism successfully and extend the bioavailability of curcumin.

No. of Pages : 18 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035164 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL LIP BALM OF CORIANDRUM SATIVUM L LEAF"

(51) International classification :A45D 400000, A45D 400200, A61K 089200,
A61K 362300, A61Q 190000
(86) International Application No:NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
Filing Date :NA

(71)Name of Applicant :

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2)Ms. Jadhav Tejasvi Shrikant

3)Dr. Atul Arjun. Baravkar

4)Mr. Nilesh Ashokrao Nalawade

5)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, Baramati

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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4)Mr. Nilesh Ashokrao Nalawade

Address of Applicant :CEO, Agricultural Development Trust A/p Shandanagar, Tal. Baramati, Dist Pune 413115 ----- -----

(57) Abstract :

The present invention relates to herbal lip balm comprising coriandrum sativum L leaf with other pharmaceutical acceptable excipients. Nowadays people's demand for natural cosmetics is increasing day by day. Because the natural cosmetics have by people on daily basis. The lip care products are the cosmetic products. One of them is lip balm, which is used for moisturizing the lips. The lip balm is a lip care product or cosmetic product used to prevent the dry chapped lips by deeply moisturizing them. Coriander (Coriander sativum L.) leaf are used in this study for formulation of lip balm. The formulation of lip balm in which three formulae are prepared. And the evaluation parameters for the lip balm are organoleptic characters, melting point, solubility test, spreadability test, skin irritation test, stability test, PH test, homogeneity test are carried out. The formulated lip balm evaluated for the preformation properties of coriander and excipients. Coriander leaves lip balm can help you to achieve naturally pink and luscious lips. And also helps coriander lip balm reduce pigmentation of lips.

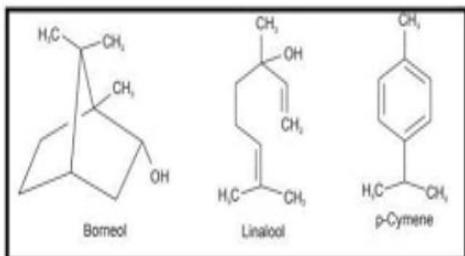


Figure No. 1 : Structure of Chemical Constituents of Coriander leaf

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035172 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL ANTIFUNGAL CREAM COMPOSITION"

(51) International classification :A23C 131200, A23L 092000, A61K 085800, A61K 088100, A61P 311000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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1)Ms. Raut Gauri

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3)Ms. Jyoti More

4)Mr. Nilesh Ashokrao Nalawade

5)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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4)Mr. Nilesh Ashokrao Nalawade

Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 -----

(57) Abstract :

The present invention relates to herbal antifungal cream composition comprising Rudraksha Fruit, Rudraksha Bark, Aloe vera oil, Coconut Oil and other pharmaceutical acceptable excipients. Further invention relates to other pharmaceutical acceptable excipients are selected from Bees Wax, Benzyl alcohol and Propylene glycol. Yet another invention relates to process for preparation antifungal cream composition. Rudraksha is the dried bead obtained from the ripe fruit of Elaeocarpus ganitrus Roxb. Elaeocarpus ganitrus (syn: Elaeocarpus sphaericus) is a large evergreen big-leaved tree is prominent for its natural electromagnetic seed frequently known as Rudraksha. It is belonging to the family Elaeocarpaceae is popular in indigenous system of medicine including Ayurveda, Siddha and Unani. Rudraksha (Elaeocarpus Ganitrus Roxb.) shows multielemental composition by virtue of which it is used to make the medicines, cosmetics, spiritual gems etc. The use of Rudraksha is increasing with passage of time and its cultivation is started in plains. According to Ayurvedic medicine Rudraksha is used in the managing of blood pressure, asthma, mental disorders, diabetes, gynecological disorders and neurological disorders. Rudraksha is considered as one of the sacred aspects of Indian lifestyle due to its religious, ethnobotanical and medicinal values. It is used as prayer beads in many religions especially Hinduism, Buddhism and Jainism. Rudraksha bead is one of the most sacred insignia of Hinduism and Indian subculture.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035178 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "ENERGY DRINK COMPOSITION AVERRHOA CARAMBOLA (STAR FRUIT)"

(51) International classification	:A01G 170000, A23L 020200, A23L 025200, A23L 026600, A61K 361850	(71) Name of Applicant : 1)Mr. Ram S. Navgankar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
(86) International Application No	:NA	2)Miss. Trupti R. Bankar 3)Miss. Manisha S. Jagtap 4)Mr. Sagar D Shinde 5)Mr. Nilesh Ashokrao Nalawade 6)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, Baramati
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor : 1)Mr. Ram S. Navgankar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, ----- -----
(61) Patent of Addition to Application Number	:NA	2)Miss. Trupti R. Bankar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
Filing Date	:NA	3)Miss. Manisha S. Jagtap Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
(62) Divisional to Application Number	:NA	4)Mr. Sagar D Shinde Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- -----
Filing Date	:NA	5)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 ----- -----

(57) Abstract :

The present invention relates to energy drink composition comprising Averrhoa carambola (Star fruit). Further invention relates to energy drink composition comprising Star fruit, Taurine, Niacinamide, sodium citrate, pyridoxine hydrochloride, methyl cobalamin and water. Another invention relates to process for preparation of energy drink composition comprising Averrhoa carambola (Star fruit). Increasing knowledge of metabolic process and the positive effects of plants on human physiology have enlarged the range of application of medicinal plants. One such fruit is Averrhoa carambola a multipurpose, drought resistant evergreen tree commonly known as "Kamarah" belonging to family Oxalidaceae is gaining lot of importance for its therapeutic potentials. It has been used for treating diabetes and diabetic nephropathy arthralgia, vomiting, lithangiuria, coughing, hangovers and chronic paroxysmal headache for thousands of years. It has widely been used in Ayurveda, preparations of its fruits & leaves are used to pacify impaired kapha, pitta, skin disease, purities, worm infestations, diarrhoea, vomiting, haemorrhoids, intermittent fever, over-perspiration & general debility. Averrhoa carambola is an edible fruit that is extensively cultivated in south China, Southeast Asia, India, Northern Southern America. It has sweet & juicy taste & is frequently used in fruit salads & fruit's platters, as a garnish in cocktail drinks & beverages. Approximately 132 compounds have been isolated from A. carambola flavonoids, benzoquinone, & their glycosides have been considered as biologically active substances which are responsible for various biological activities.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/11/2022

(21) Application No.202221064596 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NOVEL 3-PHENYLPYRAZOLO[1,5-A]PYRIMIDINE-2,7(1H,4H)-DIONES AS POTENTIAL ANTI-TUBERCULAR AGENTS AND THE PROCESS OF THEIR PREPARATION

(51) International classification	:A61P0025220000, A61P0025240000, A61P0031060000, A61P0025180000, A61P0025080000	(71)Name of Applicant : 1)PRASHANT R MURUMKAR Address of Applicant :FACULTY OF PHARMACY, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, KALABHAVAN, VADODARA-390 001, GUJARAT, INDIA. --- -----
(86) International Application No	:NA	2)MONICA CHAUHAN Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)PRASHANT R MURUMKAR Address of Applicant :FACULTY OF PHARMACY, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, KALABHAVAN, VADODARA-390 001, GUJARAT, INDIA. --- -----
(61) Patent of Addition to Application Number	:NA	2)MONICA CHAUHAN Address of Applicant :FACULTY OF PHARMACY, THE MAHARAJA SAYAJIRAO UNIVERSITY OF BARODA, KALABHAVAN, VADODARA-390 001, GUJARAT, INDIA. --- -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides novel 3-phenylpyrazolo[1,5- α]pyrimidine-2,7(IH,4H)-diones(3 -18) of Formula I and the process for the synthesis thereof. The said compounds of Formula I possess anti-tubercular activity. The compounds (3-18) are represented by Formula I: wherein X is selected from -CI, -NH-CH2-C6H5, -NH-CH2-4-C6H4-Cl, -NH-CH2-4-C6H4-F, -NH-CH2-4-C6H4-CH3, -NH-CH2-4-C6H4-OCH3, -NH-CH2-3,4-C6H3-diCl, -NH-C6H5, -NH-2-C6H4-C1, -NH-4-C6H4-F, -NH-4-C6H4-CH3, -NH-4-C6H4-OCH3, pyridin-4-ylamino, pyrrolidin-1-yl, piperazin-1-yl, 4-morpholinyl and 4-methylpiperazin-1-yl. The claimed compounds have exhibited potent anti-tubercular activity in MABA assay against BCG. These compounds (3 - 18) could serve as leads in the quest for the discovery of new anti-TB agents.

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202321034058 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : I-VISION-BASED HUMAN-ROBOT INTERACTION AND NAVIGATION SYSTEM.

(51) International classification	:A61B 342000, A61B 900000, B25J 091600, B25J 190600, G01C 213600	(71) Name of Applicant : 1)Sharad Institute of Technology College of Engineering Yadra Address of Applicant :Sharad Institute of Technology College of Engineering Yadra, Behind Omkareshwar Temple, Yadra Ichalkaranji, Tal. Shirol, Dist. Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 2)Dr Govind Singh Patel 3)Mr. Ashish A. Desai 4)Mr. Yogesh Y. Kamble 5)Mr. Ganesh V. Pujari 6)Dr. K. S. N. Satish Idury Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Dr Govind Singh Patel Address of Applicant :Department of Automation & Robotics Engineering, Sharad Institute of Technology College of Engineering, Yadra Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 2)Mr. Ashish A. Desai Address of Applicant :Department of Automation & Robotics Engineering, Sharad Institute of Technology College of Engineering, Yadra Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 3)Mr. Yogesh Y. Kamble Address of Applicant :Department of Automation & Robotics Engineering, Sharad Institute of Technology College of Engineering, Yadra Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 4)Mr. Ganesh V. Pujari Address of Applicant :Department of Automation & Robotics Engineering, Sharad Institute of Technology College of Engineering, Yadra Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 5)Dr. K. S. N. Satish Idury Address of Applicant :Department of Automation & Robotics Engineering, Sharad Institute of Technology College of Engineering, Yadra Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “I-Vision-based human-robot interaction and navigation System” is related to a this invention, a clever seeing and arranging framework in light of profound learning is proposed for a cooperative robot comprising of a 7-DoF (7-level-of-opportunity) controller, a three-finger robot hand, and a dream framework, known as IPPS (smart seeing and arranging framework). The absence of insight has been restricting the utilization of cooperative robots for quite a while. A framework to understand “eye-mind hand” process is urgent for the genuine knowledge of robots. In this exploration, a more steady and exact seeing cycle was proposed. A very much planned camera framework as the vision framework and another hand following technique were proposed for activity seeing and recording set foundation to work on the relevance. A visual cycle was intended to work on the precision of climate seeing. Plus, a quicker and more exact arranging process was proposed. Profound learning in view of another CNN (convolution brain organization) was intended to acknowledge savvy getting a handle on making arrangements for robot hand. Another direction arranging technique for the controller was proposed to further develop productivity. The exhibition of the IPPS was tried with reproductions and trials in a genuine climate. The outcomes demonstrate the way that IPPS could actually acknowledge clever seeing and anticipating the robot, which could understand higher knowledge and incredible relevance for cooperative robots.

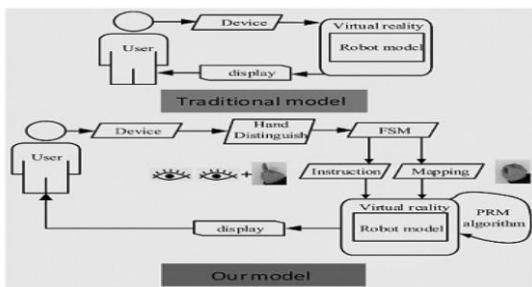


Fig.3: I-Vision-based human-robot interaction and navigation System Flow.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202321034059 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CURSOR MOVEMENT ON OBJECT MOTION USING AI.

(51) International classification	:G01S 135600, G02B 270900, G06F 030338, G06F 030380, H04N 191700	(71)Name of Applicant : 1)Sharad Institute of Technology College of Engineering Yadrap Address of Applicant :Sharad Institute of Technology College of Engineering Yadrap, Behind Omkareshwar Temple, Yadrap Ichalkaranji, Tal. Shirol, Dist. Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 2)Mrs Varsha Jujare 3)Mrs Aparna Kamate 4)Mrs Amruta Chougule 5)Mrs Komal Patil 6)Mrs Prachi Lengade Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Mrs Varsha Jujare Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 2)Mrs Aparna Kamate Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 3)Mrs Amruta Chougule Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 4)Mrs Komal Patil Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 5)Mrs Prachi Lengade Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Cursor movement on object motion using AI” is a Here we proposed a framework where cursor travel through work area and activity will happen in light of hand motion. Framework will apply hand motion in view of RGB tone. Framework will distinguish RGB variety object which will go about as cursor. We had imported java awt in this application. This library is imported to work with mouse. Webcam is utilized in this framework to follow the development of the red, green and blue item. In light of the development of item framework will fire an occasion. Framework will get work area screen size. Framework will gain single casing from video. Framework will flip the casing for ease of use. Framework will change over the picture into twofold picture with the red, blue, or green objects as white. Framework will add bouncing box around the article which is moved by the client around the showcase. Jumping box centroid is determined. Framework will distinguish mouse point schedule. A gadget and technique for cursor movement control, alignment of the movement control, and item choice and PC order input.

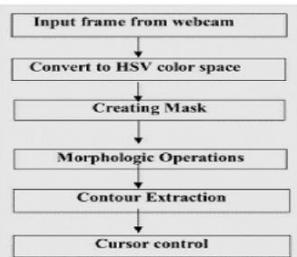


Fig.1: Cursor movement on object motion using AI Flow.

No. of Pages : 11 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035182 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL HAIR OIL FOR HAIR FALL TREATMENT"

(51) International classification	:A61K 083700, A61K 089200, A61Q 050000, A61Q 051200, G08B 210400	(71) Name of Applicant : 1)Ms. Namrata Ravindra Durunde Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
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Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Ms. Namrata Ravindra Durunde Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
Filing Date	:NA	2)Ms. Jyoti More Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
(62) Divisional to Application Number	:NA	3)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 -----
Filing Date	:NA	

(57) Abstract :

The present invention relates to a novel process for preparation of herbal hair oil composition. Further invention relates to composition comprising exotic and effective ayurvedic herbs like Amla, Bramhi, Tridex Procumbens, Shikakai, Neem, Hibiscus, Fenugreek in combination with coconut oil and almond oil as base oils and aroma for fragrance, which helps in healthy growth of hair, hair loss and for treatment of damaged hair.

No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035184 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL GEL FROM PIPER BETLE LEAF EXTRACT FOR THE TREATMENT OF RHEUMATOID ARTHRITIS"

(51) International classification :A61K 089789, A61K 091600, A61K 366700, A61P 190200, A61P 290000

(86) International Application No:NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA

(62) Divisional to Application :NA
Number :NA
Filing Date

(71) Name of Applicant :

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2)Mrs. Jyoti Sadashiv More

3)Dr. Atul Arjun Baravker

4)Mr. Sagar D. Shinde

5)Mr. Sachin Sanjay Pingale

6)Mr. Nilesh Ashokrao Nalawade

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Name of Applicant : NA

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(72) Name of Inventor :

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6)Mr. Nilesh Ashokrao Nalawade

Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 ----- -----

(57) Abstract :

The present invention relates to herbal gel comprising piper betle leaf extract and other pharmaceutical acceptable excipients. Further invention relates to process for preparation of herbal gel comprising piper betle leaf extract. Another invention relates to herbal gel is useful in treatment of rheumatoid arthritis. Many of the health benefits bonded with Piper betel (locally known as Paan) belongs to the Piperaceae or pepper family. It has been an important herb distributed throughout of world. Betle leaves are the most valued part of the plant, in the past were routinely used as a chewing agent to restrict offensive breath and they contain tannins, chavicol, phenyl, propane, sesquiterpene, cyneole, alkaloid, sugar and some essential oil and found various medicinal value, digestive, appetizer, aromatic, expectorant, stimulant, antibacterial, euphoria-inducing, antiprotozoan, carminative, anti-fungal and aphrodisiac etc. The aim of the present invention is to prepare, formulate and evaluate the topical herbal gel formulation of Piper betle Linn may be used in treatment of rheumatoid arthritis.

No. of Pages : 24 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035203 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AERODYNAMICALLY OPTIMIZED HYDRO POWER AXIAL TURBINE CASCADE FOR LOW VELOCITY WATER FLOW

(51) International classification	:C03B 052350, E02B 080600, F01D 090200, F03B 130000, F03B 170600	(71)Name of Applicant :
(86) International Application No	:NA	1)Dr. Rohit Pandey Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Amity University Madhya Pradesh, Maharajpura Dang, Gwalior, Madhya Pradesh, 474005, India. -----
Filing Date	:NA	2)Dr. J. Sadhik Basha 3)Mr Harish M
(87) International Publication No	: NA	4)Dr. Akash Doorma 5)Dr. M. Raja Gopal
(61) Patent of Addition to Application Number	:NA	6)Mr. Manas Ranjan Padhi 7)Dr. Vinayaka N
Filing Date	:NA	8)Prof. Amrutha Jagdish Killol 9)Dr Rajesh M
(62) Divisional to Application Number	:NA	10)Dr. M. Srinivasnaik
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
		(72)Name of Inventor :
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		8)Prof. Amrutha Jagdish Killol Address of Applicant :Assistant professor Department of Civil engineering Ajeenkya D.Y.Patil School of Engineering, Lohgaon, Pune, Maharashtra 412105 -----
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(57) Abstract :

AERODYNAMICALLY OPTIMIZED HYDRO POWER AXIAL TURBINE CASCADE FOR LOW VELOCITY WATER FLOW Designing an aerodynamically optimized axial turbine cascade for low-velocity water flow involves considering several factors to maximize efficiency and power output. Below are some key considerations and steps to follow in the design process: Flow analysis: Start by understanding the characteristics of the low-velocity water flow, including its average velocity, turbulence levels, and direction. Analyze the flow profile to identify any potential obstacles, such as rocks or debris, which may affect turbine operation. Blade profile selection: Choose an appropriate blade profile that suits low-velocity flows. NACA (National Advisory Committee for Aeronautics) airfoils or custom hydrofoil profiles can be considered. These profiles should offer good lift-to-drag characteristics at low flow velocities. Blade geometry: Optimize the blade geometry to ensure efficient energy extraction. Consider parameters such as blade angle, chord length, camber, and twist distribution along the span. Use computational fluid dynamics (CFD) simulations to assess the flow behavior and pressure distribution across the blade surface. Cascade arrangement: Determine the optimal arrangement of turbine blades in the cascade. Factors to consider include blade spacing, stagger angle, and axial chord length. These parameters influence the flow behavior, pressure recovery, and energy extraction efficiency. CFD simulations can help evaluate different cascade configurations. Tip clearance management: Minimize tip clearance between the blade tips and the turbine casing. Smaller tip clearances reduce leakage losses and enhance turbine performance. However, ensure adequate clearance to avoid blade-tip rubbing during operation. Flow control mechanisms: Consider employing flow control mechanisms to enhance performance in low-velocity flows. For example, vortex generators or flow spoilers can be strategically placed to energize the flow, improve boundary layer behavior, and minimize flow separation. Material selection: Choose appropriate materials for the turbine blades that offer high strength, corrosion resistance, and durability in water environments. Consider factors such as erosion and cavitation resistance as well. Testing and optimization: Fabricate a prototype of the turbine cascade and conduct experimental tests in controlled conditions. Measure power output, efficiency, and other relevant parameters to validate the design. Iterate the design based on test results to optimize performance. Remember that the design process for an aerodynamically optimized hydro power axial turbine cascade is complex and may require expertise in fluid dynamics, hydrodynamics, and turbine design. Computational tools like CFD simulations and physical testing are valuable resources to assess and refine the design for low-velocity water flows.

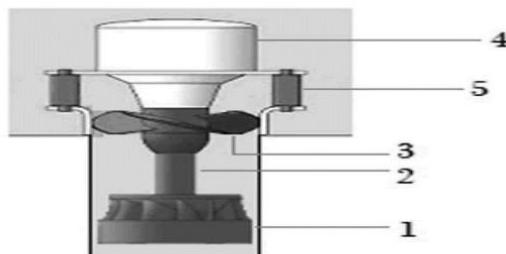


FIG. 1.

No. of Pages : 11 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035280 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CLARIFICATION OF FETAL HEALTH IN WOMB USING CARDIOTOTOGRAM DATA AND MACHINE LEARNING APPROACH

(51) International classification	:G06N 030400, G06N 030800, G06N 050000, G06N 200000, G10L 152200	(71)Name of Applicant : 1)Dr. Prajakta S Ratnaparkhi Address of Applicant :Assistant Professor, Computer Science and Applications, City Premier College, Nagpur, Maharashtra – 440018 Nagpur ----- 2)Mr. J. Logeshwaran 3)Ms. Aayushi Arya 4)Dr. T. Gopalakrishnan 5)Dr. N. Sivakumar 6)Dr. Sheeba Praveen 7)Dr. Somnath Das 8)Mr. V. Yuvaraj 9)Amit Das 10)Dr. Mukteswar Patra 11)Mrs. Mary Jasmine E 12)Mrs. Swetha C.B 13)Dr. V. Kannan
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Prajakta S Ratnaparkhi Address of Applicant :Assistant Professor, Computer Science and Applications, City Premier College, Nagpur, Maharashtra – 440018 Nagpur ----- 2)Mr. J. Logeshwaran Address of Applicant :Research Scholar, Department of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore ----- 3)Ms. Aayushi Arya Address of Applicant :Student, BAMS, S. R. V. A. Medical College and Hospital, Yamuna Vihar, Chinhat, Lucknow, Uttar Pradesh - 226028 Lucknow ----- 4)Dr. T. Gopalakrishnan Address of Applicant :Associate Professor, Department of Information Technology, Manipal Institute of Technology Bengaluru, Manipal Academy of Higher Education, Manipal, Bengaluru, Karnataka – 560064, India Bengaluru ----- 5)Dr. N. Sivakumar Address of Applicant :Assistant professor, School of Computer Science and Information Technology, Jain University, Bangalore - 560069, Karnataka Bangalore ----- 6)Dr. Sheeba Praveen Address of Applicant :Associate Professor, Computer Science and Engineering, Integral University, Lucknow, Uttar Pradesh - 226026 Lucknow ----- 7)Dr. Somnath Das Address of Applicant :Associate Professor and TIC, Mechanical Engineering, Swami Vivekananda Institute of Science and Technology, Kolkata, West Bengal - 700145 Kolkata ----- 8)Mr. V. Yuvaraj Address of Applicant :Assistant Professor, Computer Applications, Dr.N.G.P. Arts and Science College, Coimbatore, Tamil Nadu - 641048 Coimbatore ----- 9)Amit Das Address of Applicant :Assistant Professor, Computer Science Engineering, The Icfai University, Dehradun, Uttarakhand - 248011 Dehradun ----- 10)Dr. Mukteswar Patra Address of Applicant :Principal IT Architect, Information Technology, College of Engineering and Technology, Bhubaneswar, Odisha Bhubaneswar ----- 11)Mrs. Mary Jasmine E Address of Applicant :Assistant Professor, Computer Science and Engineering (AI & ML), Dayananda Sagar University, Bangalore, Karnataka - 560068 Bangalore ----- 12)Mrs. Swetha C.B Address of Applicant :Assistant Professor, Computer Science and Engineering (AI & ML), Dayananda Sagar University, Bangalore, Karnataka - 560068 Bangalore ----- 13)Dr. V. Kannan Address of Applicant :Managing Director, Cldc Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S. Puram, Coimbatore - 641002, Tamil Nadu, India Coimbatore -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The purpose of this abstract is to describe a machine learning approach used to clarify fetal health in the womb using cardiotocogram (CTG) data. The approach uses a combination of deep learning techniques such as convolutional neural networks (CNNs) and recurrent neural networks (RNNs) to analyze CTG data and make accurate predictions about the health status of the fetus. The model has been tested on a large dataset of CTG recordings and has demonstrated a high accuracy rate in distinguishing between healthy and unhealthy fetuses. It is hoped that this approach will be able to improve the accuracy and consistency of fetal health assessments and lead to better outcomes for pregnant women and their babies.

No. of Pages : 10 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035284 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPUTER ADDED MOLECULAR DESIGNING (CAMD)AND RADICAL REACTION SIMULATION OF ANTIOXIDANT BEHAVIOUR OF SELIGILINE DERIVATIVE

(51) International classification	:B01J 203200, C08F 51000, C08G 187300, G06F 301500, H01B 034400	(71)Name of Applicant :
(86) International Application No	:NA	1)Mr. Narwate Balaji Malhari
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(87) International Publication No	: NA	2)Dr. Kritika Suresh Garg
(61) Patent of Addition to Application Number	:NA	3)Dr. Shagufta Khan
Filing Date	:NA	4)Dr. Pankaj Mohan Pimpalshende
(62) Divisional to Application Number	:NA	5)Mr. Amol Sambhaji Balsane
Filing Date	:NA	6)Mr. Kundavaram Raju
		7)Mr. Sagar Sopanrao Muley
		8)Dr. Sameer H. Lakade
		9)Mrs. Mrinali Anup Kale
		10)Dr. Santosh R. Jain
		11)Ms. Nikita Kishor Kale
		12)Dr. Prachi P. Udapurkar
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(57) Abstract :

COMPUTER ADDED MOLECULAR DESIGNING (CAMD)AND RADICAL REACTION SIMULATION OF ANTIOXIDANT BEHAVIOUR OF SELIGILINE DERIVATIVE A method for improved temperature control for controlling radical polymerization processes.: The method results in controlling the concentration of radicals in a RAFT polymerization process by feeding a reducing agent or radical precursor continuously or intermittently to a reaction medium through one of more ports. Liquid crystal composition containing polymerizable liquid crystal compound with reverse wavelength dispersion and o liquid crystal compound includes, a main chain mesogenic and side chain mesogenic, optical axis of the main chain mesogenic and optical axis of the side chain mesogenic in different directions when compound is uniformly oriented, reversing wavelength dispersion property of birefringence when liquid crystal compound, the satisfies Expression the satisfies is a refractive index of liquid crystal compound in slow-axis-direction, no is a refractive index of liquid crystal compound in fast-axis-direction, neo and Noa are refractive indices and direction when dispersed in liquid crystal compound are refractive indices of in and no direction when dispersed in liquid crystal compound.

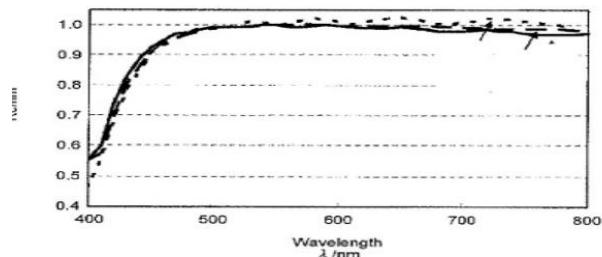


FIG.1.

No. of Pages : 15 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202321035287 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "POLYHERBAL HAIR GEL IN MANAGEMENT OF DANDRUFF AND ITCHY SCALP"

(51) International classification	:A61P 170400, A61P 270200, A61Q 050000, A61Q 050200, A61Q 050600	(71)Name of Applicant : 1)Ms. Dhaigude Poonam Bhauso Address of Applicant :Agricultural Development Trust (ADT') School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra India ----- -----
(86) International Application No	:NA	-
Filing Date	:NA	2)Ms. Thorat Shital Bhaskar
(87) International Publication No	: NA	3)Ms. Madane Rashmi Digambar
(61) Patent of Addition to Application Number	:NA	4)Mrs. Pallavi S.Kamble
Filing Date	:NA	5)Mr. Nilesh Ashokrao Nalawade
(62) Divisional to Application Number	:NA	6)Agricultural Development Trust (ADT') School of Pharmacy and Research Centre, Baramati
Filing Date	:NA	Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :

Hair enhances the personality and entire look of the person. It makes you look like a professional. The reasons of hair problem are tension, scalp infection, hormones disturbance, lower vitamin, food, mineral and large chemical shampoo use. Cleanliness of hair and scalp are among the most important personal life consideration today. Dandruff is a skin condition with symptoms includes flaking and sometimes mild itchiness cause to the scalp. Many bacteria, fungi causes scalp infections which lead to further hair problems or skin issue. One of the common conditions is candidiasis which is typically caused on the skin or mucus membrane caused by candida. Antifungal and Anti-inflammatory effects of guava are due to tannins polyphenolic compounds & flavonoid. Guava is rich in antioxidants. Guava leaves have high antibacterial activity in extracts that can inhibit the growth of *S. aureus*. Antioxidants help increase blood circulation thus helping hair growth as well as treating infections. Amla contains oodles of essential fatty acids that penetrate into the follicles, making the hair softer, shinier and voluminous. Neem leaves contains cyclictri sulphide and cyclic tetrasulphide which have antifungal properties. Aloe Vera contains inner gel which controls greasy hair, promotes hair growth, strengthens hair and protects from UV damage. A polyherbal hair gel is effective in alopecia and dandruff causing bacteria; Candida which results in candidiasis.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035291 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "UREA FERTILIZER COATED WITH BIODEGRADABLE POLYMERSTARCH, DIATOMITE AND NEEM OIL FOR SLOW RELEASE AND WATER RETENTION"

(51) International classification	:A01N 652600, C05C 090000, C05G 030000, C05G 039000, C05G 053000	(71) Name of Applicant : 1)Mr. Utkarsh Pramod Jadhav Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 2)Mr. Onkar Lahu Davane 3)Mr. Ketan Hiralal Shende 4)Dr. Atul Arjun Baravkar 5)Mr. Nilesh Ashokrao Nalawade 6)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre
(86) International Application No	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to	:NA	1)Mr. Utkarsh Pramod Jadhav Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
Application Number	:NA	2)Mr. Onkar Lahu Davane Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
Filing Date	:NA	3)Mr. Ketan Hiralal Shende Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
(62) Divisional to Application	:NA	4)Dr. Atul Arjun Baravkar Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At and Post – Shardanagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India -----
Number	:NA	5)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardanagar, Tal. Baramati, Dist Pune 413115 -----
Filing Date	:NA	

(57) Abstract :

Slow-release fertilizers (SRFs) are of vital importance to improve agricultural efficiency. However, their use is still limited due to their relatively high costs. Additionally, most of coating materials used to produce SRFs are nonbiodegradable and toxic to the soil. In this context, we utilized starch as biopolymer together with diatomite and neem oil to coat urea fertilizer granules. In this study, SRF granules are prepared in the presence of epichlorohydrin as crosslinker. Neem oil is applied as the outermost layer to improve the nitrogen slow-release efficiency of SRFs. This suggested that this biopolymeric coat could effectively improve the utilization of fertilizer. Furthermore, being biodegradable and low cost could be beneficial in agricultural and horticultural applications

PREPARATION OF STARCH SRF GRANULES:

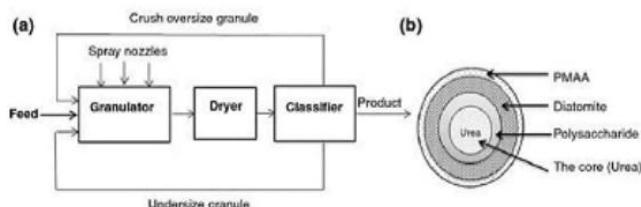


Fig. 2: Schematic diagram of granulation process (a) and the cross section schematic view of the prepared urea-coated fertilizer granule (b)

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035298 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SOIL CONDITION SENSING USING PICO HYDROELECTRIC GENERATION

(71) Name of Applicant :

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8)Girish Desai

9)Nandkumar Shelar

10)Satish More

11)Sagar Joshi

12)Nitin Dhaves

13)Saurabh Saoji

14)Shekhar Rahane

15)Shankar Uagle

16)Harshal Chaudhary

17)Shejal D Katkar

18)Kuntal Rane

19)Dev Garg

20)Pritam Ahire

21)Aryan Yadav

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Maharashtra – 411033 -----

(57) Abstract :

The purpose of this invention viz., ‘Soil Condition Sensing using Pico hydroelectric generation’ is to sense the condition of soil and log the respective data to an internet connected platform; this being done without actually taking supply from mains connection, but through a Pico hydroelectric turbine placed over cross section of irrigation pipe. The major goal is to sense the condition of soil and create data corresponding to the land without using any metered electric connection. This data then further can be used for keeping a record of the land’s agricultural quality, for understanding the current condition of the soil profile, and for forecasting the soil conditions. This system especially ensures that the user is fed with enough real time information about the soil quality, so the crucial steps taken by a farmer in the cycle of cultivation are correct.

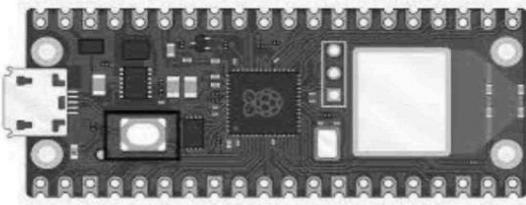


Figure - 1

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035304 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "HERBAL OINTMENT COMPOSITION OF FICUS RACEMOSA LEAVES"

(51) International classification :A61K 090000, A61K 090600, A61K 361100, A61K 366000, G01N 335740	(71)Name of Applicant : 1)Ms. Dipali A. Narawde Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 2)Ms. Rutuja S. Kale 3)Ms. Roshani S. Pondkule 4)Ms. Rutuja S. Dhaigude 5)Mrs. Apeksha Vitthal Masal 6)Mr. Nilesh Ashokrao Nalawade 7)Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, Baramati Name of Applicant : NA Address of Applicant : NA
(86) International Application No:NA Filing Date :NA	(72)Name of Inventor : 1)Ms. Dipali A. Narawde Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 2)Ms. Rutuja S. Kale Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 3)Ms. Roshani S. Pondkule Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 4)Ms. Rutuja S. Dhaigude Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 5)Mrs. Apeksha Vitthal Masal Address of Applicant :Agricultural Development Trust (ADT) School of Pharmacy and Research Centre, At AND Post – Shardenagar, Malegaon Colony, Tal – Baramati, Dist- Pune, Maharashtra, India ----- 6)Mr. Nilesh Ashokrao Nalawade Address of Applicant :CEO, Agricultural Development Trust A/p Shardenagar, Tal. Baramati, Dist Pune 413115 -----
(87) International Publication No : NA	
(61) Patent of Addition to Application Number :NA Application Number :NA Filing Date :NA	
(62) Divisional to Application Number :NA Filing Date :NA	

(57) Abstract :

Plant derived substances and herbal medicines have recently attracted the great interest towards their versatile application, as medicinal plants are the richest source of bioactive compounds used in traditional and modern medicine. Herbal medicines are prepared by using various parts of plant like flower, leaves, seeds, root, etc. Instead off an herbal drug is design as the alternative formulation for the external use in the form of ointment. The main objective of the present work is to be evaluate and formulation of wound healing ointment of Ficus racemosa leaves to give multipurpose effect. The ethanolic extract contains Phyto constituents such as alkaloids, tannins, flavonoids, triterpenoids. An ointment is a viscous Semisolid preparation used topically on a variety of body surfaces. The ointment base was prepared and formulation of ointment was done by incorporating the active ingredients in the base by trituration method. Analysis of physiochemical properties of herbal ointment was done by using some standard procedure. Parameters tested were irritancy, spread ability, stability, washability, pH, viscosity and diffusion. Herbal ointment shows anti-oxidant, antimicrobial, wound healing, anti-inflammatory, antibacterial activity. The DSC and FTIR studies demonstrated that there was no interaction between drug and excipients and we have proved that antibacterial activity of ointment.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035314 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A STUDY OF THE EFFECTS OF SODIUM CARBONATE AND BICARBONATE CONTAMINATION ON THE RHEOLOGICAL PROPERTIES OF WATER-BASE MUDS

(51) International classification	:A61K 088700, B01D 537800, C09K 082400, C11D 031000, G01N 111400	(71) Name of Applicant : 1)Dr. Navnath Vishwanath Khadake Address of Applicant :Prof. & Head, Civil Engineering Department, JSPM's Imperial College of Engineering & Research, Wagholi, Pune, Maharashtra, India, 412207 ----- 2)Dr. Ashtashil Vrushketu Bhambulkar Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Navnath Vishwanath Khadake Address of Applicant :Prof. & Head, Civil Engineering Department, JSPM's Imperial College of Engineering & Research, Wagholi, Pune, Maharashtra, India, 412207 ----- 2)Dr. Ashtashil Vrushketu Bhambulkar Address of Applicant :Assistant Professor, Civil Department, JSPMs Imperial College of Engineering & Research, Wagholi, Pune, Maharashtra, India, 412207 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Stability of drilling fluid property is very crucial for smooth and less troublesome drilling because contamination of drilling fluid during drilling operations is usually unavoidable. This work presents an investigation of the effects of various contaminants on laboratory prepared water based drilling mud at ambient conditions. Three mud samples each has a different concentrations of Sodium Carbonate (Na_2CO_3) and Sodium Bicarbonate (NaHCO_3) contaminants were mixed with Water Based Mud (WBM) fluid and formulated to investigate their effect on drilling fluid rheological properties. The measured properties were pH, fluid loss, mud thickness, plastic viscosity and yield point. The results indicate that the mud thickness increased with the increase of different cement contaminations. Mud pH increased as sodium carbonate concentration increased but decreased as bicarbonate concentration increased. Plastic viscosity decreased with the increase of concentrations of both cement contamination and the treating agent while yield point increased with the increase of cement contamination concentration. Furthermore, fluid loss was found to proportionally increase with the increase of contaminants concentration. Most of the results obtained from this work are consistent with previously published results; however, the developed mud rheological properties should be further studied at elevated temperature and pressure conditions encountered while drilling an oil or gas well. Accompanied Drawing [FIG. 1] [FIG. 2] [FIG. 3] [FIG. 4] [FIG. 5] [FIG. 6] [FIG. 7] [FIG. 8] [FIG. 9] [FIG. 10] [FIG. 11] [FIG. 12] [FIG. 13] [FIG. 14] [FIG. 15] [FIG. 16]



Figure 1: The Sensitive Electronic Weighing Scale

No. of Pages : 28 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/05/2023

(21) Application No.202321035325 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROBUST CYBER-ATTACKS DETECTION LEVERAGING TRANSFER LEARNING

(51) International classification	:G06N 030400, G06N 030800, G06N 200000, G06Q 100200, G06T 077300
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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2)Dr. Sunil A. Patekar

Name of Applicant : NA

Address of Applicant : NA

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(57) Abstract :

In today's digital age, it is paramount to establish and maintain robust cyber security measures to protect sensitive information, including personally identifiable information, protected health information, personal information, and intellectual property. These measures are essential to prevent unauthorized access, theft, and damage from malicious entities and cyber criminals. There are many different types of cyber-attacks, some of which include malware, phishing attacks, Denial of service, Man in the middle attack, viruses, .worms, spyware, .adware, .trojans, and other similar threats. Due to exponential growth in malware attacks, industry and governments are heavily affected. Malware analysis and detection has become the hot topic for research. Malware refers to any software that behaves in a manner that is potentially harmful. The detection and analysis of malware typically involves the use of static and dynamic strategies, but these methods can be both time-consuming and inefficient when it comes to identifying threats in real-time. Advanced strategies like machine learning, deep learning, and transfer learning are used to determine whether any executable file is malware that gives better accuracy and performance. All these strategies use Portable Executable (PE) file header for malware analysis and detection. Transfer learning can help models to generalize better to new and unseen malware samples by leveraging the knowledge learned from related tasks. This can help to improve the robustness and reliability of the model.

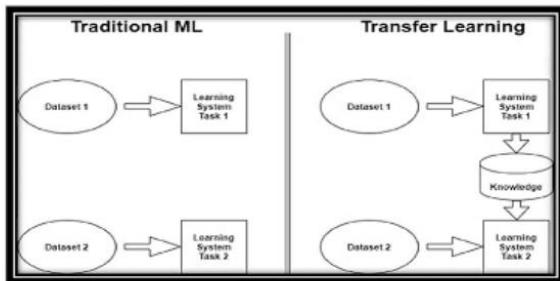


Figure 1: Traditional Machine Learning vs Transfer Learning

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202321034060 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FIRE DETECTION AND NOTIFICATION THROUGH ALARM USING IOT.

(51) International classification :G08B 170000, G08B 250000, G08B 251000, H04W 720400, H04W 720800
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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3)Kaustubha H. Shedbalkar

4)Vishal S. Wadkar

5)Gundhar A. Chougule

6)Chandrashekhar S. Patil

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Address of Applicant : NA

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(57) Abstract :

ABSTRACT [500] Our Invention “Fire Detection and Notification through Alarm using IoT” is a beyond couple of years, alarm frameworks have become progressively complex and more competent and solid. The two primary goals are the security of life and property. Because of state and nearby codes, fire security has become more worried about existence wellbeing throughout the course of recent many years. A few security measures have been executed to resolve the issues brought about by the flames and diminish the quantity of fatalities and property harm. Our undertaking is to create and survey an alarm route framework and application that utilizes the web of things. Alarm frameworks are intended to caution individuals about flames ahead of time so they can clear the fire-impacted region and make a quick move to control the fire. There will be a GPS module, a fire sensor, a smoke sensor, ringers, LEDs, and a GSM module to guarantee early warning to specialists and fire stations. The point is to lessen the deficiency of lives and property. A poll was intended to lead a short review in a global games creation organization in Sialkot, Pakistan, in regards to the IoT alarm route framework. Other than introducing the framework in the production line, we contrast the outcomes and fire episode reaction time with and without this framework at salvage 1125 fire head station.

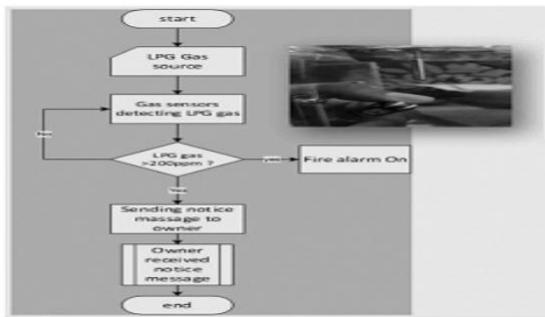


Fig.1: Fire Detection and Notification through Alarm using IoT Flow Chart.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202321034063 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FACE DETECTION AND NOTIFICATION USING MACHINE LEARNING.

(51) International classification	:G06N 030400, G06N 030800, G06N 200000, G10L 152600, H04W 720800	(71)Name of Applicant : 1)Sharad Institute of Technology College of Engineering Yadrap Address of Applicant :Sharad Institute of Technology College of Engineering Yadrap, Behind Omkareshwar Temple, Yadrap Ichalkaranji, Tal. Shirol, Dist. Kolhapur, Maharashtra, 416121, India. Kolhapur ----- 2)Dr Shashidhar Gurav 3)Mr Prashant B Patil 4)Mrs Pooja Shindhe 5)Mrs Pallavi Patil 6)Mrs Karishma Tamboli Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr Shashidhar Gurav Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
Filing Date	:NA	2)Mr Prashant B Patil Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
(87) International Publication No	: NA	3)Mrs Pooja Shindhe Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
(61) Patent of Addition to Application Number	: NA	4)Mrs Pallavi Patil Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
Filing Date	:NA	5)Mrs Karishma Tamboli Address of Applicant :Department of Computer Science and Engineering, Sharad Institute of Technology College of Engineering, Yadrap, Ichalkaranji, Kolhapur, Maharashtra, 416121, India. Kolhapur -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Face detection and Notification using Machine Learning” is a of now, facial acknowledgment innovation is an extremely state of the art science and innovation, and it has now turned into an exceptionally hot examination branch. In this examination, first, the proposition previously summed up the exploration status of facial acknowledgment innovation and related advancements in view of visual correspondence and afterward utilized the OpenCV open source vision library in light of the plan of the framework engineering and the introduced framework equipment conditions. The face identification program and the picture matching project are understood, and the total face acknowledgment framework in light of OpenCV is understood. The exploratory outcomes show that the equipment framework worked by the product can understand the picture catch and online acknowledgment. The applied items are analyzers. As a rule, the OpenCV-based face acknowledgment framework for analyzers can dependably, steadily, and immediately acknowledge face identification and acknowledgment in this present circumstance. Facial acknowledgment functions admirably.

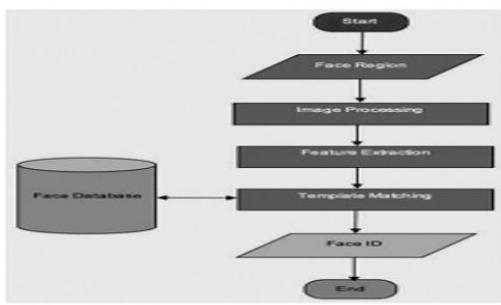


Fig. 2: Face detection and Notification using Machine Learning Flow Chart.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202321034206 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "A PROCESS FOR SYNTHESIS OF NOVEL ANTICANCER AGENTS"

(51) International classification :A61K 450600, A61P 350000, B01J 312400, C07D 154200, C07D 332000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Apartment, Rukhmini Estate Karad, Satara, Maharashtra, 415110 -

(57) Abstract :

The present invention relates to a Novel Anticancer Agents of compound of formula (1) and compound formula (2) and preparation thereof.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/05/2023

(21) Application No.202321034207 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : "MILK ADULTERATION DEVICE"

<p>(51) International classification :B65D 511800, C12Q 016888, E02B 050800, G01N 300200, G01N 330400</p> <p>(86) International Application No:NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)Shri Vithal Education & Research Institute's College of Pharmacy, Pandharpur Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304. ----- 2)Dr. Mithun Gopikishan Maniyar 3)Dr. Babruvahan Pandurang Ronge 4)Dr. Vrunal Vishwasrao More 5)Mr. Digvijay Dadasaheb Ronge 6)Dr. Prajakta Kailas Khule 7)Mr .Pradip Avinash Jadhav 8)Ms. Latatai Nandkumar Patil 9)Ms Shahista Abbas Shaikh Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Mithun Gopikishan Maniyar Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 ----- 2)Dr. Babruvahan Pandurang Ronge Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304. ----- 3)Dr. Vrunal Vishwasrao More Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 ----- 4)Mr. Digvijay Dadasaheb Ronge Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 ----- 5)Dr. Prajakta Kailas Khule Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304. ----- 6)Mr .Pradip Avinash Jadhav Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 ----- 7)Ms. Latatai Nandkumar Patil Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 ----- 8)Ms Shahista Abbas Shaikh Address of Applicant :Shri Vithal Education & Research Institute's College of Pharmacy, P. B. No. 54,Gopalpur Ranjani Road, Gopalpur Pandharpur, Dist. Solapur Maharashtra 413304 -----</p>
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(57) Abstract :

The present invention relates to evaluation of milk by using rapid milk-adulteration detection kit. Further invention relates to process for preparation of detection of milk adulteration. Further embodiment includes milk adulterant are glucose, sodium hydroxide, sodium chloride, sodium bicarbonate, benzoic acid, hydrogen peroxide, cane sugar, malt, dextrin, urea, ammonia, sulfates, neutralizers, formalin, detergent, alginates, starch, and nitrate ions and chemical or natural derivatives thereof.

No. of Pages : 16 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/12/2022

(21) Application No.202221075321 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OXY-STREAM FILTER

(51) International classification :C02F0001000000, F24F0013280000, A61F0002010000, H03H0001000000, B01D0039160000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Address of Applicant :MIT Academy of Engineering Dehu Phata, Alandi (D) Pune Maharashtra India 412105 -----

(57) Abstract :

ABSTRACT OXY-STREAM FILTER Described herein is an artificial system for purifying and cleaning water tank. The system includes a container tank having multiple compartments, a pump assembly attached to said container tank, a flow valve device assembly, a check valve assembly, a skimmer device assembly and a siphon tube. The flow valve device assembly comprises a flow valve for regulating the flow of water inside the container. The skimmer device assembly breaks down the surface agitation for cleaning the top layer and improving gas exchange at the air water interface. On end of the siphon tube is submerged inside water inside the tank and another end inside one of the compartments of the container tank. The aquarium filter of the present invention is a hang on back type filter. The present invention ensures improvement of weir design that helps in improving water circulation in the tank. Oxygen in the tank is mixed with water to prevent oxygen deficiency in water. Oxygen enrichment helps to colonize bacteria and reduce ammonia. The skimmer spins due to its unique design and helps in easier breakdown of oil films which increases cleaning rate of top layer.15 REFER FIGURE 1

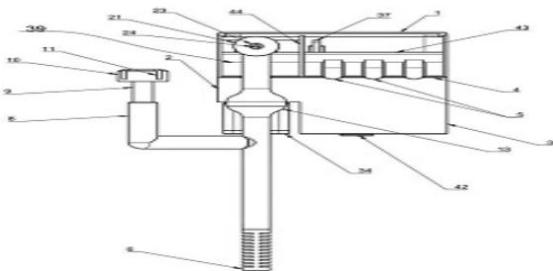


Figure 1

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/04/2023

(21) Application No.202321025366 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ARTIFICIAL INTELLIGENCE BASED DIGITAL SIGNAGE DISPLAY FOR ADVERTISEMENT AND VIEWER ANALYTICS

(51) International classification :G06N 050400, G06N 070000, G06N 200000, G06Q 300200, H04N 218100
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN ARTIFICIAL INTELLIGENCE BASED DIGITAL SIGNAGE DISPLAY FOR ADVERTISEMENT AND VIEWER ANALYTICS The present invention is related to an artificial intelligence based digital signage display for advertisement. The said digital signage display is having integrated camera that captures the images of the viewer who is viewing the advertisement. The said camera is captured the images and stored into the database storage. The image is analysed by viewer's age, gender, emotions and time for reviewing advertisement by using CNN module. The analyses report helps to improve viewer experience by providing the advertisement content of their interest. Fig: 1 for publication

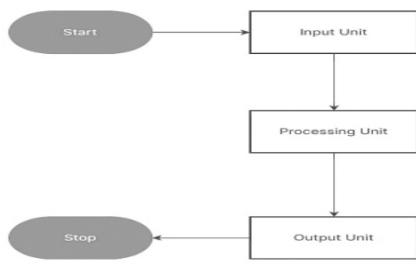


FIG: 1

No. of Pages : 21 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202321034420 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TOUCH FREE SYSTEM FOR PREDICTING SUDDEN CARDIAC DEATH USING MACHINE AND DEEP LEARNING APPROACH

(51) International classification	:A61B 050000, E03C 010500, G06N 030400, G06N 030800, G06N 200000	(71)Name of Applicant : 1)PREETI PURUSHOTTAM GHASAD Address of Applicant :Department of Electronics and Communication Engineering, Indian Institute of Information Technology Nagpur, Survey No. 140,141/1, Behind Br. Sheshrao Wankhade Shetkari Sahakari Soot Girni, Village - Waranga, PO – Dongargaon (Butibori), Tahsil- Nagpur (Rural), District- Nagpur, Maharashtra- 441108, India Nagpur ----- 2)ANKIT ASHOKRAO BHURANE 3)MANISH SHARMA Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)PREETI PURUSHOTTAM GHASAD Address of Applicant :Department of Electronics and Communication Engineering, Indian Institute of Information Technology Nagpur, Survey No. 140,141/1, Behind Br. Sheshrao Wankhade Shetkari Sahakari Soot Girni, Village - Waranga, PO – Dongargaon (Butibori), Tahsil- Nagpur (Rural), District- Nagpur, Maharashtra- 441108, India Nagpur ----- 2)MAYUR RAJARAM PARATE Address of Applicant :Department of Electronics and Communication Engineering, Indian Institute of Information Technology Nagpur, Survey No. 140,141/1, Behind Br. Sheshrao Wankhade Shetkari Sahakari Soot Girni, Village - Waranga, PO – Dongargaon (Butibori), Tahsil- Nagpur (Rural), District- Nagpur, Maharashtra- 441108, India Nagpur ----- 3)RASHMI A. PANDHARE Address of Applicant :Department of Electronics and Communication Engineering, Indian Institute of Information Technology Nagpur, Survey No. 140,141/1, Behind Br. Sheshrao Wankhade Shetkari Sahakari Soot Girni, Village - Waranga, PO – Dongargaon (Butibori), Tahsil- Nagpur (Rural), District- Nagpur, Maharashtra- 441108, India Nagpur ----- 4)ANKIT ASHOKRAO BHURANE Address of Applicant :Department of Electronics and Communication, Visvesvaraya National Institute of Technology Nagpur, South Ambazari road, Nagpur, Maharashtra-440010, India Nagpur ----- 5)MANISH SHARMA Address of Applicant :Electrical and Computer Science Engineering, Institute of Infrastructure, Technology, Research and Management (IITRAM), Near Khokhara Circle, Maninagar (East), Ahmedabad, Gujarat-380026, India Ahmedabad ----- 6)VICTOR AZAD Address of Applicant :Electrical and Computer Science Engineering, Institute of Infrastructure, Technology, Research and Management (IITRAM), Near Khokhara Circle, Maninagar (East), Ahmedabad, Gujarat-380026, India Ahmedabad -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Disclosed herein is a system for predicting sudden cardiac death (SCD) event prior to thirty-to-sixty minutes of its onset. The system comprises a contactless trans-receiver (100) adapted to acquire heartbeat signals; a monitoring device (300) for delivering prediction results on real time basis; and a predictive engine (200) communicatively coupled between the trans-receiver (100) and the monitoring device (300). The predictive engine (200) comprises a microprocessor (202), and a memory (204) carrying a set of instruction to operate the microprocessor (202) in coordination with at least one ML/DL model (400) configured to: segment the signals into a minute interval-based input samples (I) with noise removal therefrom; extract a plurality of features (F) relevant to the SCD based on a set of vector (V) as obtained by multiplying the input samples (I) with predefined core matrixes (C); compute a prediction threshold (T) by weighted linear combination of the extracted features (F); determine a time range within which the SCD is about to onset, thereby generating an alarming message based on the prediction threshold, thus increasing survival chances of patients. Fig. 1

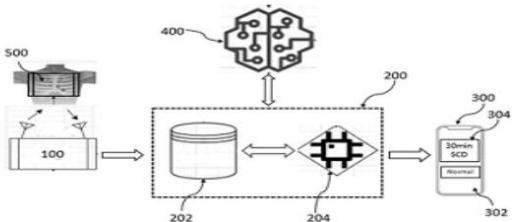


Fig. 1

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/08/2022

(21) Application No.202221047768 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A MEDIUM FOR ISOLATION OF AN ENDOPHYTIC FUNGUS OF GENUS-COLLETOTRICHUM FROM THE PLANT

(51) International classification :C12N 1/14
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Ms. ISHA DESHPANDE

3)Dr. (Mrs.) RUMANA FARAZ

4)Dr. (Mr.) ASHISH GARG

Name of Applicant : NA

Address of Applicant : NA

(72) Name of Inventor :

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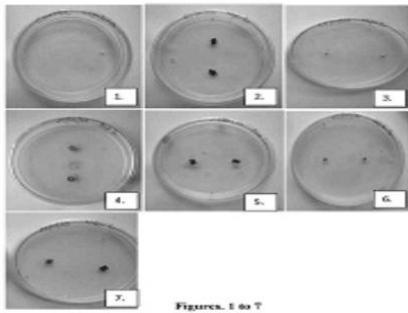
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Address of Applicant :Department of Chemistry, Rani Durgavati University, Saraswati vihar, Pachpedi, Jabalpur, Madhya Pradesh, India, Pin code-482001
Jabalpur -----

(57) Abstract :

ABSTRACT TITLE: A MEDIUM FOR ISOLATION OF AN ENDOPHYTIC FUNGUS OF GENUS-COLLETOTRICHUM FROM THE PLANT The genus Colletotrichum is one of the least explored pathogens because of the main problem being its isolation on currently used media. The currently available medium does not provide specificity in isolation of Colletotrichum. Present invention provides a medium for isolation of an endophytic fungus of Genus-Colletotrichum from the plant which comprises Oroxyllum indicum bud powder, water and an agar for solidification. It also provides a process for preparing such medium by drying buds of Oroxyllum indicum plant at a temperature around 60-65° C; blending them to obtain a dried bud powder having pore size below 0.25 mm; thoroughly mixing with distilled water in wt. to volume ratio of 0.03:1 gm/ml at a temperature of around 28° C to get wet mixture; adjusting the pH at 6.5, adding an agar for solidification and homogenizing at 60°C for 8-10 minutes; and heating the homogenized mixture at 121°C at 15 lb/psi.



No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/03/2022

(21) Application No.202221013209 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ELECTRIC MOTOR COOLING SYSTEM FOR ELECTRIC VEHICLES

(51) International classification :B60K 1/00, B60K 11/00,
B60L 3/00
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Address of Applicant : NA

(72)Name of Inventor :

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(57) Abstract :

ABSTRACT ELECTRIC MOTOR COOLING SYSTEM FOR ELECTRIC VEHICLES The present invention describes a powertrain cooling system (300) for electric vehicle. The powertrain cooling system (300) comprises a motor (302), a gearbox (304) enclosed in a gearbox casing (306). A portion of the gearbox casing (306) is adapted to enclose the motor (302). The powertrain cooling system (300) further comprises a cooling housing (308) arranged around a periphery of the portion of the gearbox casing (306). The cooling housing (308) comprises at least one non-linear channel for circulation of coolant.

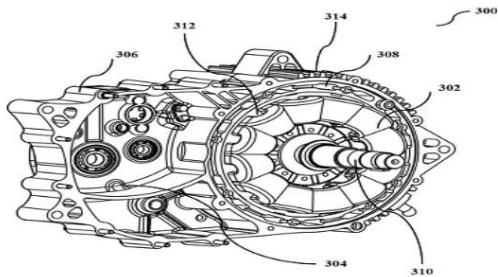


Fig. 3

No. of Pages : 31 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2023

(21) Application No.202321028889 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART SYSTEM FOR POST-DISASTER ASSESSMENT AND IMPACT IDENTIFICATION ON BUILDING STRUCTURE

(51) International classification	:A61L 091400, B64C 272800, F04D 250800, F24F 116100, G06Q 500600	(71) Name of Applicant :
(86) International Application No Filing Date	:NA :NA	1)Shri Shankaracharya Institute of Professional Management and Technology Raipur Address of Applicant :P.O, Old Dhamtari Road, Sejbarahar, Mujgahan, Chhattisgarh 492015 ----- 2)Dr. TARUN KUMAR RAJAK 3)Mr. Nishant Tripathi
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA	(72) Name of Inventor : 1)Dr. Tarun Kumar Rajak Address of Applicant :Shri Shankaracharya Institute of Professional Management and Technology Raipur ,492015 ----- 2)Lakshya Jain Address of Applicant :New Adrash Nagar, Durg, Chhattisgarh 491001 ----- 3)Kamal shanker patel Address of Applicant :Department of Civil Engineering, Government Engineering College, Old Dhamtari Road, Sejbarahar, Raipur ----- 4)Sandeep Goyal Address of Applicant :Department of Civil Engineering, Government Engineering College, Old Dhamtari Road, Sejbarahar, Raipur ----- 5)Mangal Singh Meravi Address of Applicant :Civil Engineering Department, Government Engineering College, Old Dhamtari Road, Sejbarahar, Raipur ,492015 ----- 6)Aditya Singh Address of Applicant :H.No 191, Darripara, Ambikapur, sarguja Chhattisgarh ----- ---
(62) Divisional to Application Number Filing Date	:NA :NA	7)Dushyant Kumar Sahu Address of Applicant :Civil Engineering Department, Government Engineering College, Jagdalpur ----- 8)Pukhraj Sahu Address of Applicant :Mahaveer Nagar, Jagdalpur ----- 9)Bhaskar Chandrakar Address of Applicant :19,Navjeevan Society Pachpedhi Naka Raipur ----- 10)Anju Jangade Address of Applicant :F1-03 GEC Raipur Campus Sejbhar Chhattisgarh -----

(57) Abstract :

This invention describes a system to assess the condition of a building structure after a calamity utilizes sensors, machine learning, and IoT to monitor and control the building's environment. The system continuously measures the building's life expectancy, tracks changes in climatic conditions, and uses a predictive model to identify potential issues. The system can detect potential damage caused by natural disasters by leveraging a variety of sensors such as seismic sensors, wind sensors, moisture sensors, smoke detectors, and carbon monoxide sensors. The system's machine learning and IoT capabilities allow for real-time impact reports and automatic alert mechanisms to notify building occupants and emergency responders of potential safety concerns. By proactively addressing potential issues, the system can avoid costly repairs or damage caused by structural failure. Overall, the system provides valuable information about the extent and severity of damage, allowing for appropriate measures to be taken to ensure the safety of all individuals involved.

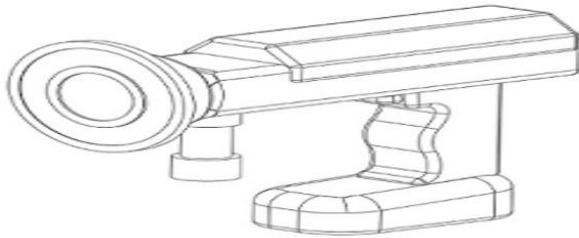


FIGURE - 1

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2023

(21) Application No.202321028890 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART PORTABLE VEIN IMAGE VISUALIZATION AND RECONSTRUCTION SYSTEM WITH PREDICTIVE ANALYSIS FOR BLOCKAGE DETECTION

(51) International classification	:A61B 010000, G06N 200000, G06T 110000, G10L 190600, G16H 304000	(71)Name of Applicant : 1)Shri Shankaracharya Institute of Professional Management and Technology, Raipur Address of Applicant :Shri Shankaracharya Institute of Professional Management and Technology, Raipur-492015, Chhattisgarh, India, ----- 2)Yogendra Narayan 3)Dr.Hemalta Sinha 4)Mr. Sumit Kumar Roy 5)Abhishek Kumar Verma 6)Lukesh Kumar Sahu 7)Dr Khushshali M Pandey 8)Dr. Sumit Saini 9)Dr. Ritesh Kumar Kushwaha 10)Dr. Piyush Charan Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Shri Shankaracharya Institute of Professional Management and Technology, Raipur Address of Applicant :Shri Shankaracharya Institute of Professional Management and Technology, Raipur-492015, Chhattisgarh, India, ----- 2)Dr.Hemalta Sinha Address of Applicant :Associate Professor and Head, Department of Electronics and Telecommunication Engineering, Shri Shankaracharya Institute of Professional Management and Technology, Raipur-492015, Chhattisgarh, India, ----- 3)Mr. Sumit Kumar Roy Address of Applicant :MIG-66, Sector-2, Shankar Nagar, Raipur (CG) 492001 ----- 4)Abhishek Kumar Verma Address of Applicant :Assistant Professor, Electronics & Telecommunication Engineering, Jhada Sirha Government Engineering College, Jagdalpur, Bastar (C.G.)-494001 ----- 5)Lukesh Kumar Sahu Address of Applicant :Lecturer, Department of Electrical, NMDC, DAV Polytechnic, Geedam, Dantewada ----- 6)Dr Khushshali M Pandey Address of Applicant :Assistant Professor, Department of Biological Science and Engineering, MANIT, Bhopal ----- 7)Dr. Sumit Saini Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Chandigarh University, Mohali, Punjab ----- 8)Dr. Ritesh Kumar Kushwaha Address of Applicant :Assistant Professor, Department of Electronics & Communication Engineering, Chandigarh University, Mohali, Punjab ----- 9)Dr. Piyush Charan Address of Applicant :Associate Professor, Department of ECE, Manav Rachna University, Faridabad ----- 10)Yogendra Narayan Address of Applicant :Associate Professor ECE Department, Chandigarh University Mohali -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention describes a system utilizes laser irradiation, imaging devices (infrared or ultrasound), and AI algorithms to provide a non-invasive way of detecting and visualizing veins, detecting blockages, and providing predictive analysis. The laser irradiation unit guides the imaging device to capture images of the target area, which are displayed on the display device. The images are processed by the image reconstruction unit and AI algorithm to provide a detailed view of the target area. The system can be beneficial for patients with diabetes or cancer, who are at a higher risk of developing blood clots. It is non-invasive and can be equipped with sensors for detecting hemoglobin levels or blood thickness. The system can detect clots and provide predictive analysis, allowing for earlier detection and treatment, leading to improved patient outcomes and quality of life. Smart Portable Vein Image Visualization and Reconstruction System with Predictive Analysis for Blockage Detection.

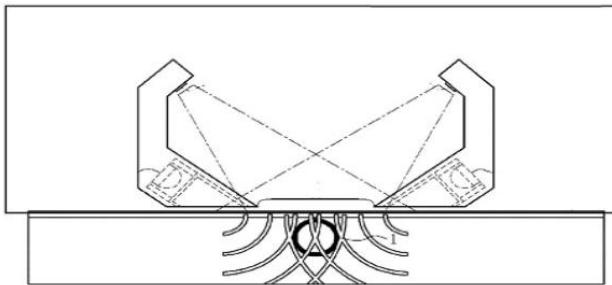


FIGURE - 1

No. of Pages : 28 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2022

(21) Application No.202221027070 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MAIZE SNP MARKERS FOR HPPD-INHIBITOR RESISTANCE

(51) International classification :C12Q0001689500, C12N0015820000, A01H0001040000, A61K0031550000, A01N0041100000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The current invention relates to methods and compositions to select herbicide- resistant maize plants, by using molecular markers. It more specifically relates to novel single nucleotide polymorphism markers linked with 4-hydroxyphenylpyruvate dioxygenase inhibitor resistance in maize plants, and methods for identifying and selecting 4-hydroxyphenylpyruvate dioxygenase inhibitor resistant maize plants using these markers.

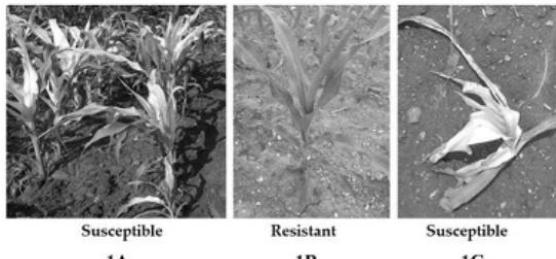


Fig. 1

No. of Pages : 51 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/03/2022

(21) Application No.202241019234 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ELECTROLYTE ADDITIVE FOR LITHIUM-ION BATTERY

(51) International classification :H01M0010056700, H01M0010052500, H01M0010420000, C08L0083040000, G02F0001133700
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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2)**Neha Sharma**

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(57) Abstract :

ABSTRACT Present invention discloses an electrolyte for use in lithium ion battery, the electrolyte comprising an organic solvent, a lithium salt and an additive. The electrolyte additive comprises polydimethylsiloxane (PDMS) and a polyphenylquinoxaline (PPQ), wherein PPQ is grafted on to both the end terminals of PDMS polymer chain. The ratio between PDMS and PPQ is kept at 1:2.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202241029885 A

(19) INDIA

(22) Date of filing of Application :24/05/2022

(43) Publication Date : 23/06/2023

(54) Title of the invention : PLASMA ACTIVATED WATER AT NEAR NEUTRAL pH CONDITIONS

(51) International classification :C02F0001720000, H05H0001240000,
C02F0001480000, A61K0009140000,
C01B0003080000

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

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(72)Name of Inventor :

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(57) Abstract :

ABSTRACT APPARATUS FOR PRODUCING PLASMA ACTIVATED WATER Approaches for producing high strength plasma activated water, which may be usable as an anti-microbial under neutral pH, are described. In one example, an apparatus for producing plasma activated water includes a first container accommodating a volume of water and a second container accommodating a volume of ice. The apparatus further includes an enclosure including an inlet, a first electrode and a second electrode. The first electrode is positioned longitudinally above the first container with its one of the ends submerged in the volume of water. The second electrode including a tip is hung and extended longitudinally through the inlet of the enclosure to maintain a predefined distance from the volume of water. The second electrode, when powered, generates a cold plasma discharge to ionize the air in the enclosure and the ionized air is subjected onto the volume of water to activate it to convert into plasma activated water.

No. of Pages : 31 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/05/2022

(21) Application No.202241030351 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTISHEET MULTICHANNEL IMAGING CYTOMETRY (MMIC) SYSTEM

(51) International classification :G01N0015140000, H01L0029778000, H01L0023660000, G01N0015000000, H03F0003195000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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Address of Applicant :Department of Instrumentation & Applied Physics, Indian Institute of Science, Bangalore 560012, India -----

(57) Abstract :

MULTISHEET MULTICHANNEL IMAGING CYTOMETRY (MMIC) SYSTEM The present subject matter discloses a multisheet multichannel imaging cytometry (MMIC) system 100 based on vertical-aligned multi-sheet array (VAMSA) illumination technique. The MMIC system employs a unique combination of transmission grating 103, beam-expander 104, cylindrical lens 105, and objective system 106 in a specific optical configuration to generate a diffraction-limited illumination PSF (VAMSA-PSF). The detection is accomplished by a large field-of-view widefield 4f-system that consists of low NA objective lens 112, high performance fluorescence filters 114, tube lens 113 and a sensitive detector 115 (sCMOS/CCD/EMCCD). The VAMSA point spread function (PSF) enables in-parallel interrogation of specimens flowing simultaneously through multiple microfluidic channels 108. The very geometry of PSF enables high quality cross-sectional imaging, and facilitates volumetric interrogation of specimens flowing through microfluidic chip 107 consisting of multiple flow-channels, which is a step towards large population cell/organism screening.

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/06/2022

(21) Application No.202241032704 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A TIRE TREAD RUBBER COMPOSITION USING EGGSHELL POWDER AS A BIOFILLER AND ITS PREPARATION

(51) International classification	:B60C000100000, A23K0010260000, C08L0009060000, C08K0003013000, C08L0021000000	(71) Name of Applicant : 1)TVS SRICHAKRA LIMITED Address of Applicant :Vellarippatti, Melur Taluk,Madurai Tamil Nadu,India-625 122 Madurai ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)SAKTHIVEL PREM SHANKAR Address of Applicant :TVS Srichakra Limited, Vellarippatti, Melur Taluk,,Madurai Tamil Nadu,India-625 122 Madurai -----
Filing Date	:NA	2)BRINDHA SENTHILRAJA Address of Applicant :TVS Srichakra Limited, Vellarippatti, Melur Taluk,,Madurai Tamil Nadu,India-625 122 Madurai -----
(87) International Publication No	: NA	3)KADAMBANATHAN THIAGARAJAN Address of Applicant :TVS Srichakra Limited, Vellarippatti, Melur Taluk,Madurai Tamil Nadu,India-625 122 Madurai -----
(61) Patent of Addition to Application Number	:NA	4)VISWANATHAN SIVARAMAKRISHNAN Address of Applicant :TVS Srichakra Limited,, Vellarippatti, Melur Taluk, Madurai,Tamil Nadu, India-625 122 Madurai -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a tire tread rubber composition and its method of preparation. The eggshell powder is used as a biofiller in SSBR: PBR diblend based tire tread rubber composition to improve rubber elasticity, wet grip and low rolling resistance property along with better processing properties.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/06/2022

(21) Application No.202241033139 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED BATTERY PACK

		<p>(71)Name of Applicant : 1)PUR Energy Private Limited Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Nishanth Dongari Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- 2)Mandar Ruikar Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- 3)Bheemireddy Rohit Reddy Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- 4)Nikunj Navinbhai Patel Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- 5)Abhishek Singh Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 ----- 6)Shikhar Satyendra Kar Address of Applicant :H. No 10-38/2, Survey no 424/AA3, Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy, Pin Code: 502285 -----</p>
(51) International classification	:H01M0010613000, H01M0002020000, H01M0010655100, H01M0010655400, H01M0010647000	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: AN IMPROVED BATTERY PACK ABSTRACT An improved battery pack 200A comprising a battery enclosure 205, a battery cell stack 210, a passive thermal management material 215 configured to cover the battery cell stack 210, a battery management system (BMS) 220, and a thermal insulator member 225. The thermal insulator member 225 positioned between the battery cell stack 210 enclosed with the battery passive thermal management material 215 and the BMS 220 to block propagation of heat from the battery passive thermal management material 215 to the BMS 220 and vice-versa, by isolating the BMS 225 from the battery passive thermal management material 215. The thermal insulator member 225 may connected mechanically to a side portion (205A and/or 205B and/or 205C and/or 205D) of the battery enclosure 205 and prevents spillage of the passive thermal management material 215 (in molten form) into the BMS 220. < FIG.2A >

No. of Pages : 4 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/06/2022

(21) Application No.202241034179 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 1H-pyrrol-3(2H)-one scaffold for the design of multimodal diagnostic probes and therapeutic agents

(51) International classification	:G01N0021650000, G06F0017100000, C07F0007080000, C08G0065332000, H04L0027000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY MADRAS (IIT Madras) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research [IC&SR], Indian Institute of Technology Madras, Sardar Patel Road, IIT P.O, Chennai, Tamil Nadu, India, 600 036 Chennai ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Muraleedharan Kannoth Manheri Address of Applicant :Department of Chemistry, Indian Institute of Technology Madras, Chennai - 600036, Tamil Nadu, India Chennai -----
(87) International Publication No	: NA	2)Archana P. P Address of Applicant :Department of Chemistry, Indian Institute of Technology Madras, Chennai-600036, Tamil Nadu, India Chennai -----
(61) Patent of Addition to Application Number	:NA	3)Jais Kurian Address of Applicant :Department of Chemistry, Indian Institute of Technology Madras, Chennai - 600036, Tamil Nadu, India Chennai -----
Filing Date	:NA	4)Akila Kesavan Address of Applicant :No. 143/49, Palani-Andavar koil street, Ayanavaram, Chennai - 600023, Tamil Nadu, India Chennai -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention generally relates to the field of chemical and pharmaceutical sciences. In particular, the invention pertains to the diagnostic- and therapeutic application of 1H-pyrrol-3(2H)-one based compounds. 1H-pyrrol-3(2H)-one core moiety is functionalized with chemical moieties/functional groups to prepare compounds that act as a chemical probe for the selective detection and quantification of hydrogen sulfide which is one of the gas transmitters with key biological functions and also having diagnostic relevance. Multimodal detection of this analyte through characteristic ‘turn-on’ fluorescence output and Raman signals is possible by using proper response groups, which ensures high level of selectivity and sensitivity. The invention also shows the therapeutic potential of 1H-pyrrol-3(2H)-one derivatives, especially in the area of cancer.

No. of Pages : 59 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/06/2022

(21) Application No.202241036195 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LIGHT-SHEET OPTICAL TWEEZER

(51) International classification	:G02B002100000, G02B0021360000, G01N0021640000, H01L0021683000, G02B0027000000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF SCIENCE Address of Applicant :Indian Institute of Science, Bangalore, Karnataka 560012, India ----- Name of Applicant : NA Address of Applicant : NA (72) Name of Inventor : 1)MONDAL, Partha Pratim Address of Applicant :Department of Instrumentation & Applied Physics Indian Institute of Science, Bangalore 560012, India ----- 2)BARO, Neptune Address of Applicant :Department of Instrumentation & Applied Physics Indian Institute of Science, Bangalore 560012, India -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT LIGHT-SHEET OPTICAL TWEEZER A light-sheet optical tweezer system comprising a coverslip, a first light source, a beam expansion element, a cylindrical lens, and an objective lens. The coverslip includes a sample. The sample has a medium having a plurality of microscopic particles that are to be trapped in a predetermined pattern. The first light source emits a first light beam. The beam expansion element expands the first light beam received from the first light source to form an expanded light beam. The cylindrical lens focusses the expanded light beam received from the beam expansion element on an objective lens and forms a light-sheet at a back-aperture of the objective lens. The objective lens transforms the light-sheet received from the cylindrical lens to generate a tightly-focused diffraction-limited light-sheet on the coverslip to trap the plurality of microscopic particles of the sample in the predetermined pattern in the tightly-focused diffraction-limited light-sheet.

No. of Pages : 52 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/06/2022

(21) Application No.202241036811 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : VACUUM SYSTEM

(51) International classification	:B07B0001280000, A47L0005380000, H01L0051560000, A47L0007000000, A61M0001000000	(71)Name of Applicant : 1)Indian Institute of Technology Madras (IIT Madras) Address of Applicant :The Dean, Industrial Consultancy & Sponsored Research (IC&SR), Indian Institute of Technology Madras (IIT Madras), Sardar Patel Road, IIT Post, Chennai, Tamil Nadu, India, 600 036 Chennai ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:PCT// :01/01/1900	(72)Name of Inventor : 1)Muruganandam, Thiruchengode Mahalingam Address of Applicant :C1-08-20, 14th Cross Road, IIT Madras Campus, Chennai 600036, India Chennai ----- 2)Chakravarthy, Satyanarayanan RaghuRaman Address of Applicant :B28-2B Pandiya Building Delhi Avenue IIT Madras Campus, Chennai 600036, India Chennai ----- 3)Gettu, Ravindra Address of Applicant :12A Moores Road, Moores Garden lane, Chennai 600 006, India Chennai ----- 4)Patole, Siddhant Sagar Address of Applicant :Orchid-602, Blossom N Springs, Baner Pashan Link Road, Pashan, Pune-411021, India Pune ----- 5)Kabdal, Lokesh Address of Applicant :H.NO 36A, Village Jaipur Khima, P.O Motahaldu, Haldwani, Distt. Nainital-263139 Uttarakhand, India Nainital ----- 6)Anish, Chokkasamudram Address of Applicant :2-16-50/B Flat No. 305 Ponnappalli Plaza, Prashant Nagar, Uppal Hyderabad-500039, India Hyderabad ----- 7)Bansal, Ankit Address of Applicant :99 GF, Deepali, Pitampura, Delhi -110034, India Pitampura ----- 8)Jain, Vibhor Address of Applicant :B1, Gali no. 1, Rajeev Nagar, Near Yash Computer, Vidisha, Madhya Pradesh, 464001, India Vidisha ----- 9)Patil, Anurag Address of Applicant :Gandharva Park A-6, Shahunagar, RH-93, Chinchwad, Pune-411019, India Pune ----- 10)Sasisekaran, Rajaraman Address of Applicant :Plot 176 A, RRT flats, Perumal Koil st, Alapakkam Main road, Valasaravakkam, Chennai-600087, India Chennai -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

ABSTRACT VACUUM SYSTEM FOR HIGH-SPEED TRANSPORTATION The present invention relates to a vacuum system (100) comprising an non-permeable tube (1) made of metal, an load bearing tube (2) made of concrete, a plurality of shear studs (3) arranged on outer circumference of the non-permeable tube (1) to increase bonding between the non-permeable tube (1) and the load bearing tube (2), a set of connection flanges (4) for allowing connection of multiple vacuum systems, and one or more clamping members (5) disposed at ends of outer circumference of the load bearing tube (2) for lifting and transportation of the vacuum system (100). Fig. 1A is the representative figure

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/07/2022

(21) Application No.202241038188 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR THE FULLY AUTOMATED ORGANIC CULTIVATION, HARVESTING, AND PACKING OF BETA CAROTENE RICH DUNALIELLA SALINA IN AN OPEN RACEWAY POND

(51) International classification	:C12N0001120000, C07K0001340000, A61K0036050000, A23L0002800000, C12R0001890000	(71) Name of Applicant : 1)GLAUKOS ALGAE TECHNOLOGIES PRIVATE LIMITED Address of Applicant :NO:26-15-34/47,FLAT NO:408 BLOCK NO:261,VANAM THOPU, NELLORE, ANDHRA PRADESH Nellore ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// /	(72) Name of Inventor :
Filing Date	:01/01/1900	1)PAPUDESI JAYAPRAKASH NALAGAMPALLE Address of Applicant :24-106, SAI NAGAR COLONY, KONGAREDDY PALLI, CHITTOOR, ANDHRA PRADESH Nellore ----- 2)BUSA JANARDHANA Address of Applicant :1-28, NALGAMPALLI, CHITTOOR, ANDHRA PRADESH 517416 Nellore ----- 3)Dr. Detchanamurthy Swaminathan Address of Applicant :27/F1, Bharathi Nagar, Kavalcheri Road, Thirumazhisai, Tiruvallur, Tamil Nadu 600124 Nellore ----- -
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Dunaliella salina is a marine microalga, that survives in a highly saline environment. The proposed process involves automated and organic cultivation of Dunaliella salina and its harvesting techniques. The cultivation method is purely organic as we use chemicals that are fertilizers by nature. The scaling-up process will be carried out in Raceway Ponds which involves sparging of carbon dioxide. This is done by a diffuser designed for effective CO₂ absorption. The downstream process involves the utilization of ultrafiltration and centrifugation system. The combined usage of ultrafiltration and algal centrifugation will increase the final yield and ensures that there is no cell breakage as the cell wall of Dunaliella salina is very fragile. The said harvesting process also contains the addition of organic antioxidant before drying, wherein the said organic antioxidant are ascorbic acid and citric acid. The product of the present invention contains powdered Dunaliella with high quantity of Beta-carotene.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/09/2022

(21) Application No.202241055496 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FLEXIBLE HEADBAND AND METHODS OF ACQUIRING BRAIN SIGNALS THEREOF

(51) International classification :A61B000500000, A61B0005145500, G01N0021359000, A61B0005026000, G01J0003420000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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2)Mrs. V. Akila

3)Mr. Pon Vairavan Ramanathan

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Address of Applicant :Department of Electronics and Communication Engineering, SRM Institute of Science and Technology, Vadapalani, Chennai -----

(57) Abstract :

The present invention herein belongs to medical instrumentation device, particularly relates to a flexible headband, or referred as headcap, more particularly a customized headband to acquire signals from the brain in real-time. Said device comprising of a headband [100], a functional Near Infrared Spectroscopy (fNIRS) sensor [101], wherein the fNIRS sensor [101] assembled in an array of a plurality of pair of light sources and light detectors, a driving circuitry module [102], wherein the driving circuitry module provisioned to trigger the light sources at various frequencies, a microcontroller [104], wherein the microcontroller provisioned to perform a plurality of computational analysis, and a battery, wherein said battery provisioned to energize the device [100], wherein said battery provisioned to recharge according to the requirements. FIGURE 1

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/11/2022

(21) Application No.202241067430 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD OF FABRICATING A HYDROGEL WOUND DRESSING MATERIAL AND IMPLEMENTATIONS THEREOF

(51) International classification	:A61L002600000, A61P0017020000, A61L0015460000, A61L0015440000, A61L0027520000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF SCIENCE Address of Applicant :CV Raman Rd, Bengaluru, Karnataka 560012, India -----
(86) International Application No	:PCT//	2)Fibroheal Woundcare Pvt. Ltd. Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor : 1)INDRAKUMAR, Sushma Address of Applicant :Department of Materials Engineering, Indian Institute of Science, CV Raman Rd, Bengaluru, Karnataka 560012, India -----
(87) International Publication No	: NA	2)JOSHI, Akshat Address of Applicant :Department of Materials Engineering, Indian Institute of Science, CV Raman Rd, Bengaluru, Karnataka 560012, India -----
(61) Patent of Addition to Application Number	:NA	3)CHATTERJEE, Kaushik Address of Applicant :Department of Materials Engineering, Indian Institute of Science, CV Raman Rd, Bengaluru, Karnataka 560012, India -----
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(62) Divisional to Application Number	:NA	5)MISHRA, Vivek Address of Applicant :Fibroheal Woundcare Pvt. Ltd, IS-21, KHB Industrial area, Yelahanka New Town, Bengaluru, Karnataka 560064, India -----
Filing Date	:NA	6)TANDON, Bharat Address of Applicant :Fibroheal Woundcare Pvt. Ltd, IS-21, KHB Industrial area, Yelahanka New Town, Bengaluru, Karnataka 560064, India -----

(57) Abstract :

METHOD OF FABRICATING A HYDROGEL WOUND DRESSING MATERIAL AND IMPLEMENTATIONS THEREOF The present disclosure provides a method of fabricating a dressing material, the method comprises deploying a precursor solution comprising a biocompatible polymer and a photoinitiator on a structurant to obtain the dressing material. The present disclosure also provides a dressing material fabricated by the disclosed method, which comprises 2% to 15% (w/v) of a biocompatible polymer, a structurant, and optionally a bioactive agent. The present disclosure further provides a method of treating a wound using the dressing material.

No. of Pages : 32 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/12/2022

(21) Application No.202241072724 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPREHENSIVE SECURITY ENCLOSURE CPU CABINET

(51) International classification :G06F0001180000, G06F0021100000, H05K0007200000, G06Q0010080000, G06Q0020380000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

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3)Mr. C. SARAVANAN

Address of Applicant :17, KAMARAJAR SALAI, GANDHI NAGAR, MUVARASAMPET, MADIPAKKAM, CHENNAI 600091, INDIA Chennai -----

(57) Abstract :

“COMPREHENSIVE SECURITY ENCLOSURE CPU CABINET” that includes a metal cabinet, mechanical lock and customized central key configured to prevent unauthorized movement or theft of peripherals and restricts access to internal computing components like RAM, hard disk etc.; the central processing unit (CPU) is fitted to the security enclosure with in the dedicated racks and casings that is fastened as a whole for positioning internal storage device, electrical wires and data cables to draw and fix within the preferred casings without any loose connections within the cabinet and then taken out via cable guides(105, 215) sealed with electric grommets stipulated on the cabinet for minimizing electromagnetic interference to connect to other peripherals to work properly without any interception towards production, the cabinet is equipped with smart grounding to prevent electrical grounding problems and a central key is supplied for the mechanical lock fastened at one side of the cabinet to reduce to mishandling of device intentionally or unintentionally and to conveniently and efficiently maintain all the installations. Refer Figure 2

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/03/2023

(21) Application No.202341019058 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD AND A SYSTEM FOR PREDICTING CONDENSATION TRAIL FORMATION ON A JET ENGINE

(51) International classification :A61B 053180, A61K 381700, A61K 381900, G06F 215500, G16H 406300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**

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Address of Applicant :Flat 2B, Block 3, Gowtham ABC Avenue, Avarampalayam Road, Peelemedu, Coimbatore, Tamil Nadu, India - 641004 Coimbatore -----

Name of Applicant : NA

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(72)**Name of Inventor :**

1)Deepak Kumar Cheranjeev Rama

Address of Applicant :Flat 2B, Block 3, Gowtham ABC Avenue, Avarampalayam Road, Peelemedu, Coimbatore, Tamil Nadu, India - 641004 Coimbatore -----

(57) Abstract :

A method (400) for predicting formation of a contrail on a jet engine is disclosed. The method (400) includes, receiving a plurality of first environmental parameters associated with a location for a plurality of previous instances in a previous predetermined period of time. The method (400) includes predicting a plurality of second environmental parameters associated with the location for a plurality of instances in a predetermined period of time based on the plurality of first environmental parameters. The method (400) includes calculating a plurality of third environmental parameters associated with the location for the plurality of instances at an altitude based on the plurality of second environmental parameters. The method (400) includes predicting the formation of the contrail on the jet engine at the altitude during the plurality of instances based on a relative humidity value associated with the plurality of third environmental parameters during the plurality of instances. To be published with [[FIGS. 4]]

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2023

(21) Application No.202341029414 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CARRIER FOR TRANSPORTING TWO-WHEELERS

(51) International classification	:G06Q 100600, G06Q 101000, H01B 011200, H01L 510000, H01L 515000	(71) Name of Applicant : 1)Ultraviolette Automotive Private Limited Address of Applicant :Ultraviolette Automotive Private Limited No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 GST No - 29AACU8841P1ZH Bengaluru ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor : 1)Rajesh Sankara Narayanan Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru ----- -----
Filing Date	:01/01/1900	2)Ajay Simha G Rao Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru ----- -----
(87) International Publication No	: NA	3)Vinayak S Bhat Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru ----- -----
(61) Patent of Addition to Application Number	:NA	4)Raja K Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru ----- -----
Filing Date	:NA	5)Mahanth P C Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru ----- -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The current invention describes a portable carrier (1) that enables transportation of two-wheelers (2) in narrower spaces. The carrier (1) comprises of a fixed vertical wall (10), a fixed horizontal wall (20), a translating member (30) and an axle member (40).

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031711 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : HIGHTECH BLIND FOLDABLE CANE

<p>(51) International classification :A61F 090800, A61H 030200, A61H 030600, G02B 060200, G10D 090350</p> <p>(86) International Application No:NA Filing Date :NA</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant : 1)A.V.C. COLLEGE OF ENGINEERING Address of Applicant :A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- ----- Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)MRS.D.MAHALAKSHMI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 2)MRS.V.EZHILARASI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 3)MRS.R.VALAMPURANAYAKI Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 4)MR.P.KISHORE Address of Applicant :THIRD YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 5)MR.R.SAI MUTHUKUMAR Address of Applicant :THIRD YEAR STUDENT, DEPARTMENT OF EEE, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 6)MR.B.NANDHA GOPAL Address of Applicant :THIRD YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 7)MS.R.UMAIRA PARVEEN Address of Applicant :SECOND YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 8)MR.M.SAHID RIZWAN Address of Applicant :SCCOND YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 9)MS.H.SIVAPRIYA Address of Applicant :SECOND YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. ----- 10)MS.P.NIVETHA Address of Applicant :SECOND YEAR STUDENT, DEPARTMENT OF IT, A.V.C. COLLEGE OF ENGINEERING, MANNAMPANDAL, MAYILADUTHURAI - 609 305, TAMILNADU. -----</p>
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(57) Abstract :

ABSTRACT: This model presents a blind stick equipped with an ESP32-CAM, PICO/PICO-W microcontroller board, Ultrasonic sensor, PIR sensor, IR flame sensor and water level depth sensor. The purpose of thisdevice is to aid individuals with visual impairments in navigating their surroundings and detecting potential hazards. The ESP32-CAM, PICO microcontroller board serves as the main processor and integrates with the other sensors to provide real-time information to the user. With these sensors, the HighTech Blind Foldable Cane can provide early warning and can enhance the safety of individualswith visual impairments, since this cane is foldable, portable and can be used independently.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031789 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ADVANCED FIREFIGHTING ROBOT WITH ALERTING SYSTEM USING ARDUINO UNO

(51) International classification	:A62C 270000, B25J 091600, F21Y 151000, G08B 031000, H03L 070890	(71)Name of Applicant : 1)PAAVAI ENGINEERING COLLEGE (AUTONOMOUS) Address of Applicant :PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA Namakkal ----- -----
(86) International Application No Filing Date	:PCT// :01/01/1900	2)DR. M. SUDHA 3)DR.S.VIJAYAKUMAR 4)MRS.ASAMUNDEESWARI 5)DR.R.MOHANA PRIYA Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor : 1)DR. M. SUDHA Address of Applicant :PROFESSOR AND HEAD, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	2)DR.S.VIJAYAKUMAR Address of Applicant :PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
(62) Divisional to Application Number Filing Date	:NA :NA	3)MRS.ASAMUNDEESWARI Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
		4)DR.R.MOHANA PRIYA Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
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		8)DINESH C Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
		9)JAYAKUMAR R Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
		10)JEEVAN PRAKASH R Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
		11)DINESH K Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
		12)JAGAN P Address of Applicant :STUDENT, DEPARTMENT OF ELECTRONICS AND COMMUNICATIONS ENGINEERING, PAAVAI ENGINEERING COLLEGE (AUTONOMOUS), NH-44, PAAVAI NAGAR, PAACHAL, NAMAKKAL – 637408, TAMIL NADU, INDIA. Namakkal ----- -----
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(57) Abstract :

Advanced firefighting robot with alerting system using Arduino UNO is the proposed invention. The firefighting robot will have future scope that it can work with firefighters, which greatly reduce the danger of injury to victims. It is an innovative work in the field of robotics that towards sensible and obtainable access to save the lives and prevents the danger to property. It can be extended to a real fire extinguisher by replacing the water carrier by a carbon-di oxide carrier and by making it to extinguish fires of the entire room using microcontroller programming

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031792 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED SUB ATMOSPHERIC WOUND THERAPY DEVICE WITH DOUBLE LUMEN TUBING AND AIR BLAST FUNCTION

(51) International classification	:A61M 010000, A61M 013600, A61M 391000, C12N 050730, H01L 330000	(71) Name of Applicant : 1)Stephen George Address of Applicant :Madukakuzhy House, Parathode PO, Kanjirappally, Kottayam, Kerala -686512, India Kottayam ----- -----
(86) International Application No	:PCT//	2)Dr. Joseph Thomas
Filing Date	:01/01/1900	Name of Applicant : NA
(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Stephen George Address of Applicant :Madukakuzhy House, Parathode PO, Kanjirappally, Kottayam, Kerala -686512, India Kottayam ----- -----
(62) Divisional to Application Number	:NA	2)Dr. Joseph Thomas Address of Applicant :Flat No 2/2, KMC Campus, Manipal Udupi, Karnataka-576104, India Udupi ----- -----
Filing Date	:NA	

(57) Abstract :

The invented sub atmospheric wound therapy (SAWT) device has a double tubing system. This ensures that the tubing is not blocked with exudate. There may be leakage at the wound dressing site, which may lead to pressure drops. This is monitored by sensors and the signal is sent to the variable speed pump to change the speed. The invented device has two solenoid valve SVI, SVII and two pressure sensors PSI, PSII. SVII and PSII are pneumatically connected to vacuum pump. These three components are pneumatically connected (suction line) to suction canister through microbial filter. Microbial filter is used in the suction line to filter the air coming out of the canister. From the canister the tube goes to the wound site opens at wound site. The solenoid valve SVI and pressure sensor PSI are pneumatically connected to active air-line. The active air-line and suction line is pneumatically connected at wound site. An Air blast function is incorporated in the device in order to remove the blockage in the tubing.

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031815 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Metamorphosis of C02

(51) International classification	:A61H 330600, A61M 162200, C02F 015200, C25B 032500, H01S 032230	(71) Name of Applicant : 1)Sri Venkateshwara College of Engineering Address of Applicant :Sri Venkateshwara College of Engineering Kempgowda International Airport Bengaluru, Road, Kempegowda Int'l Airport Rd, Vidya Nagar, Central Telecom Society, Bengaluru, Karnataka 562157 Bangalore ----- ---
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. Mukesh Kumar Singh Address of Applicant :Professor, Department of CSE , Sri Venkateshwara College of Engineering, Bengaluru, Karnataka 562157. Bengaluru -----
Filing Date	:NA	2)Dr. Nageswara Guptha M Address of Applicant :Professor, Department of CSE , Sri Venkateshwara College of Engineering, Bengaluru, Karnataka 562157 Bengaluru -----
(62) Divisional to Application Number	:NA	3)Dr. Hema M S Address of Applicant :Professor, Department of Data Science Sri Venkateshwara College of Engineering, Bengaluru, Karnataka 562157. Bengaluru -----
Filing Date	:NA	

(57) Abstract :

The motivation towards improvising air pollution is conducting from long time. Neutralizing the impact of vehicle exhaust in the environment surrounding to ourselves will help not only health status of human beings but it also makes environment healthier for any live being. Hence our productive model will be having significant impact to improve environmental pollution conditions; also, it will be in a portable form for the installations near to heavy traffic area. Hence our presented invention is a major breakthrough for providing a unique solution to purify polluted and toxic air to nontoxic air. which helps to improve a healthier society surrounding us.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031911 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR RENEWABLE ENERGY FORECASTING

	(71)Name of Applicant : 1)Dr. UMAVATHI M Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING B.M.S. COLLEGE OF ENGINEERING BULL TEMPLE RD, BASAVANAGUDI, BENGALURU, KARNATAKA 560019 ----- -- 2)Dr. S. PRASATH 3)Mr. HARISH BABU L 4)Dr. SIVASAKTHI BALAN K 5)Dr. R. GIRJA 6)Prof. ROHAN PRADEEP SHINDE 7)Mrs. P.SASIREKHA Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. UMAVATHI M Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING B.M.S. COLLEGE OF ENGINEERING BULL TEMPLE RD, BASAVANAGUDI, BENGALURU, KARNATAKA 560019 ----- 2)Dr. S. PRASATH Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING MOHAMMED SATHAK A J COLLEGE OF ENGINEERING, SIRUSERI,SIPCOT IT PARK, OMR, CHENNAI-603103 ----- 3)Mr. HARISH BABU L Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING SRI SAIRAM COLLEGE OF ENGINEERING SAILEO NAGAR,GUDDANAHALLI (P.O) ANEKAL, BENGALURU – 562 106, KARNATAKA ----- 4)Dr. SIVASAKTHI BALAN K Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING SRI SAIRAM COLLEGE OF ENGINEERING SAILEO NAGAR,GUDDANAHALLI (P.O) ANEKAL, BENGALURU – 562 106, KARNATAKA ----- 5)Dr. R. GIRJA Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF PHYSICS (SCIENCE AND HUMANITIES) LOYOLA INSTITUTE OF TECHNOLOGY PALANCHUR, NAZARETH PET, POST, KUTHAMBakkAM, CHENNAI TAMIL NADU 600123 ----- - ----- 6)Prof. ROHAN PRADEEP SHINDE Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING MIT SCHOOL OF ENGINEERING AND SCIENCES, MIT ADT UNIVERSITY LONI KALBhor RAJBAUG CAMPUS, LONI KALBhor, MAHARASHTRA 412216 ----- 7)Mrs. P.SASIREKHA Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING M.KUMARASAMY COLLEGE OF ENGINEERING THALAVAPALAYAM, KARUR, TAMILNADU 639113 -----
(51) International classification	:C10G 020000, C25B 010400, F03D 150000, G06Q 300200, H02J 033800
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to	:NA
Application Number	:NA
Filing Date	:NA
(62) Divisional to Application	:NA
Number	:NA
Filing Date	:NA

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR RENEWABLE ENERGY FORECASTING The short-term forecasts of renewable power generation are essential for effectively integrating renewable energy sources. With the waning and overrated petroleum product assets, the globe has at long last moved its concentration towards the utilization of Environmentally friendly power Assets, chiefly Sun based Energy. In this time span, the world has likewise seen a flood in specialized developments in the field of information science and AI. Additionally, it turned out to be exceptionally fundamental for the energy business to anticipate the result of the sun based power and subsequently needed to utilize different AI procedures among different strategies. This work includes 24-hour ahead sun oriented and wind power anticipating utilizing AI calculations. Two AI calculations, to be specific Back spread brain organization and Irregular woods are tried with same dataset. As inexhaustible power age is profoundly reliant upon weather patterns thus, for this work meteorological information of specific area is taken as info information for preparing the organization. For assessment of determining model, a legitimate assessment measure has been utilized for both guaging model individually. Exhibitions of back spread and arbitrary woods calculations are thought about for summer, winter and blustery seasons for sun based power determining. As wind power doesn't rely upon seasons, complete 5 years information is taken for guaging. The model is likewise tried for the remarkable situations where sun oriented irradiance esteem changes radically to arbitrary qualities because of overcast cover

No. of Pages : 28 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031913 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : VOICE BASED PRODUCT RECOGNITION FOR VISUALLY IMPAIRED

	<p>(71) Name of Applicant :</p> <p>1)Dr. B.VIJAYA PRAKASH Address of Applicant :ASSISTANT PROFESSOR(SENIOR) DEPARTMENT OF MECHANICAL ENGINEERING SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY L & T BY - PASS, SRI SHAKTHI NAGAR, POST CHINNIVAMPALAYAM, COIMBATORE, TAMILNADU 641062 -----</p> <p>2)Dr. S. RANGANATHAN 3)Mr. L. VETRIVENDAN 4)Mr. MOHAN S R 5)Dr. P. SURESH 6)Dr. B.SENTHIL KUMAR 7)Mr. M.HARIPRABHU</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor :</p> <p>1)Dr. B.VIJAYA PRAKASH Address of Applicant :ASSISTANT PROFESSOR(SENIOR) DEPARTMENT OF MECHANICAL ENGINEERING SRI SHAKTHI INSTITUTE OF ENGINEERING AND TECHNOLOGY L & T BY - PASS, SRI SHAKTHI NAGAR, POST CHINNIVAMPALAYAM, COIMBATORE, TAMILNADU 641062 -----</p> <p>2)Dr. S. RANGANATHAN Address of Applicant :PROFESSOR DEPARTMENT OF MECHANICAL ENGINEER ACADEMY OF MARITIME EDUCATION AND TRAINING - DEEMED TO BE UNIVERSITY, KANATHUR, CHENNAI- 603112 -----</p> <p>3)Mr. L. VETRIVENDAN Address of Applicant :SCHOOL OF COMPUTING SCIENCE AND ENGINEERING PLOT NO. 2, YAMUNA EXPY, OPPOSITE BUDDHA INTERNATIONAL CIRCUIT, SECTOR 17A, GREATER NOIDA, UTTAR PRADESH 203201 INDIA. -----</p> <p>4)Mr. MOHAN S R Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING MOHAMED SATHAK A J COLLEGE OF ENGINEERING, SIRUSERI,SIPCOT IT PARK, OMR, CHENNAI-603103 -----</p> <p>5)Dr. P. SURESH Address of Applicant :PROFESSOR DEPARTMENT OF MECHANICAL ENGINEERING GALGOTIAS UNIVERSITY, GREATER NOIDA, GAUTAM BUDDH NAGAR, UTTAR PRADESH -203201 -----</p> <p>6)Dr. B.SENTHIL KUMAR Address of Applicant :ASSOCIATE PROFESSOR DEPARTMENT OF ELECTRONICS AND INSTRUMENTATION ENGINEERING, St. JOSEPHS COLLEGE OF ENGINEERING OLD MAHABALIPURAM ROAD, KAMARAJ NAGAR, SEMMANCHERI, CHENNAI, TAMIL NADU 600119 -----</p> <p>7)Mr. M.HARIPRABHU Address of Applicant :ASSISTANT PROFESSOR DEPARTMENT OF ELECTRICAL AND ELECTRONICS ENGINEERING M.KUMARASAMY COLLEGE OF ENGINEERING THALAVAPALAYAM, KARUR, TAMILNADU 639113 -----</p>
(51) International classification	:A24F 404850, A61H 030600, G07G 010000, G09B 210000, G10L 130000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	:NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(57) Abstract :

ABSTRACT VOICE BASED PRODUCT RECOGNITION FOR VISUALLY IMPAIRED This invention is developed to make the existence of visually impaired individuals simple. This is a camera-based framework to examine the standardized tag behind the picture and read the depiction of the item with the assistance of ID put away in the scanner tag. This is extremely valuable in the event of figuring out the portrayal of bundled merchandise to the visually impaired individuals and subsequently helping them in choosing to buy an item or not particularly which are bundled. To utilize this framework, the client should simply catch the picture on the item in the cell phone which then, at that point, settle the scanner tag which implies it filters the picture to figure out the Id put away. This is exceptionally simple to utilize and reasonable as it requires a scanner to check the standardized identification and a camera telephone to snap the photo of the picture containing the standardized tag. This is presently simple to carry out as the majority of the cell phones today have the necessary goal all together item depiction

No. of Pages : 22 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031924 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY: EXPLORING DRIVERS, BARRIERS, AND FUTURE DEVELOPMENTS IN MARKETING MANAGEMENT

(51) International classification	:G06F 403000, G06N 200000, G06Q 300200, G08G 050000, H04L 093200	(71) Name of Applicant : 1)Dr. A. Kavitha Address of Applicant :Associate Professor, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu, near Chennai, Tamil Nadu, India. Chengalpattu ----- 2)Dr. Manisha Goswami 3)Dr. Swati Agarwal 4)Dr. Meghana Bhilare 5)Dr. Shikha Dubey 6)Dr. Kali Charan Modak Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72) Name of Inventor : 1)Dr. A. Kavitha Address of Applicant :Associate Professor, Department of Commerce, College of Science and Humanities, SRM Institute of Science and Technology, Kattankulathur, Chengalpattu, near Chennai, Tamil Nadu, India. Chengalpattu ----- 2)Dr. Manisha Goswami Address of Applicant :Assistant Professor, Institute of Business Management, GLA University, Mathura, Uttar Pradesh, India. Mathura ----- 3)Dr. Swati Agarwal Address of Applicant :Assistant Professor, Department of Institute of Business Studies, CCS University, Ramgarhi, Meerut, Uttar Pradesh, India. Ramgarhi ----- 4)Dr. Meghana Bhilare Address of Applicant :Professor, In-charge Director, Department of MBA, Dr. D. Y Patil Institute of Management and Research, SPPU, Pimpri, Pune, Maharashtra, India. Pune ----- 5)Dr. Shikha Dubey Address of Applicant :Professor and HoD, Department of MCA, Dr. D. Y Patil Institute of Management and Research, SPPU, Pimpri, Pune, Maharashtra, India. Pune ----- 6)Dr. Kali Charan Modak Address of Applicant :Associate Professor, IPS Academy, Institute of Business Management and Research, Affiliated to Devi Ahilya University, Indore, Madhya Pradesh, India. Indore ----- -----
(61) Patent of Addition to Application Number	:NA :NA	
(62) Divisional to Application Number	:NA :NA	
Filing Date		

(57) Abstract :

ABSTRACT ARTIFICIAL INTELLIGENCE AND BLOCKCHAIN TECHNOLOGY: EXPLORING DRIVERS, BARRIERS, AND FUTURE DEVELOPMENTS IN MARKETING MANAGEMENT Companies neither fully exploit the potential of Artificial Intelligence (AI), nor that of Machine Learning (ML), its most prominent method. This is true in particular of marketing, where its possible use extends beyond mere segmentation, personalization, and decision-making. We explore the drivers of and barriers to AI and ML in marketing by adopting a dual strategic and behavioural focus, which provides both an inward (AI and ML for marketers) and an outward (AI and ML for customers) perspective. From our mixed-method approach Delphi study, a survey, and two focus groups), we derive several research propositions that address the challenges facing marketing managers and organizations in three distinct domains Culture, Strategy, and Implementation; Decision-Making and Ethics; Customer Management. Our findings contribute to better understanding the human factor behind AI and ML, and aim to stimulate interdisciplinary inquiry across marketing, organizational behaviour, psychology, and ethics.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031931 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR VIRTUAL MACHINE MIGRATION IN A CLOUD COMPUTING ENVIRONMENT

(51) International classification	:G06F 094550, G06F 094800, G06F 095000, H04L 670000, H04L 671097	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India 9000157181 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72) Name of Inventor : 1)K. VENKATA NAGENDRA Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India rndsvcn@svcn.ac.in 9000157181 ----- 2)J. BALA VENKATA SUBRAHMANYAM Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India ----- 3)N. HARISH Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India ----- 4)P. NAGENDRA BABU Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India ----- 5)CHEVURU. VENU Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India ----- 6)CH. SAINATH Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India ----- 7)K. SRIKANTH REDDY Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 India -----
(61) Patent of Addition to Application Number	:NA :NA	
(62) Divisional to Application Filing Date	:NA :NA	
(87) International Publication No	:NA	
Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SYSTEM AND METHOD FOR VIRTUAL MACHINE MIGRATION IN A CLOUD COMPUTING ENVIRONMENT ABSTRACT This invention relates to a system and method for virtual machine migration in a cloud computing environment. The system comprises a migration controller, a destination virtual machine, and a communication network, all of which are configured to transfer virtual machine data from a source virtual machine to the destination virtual machine while maintaining the virtual machine's state. The migration controller determines an optimal migration path for the virtual machine data based on current network conditions and transfers the data over the communication network. The method includes receiving a migration request, determining an optimal migration path, transferring the virtual machine data, and receiving the migrated virtual machine data at the destination virtual machine while maintaining the virtual machine's state. This system and method provide efficient virtual machine migration with minimal downtime and ensure data integrity during migration.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031935 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATED CODE REVIEW AND ANALYSIS USING MACHINE LEARNING

(51) International classification :G06N 030400, G06N 030800, G06N 050000, G06N 070000, G06N 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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Name of Applicant : NA

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(72)Name of Inventor :

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(57) Abstract :

METHOD AND SYSTEM FOR AUTOMATED CODE REVIEW AND ANALYSIS USING MACHINE LEARNING ABSTRACT The present invention relates to a method and system for automated code review and analysis using machine learning. The system includes a source code analyzer that generates a feature set from the source code of a software application to be analyzed, a machine learning model trainer that trains a machine learning model using the feature set and a set of labeled data, a code quality issue detector that applies the trained machine learning model to the source code to identify one or more code quality issues, and a report generator that generates a report that includes information on the identified code quality issues. The method involves receiving source code of a software application, generating a feature set from the source code, training a machine learning model using the feature set and a set of labeled data, applying the trained machine learning model to the source code to identify code quality issues, and generating a report that includes information on the identified issues.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031937 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR EFFICIENT DATA DEDUPLICATION IN A DISTRIBUTED STORAGE SYSTEM

(51) International classification :G06F 030600, G06F 111000, G06F 112000, G06F 161740, H04L 671097
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

METHOD AND SYSTEM FOR EFFICIENT DATA DEDUPLICATION IN A DISTRIBUTED STORAGE SYSTEM ABSTRACT The present invention relates to a method and system for efficient data deduplication in a distributed storage system. The invention includes a hash-based deduplication technique to identify and store only one copy of each unique data block in a storage node, thereby reducing storage space and network traffic. The system includes a plurality of storage nodes, a deduplication module, and a metadata module. The deduplication module is configured to identify duplicate data blocks across the storage nodes, and the metadata module stores metadata that links each unique data block to its corresponding hash value. The system also includes an optimization module to improve the placement of unique data blocks across the storage nodes. The invention provides a cost-effective and scalable solution for data deduplication in distributed storage systems, with improved performance and reduced storage requirements.

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031955 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR SYNTHESIZING SILVER NANOPARTICLES USING LANTANA CAMARA LEAF EXTRACTS

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4)Dr. Shaik Firoz

5)Dr. Podila Naresh

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9)Dr. R. Radha

10)Dr. Guru Prasad Muppala

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(51) International classification :A23L 331600, A61K 333800, A61K 368500, B22F 092400, B82Y 400000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

The present invention provides a method for synthesizing silver nanoparticles using the leaf extracts of Lantana camara. The method involves the collection and preparation of fresh leaves, followed by their bioreduction with silver nitrate to synthesize silver nanoparticles. The synthesized nanoparticles can be characterized using various techniques and can be used as a bactericidal agent in medical and industrial applications. The method is simple, cost-effective, and eco-friendly, making it suitable for large-scale production of silver nanoparticles.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031956 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COMPUTER-IMPLEMENTED METHOD FOR TRAINING AND TESTING A DEEP WASSERSTEIN GENERATIVE ADVERSARIAL NETWORK

(51) International classification	:G06N 030400, G06N 030800, G06N 050400, G06N 200000, H02J 130000	(71) Name of Applicant : 1)Kavitha G Address of Applicant :W/o. C. T. Jagannatha, Assistant Professor, Department of Computer Science and Engineering, University BDT College of Engineering, Hadadi Road, Davangere – 577004, Karnataka, India. Davanagere -----
(86) International Application No	:PCT//	2)Dr. Chetana Prakash
Filing Date	:01/01/1900	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Kavitha G Address of Applicant :W/o. C. T. Jagannatha, Assistant Professor, Department of Computer Science and Engineering, University BDT College of Engineering, Hadadi Road, Davangere – 577004, Karnataka, India. Davanagere -----
Filing Date	:NA	2)Dr. Chetana Prakash Address of Applicant :W/o. Prakash, Professor, Department of Computer Science and Engineering, Bapuji Institute of Engineering, Davanagere - 577004, Karnataka, India. Davanagere -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention describes a computer-implemented method for training and testing a Deep Wasserstein Generative Adversarial Network (GAN) for image denoising. The Deep Wasserstein GAN algorithm is a popular variant of GANs that has been shown to produce high-quality and stable results. The proposed method employs a two-phase approach for training and testing the model, with the Deep Wasserstein GAN learning the method to obtain noiseless images from noisy images. Once the training phase is completed, the trained model is saved and employed for testing purposes. The quality of the generated noiseless images is measured using Peak Signal to Noise Ratio (PSNR) and Structural Similarity Index Measure (SSIM) performance metrics.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031958 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR REAPING BIOENERGY USING METAL MIXED BIOCHAR ELECTRODES

(51) International classification :B01J 202000, B01J 237450, C01G 530000, C12N 094200, H01L 334200
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present work proposes a method for reaping bioenergy using anode electrodes for lithium-ion batteries using coconut shell waste-based biochar as a starting material. The coconut shell waste is collected from a dumping yard and carbonized at a high temperature of 500°C, with a rise rate of 10°C min-1 and a residence time of 60 minutes. The resulting biochar is mixed with metal compounds such as silicon, zinc, and copper in a 1:5 ratio and filled with casting epoxy resin. The electrodes are cured using a hardener and casting epoxy resin in a 2:1 ratio for 24 hours under atmospheric conditions. The physical and electrochemical properties of the synthesized anode electrodes are evaluated and compared to those of graphite electrodes. The results demonstrate that coconut shell waste-based biochar is a promising alternative to graphite for the synthesis of anode electrodes in lithium-ion batteries, with low cost and environmentally friendly features.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/05/2023

(21) Application No.202341031959 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IMPLEMENTATION OF A SYSTEMATIC FRAMEWORK FOR ANALYZING THE IMPACT OF THE ENGLISH LANGUAGE ON POLITICS AND ECONOMIC THEORY

(51) International classification	:C05G 038000, G06F 404000, G09B 190600, H04N 010000, H04N 214500	(71) Name of Applicant :
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(61) Patent of Addition to Application Number	:NA	4)Dr.I.LILAVARASI
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(57) Abstract :

Implementation of a systematic framework for analyzing the impact of the English language on politics and economic theory is the proposed invention. The invention aims at analyzing the impact of English language on politics using the systematic approach. The proposed invention also involves studied about economic theory and correlation to English language.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031964 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Large Scale Production of Virgin Coconut Oil by Heat Extraction Method using White Bell Metal Vessel (White Bronze Vessel)

(51) International classification	:A23L 331050, A61K 368890, F25B 091400, G02B 190000, H04L 090800	(71) Name of Applicant : 1)Dhanesh. T Address of Applicant :41/4398,Thamarakulam, Thali,Chalappuram S.O (PO), Kozhikode, Kerala-673002 ----- -----
(86) International Application No	:PCT//	2)Geetha. N.T
Filing Date	:01/01/1900	Name of Applicant : NA
(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Dhanesh. T Address of Applicant :41/4398,Thamarakulam, Thali,Chalappuram S.O (PO), Kozhikode, Kerala-673002 ----- -----
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Filing Date	:NA	

(57) Abstract :

ABSTRACT Large Scale Production of Virgin Coconut Oil by Heat Extraction Method using White Bell Metal Vessel (White Bronze Vessel) The present invention relates to a method for manufacturing virgin coconut oil comprising steps of heating coconut milk at a temperature range of 75-125 °C and at normal atmospheric pressure in a white bronze vessel, whereby the virgin coconut oil gets separated, and filtering out the virgin coconut oil. After that discontinuing the heating on attaining sandy like crispiness and fragrance by sediments of coconut and filtering out the virgin coconut oil. Then cooling of the coconut sediments at the room temperature and hydraulically pressing to obtain the remaining oil in the sediments. The white bronze vessel has a circular circumference, such that the diameter of the circumference varies across a height of the vessel, and the ratio of the height of the vessel to the circumference of the vessel varies between 2 to 4.The virgin coconut oil is characterized by zero peroxide value, 0.46 acidic value and saponification value of 278.97. The virgin coconut oil is characterized by the IC50 value of polyphenolic extract of the prepared virgin coconut oil. The antioxidant activity of polyphenolic extract is higher than that of commercially available cold extracted virgin coconut oil. Fig. 1

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031975 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IoT-driven Deep Learning Technique for Biometric Authentication Using ECG

(51) International classification :A61B 050000, G06F 213200, G06N 030400, G06N 030800, G06Q 204000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to Application Number :NA
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(62) Divisional to Application Number :NA
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(57) Abstract :

Just as fingerprints are unique for everyone, so too are electrocardiograms (ECGs) in terms of their rhythm and form. Electrocardiogram (ECG) biometric systems are notoriously difficult to clone or hack. Therefore, electrocardiogram signals have been implemented in several secure biometric recognition systems. Problems with (i) signal noise, (ii) automatic feature extraction, and (iii) system performance are highlighted throughout the existing research. This work proposes a deep learning (DL) method based on matching templates to music to address issues that have so far defied conventional approaches. In the pre-processing stage of the proposed method, beat denoising, R-peak detection, and segmentation of the electrocardiogram (ECG) are performed. The suggested deep learning method is applied to grayscale images of these noise-free ECG beats. For the deep learning network to converge more quickly, a tailored activation function is also constructed in this work. Automatic feature extraction is a strength of the proposed network. The efficacy of the network is evaluated using the free biometric database ECGID.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031997 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR PREDICTION OF SHELF-LIFE PERIOD AND EDIBILITY OF BREAD USING ARTIFICIAL INTELLIGENCE ENABLED SOLUTION

(51) International classification	:A21D 023600, A21D 080400, A21D 080600, G06N 050200, G06N 050400	(71) Name of Applicant : 1)Dr. D. S. GURU Address of Applicant :Professor, Department of Studies in Computer Science, University of Mysore, Manasagangotri, Mysore, Karnataka–570006, India Mysuru -----
(86) International Application No	:PCT//	2)Dr. KAVITHA R
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

“METHOD FOR PREDICTION OF SHELF-LIFE PERIOD AND EDIBILITY OF BREAD USING ARTIFICIAL INTELLIGENCE ENABLED SOLUTION” Accordingly, embodiments herein disclose a method for prediction of shelf-life period and edibility of bread using artificial intelligence (AI) enabled solution, comprising the steps of: receiving input images from a bread dataset. Further, the proposed method may involve pre-processing the received input images from the bread dataset, and characterizing a texture for the pre-processed input images. The texture analysis method is to identify and select a set of relevant texture features. The texture-based features help in inspecting the hard texture and mold formation which are the two conditions that can be used to check for edibility through appearance, LBP feature extraction is recommended to be extracted as the features. Furthermore, the proposed method may involve building a classifier model and predicting the edibility of the bread using the extracted features. Figure to be published with Abstract: Figure 1 Dated this 10th day of April, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341031998 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MOBILE BACK COVER WITH THIN FILM SOLAR PV CELL

(51) International classification :G02F 011333, H01L 310224, H01L 310320, H01L 310392, H01L 311800
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

“MOBILE BACK COVER WITH THIN FILM SOLAR PV CELL” Accordingly, embodiments herein disclose an electronic device i.e., mobile phone, comprising of: a back cover of mobile phone with a thin film solar PV cell. Further, the proposed device may include a tiny charger wire which is configured to attach a solar panel at the bottom of the panel, and a charger pin which is configured to attach another side of the wire. When the mobile battery is low, the charger pin is to be inserted into a socket and the back side of the mobile cover is to be focused to any source of light, thereby charging the mobile battery. The upper side of the thin film solar panel is covered by a layer of PVC polymer layer and the downside of the panel is open to light source through transparent mobile casing. Figure to be published with Abstract: Figure 1 Dated this 10th day of April, 2023 POOJA AGENT FOR THE APPLICANT IN/PA/1838

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032022 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE-BASED INTRUSION DETECTION AND PREVENTION SYSTEM

(51) International classification :A61K 390000, C07K 161000, C12N 050783, G06F 215500, G08B 132400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ARTIFICIAL INTELLIGENCE-BASED INTRUSION DETECTION AND PREVENTION SYSTEM ABSTRACT The artificial intelligence-based intrusion detection and prevention system is a network security solution that employs artificial intelligence (AI) algorithms to detect and prevent network intrusions. The system collects network traffic data and analyzes it using machine learning or deep learning algorithms to detect anomalous patterns that may indicate an intrusion attempt. The system can then prevent the intrusion by blocking or redirecting the network traffic. The system provides a user interface that displays detected anomalies and allows for configuration of the detection and prevention capabilities. The system provides a reliable and efficient solution for detecting and preventing network intrusions, addressing the challenges of accuracy, scalability, and real-time detection.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032023 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 3D PRINTING SYSTEM WITH IMPROVED PRINTING SPEED AND PRECISION

(51) International classification	:B29C 643930, B33Y 300000, B33Y 500200, C09D 110300, G06F 031200	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	(72) Name of Inventor : 1)SHAIK MOHAMMED SHAFEE Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 2)VALLURU VARUN KUMAR Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 3)MALLELA MERCY LYDIA Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 4)MUPPIRALA RAMA SRINIVASA SUBRAHMANYAM Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 5)SHAIK ZAKIR HUSSAIN Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

3D PRINTING SYSTEM WITH IMPROVED PRINTING SPEED AND PRECISION ABSTRACT The invention relates to a 3D printing system with improved printing speed and precision. The system comprises a print head, a build platform, and a control unit, and is characterized by a novel print head design and optimized printing parameters. The print head design includes a multi-nozzle array that enables simultaneous deposition of multiple layers, thereby reducing printing time and increasing printing speed. The optimized printing parameters include a layer thickness that is selected based on the resolution of the printing material, and a printing speed that is optimized based on the characteristics of the printing material. The control unit monitors the printing process and adjusts the printing parameters in real-time to ensure consistent printing quality and precision. The invention also provides a method for 3D printing using the improved system, and 3D printed objects produced by the method that exhibit improved printing speed and precision.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032024 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTI-MATERIAL 3D PRINTING SYSTEM FOR PRINTING COMPLEX STRUCTURES AND FUNCTIONAL PARTS

(51) International classification	:A61B 170000, B29C 451600, B33Y 100000, B33Y 300000, G06F 031200	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	(72) Name of Inventor : 1)SOMISETTY SRINIVASA RAVISANKAR Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 2)VALLURU ABHINAY Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 3)AMARA BHARGAV Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 ----- 4)BANAVATH HARITHA BAI Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PIN- 524316 -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

MULTI-MATERIAL 3D PRINTING SYSTEM FOR PRINTING COMPLEX STRUCTURES AND FUNCTIONAL PARTS

ABSTRACT The invention is a multi-material 3D printing system and method that allows for the printing of complex structures and functional parts with improved structural integrity. The system comprises a print head with multiple extruders, each extruder being capable of extruding a different material. The extruders are coordinated by a control unit that follows a predetermined printing pattern to produce the desired multi-material printed object. The system also includes a print bed with multiple zones, each zone being capable of maintaining a different temperature and humidity level, which improves the bonding between materials and further enhances the structural integrity of the printed object. The invention enables the creation of complex and functional 3D printed objects that were previously difficult or impossible to produce using traditional 3D printing methods

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032029 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEEP LEARNING BASED SENSITIVITY ANALYSIS OF ELECTRIC ENERGY CONSUMPTION IN BATTERY ELECTRIC VEHICLES WITH DIFFERENT ELECTRIC MOTORS

(51) International classification	:B60L 538000, G01R 313400, G06F 216200, G06N 030400, G06N 030800	(71)Name of Applicant :
(86) International Application No Filing Date	:PCT// :01/01/1900	1) MAMATHA B Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE (AI & ML), CMR TECHNICAL CAMPUS HYDERABAD 501401. MEDCHAL ----- 2) DIVYASHREE H S 3) SHREEDEVI PRAMOD 4) MANJULA K B 5) MAMATHA M 6) CHAITHRASHREE.A 7) NAZIA NUSRATH UL AIN 8) J BHARATHI 9) MAMATHA N. P 10) PADMAVATHI H G
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(61) Patent of Addition to Application Number Filing Date	:NA :NA :NA	(72)Name of Inventor : 1) MAMATHA B Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE (AI & ML), CMR TECHNICAL CAMPUS HYDERABAD 501401. MEDCHAL ----- 2) DIVYASHREE H S Address of Applicant :ASSOCIATE PROFESSOR (HOD), DEPT OF ISE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 3) SHREEDEVI PRAMOD Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 4) MANJULA K B Address of Applicant :ASSISTANT PROFESSOR, DEPT OF ECE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 5) MAMATHA M Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 6) CHAITHRASHREE.A Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 7) NAZIA NUSRATH UL AIN Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF ISE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 8) J BHARATHI Address of Applicant :ASSISTANT PROFESSOR, DEPT OF CSE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 9) MAMATHA N. P Address of Applicant :ASSISTANT PROFESSOR, DEPT OF ECE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU ----- 10) PADMAVATHI H G Address of Applicant :ASSOCIATE PROFESSOR, DEPT OF CSE, BRINDAVAN COLLEGE OF ENGINEERING, BENGALURU,560063 BENGALURU -----
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Deep Learning based sensitivity analysis of Electric Energy Consumption in battery electric vehicles with different electric motors is the proposed invention. The invention focuses on implementing the Deep Learning based algorithms for sensitivity analysis of electric energy consumption. The present invention aims at studying the battery life in Electric Vehicle with different electric motors.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032062 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Analysis & Synthesis Gadget Through DNA Micro-Injection for Elephas maximus

(51) International classification :A01K 670270, A61M 053150, B01L 030000, B29C 450000, G01N 350000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The frozen woolly mammoth which was discovered at lyuba in Siberia was a female calf just 30 to 35 days old when it died drowning in a muddy river and the reason her body is so preserved is because of lactic acid producing bacteria had colonized her body making the body pretty unappetizing to scavengers, another reason may be the sheer cold of Siberia, when Russian and Japanese scientist took extensive tests, they found her DNA moderately fragmented. We can make an almost identical copy of a woolly mammoth by fusing the DNA of the lyuba mammoth into a fertilized egg of the closest relative to the mammoth, which is the Asian elephant (Elephas maximus). It is almost identical because even though it still contains the DNA of the woolly mammoth there will be a lot of similar traits to the copy of the mammoth there will still remain a little bit of Asian elephant characteristics. We can inject the DNA into the egg via DNA microinjection. Vertebrate genome sequencing projects have thus far assembled data from at least 28 species, including chromosomal assemblies of six placental mammals

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032074 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WI-FI-ENABLED ANTI-THEFT SYSTEM WITH BIOMETRIC AUTHENTICATION IN FUEL-FILLING STATIONS

(51) International classification :B60R 250400, G06F 213200, G07C 093700, H04W 120600, H05B 471950
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention provides a Wi-Fi-enabled anti-theft system with biometric authentication in fuel-filling stations. The conventional manual filling method has a number of flaws, including theft of petrol/diesel spillage of fluid while filling vehicles at petrol filling stations. The possibility of an uneven amount of fluid being filled, and delays due to human activities. Among all these fuel thefts makes a major loss to the owner of the petrol filling station, bunk in India. This proposed method is aimed at solving the issues that small-scale fluid-filling systems confront in order to ensure a smooth process. Unauthorized drawing of petrol from the storage tank will be continuously monitored from anywhere through a web page in our suggested system. Systems are frequently regulated automatically, resulting in smart automation. It's a simple, secure, and compact system.

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032101 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : QUANTUM COMPUTING ARCHITECTURE FOR EFFICIENT COMPUTATION OF QUANTUM ALGORITHMS

(51) International classification	:B82Y 100000, G06N 100000, G10L 152200, H04B 070600, H04L 093200	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)T SUBRAHMANYAM Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
Filing Date	:NA	2)Y SUPRIYA Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
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Filing Date	:NA	

(57) Abstract :

QUANTUM COMPUTING ARCHITECTURE FOR EFFICIENT COMPUTATION OF QUANTUM ALGORITHMS ABSTRACT
The invention relates to a quantum computing architecture for efficient computation of quantum algorithms. The architecture comprises a two-dimensional lattice of qubits connected by a coupling network, a control circuit to manipulate the qubits, and a measurement circuit to measure their states. The qubits are arranged in a square lattice and cooled to a low temperature to maintain their coherence. The architecture also includes a quantum error correction circuit to detect and correct errors in the qubits. The method for efficient computation of quantum algorithms using this architecture involves initializing the qubits to a predetermined state, applying quantum gate operations to the qubits, measuring their state, and repeating the process until a desired result is obtained. The invention provides a scalable and fault-tolerant quantum computing architecture that can be used for various quantum computing applications.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032114 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WIRELESS POWER TRANSFER USING RESONANT INDUCTIVE COUPLING

(51) International classification	:H02J 070200, H02J 501200, H02J 504000, H02J 508000, H04B 050000	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 9000157181 -----
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor :
(87) International Publication No	: NA	1)V.Anil Kumar Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
(61) Patent of Addition to Application Number	:NA	2)K. Ratna Jyothy Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
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(62) Divisional to Application Number	:NA	4)Y. V. Niranjan Kumar Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
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(57) Abstract :

WIRELESS POWER TRANSFER USING RESONANT INDUCTIVE COUPLING ABSTRACT The present invention relates to a wireless power transfer system that uses resonant inductive coupling to wirelessly transfer power from a transmitting unit to a receiving unit. The system includes resonant inductive coupling circuits with tuned resonant frequencies, which enable efficient wireless power transfer between the two units. The receiving unit also includes a resonant inductive coupling circuit that receives power wirelessly from the transmitting unit. The system can be used in various applications, including charging electronic devices and powering remote sensors. The invention provides a convenient and efficient method for wirelessly transferring power, which can eliminate the need for wires and cables.

No. of Pages : 12 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032115 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART GRID SYSTEM FOR EFFICIENT POWER DISTRIBUTION AND MANAGEMENT

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(51) International classification	:G05B 150200, G06Q 100800, G06Q 500600, H02J 011000, H02J 130000	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SMART GRID SYSTEM FOR EFFICIENT POWER DISTRIBUTION AND MANAGEMENT ABSTRACT The present invention relates to a smart grid system for efficient power distribution and management. The system comprises a network of sensors for collecting data on power consumption and distribution, a central control unit for analyzing the data and making real-time decisions about power distribution, and a communication system for transmitting the decisions to power distribution equipment. The system can optimize power distribution in real-time using artificial intelligence algorithms and remotely controlled power distribution equipment. The invention provides a more efficient and reliable power distribution system, resulting in cost savings and reduced energy consumption.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032121 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ULTRA-HIGH-SPEED DATA TRANSMISSION USING TERAHERTZ WAVES

(51) International classification	:G01N 213563, G01N 213581, G01N 213586, H03B 070800, H04B 106100	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 9000157181 ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ULTRA-HIGH-SPEED DATA TRANSMISSION USING TERAHERTZ WAVES ABSTRACT The present invention relates to ultra-high-speed data transmission using terahertz waves. The invention provides a method, system, and computer-readable storage medium for generating and modulating a terahertz signal with a carrier frequency greater than 100 GHz to transmit data at a data rate greater than 100 Gbps. The invention also provides a method for controlling interference between multiple terahertz signals and a method for securing data transmission using encryption. The use of terahertz waves enables high-bandwidth data transfer for applications such as wireless communication, data centers, and high-speed networks. The invention can improve the efficiency and speed of data transmission, while also providing enhanced security measures for data privacy and protection.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032124 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING SMART ELECTRONIC SKIN FOR ROBOTICS AND PROSTHETICS

(51) International classification :A61B 050205, A61F 027600, B29L 310000, G06F 030100, G06F 030354
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

METHOD AND SYSTEM FOR PROVIDING SMART ELECTRONIC SKIN FOR ROBOTICS AND PROSTHETICS ABSTRACT
The present invention relates to a method and system for providing smart electronic skin for robotics and prosthetics. The electronic skin comprises a plurality of sensors configured to detect one or more environmental parameters, and a processing unit configured to receive sensor data and to determine environmental information about a surrounding environment. The system further includes a memory unit for storing data related to the environmental information, and a communication unit for outputting a control signal to one or more robotic or prosthetic components based on the environmental information. The electronic skin may be made of a flexible, stretchable, or conformal material that is able to conform to a surface of a robot or prosthetic device.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/05/2023

(21) Application No.202341032126 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN INTELLIGENT CONTROL SYSTEM FOR HOME APPLIANCES USING IOT TECHNOLOGY

(51) International classification	:G05B 130200, H04N 070880, H04N 214100, H04N 214350, H04N 214720	(71) Name of Applicant : 1)SREE VENKATESWARA COLLEGE OF ENGINEERING Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH, PINCODE- 524316 9000157181 -----
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor : 1)DAGGUMATI RAJANI Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
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(61) Patent of Addition to Application Number	:NA	3)N.KESAV KUMAR Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
Filing Date	:NA	4)PULLAGURA BHARGAVI Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
(62) Divisional to Application Number	:NA	5)KOLAMALA SUMATHI Address of Applicant :SREE VENKATESWARA COLLEGE OF ENGINEERING, NORTHRAJUPALEM, NELLORE, ANDHRA PRADESH,PINCODE- 524316 -----
Filing Date	:NA	

(57) Abstract :

AN INTELLIGENT CONTROL SYSTEM FOR HOME APPLIANCES USING IOT TECHNOLOGY ABSTRACT The present invention is an intelligent control system for home appliances that utilizes IoT technology to provide real-time feedback and control signals to smart appliances in a user's home. The system comprises a central processing unit that is connected to a plurality of smart appliances via an IoT network. The central processing unit receives data from the smart appliances and provides real-time feedback and control signals based on the received data. The system can analyze the received data to provide recommendations for energy savings and increased efficiency to the user, as well as learn user preferences and adapt its control signals and recommendations accordingly. The system also provides alerts to the user or system administrator in case of malfunctions or anomalies in the smart appliances.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032192 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Design system of IoT-based Fire Damage Assessment of Reinforced Concrete Structures Using AI

(51) International classification	:C04B 280400, E04G 230200, G01N 333800, G06Q 400800, G06Q 501000	(71) Name of Applicant : 1)Dr. Aby K Thomas, Alliance University Address of Applicant :Professor, Department of Electronics and Communication Engineering, Alliance College of Engineering and Design, Alliance University, Bangalore - 562106 Karnataka, India. Bangalore ----- 2)Mr. Pradeep R, SNS College of Engineering 3)Ms. S. Jayashree, SNS College of Technology 4)Mr.D.Selvapandian, Karpagam Academy of Higher Education Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
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(87) International Publication No	: NA	(72) Name of Inventor : 1)Dr. Aby K Thomas, Alliance University Address of Applicant :Professor, Department of Electronics and Communication Engineering, Alliance College of Engineering and Design, Alliance University, Bangalore - 562106 Karnataka, India. Bangalore ----- 2)Mr. Pradeep R, SNS College of Engineering Address of Applicant :Assistant Professor, Department of Electrical and Electronics Engineering, SNS College of Engineering, Coimbatore – 641 107. Tamil Nadu, India Coimbatore ----- 3)Ms. S. Jayashree, SNS College of Technology Address of Applicant :Assistant professor, Department of Electrical and Electronics Engineering, SNS College of Technology, Coimbatore – 641035 Tamil Nadu, India Coimbatore ----- 4)Mr.D.Selvapandian, Karpagam Academy of Higher Education Address of Applicant :Assistant Professor, Department of computer Science and Engineering, Karpagam Academy of Higher Education, Coimbatore- 641021. Tamil Nadu, India Coimbatore -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Rapid progress in computer vision has opened up new opportunities for autonomous damage assessment of buildings. The purpose of this research is to create a self-sufficient system for detecting damage to concrete buildings caused by fire using techniques from deep learning. We present a hybrid deep learning network that combines a Convolution Neural Network (CNN) with a Long Short Term Memory (LSTM) network. Damage detection and classification are handled by the LSTM once the CNN has been employed in the feature extraction phase. Next, we subject three varieties of self-compacting concrete (SCC) specimens to standard fire conditions and use the proposed hybrid network to assess the resulting structural damage. To find the sweet spot for the network's design and hyper-parameters, researchers conduct a battery of rigorous experiments. On real-world datasets, the proposed hybrid approach is evaluated in comparison to standard CNN techniques. Our research demonstrates that the suggested framework outperforms more conventional deep learning techniques while maintaining high levels of robustness. The suggested architecture, in its entirety, paves the way for the widespread use of autonomous damage-detecting systems in the aftermath of fires.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032195 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Innovative Method for Linearization and Calibration of Thermistor

(51) International classification :B01J 370200, G01K 072200, G01K 150000, G06F 405300, H03F 013200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA :NA
Filing Date :NA
(62) Divisional to Application Number :NA :NA
Filing Date

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Address of Applicant :Associate Professor, Department of Electrical and Electronics Engineering, Sree Shastha Institute of Engineering & Technology, Chembarambakkam, Chennai, Tamil Nadu, 600069, India Chennai -----

(57) Abstract :

Negative Temperature coefficient (NTC) thermistor has a huge amount of nonlinearity. In this proposed invention, special calibration procedure is proposed to linearize the thermistor without any external signal conditioning circuit or complex methods like Artificial Intelligence or Look up Tables (LUT). Mitigation of signal conditioning circuits will reduce the complexity in the use of thermistor. Mathematically, the measured temperature can be made equal to $Q/\ln(\frac{V}{I})^N$. Where Q and N are constants. V(T) is the voltage drop across the thermistor at given temperature T and for a constant current I. The values of N cannot be found by conventional calibration. In this work, a procedure to find Q and N is proposed that gives a linear relation between measured value and output. Hence, many complex methods of finding linear relationship between measured value and output is simplified.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032202 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DATA INTEGRITY WITH RECONSTRUCTIVE ERROR DATA USING ERASURE CODE AND TPA MANAGEMENT SYSTEM

(51) International classification	:A61K 384900, G06F 111000, H03M 133700, H04L 010000, H04L 012000	(71)Name of Applicant :
(86) International Application No	:PCT//	1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
Filing Date	:01/01/1900	Address of Applicant :MEDAVAKKAM-MAMBAKKAM ROAD PONMAR Chennai Chennai -----
(87) International Publication No	: NA	2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(61) Patent of Addition to Application Number	:NA	3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE
Filing Date	:NA	4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE
(62) Divisional to Application Number	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
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(57) Abstract :

The Project entitled Implementation of Data Integrity with Reconstructive Error Data using Erasure code and TPA management system emphasize that error data is reconstructed using erasure code technique. The data uploaded in to the drop box is divided into smaller parts. Each smaller part is encrypted and stored in separate servers. Each part is assigned with hash value and these values are stored in database. This entire cloud server will have replica servers. If any part of is corrupted then it can be retrieved from corresponding replica cloud server. Erasure code technique is used to perform xor operation between two parts and the result of this part is again xor-ed with another part and the result is stored in separate server named as xor server. Third party auditor (TPA) is used to generate hash value for each part and verifies each part using hash value which is already generated and stored in database. If the hash values are mismatched then data is said to be corrupted this will be intimated to user through mail.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032203 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INCREASING ACCURACY AND SECURE TRACKING OF HUMAN MOBILITY IN GLOCAL

(51) International classification	:G01S 050200, G01S 136600, G06F 030100, G06F 087100, G06K 071000	(71)Name of Applicant :
(86) International Application No	:PCT//	1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE
Filing Date	:01/01/1900	Address of Applicant :MEDAVAKKAM-MAMBAKKAM ROAD PONMAR Chennai Chennai -----
(87) International Publication No	: NA	2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY
(61) Patent of Addition to Application Number	:NA	3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE
Filing Date	:NA	4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE
(62) Divisional to Application Number	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant :NA
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(57) Abstract :

Global Positioning System is used in many devices which used to navigate the correct route to the user. It allows management at a small scale without sacrificing efficiency gained from owning large equipment. GPS is widely used in industries such as navigation, aviation, surveying tracking and location sharing. Due to advancement of technology, now a day we can see GPS in everyone's pocket. GPS is now present in mobile applications such as geotagging, geocaching and location based social networks. GPS accuracy was affected by satellite signals blockage caused by mountains and large buildings, weather forecasting etc. We proposed a system named called GLOCAL (Globally and locally) in order to give more accuracy than GPS. GLOCAL uses mobile phones and no infrastructure or additional information is needed. GLOCAL can be used as an effective and light weight augmentation. By using GLOCAL Coordinates, we can give more accuracy and secure tracking of user's mobility. We also implemented locking and unlocking system in order to provide security if any misbehavior of the employee is happen.

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032204 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Water Quality from Mobile Captured and Google Earth Images

(51) International classification	:C02F 010000, G01N 331800, G10L 192600, G10L 210364, H04W 720400	(71) Name of Applicant : 1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE Address of Applicant :MEDAVAKKAM-MAMBakkAM ROAD PONMAR Chennai Chennai ----- 2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY 3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE 4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72) Name of Inventor : 1)Prof. M. Divya Bharathi Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- -----
(87) International Publication No:	NA	2)Ms. A. Kiruthika Address of Applicant :Department of Information Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- -----
(61) Patent of Addition to Application Number	:NA	3)Ms. R. Sara Address of Applicant :Department of Information Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- -----
(62) Divisional to Application Number	:NA	4)Mr. P. Jayaram Sakthi Address of Applicant :Department of Information Technology, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- -----
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(57) Abstract :

Monitoring and sensor systems are changing towards giving citizens the opportunity to gather, interpret, and exchange environmental data as society becomes more environmentally conscious and informed. Due to their widespread use, cell phones are the best instrument for this task in terms of water quality monitoring. This can be done by creating and utilizing smart phone applications (APPs). This thesis focuses on the potential of smart phones using APPs to evaluate water quality factors like color, turbidity, and the concentration of suspended particle materials ([SPM]). This was achieved by reviewing the Hydro Color and Ctclops smart phone applications. The RGB channels of the images captured by the smart phone camera are used by both APPs. The two APPs, however, employ various transfer mechanisms (color spaces) to assess the many aspects of water quality. The Hydro Color APP converts remote sensing reflectance, Rrs (RGB), from smart phone photographs of a grey card, sky, and water surface using the RGB channels. The Rrs (RGB) is used to calculate [SPM] and estimate turbidity using specified models. To index the color of the water image as a Forel-Ule index, the Ctclops APP converts the RGB channels of a smart phone water surface image to xyz chromaticity coordinates (FUI). The Rrs (RGB) and xyz chromaticity coordinates produced from smart phone photos were calibrated and validated using field measurements made with hyper spectral sensors. Estimates of turbidity and [SPM] using smart phone photos were also validated using the outcomes of laboratory investigation of relevant areas' turbidity and [SPM]. The photographs from smart phones using the APPs' models.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032205 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SPEED CONTROL OF SUGARCANE CUTTING MACHINE

<p>(51) International classification :A01D 451000, B23K 263800, B23K 267000, B26D 070200, F02D 31000</p> <p>(86) International Application No :PCT// Filing Date :01/01/1900</p> <p>(87) International Publication No: NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71) Name of Applicant : 1)PRINCE SHRI VENKATESHWARA PADMAVATHY ENGINEERING COLLEGE Address of Applicant :MEDAVAKKAM-MAMBAKKAM ROAD PONMAR Chennai Chennai ----- 2)PRINCE DR K VASUDEVAN COLLEGE OF ENGINEERING AND TECHNOLOGY 3)PRINCE SHRI BALAJI ARTS AND SCIENCE COLLEGE 4)PRINCE SHRI VENKATESHWARA ARTS AND SCIENCE COLLEGE Name of Applicant : NA Address of Applicant : NA</p> <p>(72) Name of Inventor : 1)Prof.G.Sathi Address of Applicant :Assistant Professor, Department of Mechanical Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam - Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 2)A.Dhivyadharshini Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 3)Kodandam Seshadri Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 4)K.Marisamy Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 5)S.Sruthi Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 6)Kollu Dolaknath Chakri Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai ----- 7)A.Yogeshraj Address of Applicant :Department of Computer Science and Engineering, Prince Shri Venkateshwara Padmavathy Engineering College, Medavakkam-Mambakkam Road, Ponmar, Chennai-600127. Chennai -----</p>
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(57) Abstract :

This research paper helps to design and fabricate small scale sugarcane cutting machine for sugarcane harvesting to reduce farmer's effort and to increase production of agricultural goods. Compared to manual harvesting this machine has a capacity to cut canes in faster rate. It is economical. This paper helps in laying design foundation for any aspiring user to fabricate a machine for application in their farms. It helps improve economic growth of the nation. Keywords: sugarcane cutting machine, design and fabrication of mini sugarcane cutting machine, force analysis of sugarcane, reduce harvesting time. The design of this machine is very simple also easy to implement. In this manner we are designing the Sugarcane Cutting Machine to reduce effort and time. In sugar cane farms we are using this machine for cutting purpose. This is user friendly cutting machine; anyone can handle this machine in any working condition. Skilled persons aren't required for operating this machine. We are using this sugarcane cutting machine for Speed controlling. We can do it both manually and digitally. In digital we can operate through other device like mobile phones through coding. The node MCU provides wifi connection through which it helps our project to do digitally.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/05/2023

(21) Application No.202341032216 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Ultra-Wide Band Lotus Leaf Shaped Antenna with Rectangular Defect in Ground for Wireless Applications

(51) International classification	:A61K 366200, H01Q 012400, H01Q 094200, H04L 010000, H04L 670400	(71) Name of Applicant : 1)Pudi Sree Lakshmi Address of Applicant :Research Scholar, Department of Nano Electronics Materials and Sensors, Saveetha University, Chennai, Tamilnadu, India. Associate Professor, Department of ECE, AUDISANKARA INSTITUTE OF TECHNOLOGY NH - 5 Bypass Road, Aravinda Nagar, Gudur - 524101, Nellore Dist.,A.P., India. -----
(86) International Application No Filing Date	:PCT// :01/01/1900	2)A DEEPAK 3)SURESH KUMAR MUTHUVEL 4)VADAMALA PURANDHAR REDDY 5)Dr. T VENUMADHAV 6)NELLIPUDI PRAVALLIKA 7)PETA PARDHU 8)KAMBHAM SASI 9)JALADANKI ANIL 10)UPPU.CHANDU 11)MALARAJU INDU Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor : 1)Pudi Sree Lakshmi Address of Applicant :Research Scholar, Department of Nano Electronics Materials and Sensors, Saveetha University, Chennai, Tamilnadu, India. Associate Professor, Department of ECE, AUDISANKARA INSTITUTE OF TECHNOLOGY NH - 5 Bypass Road, Aravinda Nagar, Gudur - 524101, Nellore Dist.,A.P., India. -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	2)A DEEPAK Address of Applicant :Saveetha Institute of Medical and Technical Sciences, Saveetha Nagar, Thandalam, Kanchipuram - Chennai Rd, Chennai, Tamil Nadu 602105 chennai ----- 3)SURESH KUMAR MUTHUVEL Address of Applicant :Faculty, Department of Nano Electronics Materials and Sensors, Saveetha School of Engineering, Saveetha Nagar, Thandalam, Kanchipuram - Chennai Rd, Chennai, Tamil Nadu 602105 chennai -----
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(57) Abstract :

The RF front end system in the mobile communication system consists of antenna, filter amplifier section. Now a day there is a need to reduce the size of this RF front-end system. Here the challenge is that, the reduction in size without degrading the performance. One way to reduce size in the RF front end system is by reducing the size or area of the antenna with any shape. One way is taking Bio-inspired shape such as leaf, tree, animal, or insects shapes are taken as reference in the design of microstrip antennas are called as Bio inspired microstrip patch antenna (BIMS). These designs are based one of perturbation method, Gielis super formula, and modified polar transformation models. In this work, In this work a two element non uniform lotus leaf shaped antenna is designed and simulated based on perturbation method These proposed BIMS antenna is used fiberglass laminate (FR4) as substrate with a dielectric constant of $\epsilon_r = 4.4$, and a loss tangent of 0.02. The simulation results show the important parameters of the antenna such as reflection coefficients (S11), gain, and radiation patterns. They offer a maximum gain, and their results are assessed by changing substrate. These antennas are less in size so they occupy less area compared to conventional rectangular or circular patch antenna which radiates in L and S bands.

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2023

(21) Application No.202341032271 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CASH WITHDRAWAL USING QR CODE FROM THE MOBILE PHONE IN ATM MACHINE

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(51) International classification	:G06F 094401, G06Q 201000, G06Q 203200, G07F 190000, H04J 131600	
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A QR code is a virtual database in the form of a simple icon that can be recognized by the camera of a mobile phone or tablet and contains about 4,200 characters. QR (Quick Response) stands for Quick Response. It is worth noting that one of the types of digital money transfer is sending and receiving money by scanning a QR line. Instead of buying goods in stores and paying the value of the goods in cash, we can scan the QR code and send money from our account to the shopper's account. It is to be noted that banks have provided this QR code to all customers. It is worth noting that using QR code is one of the types of payment in this situation and more people are using it. In this case there is no problem if you use QR code to send money. It is said that someone is scanning the QR code through the cell phone and if the QR code sent is found by the fraudulent person, then all the money in your bank is likely to be empty. So the bank has warned the customers to use the given QR code only for payment and not to receive money.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2023

(21) Application No.202341032272 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GENERATION OF ELECTRICITY USING THERMAL ENERGY STORAGE (TES)

(51) International classification	:B60L 536500, F01K 031800, F23G 052000, F23L 070000, F28D 200000	(71) Name of Applicant : 1)Binu K. Mathew Address of Applicant :Kulakkattusseril House Kurichy P.O Kottayam Dist Kerala State ----- -----
(86) International Application No	:PCT//	2)Er. Jisha James
Filing Date	:01/01/1900	3)Ashish Antony
(87) International Publication No	: NA	4)Fahsina Faizal
(61) Patent of Addition to Application Number	:NA	5)Jess G Thomas
Filing Date	:NA	Name of Applicant : NA
(62) Divisional to Application Number	:NA	Address of Applicant :NA
Filing Date	:NA	(72)Name of Inventor :
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(57) Abstract :

The need for thermal energy storage is very relevant in the current energy scenario. With the increase in daily electricity needs, it's clear that the demand and supply won't go hand in hand with each other. It's time to move on from conventional energy sources and think about renewable energy sources which are cheaper and eco-friendly. Also, thinking about the replacement of batteries should not be merely an idea rather it is to be implemented as electrical energy storage in battery packs has lots of cons like its cost, size, shortage of raw materials available for manufacturing, and pollution due to chemical by-products. Similar to the storage of electrical energy, the heat battery is an energy carrier used to store solar energy in thermal form. Solar energy is available a few hours a day with different intensities with the possibility of overcast days. For a country like India, Thermal Energy has a huge scope, as solar energy is abundantly available in most parts of the year. Solar Energy from the sun can be converted into thermal energy stored in an insulated container and used for future energy needs. Here the solar energy is tapped via solar trough collector and solar PV cells. The insulated container contains paraffin as the storage medium. The heat dissipated is then transferred to water which is the working fluid. Solenoid valves are used for controlling the movement of working fluid, it is automated with the help of Arduino Programming. Temperature sensors and fluid level detectors are used for real-time monitoring of temperature. The stored energy is then converted inside the insulated container into electricity using a Stirling engine, which also can use this energy for residential water heating.

No. of Pages : 31 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032314 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD OF ANALYZING STUDENT PERFORMANCE PREDICTION USING BPSO FEATURE SELECTION AND CNN CLASSIFIER

(51) International classification	:G01C 211600, G06F 030100, G06K 096200, G09B 070000, G09B 070200	(71) Name of Applicant : 1)Ms. Safira Begum Address of Applicant :Research Scholar, Visvesvaraya Technological University – RRC, Belagavi, Karnataka, Pin Code-590018 ----- 2)Dr Sunita Sheetalkumar Padmannavar Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method (100) of analyzing student performance prediction using BPSO feature selection and CNN classifier that overcomes the limitations of traditional method (100). The use of BPSO feature selection and CNN classifier improves the accuracy of the model and reduces overfitting. The method (100) can be applied to a variety of educational data, such as demographic information, test scores, or writing samples, and can be used to provide timely interventions to improve academic outcomes. The method (100) to optimize the use of educational resources, such as time, materials, and personnel, by analyzing data on student progress and learning outcomes.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032316 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A process for preparing homogeneous, air-bubble free, and rapidly disintegrating ultra thin orodispersible film formulation

(51) International classification :A61H 330200, A61K 090000, A61K 092000, A61K 097000, A61P 151000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present disclosure provides solution to various problems associated with fabricating orodispersible films (ODFs) loaded with various active agents. More importantly, the disclosure provides a process for preparing ODF extrudes as filaments followed by subjecting the filaments to solvent casting method or printing methods to prepare the ODFs industrially or in a pharmacy setting by printing the ODFs recommended by the physician. All in all, the disclosure helps in providing an ODF that is associated with excellent homogeneity, free from air bubbles, rapidly disintegrating and ultra-thin ODFs of active agents.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032320 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EFFECTIVE SOLAR-POWERED EV CHARGER WITH ENHANCED VOLTAGE REGULATION

(51) International classification :C02F 011400, F21S 090300, F21Y 151000, H02J 070000, H02P 130600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The increasing deterioration of environmental quality as a result of pollution issues and the depletion of fossil fuels is driving the globe to create an alternative technology such as the electric vehicle (EV). A solar-powered electric vehicle (EV) can provide a non-polluting and extremely silent transportation system for urban and rural parts of India since it generates zero emissions, is highly efficient and silent, and can provide optimal energy management. Through an effective MPPT charge controller, the onboard PV module absorbs solar energy and stores it in the battery bank. The solar photovoltaic (PV) system experienced irradiance changes due to locational variety and cloud movement. In a PV-based charging system, the output voltage applied across the terminals of the battery may vary with variations in solar irradiance. The solar-powered EV battery charging systems require significant advancements for better voltage regulation, reduced ripple content, and the capability to adapt to changes in irradiation level. As a result, the charging efficiency is affected. This reduces the efficiency of power extraction. As a result, maximum power extraction requires an effective setup. This project proposes an effective solar-powered EV charging system with improved voltage regulation and charging efficiency. A SEPIC converter with voltage step-up and voltage stepdown capabilities is used to eliminate the non-operational zones connected with the input voltage. A closed loop feedback using a PI controller is provided in the proposed system to compensate for the drawback. The proposed system is designed and analysed in MATLAB/Simulink to test its performance for variations in irradiance, and the project's hardware implementation is completed later. With the implementation of this technology, the charging efficiency is improved, the battery life is enhanced, and the battery's health is improved.

No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032321 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : An IoT based smart agriculture system and method thereof

(51) International classification	:G06Q 500200, H04L 090600, H04L 093000, H04L 671200, H04W 841800	(71) Name of Applicant : 1)Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College) Address of Applicant :IPR Cell, Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College, Sree Sainath Nagar, A. Rangampet, Tirupati, Andhra Pradesh, India Tirupati ---
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Bashyam Poorna Chandra Address of Applicant :UG Scholar Department of ECE Sree Vidyanikethan Engineering College, 517102 Chittoor, Andhra Pradesh, INDIA Tirupati -----
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(57) Abstract :

The IoT based Smart Agriculture System is an invention that relates to a system for monitoring and controlling the environmental parameters of a crop. The system comprises a NodeMCU, an Arduino UNO (110), a soil moisture sensor (120), a temperature sensor (130), a submersible water pump (140), a motor driver (150), an Arduino IDE (160) and a Blynk application (170). The soil moisture sensor continuously monitors the soil moisture level, and the submersible water pump and motor driver are configured to automatically turn on and off based on the soil moisture level. The Blynk application sends alerts to the user when the temperature falls outside a predetermined range. The system also allows the user to schedule the timing of submersible water pumps and fertilizers/pesticides using the Blynk application. The system is highly efficient and provides real-time monitoring and control of crop environment.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032344 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT-BASED RO WATER PURIFIER WITH AUTO TDS CONTROL

(51) International classification :B01D 353000, B32B 151800, B32B 273600, C02F 010000, C02F 014400
(86) International Application No Filing Date :PCT// :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number Filing Date :NA :NA
(62) Divisional to Application Number Filing Date :NA :NA

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(57) Abstract :

The present invention provides an IOT-based RO water purifier with auto TDS control. Presently, RO filters do not have auto TDS (Total Dissolved Solids) control, it needs to be tuned manually when source water supply is changed i.e., huge variation in salinity. The proposed design ensures these permissible limits by controlling supply of feed water to RO membrane. In addition, the filtration process can be controlled and monitored through IoT module. It initiates alerts when there is huge contamination in feed water and information related to filters replacement, due date for maintenance. Also, information like turbidity of water, TDS levels, pH content and salinity can be observed through IoT application (mobile app). Figure 1

No. of Pages : 18 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032359 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A polyhouse for tenable agriculture based on IoT, arduino and sensors

(51) International classification	:G06Q 500200, G09B 231800, H04L 671200, H04W 043800, H04W 720200	(71) Name of Applicant : 1)Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College) Address of Applicant :IPR Cell, Mohan Babu University (Erstwhile Sree Vidyanikethan Engineering College, Sree Sainath Nagar, A. Rangampet, Tirupati, Andhra Pradesh, India Tirupati ---
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72) Name of Inventor : 1)Kinnera Rohith Address of Applicant :UG Scholar Department of ECE Sree Vidyanikethan Engineering College, 517102 Chittoor, Andhra Pradesh, INDIA Tirupati -----
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(57) Abstract :

The present invention relates to a polyhouse for tenable agriculture based on IoT, arduino and sensors. The invention offers a sustainable agriculture solution in polyhouses using IoT, Arduino, and sensors. The system an Arduino Mega 2560 microcontroller board (110) interfaced with sensors and actuators, a plurality of sensors, including temperature and humidity sensor (120), CO2 gas sensor (130), soil moisture sensor (140), water level sensor (150), light intensity sensor (160). The system has two parts: 1) Sensors and actuators interfaced with the Arduino Mega 2560 microcontroller and 2) Arduino Mega 2560 with GSM and Wi-Fi modules for communication. The sensors measure temperature, humidity, CO2 gas, soil moisture, water level, light intensity, and more. The actuators control ventilators, inlet/outlet motors, sprinkler tank, light, soak pit, and others. The Arduino Mega 2560 is programmed using the IDE software and connected to the sensors via jumper wires. Each sensor is set with a threshold value, and if exceeded, triggers its designated operation. DHT11 is a commonly used temperature and humidity sensor, while a soil moisture sensor, water level sensor, and light sensor (LDR) are also included.

No. of Pages : 25 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032364 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Toxic Gases Detection System for Sewage lines

(51) International classification :A61K 089789, G08B 211400, G08C 170200, H01M 106580, H01M 501160
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In real time Septic tanks and sewer pits are dangerous as they contain a variety of sewer gases which can be highly toxic in nature and when inhaled by workers during cleaning and maintenance that result in various complications, including death. In order to overcome these issues our invention focuses on to design and develop a Toxic Gases Detection System for Sewage lines. The invention includes a Methane Sensor, CO sensor, Hydrogen Sulphide sensor and oxygen sensor for detecting corresponding gases exist in the sewage line. The invention is to operate through external power supply for continuous monitoring. The device also includes LED, LCD and buzzer for indication of any anomalies. This device is capable to rapid detection of toxic gases and suitable for minimizing accidents involving poisoning and explosions during cleaning or maintenance. Multiple number of gases containing high concentrations (ppm) can be detected by this device.

No. of Pages : 7 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202341032483 A

(19) INDIA

(22) Date of filing of Application :08/05/2023

(43) Publication Date : 23/06/2023

(54) Title of the invention : PREDICTION OF POST-FIRE SELF-HEALING OF CONCRETE BY MACHINE LEARNING METHOD

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3)Dr. Abirbaran Handa

4)Prof. Nadeem Pasha

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6)Prof. Amruta Jagdish Killol

7)Ms. R. Hemavathi

8)Ms. R. Hemavathi Dr. R. Chandra Devi

Name of Applicant : NA

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(51) International classification :G06K 096200, G06N 030400, G06N 030800, G06N 050400, G06N 200000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

PREDICTION OF POST-FIRE SELF-HEALING OF CONCRETE BY MACHINE LEARNING METHOD The present invention relates to prediction of post-fire self-healing of concrete by machine learning method. Machine learning (ML) and artificial intelligence are powerful tools that allow constructing high-precision predictions. The present invention discloses utilization of ML for predicting post-fire self-healing of concrete. Twelve input variables are analyzed. The output of the model is the compressive strength recovery, being one of the self-healing efficiency indicators. Four ML methods are optimized and compared based on their performance error: Support Vector Machines (SVM), Regression Trees (RT), Artificial Neural Networks (ANN), and Ensemble of Regression Trees (ET). Monte Carlo analysis is conducted to verify the stability of the selected model. All ML approaches demonstrate satisfying precision, twice as good as linear regression. The ET model is found to be the most optimal with the highest prediction accuracy and sufficient robustness. Model interpretation is performed using Partial Dependence Plots and Individual Conditional Expectation Plots. Temperature, curing regime, and amounts of aggregates are identified as the most significant predictors. Figure of abstract: FIG. 1

No. of Pages : 19 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032484 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Data Analysis for Student Career Development

(51) International classification	:F02D 411400, F02D 412400, G06Q 101000, G06Q 502000, G16B 250000	(71) Name of Applicant : 1)Hindustan Institute of Technology and Science Address of Applicant :Hindustan Institute of Technology and Science, P.O. No.1, Rajiv Gandhi Salai (OMR), Padur, Kelambakkam, Chennai, Tamil nadu- 603 103. Chennai ----- -----
(86) International Application No	:PCT//	2)Logeshwari R
Filing Date	:01/01/1900	3)Battula Nirathi Reddy
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)Logeshwari R Address of Applicant :Assistant Professor (SG), Department of Computer Science and Engineering, Hindustan Institute of Technology and Science P.O.Box No.1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam Chennai, Tamil nadu- 603 103. Chennai ----- -----
Filing Date	:NA	2)Battula Nirathi Reddy Address of Applicant :UG Student, Department of Computer Science and Engineering, Hindustan Institute of Technology and Science P.O.Box No.1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam, Chennai, Tamil nadu- 603 103. Chennai ----- -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The current generation of High School graduates do not have the access to the status of the facilities available in various higher secondary institutions. This denies them the opportunity to make a well-informed decision of what undergraduate educational institution they would like to join, because they are unaware of which academic institution has the facilities and practices necessary for them to achieve their goals. By surveying students currently studying in an institution, this project collects the feedback and forms a collective database of students' feedback of their university's facilities. By analyzing and providing high school graduates with a recommendation tool utilizing the collected information, they will be able to make a well-informed decision of what institution would be best suitable for the fulfilment of their goals.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032512 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Cross Platform Entertainment Media Preference Analysis Based on Market Basket Algorithm

(51) International classification	:G06Q 400600, H04H 605800, H04N 212350, H04N 212665, H04N 218450	(71) Name of Applicant : 1)Hindustan Institute of Technology and Science Address of Applicant :Hindustan Institute of Technology and Science, P.O. No.1, Rajiv Gandhi Salai (OMR), Padur, Kelambakkam, Chennai, Tamil nadu- 603 103. Chennai ----- -----
(86) International Application No	:PCT//	2)Mathiarasi Balakrishnan
Filing Date	:01/01/1900	3)Kevin Isaac Robinson
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Mathiarasi Balakrishnan
Filing Date	:NA	Address of Applicant :Assistant Professor (SG), Department of Computer Science and Engineering, Hindustan Institute of Technology and Science P.O.Box No.1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam Chennai, Tamil nadu- 603 103. Chennai ----- -----
(62) Divisional to Application Number	:NA	2)Kevin Isaac Robinson
Filing Date	:NA	Address of Applicant :UG Student, Department of Computer Science and Engineering, Hindustan Institute of Technology and Science P.O.Box No.1, Rajiv Gandhi Salai (OMR), Padur, (Via) Kelambakkam, Chennai, Tamil nadu- 603 103. Chennai ----- -----

(57) Abstract :

Data analysis has a critical role in the contemporary era as it assists us to understand patterns in data by inspecting it in an explicit manner. Market basket analysis is one of the most commonly used methods to understand customer patterns and repeating items in a transactional database. Very frequently this is achieved by using Apriori algorithm. This paper confers the application of market basket analysis to media preferences of people in India. It tries to find the frequent combinations among purchases of media by people of different age groups. This could help the producers market a product along with other products which the customer would also be interested in. It also makes it easy for the customers to find products of their preference and choice. Additionally, there are chances of sales going up and the producers might benefit as well.

No. of Pages : 13 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032530 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : RECURRENT DEEP NEURAL CLASSIFICATION FOR GLAUCOMA DETECTION IN FUNDUS IMAGES

(51) International classification	:A61B 030000, A61B 031200, A61P 270600, G06N 030400, G06N 030800	(71)Name of Applicant : 1)Dr. Siva Raja P M Address of Applicant :118 - Sarakalvilai, Idalakudi PO, Nagercoil ----- 2)Sumithra R P 3)Vidhya S 4)Dr.K.Ramanan Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// Filing Date :01/01/1900	(72)Name of Inventor : 1)Dr. Siva Raja P M Address of Applicant :Associate Professor, CSE Department, Amrita College of Engineering and Technology, Amritagiri, Erachakulam, Nagercoil-629901, Kanyakumari, Tamil Nadu. Nagercoil ----- 2)Sumithra R P Address of Applicant :Assistant Professor, CSE Department, Amrita College of Engineering and Technology, Amritagiri, Erachakulam, Nagercoil-629901, Kanyakumari, Tamil Nadu. Nagercoil ----- 3)Vidhya S Address of Applicant :Assistant Professor, CSE Department, Amrita College of Engineering and Technology, Amritagiri, Erachakulam, Nagercoil-629901, Kanyakumari, Tamil Nadu. Nagercoil ----- 4)Dr.K.Ramanan Address of Applicant :Associate Professor, CSE Department, NPR College of Engineering and Technology, Natham, Dindigul District, Tamil Nadu-624401. Natham -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA Filing Date :NA	
(62) Divisional to Application Number	:NA Filing Date :NA	

(57) Abstract :

The early identification of glaucoma is a critical issue in medicine that must be addressed as soon as possible. There is a lack of study on glaucoma's earliest phases. However, current methods of detecting glaucoma illnesses are not enough. It takes longer to identify glaucoma using traditional methods. The Recurrent Deep Neural Classification (RDNC) technique is presented in order to overcome these constraints. The recursive deep neural classifier developed by RDNC technology aims to increase the accuracy of glaucoma illness early detection in the shortest period possible. In order to accurately diagnose glaucoma illness, the RDNC Technique proposes a Recurrent Deep Neural Classifier with three layers: an input layer, a hidden layer, and an output layer. To begin, the RDNC method uses an image database called the High-Resolution Fundus (HRF). For each fundus picture that is sent to the input layer, the concealed layer receives it. Each fundus picture is segmented using a balanced histogram thresholding approach and Morlet wavelet modification to obtain clinical and multi-resolution characteristics. The output layer receives the extracted characteristics. The softsign activation function is used in output layer identifies relationship between clinical and multi-resolution features and consequently returns classification result with a minimal error using RDNC method. If output layer result is 1, then RDNC Technique classifies an input fundus image as glaucoma disease. Otherwise, RDNC Technique classifies an input fundus image as normal. This aids the RDNC approach in early detection of glaucoma disease with more accuracy and less time. Different fundus pictures may be used to test RDNC technology's ability to accurately identify illness as well as its detection time and false positive rate. When compared to the most sophisticated works, simulation results demonstrate that RDNC technology may enhance accuracy and minimize the time necessary for detecting glaucoma disease.

No. of Pages : 4 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032532 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD TO CORRECT MISPRONUNCIATIONS IN NON-NATIVE SPEECH IN CHILDREN

(51) International classification	:G09B 190400, G09B 190600, G10L 150800, G10L 151870, G16B 400000	(71) Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)RADHA, Kodali Address of Applicant :Research Scholar, School of Electronics Engineering (SENSE), VIT-AP University, AB-2 Building, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
Filing Date	:NA	2)BANSAL, Mohan Address of Applicant :Sr. Assistant Professor, School of Electronics Engineering (SENSE), VIT-AP University, AB-2 Building, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system 100 to detect and correct mispronunciations in non-native speech include a server configured with a plurality of modules, one or more databases, one or more processors to collect non-native unlabeled speech 106 and labelled speech 108 data of a subject 110 to extract normalized speech volume after pre-processing 112 speech data to remove noise and enhance data samples by augmentation techniques 114. Further, receive pre-processed and augmented speech data to detect mispronunciations using a self-supervised learning algorithm to generate results with correct word sequence 136. The self-supervised learning algorithm is a simple framework for contrastive learning of representations (SimCLR) algorithm and uses an upstream model 102 and downstream model 104 to evaluate correct word sequence 136. The contrastive losses 122 is evaluated taking the similarity between the encoded speech representations 118 of the correctly transcribed speech and the mispronounced speech samples.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032546 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED INTRON RETENTION DETECTION AND IDENTIFICATION FOR NEURAL DISEASES

(51) International classification	:G06N 030200, G06N 030400, G06N 030800, G06N 070000, G06N 200000	(71) Name of Applicant : 1)Dr. Mohd Ashraf Address of Applicant :Associate Professor, Department of CSE, School of Technology, Maulana Azad National Urdu University, Hyderabad, Telengana State, India. ----- 2)Rakesh Bharati 3)Dr. Ajitkumar Meshram Pundge 4)Ms. Arnika 5)Dr. Sumana M 6)Dr. V. Anandi 7)Dr. Srinivas Ambala 8)P. Sivaprasad Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72) Name of Inventor : 1)Dr. Mohd Ashraf Address of Applicant :Associate Professor, Department of CSE, School of Technology, Maulana Azad National Urdu University, Hyderabad, Telengana State, India. ----- 2)Rakesh Bharati Address of Applicant :Ph.D. Research Scholar, Department of Computer Science & Engineering, MANIT Bhopal, India. ----- 3)Dr. Ajitkumar Meshram Pundge Address of Applicant :Associate professor, Department of Computational Sciences, Brainware University, Ramkrishnapur Road, Barasat, Kolkata, West Bengal 700125 Kolkata, India ----- 4)Ms. Arnika Address of Applicant :Assistant Professor, Department of Computer Science and Applications, School of Engineering and Technology, Sharda University, Greater Noida, UP - 201310, India ----- 5)Dr. Sumana M Address of Applicant :Associate Professor, Department of Information science and engineering, Ramaiah Institute of Technology, Bengaluru -560054, India. ----- 6)Dr. V. Anandi Address of Applicant :Associate professor, Department of Electronics and Communications engineering, M.S.Ramaiah Institute of technology, Bangalore, India. ----- 7)Dr. Srinivas Ambala Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Pimpri Chinchwad College Of Engineering, Pune, Maharashtra, India. ----- 8)P. Sivaprasad Address of Applicant :Assistant professor, Department of Electronics and Communications engineering, RVR & JC College of engineering -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Title: Artificial Intelligence-Based Intron Retention Detection and Identification for Neural Diseases Abstract: The present invention discloses an artificial intelligence (AI)-based method for detecting and identifying intron retention events associated with neural diseases. Intron retention, a form of alternative splicing, can lead to the production of non-functional or aberrant proteins, contributing to various diseases, including neurological disorders. The proposed method improves the accuracy and efficiency of detecting and identifying intron retention events from large-scale RNA-seq data, offering the potential for discovering new therapeutic targets and personalized medicine approaches for neural diseases. The method consists of data collection, preprocessing, intron retention quantification using AI-based algorithms, feature extraction and selection, machine learning model development, and interpretation and validation of results. This AI-based approach can lead to a better understanding of the molecular mechanisms underlying neural diseases and facilitate the development of novel therapeutics.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032547 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Artificial Intelligence based Automatic Stock Price prediction System to predict High, Low and Closing Price using cloud computing and Machine Learning Algorithms

(51) International classification	:G06N 030800, G06N 050200, G06N 200000, G06Q 300200, G06Q 400400	(71) Name of Applicant : 1)Muttappa M Mantur Address of Applicant :Head, Department Of Computer Science And Applications , Government First Grade College For Women And PG Centre, Dr. Rajkumar Road, JAMKHANDI, JAMKHANDI-587301 Bagalkot, KARNATAKA , India ----- 2)Dr Prasanna B T 3)R. Deepa 4)Sana Saraswathi 5)Dr. Dipika Birari 6)Dr. M. Selvi 7)V. Jalaja Jayalakshmi 8)Dr. K.V.S.Prasad 9)P.Shantan Kumar 10)Sureshkumar C Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:PCT// :01/01/1900	(72) Name of Inventor : 1)Muttappa M Mantur Address of Applicant :Head, Department Of Computer Science And Applications , Government First Grade College For Women And PG Centre, Dr. Rajkumar Road, JAMKHANDI, JAMKHANDI-587301 Bagalkot, KARNATAKA , India ----- 2)Dr Prasanna B T Address of Applicant :Associate Professor, Department of Computer Science and Engineering, JSS Science and Technology University, Technical Institutions Campus, Mysuru Pin 570006 Karnataka, India ----- 3)R. Deepa Address of Applicant :Research Scholar, Department of computer science and applications, Dr. N.G.P Institute of Technology / Anna University Kalappatti Main Road, Coimbatore - 641048 Tamilnadu India ----- 4)Sana Saraswathi Address of Applicant :Assistant Professor, Department Of Computer Science And Engineering, Vignan's Institute Of Engineering For Women, Kapu Jaggarajupeta ,Vseze Post Visakhapatnam 530049 Andhraapradesh India ----- 5)Dr. Dipika Birari Address of Applicant :Assistant Professor, Department of Information Technology, Army Institute of Technology, Dighi Hills, Pune, Maharashtra 411 015 Pune, Maharashtra, India ----- 6)Dr. M. Selvi Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Rajarajeswari College of Engineering , Ramohalli Cross, Mysore Road, Kumbalgodu, Bengaluru, Karnataka 560074. India ----- 7)V. Jalaja Jayalakshmi Address of Applicant :Assistant Professor Ii, MCA Department, Kumaraguru College Of Technology, Athipalayam Road, Chinnavedampatti, Coimbatore, Tamilnadu, India ----- 8)Dr. K.V.S.Prasad Address of Applicant :Associate Professor, Department of Basic Sciences and Humanities, GMR Institute of Technology, GMR Nagar, Rajam -532 127 Vizianagaram District, Andhra Pradesh, India ----- 9)P.Shantan Kumar Address of Applicant :Assistant Professor, Mathematics Department, Institute Of Aeronautical Engineering, Dundigal, Hyderabad, 500043,Telangana, India, ----- 10)Sureshkumar C Address of Applicant :Assistant Professor, Department Of Information Technology, KGSL Institute Of Technology , KGSL Campus, 365, Thudiyalur Road, Saravanampatti, Coimbatore – 641035 Tamilnadu, India -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Artificial Intelligence based Automatic Stock Price prediction System to predict High, Low and Closing Price using cloud computing and Machine Learning Algorithms Abstract: This research focuses primarily on investigating how artificial intelligence and machine learning can be applied in the context of the stock investment industry. In order to examine the effects of different algorithms, as well as their similarities and differences, the concepts and characteristics of the KNN, k-Means, bisecting k-Means, and ANN algorithms are investigated and analysed. Python scripts are used for stock analysis, and these strategies are implemented using such scripts. Companies are categorised and clustered into groups according to the P/E ratio, dividend rate, fixed asset turnover rate, gross profit margin, and other indicators of each company. The purpose of this exercise is to anticipate the development possibilities of the stock and provide a reference for selecting appropriate investment strategies.

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032548 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : THE PERFORMANCE OF SWITCHED-RELUCTANCE MOTORS FOR ELECTRIC VEHICLE APPLICATIONS CAN BE SIGNIFICANTLY IMPROVED BY IMPLEMENTING PREDICTIVE CURRENT CONTROL

(51) International classification	:A01D 347800, B32B 090000, B60L 531600, C08G 184800, C08G 187600	(71) Name of Applicant :
(86) International Application No	:PCT//	1)Mrs. Bindu Vadlamudi Address of Applicant :Assistant Professor Velagapudi Ramakrishna Siddhartha Engineering College Krishna dist Pin: 520007 Andhra Pradesh India -----
Filing Date	:01/01/1900	2)Mr. Vijaykumar Sidramappa Biradar 3)Mr. CH V GANESH 4)Dr. SaiRam Inkollu 5)Mr. M. KRISHNA 6)Mr. Thandava Krishna Sai Pandraju 7)Ms. D. Divya 8)Ms. GARAPATI SREE LAKSHMI 9)Dr.Belsam Jeba Ananth. M 10)Mr. Annam Karthik 11)Dr. Harikumar Pallathadka
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	: NA	Address of Applicant : NA
Filing Date	: NA	(72) Name of Inventor :
(62) Divisional to Application Number	: NA	1)Mrs. Bindu Vadlamudi Address of Applicant :Assistant Professor Velagapudi Ramakrishna Siddhartha Engineering College Krishna dist Pin: 520007 Andhra Pradesh India -----
Filing Date	: NA	2)Mr. Vijaykumar Sidramappa Biradar Address of Applicant :Assistant Professor and HOD N B Navale Sinhgad College of Engineering, Opposite PAHSUS, Solapur Pune Highway, Kegaon Pin: 413255 Maharashtra India -----
(57) Abstract :		3)Mr. CH V GANESH Address of Applicant :ASSISTANT PROFESSOR ST. PETER'S ENGINEERING COLLEGE HYDERABAD MEDCHAL Pin:500100 TELANGANA INDIA -----
THE PERFORMANCE OF SWITCHED-RELUCTANCE MOTORS FOR ELECTRIC VEHICLE APPLICATIONS CAN BE SIGNIFICANTLY IMPROVED BY IMPLEMENTING PREDICTIVE CURRENT CONTROL		4)Dr. SaiRam Inkollu Address of Applicant :Professor Dhanekula Institute of Engineering & Technology, Ganguru, Vijayawada Krishna Pin: 521 139 Andhra Pradesh India -----
ABSTRACT: In the big data environment, we develop personalized information of college libraries based on big data from three aspects: the overall architecture of the system model, the functional model of the system, and the design of system interface modules according to the design principles and requirements of the personalized information service system of the university library Service system design. In terms of the functional design of the platform, the service platform is divided into four levels: accurate identification of user needs based on big data, personalized customized services based on artificial intelligence, academic research and discussion space based on integrated media, and fine-grained subject resource aggregation based on knowledge. On this basis, a centralized model of individualized services of university libraries including internal and external personnel, information resources, technology, services, processes, platforms, and environment has been constructed. Artificial intelligence (AI) is one of the emerging trends and applications of computing in libraries. It involves programming computers to do things, which if done by humans, would be said to require intelligence. The ultimate promise of artificial intelligence in libraries is to develop computer systems or machines that think, behave, and in fact rival human intelligence, and this clearly has major implications on librarianship. The application of artificial intelligence in the library has become pervasive. They include expert systems for reference services, book reading and shelf-reading robots, virtual reality for immersive learning among others. Although the incorporation of artificial intelligence in libraries can be perceived to alienate librarians from their users, it will probably help libraries do more rather than taking over the jobs of librarians. It will enhance their services delivery. Artificial intelligence will greatly improve library operations and services and will upgrade and heighten the relevance of libraries in an ever-changing digital society. In recent years, there has been considerable interest in the unipolar sinusoidal current excited control strategy of the switching reluctance motor (SRM). This is a result of its expansive driving area and capacity to withstand torque disturbance. Traditional vector control methods have difficulty achieving high levels of current control performance because the SRM is dynamic, nonlinear, and interconnected. This article describes a new method for controlling vectors that employs a two-degree-of-freedom internal model control. This information will have the greatest bearing on the control's precision and the system's durability. When a simplified SRM model of the system is constructed to account for the system's nonlinearities in the spinning reference frame, the stability of the controller is evaluated. When the 2DOF IMC is utilised with fixed filter parameters, the fluctuating disturbance cannot be eliminated. To achieve this, an adaptive disturbance observer is added to the inner-loop system in order to estimate the disturbance in real time and eradicate it. This is done to ensure that everything operates correctly. Adjustments are made to the adaptation gain rule to ensure the ADO is stable and converges, and a Lyapunov-based stability analysis is also provided. The efficacy of the proposed control approach is then demonstrated through experiments. The findings suggest that the strategy may enhance the ability of SRM drives to control and disregard disturbances. The tests also demonstrate that the proposed control method is effective.	5)Mr. M. KRISHNA Address of Applicant :Assistant Professor St. Peter's Engineering College, Maisammaguda Hyderabad Medchal Malkajgiri Pin: 500100 Telangana India -----	
		6)Mr. Thandava Krishna Sai Pandraju Address of Applicant :Assistant Professor Dhanekula Institute of Engineering and Technology, Ganguru, Vijayawada Krishna Pin: 520003 Andhra Pradesh India -----
		7)Ms. D. Divya Address of Applicant :Assistant Professor St.Peter's Engineering College, Maisammaguda, Hyderabad Medchal Pin: 500100 Telangana India -----
		8)Ms. GARAPATI SREE LAKSHMI Address of Applicant :Assistant professor Dhanekula institute of Engineering and Technology, Ganguru, Vijayawada Krishn Pin:521139 Andhra Pradesh India -----
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		10)Mr. Annam Karthik Address of Applicant :Assistant Professor Institute of Aeronautical Engineering, Dundigal, Hyderabad. Medchal Pin:500 043 Telangana India -----
		11)Dr. Harikumar Pallathadka Address of Applicant :Director and Professor Manipur International University, Ghari, Imphal, Imphal West, Imphal Pin: 795140 Manipur India -----

No. of Pages : 9 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032554 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BAMBOO-CHARCOAL BASED BIO-INK COMPOSITION AND METHOD FOR PREPARATION THEREOF

(51) International classification	:A61L 273800, B33Y 100000, B33Y 700000, B33Y 800000, C09K 195600	(71) Name of Applicant : 1)JAIN (Deemed-to-be University) Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Janak Vinodbhai Pipaliya Address of Applicant :Department of Physical Science, School of Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --
Filing Date	:NA	2)Dr. Roopashree R Address of Applicant :Assistant Professor, Department of Chemistry and Biochemistry, School of Sciences, JAIN (Deemed-to-be University), Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore ----- --
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Bamboo-Charcoal based bio-ink composition comprising: i) bamboo-charcoal in the range of 10% w/w-40% w/w, ii) turpentine in the range of 25% w/w-40% w/w, and iii) isopropyl alcohol in the range of 25% w/w-40% w/w. A method for preparation of the Bamboo-Charcoal based bioink comprising the following steps: i) adding the Bamboo charcoal (B-charcoal) in a glass beaker followed by addition of the turpentine to obtain a mixture, and ii) adding the isopropyl alcohol in the mixture followed by vigorous stirring to obtain the Bamboo-charcoal based bio-ink.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032555 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IRON OXIDE NANOPARTICLES COMPOSITION AND METHOD FOR SYNTHESIS THEREOF

(71)Name of Applicant :

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Address of Applicant :Jain Global Campus, Jakkasandra Post, Kanakapura Road, Kanakapura Taluk, Ramnagar District, Karnataka Bangalore –562112, India. Bangalore -----

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Address of Applicant : NA

(72)Name of Inventor :

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(51) International classification :A61K 476900, A61K 491800, B82Y 300000, C01G 490200, C08K 032200

(86) International Application No :PCT// /
Filing Date :01/01/1900

(87) International Publication No: NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

An iron oxide nanoparticles composition and method for synthesis thereof comprises of: i) areca nut husk extract in range of 90-92% w/w, and ii) iron sulphate heptahydrate solution in range of 7-10% w/w. A method of synthesis of an iron oxide nanoparticles composition comprises of: i) adding areca nut husk extract in iron sulphate heptahydrate solution to obtain a combined solution, followed by agitating the combined solution for a time duration in range of 5-15 minutes to a homogeneous solution, and ii) maintaining pH of homogeneous solution to 12 using 1.8-2.2 M NaOH solution and further agitating homogeneous solution at a temperature in range of 70-90oC for a time duration in range of 100-140 minutes, followed by washing with water/ethanol and drying at a temperature in range of 70-90oC for a time duration in range of 10-14 hours to obtain the oxide nanoparticles.

No. of Pages : 28 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032556 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OBJECT LOCATING DEVICE

(51) International classification	:G01S 050600, G01V 031500, G02B 270200, G08B 210200, G08B 212400
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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(72)Name of Inventor :

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(57) Abstract :

An object locating device, comprised of platform 1 developed in a manner to be positioned on a ground surface within an enclosure with different objects, a touch- enabled screen 2 is installed on platform 1 for enabling a user to give input commands regarding one of the objects to be detected within the enclosure, motorized omnidirectional wheels 3 configured underneath the platform 1 for maneuvering platform 1 within the enclosure in virtue of finding the user-defined object, a camera 4 mounted on platform 1 that works in synchronization with a sensing module mapped on platform 1 for detecting the physical parameters of each of the objects, a GPS (Global Positioning System) module 9 mapped on the platform 1 for the exact location of the object and displayed on the screen 2.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/05/2023

(21) Application No.202341032557 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EVENT MANAGEMENT ASSISTIVE SYSTEM

(51) International classification :G06F 030486, G06F 095400, G06F 215500, H04N 071500, H04R 250000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention relates to an event management assistive system, comprising a robotic body 1 associated with the system positioned on a ground surface, a touch enabled screen 2 installed on the body 1 for allowing a user to input details regarding an event, a primary computing unit 3 associated with the system accessed by guests for confirming regarding presence at the event, a secondary computing unit 4 associated with the system accessed by an owner for informing regarding preparation of food items, a GPS (Global Positioning System) module 5 mapped on the body 1 for fetching real-time location coordinates of venue of the event, plurality of motorized omnidirectional wheels 6 configured underneath the body 1 for maneuvering the body 1 and a camera 7 mounted on the body 1 for recording videos of the event in real-time scenario.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032581 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : RISK-AWARE BUSINESS PROCESS MODELLING AND SIMULATION FOR BUSINESS IMPACT ANALYSIS AND RISK ASSESSMENT

(51) International classification	:G06F 215700, G06F 302000, G06F 302300, G06Q 100600, G06Q 400200	(71) Name of Applicant : 1)Prof. Dr. Satya Subrahmanyam Address of Applicant :Professor & Director, Department of Accounting, Catholic University in Erbil, Erbil, Kurdistan Region, Iraq. ----- 2)Dr. Danielle Khalife 3)Dr. Nada Sarkis 4)Dr. Jeanne Kaspard 5)Dr. Fluer Khalil Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
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(87) International Publication No	: NA	(72) Name of Inventor : 1)Prof. Dr. Satya Subrahmanyam Address of Applicant :Professor & Director, Department of Accounting, Catholic University in Erbil, Erbil, Kurdistan Region, Iraq. ----- 2)Dr. Danielle Khalife Address of Applicant :Dean – Business School, Holy Spirit University of Kaslik, Jounieh, Lebanon. ----- 3)Dr. Nada Sarkis Address of Applicant :Associates Dean - Business School, Holy Spirit University of Kaslik, Jounieh, Lebanon. ----- 4)Dr. Jeanne Kaspard Address of Applicant :Head of Finance Program – Business School, Holy Spirit University of Kaslik, Jounieh, Lebanon. ----- 5)Dr. Fluer Khalil Address of Applicant :Head of Audit Program – Business School, Holy Spirit University of Kaslik, Jounieh, Lebanon. -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

RISK-AWARE BUSINESS PROCESS MODELLING AND SIMULATION FOR BUSINESS IMPACT ANALYSIS AND RISK ASSESSMENT ABSTRACT Companies are increasingly being required to prepare for dangers that endanger the survival of essential business activities. This trend is being driven by the constantly rising incidence of natural catastrophes, the threat of terrorist and other criminal acts, as well as changes in legislation and regulations. As a direct result of this, management needs to give a greater amount of attention to concerns concerning the continuation of business operations. These issues include a more serious management commitment and more appropriate funding. The ideas of business impact analysis and risk assessment make it possible to carry out effective business continuity planning because they give crucial information about the impact that the disruption of resources has on businesses. In this article, we demonstrate how these ideas can be improved by employing the ROPE (Risk-Oriented Process Evaluation) technique, which enables risk-aware business process management and simulation. This methodology was developed by the University of Maryland. In addition, we offer essential extensions to the capabilities of the ROPE simulation that will lead to business continuity planning that is both more efficient and successful.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032585 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MANUFACTURING STITCHED FOAM-FILLED HONEYCOMB SANDWICH PANELS

(51) International classification :A43B 131400, B32B 031200, B32B 050200, B32B 272800, C04B 380000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)Name of Inventor :

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Nagercoil -----

(57) Abstract :

Honeycomb sandwich panels are used for structural, flooring, and body panel applications many sectors because of their good mechanical properties. However, existing foam-filled honeycomb sandwich panels degraded in extreme conditions due to interfacial failure between the face sheet and core, reducing panel life. To overcome this issue, the current invention gives a method of fabricating novel "stitched foam-filled honeycomb sandwich panels" (SFHS). This SFHS panel was fabricated with an aluminum honeycomb core filled with polyurethane foam wrapped on both sides with a woven glass fiber face sheet. Nylon-6 thread was stitched through the core and face sheet throughout the panel. The stitched panel was then subjected to vacuum-assisted resin transfer molding process, reinforced with the polyester matrix that bonded along its length, and the entire panels were properly cured to make the long-lasting SFHS sandwich panels. The panels prepared have impressive mechanical properties that its analogues previously reported.

No. of Pages : 33 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032592 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Face Recognition-door Lock using Haar Cascade and Local Binary Pattern Histogram(LBPH) on Raspberry Pi

(51) International classification	:A61K 367300, F25B 070000, G01B 112500, G06K 096200, G06T 054000	(71) Name of Applicant : 1)Prasanna Gandhiraj Address of Applicant :no:8-9/35 Magila malar street Mahathma Gandhi nagar ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)NAGAMANI DIVEDARI Address of Applicant :Department of ECE, Anil Neerukonda Institute of Technology and Sciences Sangivalasa, Bheemli Mandal. Visakhapatnam-531162 Visakhapatnam ----- --
(87) International Publication No	: NA	2)P. ADITHYA Address of Applicant :Department of ECE, Anil Neerukonda Institute of Technology and Sciences Sangivalasa, Bheemli Mandal. Visakhapatnam-531162 Visakhapatnam ----- --
(61) Patent of Addition to Application Number	:NA	3)Y. V. D. BHAVANI Address of Applicant :Department of ECE, Anil Neerukonda Institute of Technology and Sciences Sangivalasa, Bheemli Mandal. Visakhapatnam-531162 Visakhapatnam ----- --
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(62) Divisional to Application Number	:NA	5)M. TARUN Address of Applicant :Department of ECE, Anil Neerukonda Institute of Technology and Sciences Sangivalasa, Bheemli Mandal. Visakhapatnam-531162 Visakhapatnam ----- --
Filing Date	:NA	

(57) Abstract :

Facial recognition door locks are a popular choice for security systems since they do not require physical keys or access cards, which can be misplaced. They also offer a substantial degree of safety because, unlike conventional locks, they are challenging to break into. When a person approaches the door, the device photographs their face. Then, to decide if access should be permitted, the facial recognition algorithm compares the image to a database of authorised individuals. If the person has permission, The door lock is opened. If the person is not authorised, a photo is sent to the owner's phone so that owner can remotely open or close the door. The proposed system uses raspberry pi as microprocessor which runs the face detection haar cascade classifier algorithm in conjunction with Local binary pattern histogram algorithm. A web cam and a solenoid lock are used to implement the design.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032612 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CHARGING A BATTERY PACK OF AN ELECTRIC VEHICLE BY A DUAL TRANSMISSION PATH

(51) International classification	:B60L 506400, B60L 531200, B60L 536600, H01M 502000, H02J 070000	(71) Name of Applicant : 1)Ultraviolette Automotive Private Limited Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72) Name of Inventor :
(87) International Publication No	: NA	1)Sabinraj KT Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
(61) Patent of Addition to Application Number	:NA	2)Ganesh Narasimhan Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
Filing Date	:NA	3)Suyash Sushilkumar Shah Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
(62) Divisional to Application Number	:NA	4)Rajaneesh Bhat Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
Filing Date	:NA	5)Senthil Kumar P Address of Applicant :No. 74/1, new no. 139/35, Krishna Reddy Colony Domlur Layout, Bengaluru 560071 Bengaluru -----
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(57) Abstract :

CHARGING A BATTERY PACK OF AN ELECTRIC VEHICLE BY A DUAL TRANSMISSION PATH A method and system for charging a battery pack (101) of an electric vehicle (10) by a dual transmission path are described in the present invention. An off-board charger (103) receives a high-voltage AC input (1021) from an AC power source (102) and the off-board charger (103) splits the high-voltage AC input (1021) to a first high-voltage AC (1031) and a second high-voltage AC (1032). The first high-voltage AC (1031) is converted to a first low-voltage DC (1033) and transmitted to a DC connector (104) by the off-board charger (103) which is further fed to a battery pack (101) by the DC connector (104). Alternatively, the second high-voltage AC (1032) is transmitted to an AC connector (105) which further transmits it to an on-board charger (106). The On-Board charger (106) converts the second high-voltage AC (1032) to a second low-voltage DC (1061) and transmits the second low-voltage DC (1061) to the battery pack (101). Fig. 1

No. of Pages : 20 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032621 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WEB BASED SYSTEM FOR SIGN RECOGNITION AND SIGN TRANSLATION

(51) International classification	:B23K 260600, F21W 021800, G01S 174200, G09F 071800, H04L 670600	(71)Name of Applicant : 1)ERODE SENGUNTHAR ENGINEERING COLLEGE Address of Applicant :Thudupathi, Perundurai, Erode-638057, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// Filing Date :01/01/1900	(72)Name of Inventor : 1)SUDHARSAN S Address of Applicant :Student, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 2)NAVEEN C Address of Applicant :Student, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 3)THARUN KUMAR P Address of Applicant :Student, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 4)MOHAMED ABDUL KABOOR S Address of Applicant :Student, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 5)NAVEEN G Address of Applicant :Student, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 6)Dr. G.SARAVANAN Address of Applicant :Associate Professor, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 7)Dr.DEEPA PRIYA B.S Address of Applicant :Associate Professor, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 8)Dr. A.V.SANTHOSH BABU Address of Applicant :Professor, Department of Computer Science and Engineering, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 9)Ms. K.R. PRIYADARSHINI Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering , Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi ----- 10)Ms. R. SAVITHA Address of Applicant :Assistant Professor, Department of Artificial Intelligence and Data Science, Erode Sengunthar Engineering College (Autonomous), Thudupathi, Perundurai, Erode-638057 Thudupathi -----
(57) Abstract :	People with hearing loss use sign language, a visual language, to communicate with one other and with those who do not understand their spoken language. However, there are still barriers to communication for those with hearing loss, especially when they have to interact with those who do not understand sign language. With the use of a capture device, gestures are identified and matched to signs. To establish if the signals assigned to gestures make sense in relation to one another and to a grammatical context, successive signs are recognised and compared to a grammar library. To make sure the system satisfies the essential performance standards, its efficacy and accuracy will be assessed across a variety of web sites. The concept shows how technology may be used to solve social problems and exemplifies the possibilities of deep learning and machine learning algorithms in sign language recognition.	

No. of Pages : 11 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032634 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND METHOD FOR SMART IOT INNOVATION OF SOLAR ENERGY CONSUMPTION AND ANALYTICS CONTROL IN GRIDS

(51) International classification	:C02F 111200, F24S 502000, G05F 016600, H02J 073500, H04L 671200	(71) Name of Applicant : 1)Dr. Y N Vijaya Kumar Address of Applicant :Professor & Head, Department of Electrical & Electronics Engineering, Sri Venkateswara College of Engineering & Technology (Autonomous) Chittoor, Andhra Pradesh India Chittoor -
(86) International Application No	:PCT//	2)Dr. G Balasundaram
Filing Date	:01/01/1900	3)Dr. S Senthil
(87) International Publication No	: NA	4)Dr. P Monica
(61) Patent of Addition to Application Number	:NA	5)Mr. P R Muralimohan
Filing Date	:NA	6)Dr. M Mohanbabu
(62) Divisional to Application Number	:NA	7)M V Vijaya Bhaskar
Filing Date	:NA	8)Mr. B Thirumala Rao
		9)Ms. D Hima Bindu
		10)Mr. M. Satishkumar
		Name of Applicant : NA
		Address of Applicant : NA
		(72) Name of Inventor : 1)Dr. Y N Vijaya Kumar Address of Applicant :Professor & Head, Department of Electrical & Electronics Engineering, Sri Venkateswara College of Engineering & Technology (Autonomous) Chittoor, Andhra Pradesh India Chittoor -
		2)Dr. G Balasundaram Address of Applicant :Professor, Department of Electrical & Electronics Engineering, Sri Venkateswara College of Engineering & Technology (Autonomous), Chittoor, Andhra Pradesh India Chittoor -----

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(57) Abstract :

Solar energy consumption is a systematic study used to review the design of facilities, services, and equipment in an organization against specifications of solar panel. The solar panel energy consumption analysis is a work that should be done at the beginning of a solar energy. This way, potential changes can be highlighted before they affect the solar energy budget and schedule. The proposed model provides the IOT-based smart solar energy consumption analysis and control model by using solar photovoltaic micro grid. The proposed IOT design meet product and process requirements. The solar panel energy should properly address important aspects of production processes. This include risks related to product quality and safety. Finally, unacceptable risks must be minimized by design. In the solar energy consumption analysis process, the deliverables should be evaluated; customers should precheck the proposed design and identify problematic areas, if any. Solar energy consumption analysis reveals whether user requirements and features are sufficient to achieve the desired outcome.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032643 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A method and system for controlling quadrupedal robot locomotion

(51) International classification	:A61B 010000, B25J 091000, B25J 091600, B62D 570200, B62D 570320
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

[047] The present invention discloses a method and system for controlling quadrupedal robot locomotion. The method includes the step of training a linear policy using a set of data generated from a single rigid body dynamics based model predictive control and a step of providing the linear policy as a high level controller for providing high-level commands. The method includes a step of executing a quadratic program by a low level controller to distribute force among a set of contact legs from the wrench command, and a trajectory generator to generate a set of foot position from the foot shift command and a step of generating a feed-forward torque based on the distributed force among the set of contact legs and the set of foot position. The method has a step of providing a motor-level controller that combines the feed-forward torque with a proportional derivative tracking controller to generate a locomotion.

No. of Pages : 24 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032670 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Air pollution Monitoring System using FLPSO Multi-Mobile Agents Itinerary Planning in WSN

(51) International classification	:G01N 330000, G01N 331800, G06Q 100200, G06Q 502600, H04W 841800	(71)Name of Applicant : 1)Dr. Rajashree V Biradar Address of Applicant :Professor, Department of Computer Science and Engineering, Ballari Institute of Technology and Management, Ballari ----- 2)Lingaraj K 3)Dr. V C Patil 4)Dr. Sreepathi 5)Dr. P. Veeresh 6)Y J Prithviraj Bhupal 7)Ballari Institute of Technology and Management Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72)Name of Inventor : 1)Dr. Rajashree V Biradar Address of Applicant :Professor, Department of Computer Science and Engineering, Ballari Institute of Technology and Management, Ballari ----- 2)Lingaraj K Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Rao Bahadur Y Mahabaleswarappa Engineering College, Ballari ----- 3)Dr. V C Patil Address of Applicant :Professor, Department of Electronic & Communication Engineering, Ballari Institute of Technology and Management, Ballari ----- 4)Dr. Sreepathi Address of Applicant :Professor, Department of Information Science and Engineering, Rao Bahadur Y Mahabaleswarappa Engineering College, Ballari ----- 5)Dr. P. Veeresh Address of Applicant :Professor, Department of Computer Science and Engineering, St. Johns College of Engineering and Technology, Yerrakota, Yemmiganur ----- 6)Y J Prithviraj Bhupal Address of Applicant :Professor, Department of Computer Science and Engineering, Ballari Institute of Technology and Management, Ballari -----
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Wireless sensor networks (WSNs) are made up of inexpensive and small sensing nodes that collect environmental data for various applications, such as control systems, monitoring of industrial pollution, disaster management, and indoor and outdoor temperature. Despite the limited resources of sensor nodes, such as communication range and capacity, the range of uses for WSNs continues to expand. However, the main issues that WSNs face are high energy consumption and end-to-end delay in transmitting data to the destination node. To address these problems, this research proposes a Fuzzy Logic-based Particle Swarm Optimization (FLPSO) algorithm to intelligently determine an optimal route in the network. This method is specifically applied to a wireless air pollution monitoring (WAPM) system to improve its reliability and adaptability in various scenarios. Additionally, a Multi-Mobile Agent research methodology is employed to enhance the network's lifetime. Simulation results demonstrate that our proposed EE-SS algorithm outperforms other state-of-the-art approaches, such as LEACH, LEACH-C, PSO-HAS, and SEED, based on metrics such as overall energy usage, residual energy, the number of live nodes, network lifetime, and cluster formation time.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032680 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SELF-CONTAINED INDOOR POSITIONING SYSTEM USING SENSOR FUSION TECHNIQUES

(51) International classification :G01C 211600, G01C 212000, G01S 050200, G01S 138600, H04W 043300
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

SELF-CONTAINED INDOOR POSITIONING SYSTEM USING SENSOR FUSION TECHNIQUES The invention provides self-contained indoor positioning system using sensor fusion techniques. The method comprises obtaining Global positioning system (GPS) location of the device (101). The method further includes obtaining, subsequent to obtaining the GPS location, accelerometer data from the accelerometers (103) and the gyroscope data from the gyroscopes (103). The method further includes determining a first distance (D(a)) corresponding to the accelerometer data and a second distance (D(g)) corresponding to the gyroscope data. The method further includes determining, based on the obtained threshold value, a positioning of the object associated with the device. Therefore, self-contained indoor positioning system can be applied to a wide range of indoor environments, regardless of the layout or complexity of the space. This is because the system relies solely on the onboard sensors to estimate the location, rather than external devices that may be affected by the specific layout of a building. (to be published with FIG. 2)

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032697 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : System for Ensuring the Safety of School-Age Passengers Using Esp32

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(51) International classification	:A61P 290000, B32B 052600, F02D 413800, G08B 210200, H01M 502000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No:	NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(57) Abstract :

There is rising concern among parents and school administrators about their children's safety and security on the daily commute to and from school. To ensure the safe arrival and departure of schoolchildren, Esp32 has been proposed as a possible solution to this issue. With the use of IoT technology, school bus riders' movements, well-being, and security can be tracked and monitored in real time. As a component of this system, sensors, gadgets, and communication technologies might be installed in school buses, student bags, and other sections of the transportation infrastructure. The location of the bus, the number of passengers, the temperature inside, and the quality of the air can all be monitored, and warnings can be sent to the driver and parents in the case of an emergency. More effective monitoring and administration of the transportation process means safer, more efficient transport of children. It might also help educational institutions and transit providers improve student safety and service. In the case of an accident or breakdown on the school bus, the IoT system might contact parents and administration. This allows for immediate action and the taking of any required precautions. Overall, an IoT-based Safety of School-Age Passengers transport safety system is a novel approach that might help alleviate parental and administrative worries about kids' safety on school-related transport routes.

No. of Pages : 4 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032764 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AGRICULTURE SURVEILLANCE ROBOT

(51) International classification	:B25J 091000, B25J 091600, B25J 190000, G08B 131960, H04N 071800	(71) Name of Applicant : 1)TF-BOT PRIVATE LIMITED Address of Applicant :C/o Viswanadh Chegu and Harsha Choutapalli, D.No: 3-19-38, 3/1, old patabhipuram, Guntur , Andhra Pradesh ----- 2)Viswanadh Chegu 3)Harsha Choutapalli Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)TF-BOT PRIVATE LIMITED Address of Applicant :C/o Viswanadh Chegu and Harsha Choutapalli, D.No: 3-19-38, 3/1, old patabhipuram, Guntur , Andhra Pradesh ----- 2)Viswanadh Chegu Address of Applicant :D.No: 3-19-38, 3/1, old patabhipuram, Guntur , Andhra Pradesh ----- 3)Harsha Choutapalli Address of Applicant :D.No: 7-66, raghava krishna Nivas, tulasimma Street, opposite Dwaraka Residency, Poranki, Vijayawada, Poranki(Rural), Krishna Dist, Andhra Pradesh -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An agriculture surveillance robot is used for acquiring crop related data in the agricultural field. It consists of a controller unit, a front camera for navigation, a top camera for capturing crop data, and an Inertial Measurement Unit (IMU). The IMU is an electronic device that measures and reports acceleration, orientation, angular rates, and other gravitational forces. The robot has four-wheel drive with two driving motors, which are positioned at the center of each side of the robot and the transmission is carried out via roller chains to the front and back wheels. The first motor is responsible for rotating the right-side front and back wheels, and the second motor is responsible for rotating the left side front and back wheels. The robot is coupled with a simplified version of the rover link mechanism.

No. of Pages : 9 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032774 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A High Speed Memristor Digital Quadrature Clock Generator

(51) International classification :G01S 050600, G11C 130000, H01L 450000, H03K 051500, H03K 051510
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The present invention is a digital quadrature clock generator that utilizes a high-speed memristor to produce two clock signals with a 90-degree phase difference. 5 The generator is suitable for use in digital signal processing and communication systems that require precise timing synchronization. Digital quadrature clock generators are used in a variety of applications, including digital signal processing, data communication, and radar systems. Conventional clock generators utilize electronic components such as capacitors and inductors to 10 produce the two-phase clock signals. However, these components have limitations in terms of speed and frequency response, which can affect the accuracy and reliability of the clock signals. Memristors are a promising alternative to conventional electronic components due to their fast response time, non-volatile nature, and low power consumption. 15 However, the use of memristors in clock generators has not been explored extensively. The present invention is a digital quadrature clock generator that utilizes a high-speed memristor to produce two clock signals with a 90-degree phase difference. The generator includes a voltage-controlled oscillator (VCO) that drives the 20 memristor. The memristor acts as a variable resistor that changes its resistance 2 based on the voltage applied to it. The output of the memristor is fed back to the VCO to generate the two-phase clock signals. The high-speed memristor used in the generator has a response time of less than 100 picoseconds, which allows for high-speed clock generation. The generator can 25 operate at frequencies up to 10 GHz, making it suitable for use in high-speed digital systems.

No. of Pages : 19 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032796 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CONTENT BASED IMAGE RETRIEVAL SYSTEM AND A METHOD THEREOF

(51) International classification	:B25J 150000, B65G 010400, D06F 053800, G06F 165800, G06F 165830	(71) Name of Applicant : 1)SRM UNIVERSITY Address of Applicant :Amaravati, Mangalagiri, Andhra Pradesh-522502, India Guntur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)TUGITI, Prannoy Address of Applicant :SRM University-Amaravati, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur ----- -----
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(61) Patent of Addition to Application Number	:NA	3)YEDLAPALLI, Bhavana Address of Applicant :SRM University-Amaravati, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur ----- -----
Filing Date	:NA	4)Naushad Varish Address of Applicant :Department of Computer Science and Engineering, GITAM (Deemed to be University), Hyderabad-502329, Telangana, India Hyderabad ----- -----
(62) Divisional to Application Number	:NA	5)Priyanka Address of Applicant :SRM University-Amaravati, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur ----- -----
Filing Date	:NA	6)PAPPUSSETTY, Abhishree Address of Applicant :SRM University-Amaravati, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur ----- -----
		7)DASH, Jatindra Kumar Address of Applicant :SRM University-Amaravati, Mangalagiri Mandal, Guntur-522502, Andhra Pradesh, India Guntur ----- -----

(57) Abstract :

ABSTRACT A CONTENT BASED IMAGE RETRIEVAL SYSTEM AND A METHOD THEREOF The present disclosure discloses a content based image retrieval system(100) and a method(200) thereof. The system(100) comprises data repository(104) configured to store a set of feature extraction rules, predefined commands, image database, and feature database; a device interface(106) access image database and feature database, an inputting device(108) receives at least one RGB (red, green, and blue) image as an input image; a conversion unit(110) converts input image into quantized HSV (hue, saturation, value) colour image; a feature extraction unit(112) extracts colour features from quantized HSV colour image using statistical moments and texture features from canny edge detection based pre-processing of the quantized HSV colour image using block level DCT (Discrete Cosine Transform) and GLCM (Grey Level Co-Occurrence Matrix) techniques, and constructs query feature vector by combining colour features and texture features; an indexing unit(114) retrieves images by calculating difference between query feature vector and feature database by using distance metrics.

No. of Pages : 18 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032801 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SELF-POWERED SMART SHOE BASED ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED PERSON USING OBJECT DETECTION AND OBJECT VISUALIZATION, A DEVICE AND METHOD THEREOF

(51) International classification	:A61H 030600, A61M 160400, B64D 450000, G02B 270100, G09B 210000	(71) Name of Applicant : 1)Presidency University Address of Applicant :Itgalpur, Rajanakunte, Bengaluru, Karnataka – 560 064, India Bengaluru ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor :
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(87) International Publication No	: NA	2)Dr. Puneeth S B Address of Applicant :Department of Electronics & Communications Engineering, Presidency University, Bangalore-560064, Karnataka, India Bangalore -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SELF-POWERED SMART SHOE BASED ASSISTANCE SYSTEM FOR VISUALLY IMPAIRED PERSON USING OBJECT DETECTION AND OBJECT VISUALIZATION, A DEVICE AND METHOD THEREOF The instant invention discloses a device and method of Self-powered smart shoe-based assistance System for visually impaired person by using a device which deduct, visualise and estimate the speed and distance of the object, the device is a self-powered device uses piezoelectricity to harvest the energy and the said energy is stored in Lithium-ion battery. Fig 1

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032802 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IoT BASED CONTROLLER ASSISTED SMART BIN

(51) International classification :G06N 200000, G10L 151800, H04L 671200, H04N 214820, H04W 120600
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AN IoT BASED CONTROLLER ASSISTED SMART BIN The present invention discusses an IoT based controller assisted smart bin which uses Internet of Things (IoT) and cloud computing, designed for efficient garbage collection systems and real time monitoring of the bins by connected to the central control system via cloud (100). A GPS module is installed bin to update precise position in the cloud. The trash collecting pan is equipped with moisture sensor (200) to sense and differentiate between dry and wet garbage. The collection pan is further equipped with servo motors (301,302) which when senses a dry or waste garbage the respective motor (301, 302) is actuated via controller to direct the waste either of wet (500) or dry receptacle (600) thereby segregating the dry or wet waste in separate sections. Each receptacle in the bin is equipped with an infrared (IR) proximity sensor (400) to analyze the level of garbage. Fig 1

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032803 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MASSAGE DEVICE, SYSTEM AND METHOD RELATED TO THE SAME THEREOF

(51) International classification :A61H 070000, A61H 090000, A61H 150000, A61H 230200, B23K 090280
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA :NA
Filing Date :NA
(62) Divisional to Application Number :NA :NA
Filing Date

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(57) Abstract :

Disclosed is a massage device (104) that includes a pressure cuff (108), an air pump (110) and a solenoid air valve (112) coupled with the pressure cuff (108) and adapted to inflate and deflate the pressure cuff (108) respectively. The massage device (104) further includes a pressure sensor (114) coupled with the pressure cuff (108) and configured to sense pressure. The massage device (104) further includes a control unit (116) coupled with the pressure sensor (114), the air pump (110), and the solenoid air valve (112). The control unit (116) is configured to receive data representing sensed pressure from the pressure sensor (114) and inflate and deflate the pressure cuff (108) based on the received data by way of the air pump (110) and the solenoid air valve (112) respectively such that the pressure cuff (108) facilitates one or more massage patterns on the body part of the user.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032821 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CONTEXT-AWARE OFFENSIVE DETECTION AND REMOVAL USING DEEP LEARNING TECHNIQUES

(51) International classification	:G06N 030400, G06N 030800, G06T 050000, G06T 070000, H04L 515200	(71) Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
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(87) International Publication No	: NA	2)CH, Koteswararao Address of Applicant :Assistant Professor Sr. Grade 1, SCOPE, VIT-AP University, Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system 100 for context-aware offensive detection and removal thereof include a server 106 in communication with a computing device 102 associated with a user account, includes at least one database, and one or more processor to perform operations including collecting, a context-aware content video 104 to identify the speaker and his/her emotions along with timestamps extracted as emotion-based provenance technique and convert into text segment to give a score. Further, correlate, at least two modalities of dominant emotions based on timestamps and scores to compute the context and content offensive to extract target word utterance 212 encountered as offensive based on scores of dominant emotions, and remove automatically by replacement with the closest non-offensive context and word using deep learning algorithm 108. System 100 prevents further transmission till the context and content identified as offensive are converted into non-offensive context and contents by applying Deepfakes.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032824 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM TO TREAT CHILDREN WITH DEVELOPMENTAL VERBAL DYSPRAXIA USING AUGMENTED REALITY

(51) International classification	:C02F 017200, C07K 160000, C07K 161800, C23C 164400, G06T 190000	(71) Name of Applicant : 1)VIT-AP University Address of Applicant :Inavolu, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)RADHA, Kodali Address of Applicant :Research Scholar, School of Electronics Engineering (SENSE), VIT-AP University, AB-2 Building, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
Filing Date	:NA	2)BANSAL, Mohan Address of Applicant :Sr. Assistant Professor, School of Electronics Engineering (SENSE), VIT-AP University, AB-2 Building, Amaravati, Andhra Pradesh - 522237, India. Amaravati -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system 100 to treat speech disorder of a subject 102 includes a server, a plurality of modules in communication with one or more metaverse gear 104 over a network 150. The server, the metaverse gear 104, one or more databases, and one or more processors configured to capture speech of the subject 102 including movements, gestures, and facial expression; analyse speech to converts into digital formats; provide specific exercise using metaverse gear 104; track comprehensive data to help an audiologist to assess difficulties to correct, check progress, and record one or more changes in speech for further improvements. The subject 102 is a child and affected by Developmental Verbal Dyspraxia and the plurality of modules includes an Audio-Visual Data Input module 106, a Pronunciation Exercises module 108, a Speech Movement Tracking module 110, an Interactive Virtual Environments module 112, and a Data Tracking and Reporting module 114.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032838 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR CONTROLLING ELECTRIC APPLIANCES USING HEAD MOVEMENTS

(51) International classification	:A61B 010000, G02B 270000, G06F 030100, G06T 190000, H04N 214780	(71) Name of Applicant : 1)G R Amrutha Address of Applicant :1656, 6A main 5 cross,RPC Layout, Vijayanagar 2nd stage Bangalore,Karnataka ----- 2)Gandharva Kumar 3)Jyotheeswari M H 4)Lakshmi Bhaskar 5)Sumathi A 6)Ashwini S Savanth Name of Applicant : NA Address of Applicant : NA
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT A SYSTEM FOR CONTROLLING ELECTRIC APPLIANCES USING HEAD MOVEMENTS Aspects of the present disclosure relate to a system (100) for controlling electric appliances using head movements, the system (100) comprising an ultrasonic sensor (101) for detecting location of a human (102); an image capturing module (103) with mediapipe software for capturing images of the human face (102) and creating a numerical mesh for the human faces (102) within a room as a input; atleast one transmitter (104) for transmitting the input obtained in coded format; an arduino IDE based microcontroller (105) for analyzing the input obtained from the transmitter (104); atleast one receiver (106) for receiving the transmitter (104) inputs for defined distance; a decoder (107) for decoding the received input to a server (108); the server (108) with a pre-stored database (109) for different head movements and numerical mesh transformation for different head movements of the human face (102); a channel relay (109) for receiving the input which is connected to a power source (110) for a different electrical appliances (111).

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032839 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Internet of things based intelligent archery scoring automation system

(51) International classification :F41B 051400, F41J 030000, G10L 152600, H04L 122800, H04L 671200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Internet of things based intelligent archery scoring automation system Abstract: This project aims to improve the evaluation process in the game of archery by reducing human error and ensuring fair and accurate scoring. The current evaluation process has not changed for decades, leading to inconsistencies that can greatly affect athletes. To achieve this, a specially designed frame with sensors on each side will be placed on top of the target board to collect data on hit points. The collected data will then be processed by a software, which will assign scores and provide a viewing window for users. The output of this project will be a digitized scoring system that reduces human error and increases accuracy, providing a more fair and transparent evaluation process in archery.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032840 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ANTIDIABETIC POLYHERBAL DRUG LOADED CHITOSAN NANOPARTICLE AND A PROCESS THEREOF

(51) International classification :A61K 091600, A61K 095100, A61K 314355, A61P 031000, C07C 590800
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ANTIDIABETIC POLYHERBAL DRUG LOADED CHITOSAN NANOPARTICLE AND A PROCESS THEREOF. ABSTRACT Chitosan is a natural nontoxic biopolymer derived by the removal of an acetyl group (deacetylation) from chitin taken from the prawn shell. Chitosan nanoparticles are used as drug carrier. It improves drug solubility, stability, enhance efficacy and reduces toxicity by releasing drug slowly. The present study was carried out to synthesis chitosan from prawn shell and preparing drug loaded chitosan nanoparticles using poly herbal formulation (Andrographis paniculata, Andrographis alata, Adhatoda zeylanica, Gymnema sylvestre, Syzygium cumini, and Justicia glabra) and evaluated its antidiabetic efficiency. Chitosan nanoparticles were synthesized by ionic gelation method. Chitosan and drug loaded chitosan nanoparticles were characterized by XRD pattern, FTIR analysis and SEM studies. Prepared chitosan nanoparticles showed spherical in shape, nano range particle size. The size of drug loaded chitosan nanoparticles ranged from 37.6nm to 39.5nm. Nanoparticles were found to be crystalline in nature confirmed by X-ray diffraction (XRD). The prepared drug loaded chitosan nanoparticles exhibited 85% drug encapsulation efficiency. The present results suggested that drug loaded chitosan nanoparticles could be used as an ideal carrier to deliver antidiabetic drug to the specific target.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032841 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SpiCEN - A micro algae-based carbon Emission Neutraliser

(71) Name of Applicant :

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7)Ms. Lakkonda Geethika

8)Dr. Kowdodi Siva Prasad

9)Dr. Y. Anil Reddy

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(51) International classification :C02F 016600, C02F 032000, C10G 010600, C10L 053600, F01N 032000

(86) International Application No:PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to
Application Number :NA
Filing Date :NA

(62) Divisional to Application
Number :NA
Filing Date :NA

(57) Abstract :

SpiCEN - A micro algae-based carbon Emission Neutraliser Abstract: SpiCEN, or Spirulina Carbon Emission Neutraliser, uses an innovative technology designed to reduce the carbon footprint of power plants. It contains a Spiral Photobioreactor, which acts as an artificial growth medium for the Spirulina micro plant and captures carbon dioxide from the atmosphere using a novel technique based on the Peltier effect. The system converts wastewater and carbon dioxide emissions generated by Power Plants into oxygen using the photosynthesis process. The SpiCEN system is monitored and controlled using an IoT platform that has microcontrollers and sensors to detect CO₂, Dissolved Oxygen (DO), Total Dissolved Solids (TDS), Electrical Conductivity (EC), etc. The biomass generated from the SpiCEN has potential for use as biofuel. The SpiCEN technology has strong commercial potential and can revolutionize the way we approach carbon capture and wastewater treatment in power plants.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2023

(21) Application No.202341032842 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Nano-Thymoquinone (TQ) as High-Performance Drug Targeting Vehicle for Liver

(71)Name of Applicant :

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(57) Abstract :

Abstract: The high therapeutic performance nano formulation of Thymoquinone (TQ) has been developed for Liver aliments. Pure Thymoquinone (TQ) has poor solubility and toxicity at higher concentration. As a consequence, the therapeutic performance of TQ was limited in the drug targeting or drug delivery application. To overcome the limitation of this drug, nanocarrier was developed to release the Thymoquinone (TQ) at the site-specific delivery in the Liver. The nanocarrier based drug targeting to the liver for the delivery of Thymoquinone (TQ) was developed. The process consists of synthesis of NIPAAM (N-isopropylacrylamide) nanoparticles followed by coating with PAG (p-aminophenyl-1-thio-b-D-galactopyranoside). Thymoquinone (TQ) was added for the encapsulation of this compound in the hydrophobic core of the nanoparticles called nano formulation as Nanothymoquinone (NTQ). Keywords: Thymoquinone (TQ), Nanothymoquinone (NTQ), Nanocarrier, Nanoparticle, Liver, PAG and NIPAAM coating

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032898 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : NLP - BASED CUSTOMER ASSIST CHATBOT

(51) International classification	:G06F 163320, G06F 402840, G06N 200000, H04L 510200, H04M 035230	(71) Name of Applicant : 1)Hindustan Institute of Technology and Science Address of Applicant :Hindustan Institute of Technology and Science, P.O. No.1, Rajiv Gandhi Salai (OMR), Padur, Kelambakkam, Chennai, Tamil nadu- 603 103. E-mail: ipcell@hindustanuniv.ac.in Mobile: +91 9786143504 Chennai -----
(86) International Application No	:PCT//	2)S. Sathyalakshmi
Filing Date	:01/01/1900	3)Shreya Kishore
(87) International Publication No	: NA	4)Aishwarya Santosh
(61) Patent of Addition to Application Number	:NA	Name of Applicant : NA
Filing Date	:NA	Address of Applicant : NA
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
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(57) Abstract :

The goal of natural language processing (NLP) is to make it possible for computers to comprehend and utilise human language. AI has been used to create chatbots that can comprehend client enquiries and answer them in a manner that is natural and human-like. The field of product suggestions is one area where NLP-based chatbots are used. Customers who shop on e-commerce platforms are presented with an abundance of options, which promotes decision fatigue and drives them to put off making purchases. Conventional chatbots are restricted to following pre-established scripts and rules; they are unable to respond to questions or comments that were not included in the conversational flow. In order to improve AI systems, conversational AI uses ML techniques and NLP processes to create a continuous feedback loop. As a result, chatbots may engage with consumers and generate responses that seem natural. The suggested model tries to create a chatbot that can help clients. In order to process natural language texts, extract user intent, and provide the best-fit outcomes for the customer, a recommendation system is constructed utilising machine learning algorithms that make product suggestions based on user profiles and requests. This system is integrated with NLP.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032906 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Self-Assembling Organic Nanomaterials for Targeted Drug Delivery

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(57) Abstract :

The proposed invention involves the development of self-assembling organic nanomaterials for targeted drug delivery. This technology addresses the current limitations of conventional drug delivery methods by providing a more efficient, targeted, and safe platform for drug delivery. The self-assembling organic nanomaterials are designed to selectively target cells or tissues at the site of action, which can potentially improve the efficacy of drugs and minimize the risk of adverse effects. The invention has potential applications in the fields of cancer treatment, autoimmune disorders, infectious diseases, and personalized medicine. The development of self-assembling organic nanomaterials for targeted drug delivery is an exciting and promising field of research that can have significant implications for the future of medicine.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032919 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DUAL CHANNEL BLDC MOTOR CONTROLLER

(51) International classification :G05D 010000, H01L 210200, H01L 218238, H01L 270920, H01L 291610
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The purpose of this work is to present a state-of-the-art dual BLDC (Brushless Direct Current) motor controller that may be applied to the efficient and smooth mobilization of the STS (Spherical Tracked Robot) device. We are using the most recent developments in motor control technology to create a high-performance controller that can simultaneously run two BLDC motors in order to accomplish this. Because we can control both motors simultaneously, the STS device can travel in all four directions simultaneously: forward, backward, left, and right. We can make sure that the STS device moves with the greatest precision and accuracy thanks to the created controller. This is going to be very helpful for applications that need a lot of movement, like in small or limited locations. For example, the STS device can be used for inspection, surveillance, or maintenance in areas where traditional wheeled or tracked robots would struggle to navigate. The STS gadget will be able to move more smoothly and effectively thanks to the dual motor controller, which will reduce energy consumption and increase battery life. The field of mobile robotics will be significantly impacted by the development of this ground-breaking technology. We can expand the options for a variety of applications by improving the STS device's mobility and control. The dual BLDC motor controller could change how we think about robotic mobility and control, whether it is for industrial, commercial, or even military usage.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032923 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC POWER FACTOR CORRECTION AND DATA TRANSFERRING USING LoRaWAN TECHNOLOGY

(51) International classification	:G01S 190700, G05F 017000, G06F 030484, H02J 031800, H02M 014200	(71)Name of Applicant :
(86) International Application No	:PCT// /	1)Binu K. Mathew Address of Applicant :Kulakkattusseril House Kurichy P.O Kottayam Dist Kerala State -----
Filing Date	:01/01/1900	2)Dr. N. Mahendran
(87) International Publication No	: NA	3)Abhijith H
(61) Patent of Addition to Application Number	:NA	4)Kevin Mathew Cherian
Filing Date	:NA	5)Reju Mon T R
(62) Divisional to Application Number	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
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(57) Abstract :

This system uses two zero crossing detectors to detect voltage and current. It aims to reduce penalties for industrial units with automatic power factor correction. The project uses an Arduino and LoRa-WAN module. Operational amplifier circuits generate the time lag between zero-voltage and zero-current pulses. The program activates relays to bring shunt capacitors into the load circuit to improve power factor. The Arduino interfaces with the capacitor bank and relays using a relay driver. A LoRaWAN transmitter sends the output to a LoRaWAN receiver, which sends it to the server. An LCD displays the time lag between current and voltage. In this system, we can view the real time data's such as active power, reactive power and improved power factor in remote monitoring device. Power factor measures a system's power efficiency and is an important aspect in improving the quality of supply. In most power systems, a poor power factor resulting from an increasing use of inductive loads is often overlooked. A power factor correction unit would allow the system to restore its power factor close to unity for economical operation.

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032924 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT ANALYSIS OF DOCUMENT DRIVEN QA CHABOT

(51) International classification	:G06F 013203, G06F 095000, G08B 131960, H04N 214320, H05K 071400	(71) Name of Applicant : 1)Manikandan S Address of Applicant :Karpagam College of Engineering, Coimbatore - 641032, Tamil Nadu, India Coimbatore -----
(86) International Application No	:PCT//	-----
Filing Date	:01/01/1900	2)Dhanavishnu A 3)Paushigaa S
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
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(62) Divisional to Application Number	:NA	-----
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(57) Abstract :

Abstract INTELLIGENT ANALYSIS OF DOCUMENT DRIVEN QA CHABOT The Intelligent Analysis of Document Driven QA Chabot gets input from the user. The UI is made in such a way that it can get simple text as input from the text box (100), text documents (101), and even images (102). After data collection, here comes the data preprocessing (103). The text derived from the text box and the text document doesn't require external preprocessing since the simple vector model does it for us. The image that is given as input contains text data (104). The image is preprocessed using a computer vision module called cv2. The image is converted into its grayscale and the noise is removed. Contours are added and the font is dilated. The text from the image is extracted using a module called pytesseract. From now on the process is the same for all three types of files. The text being extracted is provided as input to a module called GPTSimpleVectorIndex (105). This module performs vector embedding to the raw text. The text is converted into an index file where the file contains key-value pairs (106). The bot is built on this indexed file such that when a user queries a question (107), it chooses a relevant value among all the key-value pairs and returns the answer (108).

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032961 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT SWITCHING OF BATTERY AND SUPERCAPACITOR IN EV

(51) International classification :H01G 116800, H01G 117000, H01G 118600, H01M 100525, H02J 073400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

After over a century of the internal combustion engine dominating the personal transportation sector, electric vehicles appears to be on the approach of seeing fast development in both established and emerging vehicle markets. Battery-powered electric vehicles have had issues with driving range and peak power generation; to address these issues, the battery size may be increased. However, this technique has several drawbacks, such as increased vehicle size, weight, and expense. In electric vehicles (EVs), when space and size of the energy storage system (ESS) are critical, a modified semi-active design for hybridising lithium ion battery (LiB) with super capacitor is utilised. The hybrid energy storage system (HESS) arrangement includes a bidirectional dc-dc converter with an effective control scheme to assure the HESS's desired functionality as well as to regulate power distribution between the LiB and the super capacitor module. In this method, there are three types of modes; 1). Battery standalone system 2). Super capacitor powering the load 3). Battery powering the load and charging the super capacitor. The load requirement of the vehicle varies depending on the terrain; for example, a vehicle needs higher torque to start and ascend a slope. The goal of the HESS system is to detect the necessary load conditions and power the vehicle accordingly. The real-time battery voltage is monitored and compared to the reference voltage using a PI controller. If the sensed DC link voltage falls below the reference voltage, the system switches to the super capacitor for power instead of the battery. Additionally, a reference super capacitor voltage is offered, and if the super capacitor voltage is lower than the reference voltage, a battery will power the load and charge the super capacitor. This technique can be taken into consideration to extend the range of the EV and lessen the present constraints that the vehicles experience, such as shorter battery life. The proposed system is designed and analysed in MATLAB/Simulink to test its performance for variations in irradiance, and the project's hardware implementation is completed. With the implementation of this system during peak load conditions super capacitor compensates the voltage drop.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032968 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTI CROP FERTILIZER SPREADER

	(71) Name of Applicant : 1)M.Kalaiselvi Address of Applicant :Assistant Professor, Department of Agricultural Engineering, Sri Shakthi Institute of Engineering and Technology(Autonomous), Coimbatore 641062 ----- 2)CHANDRU T 3)CHARUTHA V P 4)DEEBENDRANATH SARANGAN K 5)MAHALAKSHMI N B 6)M.ArunKumar Name of Applicant : NA Address of Applicant : NA
(51) International classification	:A01C 15/00
(86) International Application No	:PCT// /
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(57) Abstract :

Agriculture is a back bone of India in today's competitive world and there is a need of faster rate of production of agriculture products and also develop agricultural vehicle for performing major agricultural operations. The multi crop fertilizer spreader is a versatile agricultural machine that facilitates efficient and effective farming practices. This reduces the workload of farmers and saves time and labour costs. The amount of fertilizer wasted when spread manually can range from 10% to as much as 50% or more, depending on the specific circumstances. This is why using mechanized equipment like a fertilizer spreader is often recommended, as it can help ensure a more accurate and even distribution of fertilizer over the entire field. For example, the fertilizer for paddy ranging from 100-200 kg/ha of urea, 50-60 kg/ha of phosphorus, and 50-60 kg/ha of potash is applied without any wastage using the fertilizer spreader. The spreader is typically powered by the engine and can be adjusted to spread the fertilizer at various rates and widths. Usually it takes 50-60 minutes to spread fertilizer over one hectare manually. Whereas, fertilizer spreading machines can cover one hectare of land in less than 30 minutes. The results serve as a theoretical basis for the design of a fertilizer spreader and provide new ways to promote accurate and efficient spreading of fertilizer.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341032987 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Fruit Plucking Device

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	<p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p>
	<p>(72)Name of Inventor :</p>
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(51) International classification	:A01D 46/00, A01D 46/24
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(57) Abstract :

ABSTRACT A fruit plucking device is described herein. The present invention plucks the fruits from the trees without any damages. The fruit plucking device comprising an extending stick (11), a curve shaped body (2), a hollow passage, a gripper (1) with a plurality of finger shaped pivoted levers, a floating disk (4), a plurality of push rod (3), a lever (5a), an electric switch (5b), a string (6a), a linear actuator (6b), a holding stick (7), a cloth made tube (9), a collecting bag (8), a DC battery (10) and a trigger switch (12). The closing and opening of the gripper (1) is done by manually operated lever (5a) or electrically operated linear actuator (6b). The plurality of finger shaped pivoted levers are used to hold the identified fruit. The trapped fruit are pulled out manually to pluck from the tree. The plucked fruit is transferred safely by cloth made tube (9) and collected in the bag (8). Fig. 2

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033038 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Optically Transparent Polyvinyl Chloride(PVC) based Antenna For On Display Wireless Communication Applications

(51) International classification	:C08L 270600, H01Q 012200, H01Q 013200, H01Q 013800, H04B 070600	(71) Name of Applicant : 1)BTP Madhav Address of Applicant :Department of ECE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India ----- 2)Koneru Lakshmaiah Education Foundation Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor : 1)D. Ram Sandeep Address of Applicant :Associate Professor,Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam,Visakhapatnam, Andhra Pradesh, India531162 Visakhapatnam -----
Filing Date	:01/01/1900	2)B.T.P.Madhav Address of Applicant :Department of ECE, Koneru Lakshmaiah Education Foundation,Vaddeswaram, Guntur, Andhra Pradesh, India 522302 Vaddeswaram -----
(87) International Publication No	: NA	3)G. Lakshmi Sai Chandu Address of Applicant :Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam,Visakhapatnam ,Andhra Pradesh, India 531162 Visakhapatnam -----
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Filing Date	:NA	

(57) Abstract :

Mounting several access points and base stations for 5G and 6G wireless communication systems can cause clutter and unsightly infrastructure in urban environments. Optically transparent antennas (OTAs) are a potential solution to this problem, as they can provide coverage for wireless communication while maintaining device aesthetics and achieving transparency. OTAs can be installed on various surfaces, such as building windows, car windscreens, towers, trees, and smart windows, allowing network access for vehicles and pedestrians passing by these locations. Different techniques are used to design OTAs, including thin-film and mesh-grid techniques, which can transform the metallic parts of the antenna into a transparent material. In this work, a PVC based optically transparent was actualized with a dimension of 30x40x1.5 mm³. The conductive layers are actualized using copper and aluminum material, and a visibility analysis was performed. Better visibility in all light conditions was found for aluminum-based fabrication. The proposed antenna operates at 3.0, 3.6, 4.9 and 8.7GHz for On Display Wireless Communication Applications.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033097 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IoT system design AI-Based Reinforced Concrete Structure Fire Damage Assessment

(51) International classification	:C04B 280400, G01N 333800, G06Q 400800, G06Q 501000, G16H 502000	(71)Name of Applicant : 1)Ms.Shalja, Galgotias University Address of Applicant :Assistant Professor, Department of Civil Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 2)Mr. Karthikeyan, M, Galgotias University 3)Dr. Deepika Gupta, Galgotias University 4)Mr.A. Boobalan, Galgotias University 5)Dr Akhilendra khare, Galgotias University 6)Dr Nripendra Dwivedi, Galgotias University 7)Mr. Rikshit Kumar, Galgotias University 8)Mr. Anil Kumar Choudhary, Galgotias University 9)Mr B.Thillaiaswaran,Galgotias University 10)Mr.M.Ananda kumar, Arasu Engineering College Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:PCT// :01/01/1900	(72)Name of Inventor : 1)Ms.Shalja, Galgotias University Address of Applicant :Assistant Professor, Department of Civil Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 2)Mr. Karthikeyan, M, Galgotias University Address of Applicant :Assistant Professor, Department of Civil Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 3)Dr. Deepika Gupta, Galgotias University Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 4)Mr.A. Boobalan, Galgotias University Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 5)Dr Akhilendra khare, Galgotias University Address of Applicant :Associate Professor, School of Computing Science and Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 6)Dr Nripendra Dwivedi, Galgotias University Address of Applicant :Professor, School of Computing Science and Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 7)Mr. Rikshit Kumar, Galgotias University Address of Applicant :Assistant Professor, Department of Civil Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 8)Mr. Anil Kumar Choudhary, Galgotias University Address of Applicant :Assistant Professor, Department of Civil Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 9)Mr B.Thillaiaswaran,Galgotias University Address of Applicant :Assistant Professor, School of Computing Science and Engineering, Galgotias University, Plot No. - 2, Sector 17A, Yamuna Expressway, Greater Noida, Gautam Buddha Nagar, Uttar Pradesh, India. Pin: 201310 Greater Noida ----- 10)Mr.M.Ananda kumar, Arasu Engineering College Address of Applicant :Assistant Professor, Department of CSE, Arasu Engineering College Chennai Mainroad, Korattukaruppu, Kumbakonam, 612 501 Kumbakonam -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

New possibilities for autonomous damage assessment of buildings have emerged as computer vision has advanced rapidly. This study aims to develop a self-sufficient system utilizing deep learning methods for identifying fire damage in concrete structures. Here we introduce a new type of deep learning network that combines a Convolution Neural Network (CNN) and a Long Short Term Memory (LSTM) network. After the CNN is used to extract features, the LSTM is responsible for damage detection and classification. Then, we test the proposed hybrid network by simulating fire in three different types of self-compacting concrete (SCC) specimens and evaluating the consequent structural damage. Extensive tests are performed to determine the optimal values for the network's design and hyper-parameters. According to the research, the hybrid approach is more effective than the original method. Our findings show that the proposed framework is more effective than standard deep learning methods while retaining a high degree of robustness. Complete implementation of the proposed architecture would allow for broad deployment of autonomous damage detecting systems following catastrophic events like fires

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033105 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CEMENT COMPOSITION AND A PROCESS FOR ITS PREPARATION

(51) International classification :A61F 024600, A61K 092400, C04B 280200, H01L 271200, H01L 296600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT CEMENT COMPOSITION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a cement composition and a process for its preparation. The cement composition comprises at least one marine waste, at least one industrial waste and at least one additive. The cement composition of the present disclosure has enhanced compressive strength and flexural strength. The process for the preparation of the cement composition is environment-friendly, simple and efficient.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033107 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC WINDSHIELD WIPER LIFTING SYSTEM

(51) International classification :B60S 010400, B60S 010800, B60S 013400, B60S 013800, G02B 270100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT AUTOMATIC WINDSHIELD WIPER LIFTING SYSTEM The history of the windshield wiper began with the invention of the automobile. The research enabled to discuss the major problems occurring with the wiper blade under different circumstances. The invention made to find a common solution for all the escalated conditions. All the statements rise their concern on the contact of the wiper with the glass. So, making the wiperblade in contact with the glass whenever required and making it detached whenever it is no required has been thought as the solution for the above-mentioned problem statements. The observation and the resources give an opportunity to add a mechanical lifting system which is powered by vehicle battery, which is adjustable according to the requirements. A servo system could be good with a processing unit that controls the angle at which the wiper bladelifts from the hinge. The actuators push and pull the blade for the programmed angle and hold at its position. That is, a servo motor holds the wiper blade lift above the windshield when the wiper is in rest position. A new design is made for the system structure according to the conventional wiper system in Solidworks also simulation is done for this system accordingly

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033108 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR DETECTING PARKINSON'S DISEASE AND METHOD THEREOF

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3)Swapnil Choudhary

4)Saiteja Minnakanti

5)Sumanth Reddy Narayana gari

6)Dr Siva Shankar S

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(51) International classification :A61K 390000, A61K 480000, A61P 251600, C07K 147150, C12N 158700
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

ABSTRACT SYSTEM FOR DETECTING PARKINSON'S DISEASE AND METHOD THEREOF The invention discloses a system for detecting Parkinson's disease and method thereof. The system comprises of a data exploration module (101) for loading data into the system; a processing module (102) for pre-processing loaded data; a splitting module (103) for dividing the data into train and test; a model generation module (104) for model building; a registration module (105) for user signup and login; a user input module (106) to give input for prediction; and a prediction module (107) for displaying final prediction. Two longitudinal cohorts to train and cross-validate the models on one cohort were utilized, but also assess the generalization capability of these models on the other cohort. The objective was to predict the risk of ICDs at the next visit, knowing the clinical history of the patient and their genotyping data. Figure 1 shall be reference figure.

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033109 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GLASS-REINFORCED EPOXIDE RESIN LAMINATE AND METHOD THEREOF

(71)Name of Applicant :

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(51) International classification :B32B 270800, C08L 630000, G03F 070270, H01L 271460, H05K 011400

(86) International Application No :PCT//
Filing Date :01/01/1900

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

ABSTRACT GLASS-REINFORCED EPOXIDE RESIN LAMINATE AND METHOD THEREOF The composite materials are widely used in the world because of their superior advantages than other conventional materials. For example, aerospace applications need materials that should have low densities, high strengthened stiffness, good abrasive, and impact and corrosion resistance. Such a combination of characteristics is not met by conventional metals, alloys, ceramics and polymeric materials. Frequently, strong materials are relatively dense; also, increasing the strength or stiffness generally results in a decrease in impact strength. Composite materials are commonly used in structures which require lightweight, yet strength components. However there is an increased interest in the use of embedded steel wire in composites to structural performance, either in vibration control, or shape control. In such situations, two materials in combination may possess the desired properties, and a feasible solution to a materials selection problem. These materials are referred as composites.

No. of Pages : 27 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033110 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Machine Learning-Based Phishing Attack Detection

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3)**Mr. Valluri Dinesh Ram**

4)**Ms. Chinthapally Pravalika Reddy**

5)**Ms. Sara Uttejitha**

6)**Ms. Wairagare Sharanya**

7)**Ms. Garrepalli Shivani**

8)**Dr. Kowdodi Siva Prasad**

9)**Dr. Shradha Binani**

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(51) International classification :G06F 215500, G06N 030400, G06N 030800, G06N 200000, H04L 452400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

Machine Learning-Based Phishing Attack Detection ABSTRACT Phishing attacks are one of the most common social engineering attacks targeting users' emails to fraudulently steal confidential and sensitive information. They can be used as a part of more massive attacks launched to gain a foothold in corporate or government networks. Over the last decade, a number of anti-phishing techniques have been proposed to detect and mitigate these attacks. However, they are still inefficient and inaccurate. Thus, there is a great need for efficient and accurate detection techniques to cope with these attacks. In this paper, we proposed a phishing attack detection technique based on machine learning. We collected and analysis more than 4000 phishing emails targeting the email service of the University of North Dakota. We model these attacks by selecting 10 relevant features and building a large dataset. This dataset was used to train, validate, and test the machine learning algorithms. For performance evaluation, four metrics have been used, namely probability of detection, probability of miss-detection, probability of false alarm, and accuracy. The experimental results show that better detection can be achieved using an artificial neural network.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033112 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR ENABLING MULTISENSORY IMPAIRED INDIVIDUALS TO COMMUNICATE THROUGH AN INTELLIGENT COMMUNICATION DEVICE

(51) International classification	:G09B 210000, G09B 210400, G10L 152200, H04M 017245, H04W 040200	(71) Name of Applicant : 1)GITAM Deemed to be University Address of Applicant :GandhiNagar Campus, Rushikonda, Visakhapatnam-530045, Andhra Pradesh, India. Visakhapatnam ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor : 1)Dr. A.CH.SUDHIR Address of Applicant :Assistant Professor, Department of EECE, GST, GITAM (Deemed to be University), Visakhapatnam-530045, Andhra Pradesh, India. Visakhapatnam -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)Naga Sujay Kodali Address of Applicant :Department of EECE, GST,GITAM(Deemed to be University),Visakhapatnam- 530045, Andhra Pradesh, India. Visakhapatnam -----
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(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system and method for enabling multisensory impaired individuals to communicate through an intelligent communication device, comprising: one or more gloves configured to enable the multisensory impaired individuals to wear on both hands, in a ring, middle, and index fingers, the one or more gloves configured to enable the multisensory impaired individuals to tap on the one or more tactile sensors with one or more finger combinations corresponding to a braille code. The one or more tactile sensors are configured to send finger combinations data to an intelligent communication device. The intelligent communication device comprises a processing device that receives the finger combinations data and converts it into either text or sound. The intelligent communication device is configured to deliver the converted text or sound to a computing device over a network. FIG. 1

No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033117 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A hybrid variational convolution auto-encoder network on early diagnosis and prediction of cervical cancer

(51) International classification	:A61P 350000, G01N 336800, G06N 030400, G06N 030800, G16H 302000	(71) Name of Applicant : 1)St. Peter's Engineering College Address of Applicant :Opp to Forest Academy, Maisammguda Village, Dhulapally, Medchal -malkajigiri District, Hyderabad-500100 principal@stpetershyd.com 9959222268 Medchal-Malkajigiri -----
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	Name of Applicant : NA Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
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(57) Abstract :

Abstract Cervical cancer is one of the most common deadliest diseases among women worldwide. If damages the deep tissues of cervix and can gradually reach other areas of the human body such as the lungs, liver and vagina. Normally it grows in a slow manner. In order to prevent it, medical field has advanced to an extent that it can predict it in its early stages. Death can be prevented in case of early diagnosis, detection and even prevention can be possible. Hence in order to address the problem, machine learning (ML) and deep learning (DL) techniques provides a viable solution by analysing the patient's data thereby producing handy insights. The invention proposed here engulfs a unique way by utilizing deep learning techniques for effective prediction. To prevent the infection and to provide a cure based on the early clinical diagnosis, it is necessary to classify the cancerous pap smear tissue cells with the help of the deep learning techniques. Deep convolution neural network (DCNN) along with the variable auto encoder technique can be utilized for classifying the normal and the cancerous cervix cells. This classification will definitely help the physicians to detect and to diagnose the patients at the early stage within a short span of time. Accompanied Drawing [FIG. 1]

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033124 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : An All Textile Body Wearable Denim Based Antenna For WiMAX, Telemetry And X-Band Applications

(51) International classification	:A61B 050000, A61N 013720, G01S 139500, G06F 030100, H01Q 012700	(71) Name of Applicant : 1)BTP Madhav Address of Applicant :Department of ECE, Koneru Lakshmaiah Education Foundation, Vaddeswaram, AP, India ----- 2)Koneru Lakshmaiah Education Foundation Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor : 1)D. Ram Sandeep Address of Applicant :Associate Professor,Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam,Visakhapatnam, Andhra Pradesh, India531162 Visakhapatnam ----- 2)B.T.P.Madhav Address of Applicant :Professor, Department of ECE, Koneru Lakshmaiah Education Foundation,Vaddeswaram, Guntur, Andhra Pradesh, India 522302 Vaddeswaram ----- 3)P.Satyavani Address of Applicant :Department of ECE,Raghu Engineering College, Dakamarri, Bheemunipatnam ,Visakhapatnam ,Andhra Pradesh, India 531162 Visakhapatnam ----- 4)K.Pravallika Address of Applicant :Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam ,Visakhapatnam ,Andhra Pradesh, India 531162 Visakhapatnam ----- 5)N.Lokesh Address of Applicant :Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam,Visakhapatnam,Andhra Pradesh, India 531162 Visakhapatnam ----- 6)K.Raj kiran Address of Applicant :Department of ECE, Raghu Engineering College, Dakamarri, Bheemunipatnam ,Visakhapatnam, Andhra Pradesh, India 531162 Visakhapatnam -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This study exhibits the design and development of an all textile wearable antenna was implemented using Denim material as the substrate with a footprint of 20x30x1 mm3. It is intended for on-body wireless communication at frequencies of 1.5Ghz, 3.3Ghz, and 7.5Ghz at Telemetry, WiMAX and X-Band Applications. The design of the antenna being proposed is based on a naturally-inspired cactus shaped element as the prime radiator, which is supported by a defective ground plane. Conductivity was materialized through the conductive fabric. This method of fabrication enables the production of a conformable denim textile antenna that is lightweight, compact, and minimally affected by external factors, while maintaining high radiating efficiency. Such characteristics make it suitable for integrating wearable devices for body-centric applications. The simulated electromagnetic properties of the denim textile antenna were verified by conducting measurements in an anechoic chamber.

No. of Pages : 12 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2023

(21) Application No.202341033137 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SELF-POWERED FOOD CART WITH COMBINED SOLAR HEATING AND PHOTOVOLTAIC SYSTEM

(51) International classification	:F24S 603000, H01L 310440, H01L 311800, H02J 033800, H02S 404400	(71) Name of Applicant : 1)Axrad Renewpower Agri Machines Private Limited Address of Applicant :S.F. No. 491/1B, Senthampalayam, MasaGoundan Chettipalayam, Annur, Coimbatore- 641107. Coimbatore ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The embodiments herein relate to a self-powered food cart with combined solar heating and photovoltaic system (100). The system (100) includes a food cart (102), solar PV panels (104), and a solar heater (106). An electric conversion unit (200) converts solar energy into electricity for various electric loads (210). The solar PV panels (104) are connected based on power requirements, and the solar heater (106) incorporates collectors and a storage tank for hot water used in cooking processes. The electric conversion unit (200) consists of solar PV panels (104), a charge controller (204), a battery (206), an inverter (208), loads (210), and a control unit (212). The charge controller (204) manages battery charging, while the inverter converts DC power to AC power for the loads. The control unit (212) effectively operates the charge controller (204) and inverter (208) using pulse width modulation techniques. This self-powered food cart system (100) provides environmental sustainability, self-reliability, and cost-efficiency.

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033144 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : UNDERGROUND CABLE DEFECT RECOGNITION USING IMAGE PROCESSING

(51) International classification :G06K 096200, G06T 070000, H01B 034400, H02G 090200, H02G 090600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The world is fast-growing with its rapid industrialization and exponential growth of population. Hence, consumption of energy is also rising dramatically. With the advancement of technology, anything and everything in this world is now powered by electricity. Power transmission, thus, has to be uninterrupted. The conventionally used bare conductors are now being increasingly replaced by UG cables to minimize the number of faults and outages. So the quality of underground cables cannot be compromised. Poor quality of cables can result in unbalanced currents in each core, fast degradation of cables, cable sheath faults, short circuit to earth etc. Ensuring quality at the manufacturing industry itself can help in identification of defective cables before it reaches the site. This can save a lot of cost and effort. Hence we propose a system, utilizing image processing, to detect the possible faults in an underground cable at the manufacturing unit.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033149 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AI POWERED AUTONOMOUS EV

(51) International classification :A61N 013750, A61N 013780, G05D 010000, G05D 010200, H02J 073500
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

In recent years, there has been a growing interest in autonomous electric vehicle (AEVs) as a means of reducing carbon emissions and improving transportation efficiency. These vehicles are capable of operating without human intervention, using advanced technologies such as artificial intelligence (AI) and sensors to navigate and make decisions on the road. One of the key challenges in the development of AEVs is the integration of these technologies into a compact and cost-effective platform. In this project, we propose the use of the Raspberry Pi as the central computing unit for an AEV. The vehicle will be equipped with a set of sensors, such as LIDAR, cameras, and ultrasonic sensors, to collect data from its surroundings. The Light Detection and Ranging (LIDAR) system will consist of multiple lasers mounted on the vehicle, which will scan the environment at high speeds. We trained a deep learning model using the OpenCV framework to recognize objects and make decisions based on the vehicle's surroundings. This model is able to detect obstacles, traffic signs and lane markings and make appropriate decisions to navigate the vehicle safely. To ensure the safety of the vehicle and its passengers, the vehicle will be equipped with a fail-safe mechanism that will allow it to come to a halt if any critical issues arise. The vehicle will also be able to communicate with a remote operator in case of emergency situations and to perform various tasks such as delivery, transportation and surveillance. The modular design of the vehicle will allow for easy customization. It is a widely available and widely supported platform, making it easy to integrate with other systems and technologies. It is also highly energy-efficient, which is critical for an electric vehicle. The project will also focus on ensuring the safety and reliability of the vehicle, through the use of redundant systems and fail-safes, as well as extensive testing and validation. Overall, this project represents a significant advancement in the field of AI-powered autonomous vehicles and has the potential to revolutionize the transportation industry. The system will be able to learn from its experiences and adapt to changing conditions allowing for increased efficiency and safety. The use of Python and Raspberry Pi allows for a cost-effective and scalable solution, making this technology accessible to a wide range of users. The vehicle's electric power source ensures clean and sustainable operation, making it a suitable option for use in urban environments.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033157 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR SCREENING PHYTOCOMPOUNDS FOR TRIPLE INHIBITORY POTENTIAL AGAINST COX-1, COX-2, AND 5-LOX

(51) International classification	:A61K 311900, A61K 314050, A61K 314070, A61P 170400, C12N 090200	(71) Name of Applicant : 1)Dr. Mithun Rudrapal Address of Applicant :Department of Pharmaceutical Sciences, School of Biotechnology and Pharmaceutical Sciences, Vignan's Foundation for Science, Technology & Research, Guntur - 522213, Andhra Pradesh, India. Guntur ----- --
(86) International Application No	:NA	2)Dr. Johra Khan
Filing Date	:NA	3)Dr. Atul R. Bendale
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72) Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. Mithun Rudrapal Address of Applicant :Department of Pharmaceutical Sciences, School of Biotechnology and Pharmaceutical Sciences, Vignan's Foundation for Science, Technology & Research, Guntur - 522213, Andhra Pradesh, India. Guntur -----
Filing Date	:NA	2)Dr. Johra Khan Address of Applicant :Chirawak PO., Golawati, Bulandshahr – 245408, Uttar Pradesh, India. Golawati -----
		3)Dr. Atul R. Bendale Address of Applicant :Shree Mahavir Institute of Pharmacy, Nashik - 422202, Maharashtra, India. Nashik -----

(57) Abstract :

The present invention relates to a method for screening phytocompounds for their triple inhibitory potential against COX-1, COX-2, and 5-LOX is provided. The method involves molecular docking studies of phytocompounds, including curcumin, capsaicin, and gingerol, against the crystal structures of COX-1, COX-2, and 5-LOX, obtained from the Protein Data Bank. Ligands were prepared using the LigPrep module, and molecular dynamics simulations were performed using the Desmond module of Schrödinger software. Density functional theory analyses were carried out using the Gaussian09 program, and the QSAR study was performed using the HyperChem Professional 8.0.3 program. The method enables the identification of phytocompounds with high triple inhibitory potential, which may be further evaluated for their efficacy in vitro and/or in vivo.

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033158 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MEASURING THE LEVEL OF MENTAL HEALTH AT SCHOOL- DEVELOPMENT OF THE SCHOOL MENTAL HEALTH INVENTORY (FROM THE PERSPECTIVE OF STUDENTS, TEACHERS AND PARENTS)

(51) International classification	:A23L 331350, A61B 051600, G06Q 502000, G16H 102000, G16H 207000	(71) Name of Applicant : 1)Dr. J.O. Jeryda Gnanajane Eljo Address of Applicant :Associate Professor, Department of Social Work, Bharathidasan University, Khajamalai Campus, Tiruchirappalli- 620023, Tamilnadu, India Tiruchirappalli -----
(86) International Application No Filing Date	:PCT// :01/01/1900	2)Dr. S. Vijaya Lakshmi Address of Applicant :Adjunct Foreign Faculty, Department of Social Work, DMI- St, John Baptist University, Mangochi, P.O.Box 406, Malawi -----
(87) International Publication No	:NA	3)Dr. K. Shanthi Address of Applicant :Assistant Professor and Head, PG Department of Social Work, Guru Nanak College (Autonomous), Guru Nanak Salai, Velachery-600042, Tamilnadu, India Velachery -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)Dr. R. Anitha Address of Applicant :Former District Child Protection Officer, DCPU (Tiruchirappalli & Pudukkottai), Tamilnadu- 622005, India Tiruchirappalli -----
(62) Divisional to Application Number Filing Date	:NA :NA	5)Dr. S. Parameswari Address of Applicant :Counsellor, District Child Protection Unit, Tiruchirappalli, Tamilnadu- 622005, India Tiruchirappalli -----
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		9)Dr. R. Rohini Address of Applicant :Assistant Professor, Department of Social Work, The American College, Madurai- 625002, Tamilnadu, India Madurai -----
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(57) Abstract :

Introduction School Mental Health is generally understood as any mental health services delivered in a school setting. The increasing concern about the growing emotional disturbance and challenges faced by the school students gave a scope for the origin of School Mental Health. Purpose The purpose of the study is to develop a School Mental Health Inventory to measure the Mental Health Services rendered in School settings.(From the perspective of Students, Teachers and Parents) Implications It could play a vital role in helping the parents, teachers and students to improve the Mental Health services at school. Due to lack of Indian Measure of School Mental Health scale, the inventory has made an effort to measure the mental health services prevailing in school settings.

No. of Pages : 9 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033173 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IoT-based real-time intelligent water quality monitoring and pollution detection system

(51) International classification	:A47G 192200, C02F 010000, E21B 432000, G01N 330000, G01N 331800	(71) Name of Applicant : 1)Binu K. Mathew Address of Applicant :Kulakkattusseril House Kurichy P.O Kottayam Dist Kerala State ----- 2)Dr. Binu K. Mathew 3)Dr. Fossy Mary Chacko 4)Nikhil A 5)Shabin Kandisseril Shilu 6)Sreelakshmi S Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor : 1)Dr. Binu K. Mathew Address of Applicant :Professor Department of Electrical and Electronics Engineering SAINTGITS College of Engineering Kottukulam Hills Pathamuttom P. O ----- 2)Dr. Fossy Mary Chacko Address of Applicant :Associate Professor Department of Electrical and Electronics Engineering SAINTGITS College of Engineering Kottukulam Hills Pathamuttom P. O ----- ---
Filing Date	:01/01/1900	3)Nikhil A Address of Applicant :Department of Electrical and Electronics Engineering SAINTGITS College of Engineering Kottukulam Hills Pathamuttom P. O ----- 4)Shabin Kandisseril Shilu Address of Applicant :Department of Electrical and Electronics Engineering SAINTGITS College of Engineering Kottukulam Hills Pathamuttom P. O ----- 5)Sreelakshmi S Address of Applicant :Department of Electrical and Electronics Engineering SAINTGITS College of Engineering Kottukulam Hills Pathamuttom P. O -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

IoT-based real-time water quality monitoring systems are becoming increasingly important in ensuring the safety and integrity of our water supply. These systems are designed to continuously measure and transmit data on various water quality parameters, such as pH and turbidity, using sensors and other technologies. The collected data is then transmitted to a central server where it can be analyzed and used to detect potential water contamination events. One potential mitigation method for pH is the use of pH adjusting chemicals, such as acids or bases, to bring the pH of the water to a more neutral level. This can be especially important in situations where the pH of the water is outside of the acceptable range for drinking or irrigation. Similarly, high levels of turbidity, or the presence of suspended particles in the water, can be mitigated through the use of filtration or sedimentation to remove the particles. In addition to these methods, the use of sensors and other monitoring technologies can help to identify the source of the contamination and implement appropriate treatment strategies. This can involve the use of chemical treatments, physical separation techniques, or other methods to remove or neutralize contaminants. Overall, the use of IoT based real-time water quality monitoring systems can help to ensure the safety and quality of our water supply, protecting public health and the environment.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033182 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Microbial Fuel Cell Assisted Electricity Generation from Fish Market Wastewater

(51) International classification	:H01M 048600, H01M 048800, H01M 049000, H01M 049600, H01M 081600	(71) Name of Applicant : 1)Anbazhagi Muthukumar Address of Applicant :Department of Environmental Science, School of Earth Science Systems Central University of Kerala, Periy, Kasaragod, Kerala, 671121, India. Kasaragod ----- ---
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	2)Shilpa Padmanabhan 3)Muthukumar Muthuchamy Name of Applicant : NA Address of Applicant : NA
(62) Divisional to Application Number	:NA	(72)Name of Inventor : 1)Anbazhagi Muthukumar Address of Applicant :Department of Environmental Science, School of Earth Science Systems Central University of Kerala, Periy, Kasaragod, Kerala, 671121, India. Kasaragod ----- ---
Filing Date	:NA	2)Shilpa Padmanabhan Address of Applicant :Department of Environmental Science, School of Earth Science Systems Central University of Kerala, Periy, Kasaragod, Kerala, 671121, India. Kasaragod ----- ---
		3)Muthukumar Muthuchamy Address of Applicant :Department of Environmental Science, School of Earth Science Systems Central University of Kerala, Periy, Kasaragod, Kerala, 671121, India. Kasaragod ----- ---

(57) Abstract :

ABSTRACT [500] Our Invention “Microbial Fuel Cell Assisted Electricity Generation from Fish Market Wastewater” is a microbial power module for producing power. The microbial power module incorporates an anode and a cathode electrically coupled to the anode. The anode is in touch with a first liquid including microorganisms equipped for catalyzing the oxidation of ammonium. The anode is in touch with a subsequent liquid including microorganisms equipped for catalyzing the decrease of nitrite. The anode and the cathode might be housed in a solitary compartment, and the cathode might turn as for the anode. The microbial energy unit can be utilized to eliminate ammonium from wastewater, to produce power, or both. The current review is expected to treat the fish market wastewater combined with power creation involving halophiles in microbial energy unit (MFC) innovation under saline condition (4.606%). Halophile consortium got from desalination plant saline solution water was utilized in the lab scale air cathode microbial energy unit (ACMFC) reactor furnished with carbon brush and carbon material as anode and cathode. A broad scope of possibilities are as of now accessible for use in the manufacture of anode materials and can extensively limit the ongoing difficulties, like the requirement for great materials and their expenses. The creation of an anode utilizing biomass squander is an optimal way to deal with address the current issues and increment the functioning effectiveness of MFCs. Moreover, the ongoing difficulties and future viewpoints of anode materials are momentarily talked about.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033183 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Detecting Schizophrenia using Deep Learning Techniques (LSTM and CNN from Social Media)

(51) International classification	:G06N 030400, G06N 030800, G06Q 500000, H04L 515200, H04L 676300	(71) Name of Applicant : 1)Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad Address of Applicant :Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, 500090, India. Hyderabad ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	(72) Name of Inventor : 1)Mr. N Sandeep Chaitanya Address of Applicant :Dept. of CSE, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, India. Hyderabad ----- 2)Mr. Chunduri Sai Sri Harsha Address of Applicant :Dept. of CSE, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, India. Hyderabad ----- 3)Mr. Panditi Srikant Address of Applicant :Dept. of CSE, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, India. Hyderabad ----- 4)Mr. Tatipally Prashanth Address of Applicant :Dept. of CSE, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, India. Hyderabad ----- 5)Ms. Labishetti Nikhitha Address of Applicant :Dept. of CSE, Vallurupalli Nageswara Rao Vignana Jyothi Institute of Engineering & Technology Hyderabad, Telangana, India. Hyderabad -----
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT [500] Our Invention “Detecting Schizophrenia using Deep Learning Techniques (LSTM and CNN from Social Media)” is a Schizophrenia is a serious scholarly illness that is one of the primary explanations behind handicap on the planet. The recognition of this sort of a psychological problem is principal for the prosperity of people; Schizophrenia gets normally distinguished in later stages, where it turns into a great deal challenging for the individual to get treated consequently we want one more method for recognizing schizophrenia in advance so it won't run wild and can be dealt with without a hitch. One of the ways at present to identify schizophrenia is utilizing X-ray sweeps of the mind which can distinguish schizophrenia in later stages. The world we live in is a computerized world and practically every one individuals including all age bunches utilize the web and utilize virtual entertainment as a stage to offer their viewpoints and sentiments. In this way by utilizing the online entertainment profile of an individual we would have the option to identify Schizophrenia. This invention primarily manages different existing systems and disadvantages connected with the above issues like identifying Schizophrenia in beginning phases and recognition of Schizophrenia through various kinds of web-based entertainment posts.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033184 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Measuring Soil Nutrient Nitrogen Present in Soil using Artificial Intelligence

(51) International classification	:A01C 210000, B09C 011000, G01J 030200, G01N 332400, G06N 200000	(71) Name of Applicant : 1)KONERU LAKSHMAIAH EDUCATION FOUNDATION Address of Applicant :KONERU LAKSHMAIAH EDUCATION FOUNDATION , DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur -----
(86) International Application No	:PCT// :01/01/1900	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA Filing Date :NA	1)N. Lakshmi Kalyani Research Scholar Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION , DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur -----
(62) Divisional to Application Number	:NA Filing Date :NA	2)Dr. Kolla Bhanu Prakash Professor Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION , DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur -----

(57) Abstract :

ABSTRACT This paper describes a system that uses artificial intelligence (AI) to measure soil nutrient nitrogen present in soil for agricultural applications. The system is designed to improve crop yield while minimizing the negative impact of excessive nitrogen application on soil and the environment. The system uses cutting-edge technologies to analyse data from a variety of sources, including soil samples, meteorological data, and crop performance data, incorporating sensors, analytics tools, and AI algorithms. sources, such as soil samples, weather data, and crop performance data. The system then predicts soil nitrogen levels and provides recommendations for nitrogen application, optimizing fertilizer usage and reducing environmental impact. nitrogen to apply to their crops. much nitrogen to apply to their crops. The use of AI algorithms in measuring soil nitrogen levels can help reduce costs for farmers and improve the efficiency of nitrogen application. The proposed technology could revolutionise modern agriculture by empowering farmers to choose fertiliser wisely. application while minimizing the negative impact on the environment. Future work involves the integration of the system into existing agricultural technology, enabling widespread adoption and improving the efficiency and sustainability of modern agriculture.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033185 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Blockchain based Lightweight Authentication and Key Management Protocols for Internet of Everything

(51) International classification	:C04B 114000, G06F 011600, H04L 090800, H04L 093200, H04L 410226	(71) Name of Applicant : 1)KONERU LAKSHMAIAH EDUCATION FOUNDATION Address of Applicant :KONERU LAKSHMAIAH EDUCATION FOUNDATION , DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72) Name of Inventor : 1)N Subbareddy Ramireddy Research Scholar Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION, DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur ----- 2)Dr. Kolla Bhangu Prakash Professor Address of Applicant :DEPT. OF COMPUTER SCIENCE AND ENGINEERING, KONERU LAKSHMAIAH EDUCATION FOUNDATION, DEEMED TO BE UNIVERSITY , GUNTUR, A.P, INDIA -522302 Guntur -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA :NA	
Filing Date		
(62) Divisional to Application Number	:NA :NA	
Filing Date		

(57) Abstract :

ABSTRACT The utilization of Internet of Things (IoT) networks has increased significantly in various sectors such as industrial, medical, and commercial applications. The authentication of devices in IoT networks is crucial for ensuring network security. However, the current security model using centralized key exchange servers presents a security weakness. To address this, a decentralized approach is needed for network security management. Blockchain technology, with its decentralized model, can provide a solution for decentralized authentication in IoT networks. In this study, a lightweight Authentication-Chains protocol is proposed for IoT authentication based on a distributed ledger of blockchains. The protocol organizes nodes into clusters and creates an authentication blockchain for each cluster. These chains are connected by another blockchain, and a new consensus algorithm based on proof of identity authentication is employed to suit the limited computational capabilities of IoT devices. The proposed protocol's security performance is analyzed using cryptographic protocol verifier software and tested in a Raspberry Pi network test bed. We have examined a blockchain-based authentication protocol and found that it is vulnerable to session-specific temporary information attacks, where an attacker with access to ephemeral values can attempt to obtain the shared session key. Furthermore, the protocol does not offer forward secrecy, which means that an attacker with the server's long-term secret key can access previous session keys if they have already intercepted messages in a public channel during the session.

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033202 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Hepatoprotective Activity of Novel Polyherbal Agent Against Alcohol and Drug Induced Liver Disease

(51) International classification :A61K 361850, A61K 380000, A61P 011600, A61P 370200, C12N 090200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Herbal medicines are considered as boon for mankind which are used in the treatment of various diseases such as diabetes, liver disorders, CNS disorders etc proving the fact that 'Traditions of Yesterday are Drugs of Today' (Ranjit et al., 2014). Poly herbal extract contains a complex mixture of phytochemicals with an advantage over single molecules in treating such diseases, and the adverse toxic reactions are relatively more if the herbs/herbal extracts are used singly in a concentration of 100%. The advantage of multidrug regimen also lies in the fact that the possibility of development of drug resistance is minimized. The objective of the study is to prepare and evaluate the hepatoprotective activity of polyherbal extract made by mixing equal proportions of bioactive fractions of methanolic extracts of the plants, Echinochloa colonia (ECME), Lindernia ciliata (LCME), and Ludwigia hyssopifolia (LHME) against alcohol induced hepatotoxicity in vitro using Hep G2 cells and in vivo using wistar albino rats. The polyherbal extract was also assessed for curative effect against drug and chemical induced hepatotoxicity in rats. Methods: All the fractions of ECME, LCME and LHME were estimated for their total phenolic, flavonoid contents and assessed for various in-vitro antioxidant studies. The bioactive fractions (butanol fraction of ECME (BLF-ECME), butanol fraction of LCME (BLF-LCME) and butanol fraction of BNF-LHME were identified based on the results of their total phenolic, flavonoid contents and various in-vitro antioxidant studies. Acute toxicity study was conducted for all the fractions and the fractions were found to be safe upto a dose level of 1000mg/kg b.w. the poly herbal extract prepared from the three fractions was tested for hepatoprotective potential against alcohol induced hepatotoxicity in both in-vitro (HepG2 cells) and in-vivo using wistar albino rats at a dose of 50mg/kg. Then the polyherbal extract (50mg/kg) was evaluated for curative activity against paracetamol and D-Galactosamine induced hepatotoxicity in rats. Results: The polyherbal extract (50mg/kg) was found to be effective against ethanol, paracetamol (3g/kg b.w) and D-Galactosamine (400 mg/kg b.w. i.p.) induced hepatotoxicity in-vivo and the results were comparable to that of a standard drug silymarin (100mg/kg). The polyherbal extract (50mg/kg) has also shown potent antioxidant activity in vivo. Hence, HPLC fingerprinting analysis was performed in order to authenticate the extract. Conclusion: The polyherbal extract was identified as more potent than other fractions and is almost equally efficacious than that of standard drug silymarin.

No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033213 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A DIGITAL INTERFACE SYSTEM FOR PERSONAL IMAGE MANAGEMENT AND QUANTIFYING COMMUNICATION, BEHAVIORAL AND PERSONAL STYLING SKILLS

(51) International classification :A61Q 050600, G11B 270340, G11B 273200, H04N 098040, H04N 218100
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

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(72)Name of Inventor :

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(57) Abstract :

The present invention relates to a digital interface system to impart personal image management education focused on quantification of communication, behavioral and personal styling skills through the ‘Learning by doing’ pedagogy entailing participation in computerized quiz-based assessments, demonstration of skills through gamified challenges and availing image consultation services for wardrobe analysis and selection of dressing, accessorizing and personal styling by creating cluster combinations called ‘Look Books’. The said system is a web cum mobile based application comprising a user interface configured to capture user generated images and speech for the goal of measuring the aforementioned skills of influence and impact.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033323 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Low Cost Portable System for waste classification and management in municipalities using Edge computing and Convolutional Neural Networks

(51) International classification	:B65F 010000, C02F 010000, G06N 030400, G06N 030800, G06Q 502600	(71) Name of Applicant : 1)Aravind.S Address of Applicant :Indian Institute of Information Technology Kottayam, Valavoor P.O, Pala, Kottayam-686635, Kerala, India Kottayam -----
(86) International Application No	:PCT//	2)Dr. John Paul Martin
Filing Date	:01/01/1900	Name of Applicant : NA
(87) International Publication No	: NA	Address of Applicant : NA
(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
Filing Date	:NA	1)Aravind.S Address of Applicant :Indian Institute of Information Technology Kottayam, Valavoor P.O, Pala, Kottayam-686635, Kerala, India Kottayam -----
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Filing Date	:NA	

(57) Abstract :

ABSTRACT LOW-COST PORTABLE SYSTEM FOR WASTE CLASSIFICATION AND MANAGEMENT IN MUNICIPALITIES USING EDGE COMPUTING AND CONVOLUTIONAL NEURAL NETWORKS The proposed waste management system utilizes smart bins equipped with sensors and cameras to classify and monitor waste, enabling more efficient waste management and reduction of waste pollution. The system is powered by a combination of solar energy and battery backup and includes a low-cost actuator to open and close the bin's lid. The Raspberry Pi Microprocessor is used to process sensor data and send messages to the municipality, while cloud storage is used to store and analyze data. The system can be fine-tuned using collected data to improve its accuracy and effectiveness, and a reward system can be implemented to incentivize users to properly dispose of waste. Overall, the system aims to improve waste management practices and reduce waste pollution through the use of innovative technology and user incentives.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033354 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A COMPACT CONCRETE 3D PRINTER

(51) International classification	:B28C 054200, B33Y 300000, B41J 021750, B41J 290200, G01N 333800	(71) Name of Applicant : 1)Kelvin6k Technologies Private Limited Address of Applicant :S2, 2nd Floor, Harini Flats Sannathy Street Extn., Ganapathipuram, Radha Nagar, Chrompet, Chennai chennai ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Pradeepkumar Sundarraj Address of Applicant :S2, 2nd Floor, Harini Flats Sannathy Street Extn., Ganapathipuram, Radha Nagar, Chrompet,600044 chennai -----
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(61) Patent of Addition to Application Number	:NA	3)Harish G S Address of Applicant :S2, 2nd Floor, Harini Flats Sannathy Street Extn., Ganapathipuram, Radha Nagar, Chrompet, chennai -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A compact concrete 3D printer(300), for constructing buildings and structures, comprises a hollow tower(317), a load bearing column(304), a plurality of load transfer couplings(310), a Z-axis lifting mechanism for vertical movement, a robotic arm for horizontal movement, a cantilever beam(303), and a mobile base(308). The hollow tower(317) positioned on top of the mobile base(308) and the load-bearing column(304) is positioned inside the hollow tower(317) along the central axis. The plurality of load transfer couplings(310) are positioned at regular intervals along the load bearing column(304) and secured to the hollow tower(317) for transfer of load from the hollow tower(317) to the load bearing column(304). The hollow tower(317) supports the Z-axis lifting mechanism and the robotic arm. The cantilever beam(303) supports a hose supplying construction material to the printhead(301). The mobile base(308) moves the entire set-up when required. The compact concrete 3D printer (300) is light weight, stable and agile for fast printing.

No. of Pages : 27 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033384 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR THE PREPARATION OF 1,2,3-TRIAZOLE INCORPORATED 1,3,4-OXADIAZOLE-TRIAZINE DERIVATIVES WITH ANTICANCER ACTIVITY

(51) International classification	:A01N 436530, A61K 380700, A61P 350000, C07D 491400, C07K 040000	(71) Name of Applicant : 1)GITAM Deemed to be University Address of Applicant :GandhiNagar Campus, Rushikonda, Visakhapatnam-530045, Andhra Pradesh, India. Visakhapatnam ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72) Name of Inventor : 1)Prof. Rambabu Gundla Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 2)Mrs. Sujana Oggu Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 3)Dr. Srimannarayana Malempati Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 4)Dr. Naresh Kumar Katari Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 5)Mrs. Laxmi Kumari Nagarapu Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 6)Mrs. Vani Madhuri Velavalapalli Address of Applicant :Department of Chemistry, GITAM School of Science, GITAM Deemed to be University, Hyderabad, Telangana 502329, India. Hyderabad ----- 7)Dr. Sabitha.Yadam Address of Applicant :Cientia Life Sciences, Bioinformatics Organization, Hyderabad, Telangana, 500085, India. Hyderabad ----- 8)Dr. Krishnan Anand Address of Applicant :Department of Chemical Pathology, School of Pathology, Faculty of Health Sciences, University of the Free State, Bloemfontein, Free State 9300, South Africa. -----
(61) Patent of Addition to Application Number	:NA :NA	
(62) Divisional to Application Number	:NA :NA	
Filing Date		

(57) Abstract :

Exemplary embodiments of the present disclosure is directed towards a method for the preparation of 1,2,3-triazole incorporated 1,3,4-oxadiazole-triazine derivatives with anticancer activity comprising the steps cyclization of 4-aminobenzohydrazide with 4,6-dimorpholino-1,3,5-triazine-2-carboxylic acid in presence of phosphoryl chloride (POCl₃) to provide 4-(5-(4,6-dimorpholino-1,3,5-triazin-2-yl)-1,3,4-oxadiazol-2-yl) aniline followed by coupling of the compound of 4-(5-(4,6-dimorpholino-1,3,5-triazin-2-yl)-1,3,4-oxadiazol-2-yl) aniline with 2-azidoacetic acid in the presence of 1-Ethyl-3-(3 dimethylaminopropyl) carbodiimide (EDCI) and Hydroxy benzotriazole (HOBt) in tetrahydrofuran at atmospheric temperature to provide 2-azido-N-(4-(5-(4,6-dimorpholino-1,3,5-triazin-2-yl)-1,3,4-oxadiazol-2-yl) phenyl) acetamide followed by click reaction of the 2-azido-N-(4-(5-(4,6-dimorpholino-1,3,5-triazin-2-yl)-1,3,4-oxadiazol-2-yl) phenyl) acetamide with terminal alkynes in the presence of Na-ascorbic acid and copper sulfate pentahydrate (CuSO₄.5H₂O) in butanol and water to provide crude compound of formula (1) and by purifying crude compound to obtain formula (1). The obtained formula (1) has a purity greater than 99.5% by High performance liquid chromatography and is used in the preparation of pharmaceutical composition used as anti-cancer and anti-proliferative drugs. FIG.1

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2023

(21) Application No.202341033397 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROLE OF AI AND BLOCKCHAINS IN MAKING VARIOUS SEGMENTS OF FINANCIAL SECTOR AUTOMATED AND DECENTRALIZED

(51) International classification	:C08L 230800, G06F 111000, G06F 162300, G06F 162700, H04L 093200	(71) Name of Applicant : 1)R.M.K Engineering College Address of Applicant :R.S.M Nagar, Kavaripettai, Gummidi poondi Taluk, Thiruvallur District, Pin Code: 601206 ----
(86) International Application No	:PCT//	Name of Applicant : NA
Filing Date	:01/01/1900	Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr.J.Jeno Jasmine
Filing Date	:NA	Address of Applicant :Associate Professor, CSE Department, R.M.K. Engineering College, R.S.M. Nagar, Kavaraipettai, Gummidi poondi Taluk, Tiruvalur District, Pin Code: 601206 ----
(62) Divisional to Application Number	:NA	2)Ms. Llampiray P
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No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033458 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMAGE PROCESSING SYSTEM BASED ON IOT FOR OBSTACLE DETECTION ON ROADS

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3)Dr.B.Anupriya

4)Dr.Ajit Kumar Rout

5)Dr.Jaishri Wankhede

6)Dr.Dasari Vijaya Kumar

7)Dr.A.Shyamala

8)Dr. Naga Gopi Raju Vullam

9)Dr.T.Syamsundararao

10)Mr.G.Kiran Kumar

Name of Applicant : NA

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(57) Abstract :

The proposed invention is an image processing system based on the Internet of Things (IoT) for obstacle detection on roads. It aims to enhance road safety by utilizing advanced image processing algorithms and interconnected sensors to detect and identify potential obstacles or hazards on the road in real-time. The system combines the power of computer vision with IoT infrastructure to provide comprehensive coverage, accurate detection capabilities, and timely responses to potential obstacles. By leveraging the IoT infrastructure, the system can exchange data with other transportation management systems, traffic monitoring systems, and infrastructure components, enabling coordinated responses and improved traffic flow. The proposed invention offers scalability, adaptability, and integration potential, making it a valuable solution for both urban and rural road networks. It has the potential to revolutionize obstacle detection systems, ensuring safer road environments for all users. Accompanied Drawing [FIGS. 1-2]

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033460 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ZINC OXIDE NANOSTRUCURES BASED ELECTROCHEMICAL BIOSENSOR FOR DETECTION OF HYDROGEN PEROXIDE ANALYSIS

(51) International classification :A61K 082700, C12Q 010000, C12Q 012600, G01N 273270, G01N 330000
(86) International Application No.:PCT//
Filing Date :01/01/1900
(87) International Publication No.: NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Electrochemical biosensors have shown great potential in the medical diagnosis field. The performance of electrochemical biosensors depends on the sensing materials used. ZnO nanostructures play important roles as the active sites where biological events occur, subsequently defining the sensitivity and stability of the device. ZnO nanostructures have been synthesized into four different dimensional formations, which are zero dimensional - utilized for creating more active sites with a larger surface area, one - provide a direct and stable pathway for rapid electron transport, two dimensional - possess a unique polar surface for enhancing the immobilization process and three dimensional - create extra surface area because of their geometric volume. The sensing performance of each of these morphologies toward the bio-analytic level makes ZnO nanostructures a suitable candidate to be applied as active sites in electrochemical biosensors for medical diagnostic purposes. This review highlights recent advances in various dimensions of ZnO nanostructures towards electrochemical biosensor applications.

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033486 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND PROCESS FOR DYNAMICALLY MANAGING A LESS-THAN-CONTAINER LOAD

(51) International classification :G06F 093800, G06F 095000, G11B 273600, H04L 450000, H04N 057600
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT SYSTEM AND PROCESS FOR DYNAMICALLY MANAGING A LESS-THAN-CONTAINER LOAD The present invention discloses a system and process for dynamically managing a less-than-container load. The system (100) comprises one or more freight forwarder devices (102), a database server (104), a pre-booking unit (106), a load plan optimizing unit (108), a first computing unit (110), a confirmation unit (114), a schedule computing unit (118), and a container schedule unit (105). The system (100) enables efficient use of space in one or more shipping containers by pre-booking dynamically defined spaces. The system (100) is adapted to provide increased efficiency and cost savings in the shipping industry, as well as improved customer satisfaction through more accurate pricing and optimized use of space in the container. The system (100) is provided with a discrete tracker to control over the movement of the one or more less-than-container loads (LCL). The system (100) provides greater visibility into less-than-container loads (LCL) flow, information flow, and pricing. FIG. 3

No. of Pages : 26 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033492 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF PANEER SPREAD

(51) International classification	:A23D 070150, A23L 190000, G06F 083600, G06F 083800, G16H 508000
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Paner is a semi-soft cheese with 50-60% moisture. It is usually eaten fresh but can be stored for two weeks to two months. PFA (1997) requires it to have no more than 70% moisture and 50% milk fat. India's traditional coagulated dairy products are paneer and chhana. Small vendors and halwais make these dairy items traditionally. These items have a shorter shelf life due to unclean manufacturing. Demand for these products grows annually. Modern processing technologies are needed to create innovative, high-quality, long-lasting products. To keep paneer popular, organised Indian dairies must modernise and scale up production. Butter and cheese spreads dominate the domestic market. Due to the risk of coronary heart disease, most consumers, especially fat-conscious ones, avoid butterfat. Butter's high cost, saturated fatty acids, cholesterol, calorific value, and poor spreadability below 15°C limit its use. Cheese spread, which covers the nutritional needs of all age groups, is unpopular in India due to its taste and religious beliefs (vegetarians loathe calf rennet). Considering these factors, paneer spread is an alternative to cheese and butter.

No. of Pages : 22 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033493 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF FILLED PANEER SPREAD WITH VEGETABLE OIL

(51) International classification	:A23D 070050, A23K 201580, A23L 190000, A61K 089200, A61K 474400
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Paneer is a semi-soft cheese with 50-60% moisture. It is usually eaten fresh but can be stored for two weeks to two months. PFA (1997) requires it to have no more than 70% moisture and 50% milk fat. Spreads: Butter and cheese spreads are the main household spreads. Due to the risk of coronary heart disease, most consumers, especially fat-conscious ones, avoid butterfat. Butter's high cost, saturated fatty acids, cholesterol, calorific value, and poor spreadability below 15°C limit its use. Cheese spread, which covers the nutritional needs of all age groups, is unpopular in India due to its taste and religious beliefs (vegetarians loathe calf rennet).

Considering these factors, paneer spread is an alternative to cheese and butter. Vegetable oils or proteins partially replace milk fat or solids to make filled paneer spread. Vegetable oils such as corn and sunflower oils are substantially less expensive than milk fat. So milk fats can be partially substituted with these fats and filled milk can be used for paneer spread preparation. Paneer spread can contain tiny amounts of high-protein soy flour. These lower paneer prices and milk fat cholesterol. Filled paneer spread uses skim milk efficiently.

No. of Pages :20 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033505 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FUNCTIONAL PANEER SPREAD WITH SOY FLOUR AND SOY OIL

(51) International classification	:A23L 110000, A23L 331150, A61K 361850, A61K 367520, A61K 368890
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Paner is a semi-soft cheese with 50-60% moisture. It is usually eaten fresh but can be stored for two weeks to two months. PFA (1997) requires it to have no more than 70% moisture and 50% milk fat. Spreads: Butter and cheese spreads are the main household spreads. Due to the risk of coronary heart disease, most consumers, especially fat-conscious ones, avoid butterfat. Butter's high cost, saturated fatty acids, cholesterol, calorific value, and poor spreadability below 15°C limit its use. Cheese spread, which covers the nutritional needs of all age groups, is unpopular in India due to its taste and religious beliefs (vegetarians loathe calf rennet). Considering these factors, paneer spread is an alternative to cheese and butter. Vegetable oils or proteins partially replace milk fat or solids to make filled paneer spread. Soy oil and flour are cheaper than milk fat. These fats can partially replace milk fats and make paneer spread from filled milk. Paneer spread can contain tiny amounts of high-protein soy flour. These lower paneer prices and milk fat cholesterol. Filled paneer spread uses skim milk efficiently.

No. of Pages : 17 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033521 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPMENT OF COW MILK AGAR CAKE

(51) International classification	:A23C 070400, A61K 087300, A61K 089800, C08B 371200, G01N 330400
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

India leads milk production. FAOSTAT reported 209.96 MT of milk output. The global production was 21%. To retain nutritional value and shelf life, surplus milk is being turned into indigenous milk products. 50% of India's milk is processed into traditional milk products. About 150 milk-based sweetmeats are available in India, many of which are only found in local areas. Our country has long created Khoa, Paneer, Chhana, Dahi, and other traditional milk products for social, economic, and religious reasons. The Indian dairy industry needs innovative technologies to make these economically viable products. Indian sweets have been reformulated and processed by unsung master confectioners for millennia. Milk cake, a semisolid milk-based paste, is a popular dairy product worldwide. Milk cake, created by heating, concentrating, freezing, and chilling, is eaten after the main course. Human tastes create complicated mixes of substances. Milk solids, sugar, hydrocolloids, colourants, and flavourings are included. They are liquid and semisolid. Rabri, kheer, custards, and basundi are notable goods in this category.

No. of Pages : 21 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033570 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FUNCTIONAL PANEER SPREAD WITH WPC AND SODIUM CASEINATE

(51) International classification	:A23J 012000, A23L 026600, A23L 190000, C07K 144700, C08J 051800
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

Paner is a semi-soft cheese with 50-60% moisture. It is usually eaten fresh but can be stored for two weeks to two months. PFA (1997) requires it to have no more than 70% moisture and 50% milk fat. Spreads: Butter and cheese spreads are the main household spreads. Due to the risk of coronary heart disease, most consumers, especially fat-conscious ones, avoid butterfat. Butter's high cost, saturated fatty acids, cholesterol, calorific value, and poor spreadability below 15°C limit its use. Cheese spread, which covers the nutritional needs of all age groups, is unpopular in India due to its taste and religious beliefs (vegetarians loathe calf rennet). Considering these factors, paner spread is an alternative to cheese and butter. Processed cheese has advanced globally. These items have always been a focus of study and development to satisfy the desires and requirements of ever rising consumers. WPC and sodium caseinate with improved sensory and nutritional properties have been used in research to lower product costs.

No. of Pages : 2 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033575 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SUPPORTING DEVICE FOR AN OMNIDIRECTIONAL PLATFORM

(51) International classification :F16C 320600, F21K 092320, G02B 130600, H01Q 212000, H04N 052320
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

7. ABSTRACT A supporting device (100) for an omnidirectional platform is designed for support in VR, exercises and rehabilitation routines. It comprises a circular stationary bottom base (102) with adjustable floor clips (120), an axis rod (104), a ball bearing (106), a metal frame (110), at least two pneumatic pinions (112), holding arms with gears (114), arms holding belt (116), detachable safety belt (118), and a Top operable holding member (122). The device provides a stable base while allowing flexible movement in different directions, and the top operable holding member (122) supports the user's weight and provides flexible movement in up and down directions. The device can be flexible based on the user's needs and preferences and can be easily disassembled for convenient transportation and space-saving. The figure associated with the abstract is Fig. 1

No. of Pages : 25 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033576 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM AND METHOD OF WRITING APPARATUS MADE OF BAMBOO THEREOF

(51) International classification :A61K 368990, E04F 130770, F16B 050000, G03F 072000, H01J 373170
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT A system of writing apparatus made up of bamboo produced by using sustainable and eco-friendly minimal processing steps. A method of the writing apparatus made up of straight bamboo sticks, the selective bamboo in both condition like fresh and dry are pre-treated and dried straight bamboo sticks are cut for the length (101) of 100 to 120 mm and diameter (102) of the bamboo sticks in the range of 7 mm to 9 mm. A hole with a diameter (103) of 2.5 mm to 4 mm is drilled at the centre of the bamboo using a drilling machine. The bamboo hole diameter (103) is selected on the basis of the diameter of the ballpoint pen refills.

No. of Pages : 15 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033578 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : “ A SYSTEM FOR AUTOMATIC DETECTION, IDENTIFICATION AND CLASSIFICATION OF MICROBES AND A METHOD THEREOF”

(51) International classification :C07K 070800, G01R 310000, G06K 096200, G06T 050000, G06T 070000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

Present invention discloses a system (S) for automatic detection, identification and classification of microbes and a method thereof. The system (S) of the present invention utilizes a set of sensors (SD) to collect data and apply a hybrid neuro fuzzy method to predict the presence of microbes. The present invention discloses a hybridized deep learning method with fuzzy linguistic model as a decision support system that facilitates to automatically detect, identify and classify the type of microbes with least human intervention. The system (S) of the present invention is very cost effective and provides fast, simple and accurate solutions for detection, identification and classification of microbes. The said system (S) has potential applications in various fields like microbiology, food and beverage industries, clinical and medical research, healthcare, agriculture, hygiene and sanitation etc. Figure 1(a)

No. of Pages : 63 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033597 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT ELECTRIC VEHICLE CHARGING SYSTEM USING AI AND IOT

(51) International classification :B60L 531400, B60L 531600, B60L 533000, B60L 536600, H02J 070000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The proposed invention is an intelligent electric vehicle (EV) charging system that combines artificial intelligence (AI) and the internet of things (IoT) technologies. This system aims to optimize the EV charging process by analyzing various data sources, such as weather forecasts, traffic patterns, and user behavior, using AI algorithms. By considering factors like the vehicle type, battery condition, and anticipated usage time, the system predicts the optimal charging schedule for each EV. Through real-time communication with the EV and the power grid, the system adjusts the charging rate and schedule based on battery conditions and grid demand. The intelligent EV charging system enhances efficiency, convenience, and cost-effectiveness for EV owners, while also promoting sustainability by integrating renewable energy sources.

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033692 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A Computer Assisting Decision Support System for Accurate Stock Market Investment and Method Thereof

(51) International classification :A61B 050830, G06Q 400400, G06Q 400600, G16H 502000, H04N 072000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

ABSTRACT: Title: A Computer Assisting Decision Support System for Accurate Stock Market Investment and Method Thereof The present disclosure proposes a stock price prediction system in specific relates to a computer assisting decision support system (100) for stock market investment. The computer assisting decision support system (100) comprises a computing device (102) having a controller and a memory for storing one or more programs and executing multiple program. The computing device (102) comprises multiple modules (108) for assisting the investor for stock market investment. The computer assisting decision support system (100) for providing important information for accurate stock market investment. The computer assisting decision support system (100) for conducting the survey among most experience respondents in different sectors.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/05/2023

(21) Application No.202341033693 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A System for Stock Price Prediction Using Deep Neural Network and Method thereof

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(51) International classification :G06N 030400, G06N 030800, G06Q 100400, G06Q 300200, G06Q 400400
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

ABSTRACT: Title: A System for Stock Price Prediction Using Deep Neural Network and Method thereof The present disclosure proposes a stock price prediction system in specific relates to an intelligent system (100) for automatic stock price prediction by using convolution neural network (CNN) and extreme gradient boosting (XGBoost) prediction approaches. The intelligent system (100) for automatic stock price prediction by providing suitable of stock price prediction approach to achieve highest prediction accuracy rate of 90%. The intelligent system (100) for automatic stock price prediction comprises a data acquisition module (106), a conversion module (108), a data processing module (110), an evaluation module (112) and a comparison module (114). The intelligent system (100) for obtaining high efficient stock price hypothesis to predict stock price automatically by extracting information from variables. The intelligent system (100) using stock price prediction approach for achieving highest possible accuracy in prediction of stock price.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202341033745 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ATTENTION MONITORING AND GENERATING STATISTICAL DATA USING AI

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(57) Abstract :

This project aims to develop an AI system that can monitor and analyze people's attention levels in real-time using sensors and computer vision techniques. The system will collect data on various factors that affect attention levels, such as environmental factors, task complexity, and individual differences, and use machine learning algorithms to generate statistical reports and insights. The goal is to provide users with a user-friendly interface that displays real-time attention data and offers personalized recommendations for optimizing their attention levels. Potential applications of the system include improving productivity in workplaces, optimizing learning environments, and enhancing mental health assessments.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202341033750 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A MACHINE LEARNING-BASED CLASSIFICATION AND PREDICTION TECHNIQUE FOR DDOS ATTACKS

(51) International classification	:G06K 096200, G06N 030800, G06N 050400, G06N 200000, H04N 195930	(71) Name of Applicant : 1)Mr.K.BALACHANDER Address of Applicant :Assistant Professor, Dept of CSE Velammal Institute of Technology, Chennai-KolkataNationalhighway,Panchetti,Ponneri, Thiruvallur(DT)-601204 ----- ---
(86) International Application No Filing Date	:PCT// :01/01/1900	2)KAMALESH U 3)RAJESH P 4)THARUN KARTHIKEYANK 5)VARUN BABU B 6)Kasthuri K 7)Yuvanthy K 8)Nivetha Shree P.S Name of Applicant : NA Address of Applicant : NA
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(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Distributed network attacks are referred to, usually, as Distributed Denial of Service(DDoS) attacks. These attacks take advantage of specific limitations that apply to any arrangement asset, such as the framework of the authorized organization's site. In theexisting research study, the author worked on an old KDD dataset. It is necessary to workwith the latest dataset to identify the current state of DDoS attacks. This paper, used amachinelearningapproachforDDoSattacktypesclassificationandprediction. Forthis purpose,usedRandomForestandXGBoostclassificationalgorithms. Toaccesstheresearch proposed a complete framework for DDoS attacks prediction. For the proposedwork,theUNWS-np-15 dataset was extracted from the GitHub repository and Python was used as a simulator. After applying the machine learning models, we generated a confusion matrix for identification of the model performance. In the first classification,the results showed that both Precision (PR) and Recall (RE) are _89% for the RandomForest algorithm. The average Accuracy (AC) of our proposed model is _89% which issuperbandenoughgood. Inthesecondclassification,theresultshowedthatbothPrecision (PR) and Recall (RE) are approximately 90% for the XGBoost algorithm. Theaverage Accuracy (AC) of our suggested model is 90%. By comparing our work to theexistingresearchworks, theaccuracyofthedefectdeterminationwassignificantlyimprovedwhichis approximately85%and79%,respectively.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202341033762 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT Based Smart Vidyut Meter

(51) International classification	:G06Q 500200, H04L 090600, H04L 093000, H04L 671200, H04W 841800	(71) Name of Applicant : 1)Dr. G B Krishnappa Address of Applicant :Dean (R&D), Vidyavardhaka College of Engineering, Gokulam 3rd Stage, Mysuru - 570 002 ----- --
(86) International Application No	:PCT//	2)Vidyavardhaka College of Engineering Name of Applicant : NA Address of Applicant : NA
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Filing Date	:NA	

(57) Abstract :

As per the current technology, human intervention is very much essential to record the electricity consumption of every home. The present energy meter is only one side communication. Thus, to avoid human intervention, The proposed smart Vidyut Meter uses Internet of Things (IoT) to automate remote data collection and that will eliminate billing error, human Intervention and save time for electricity board employees. The methodology involves IoT to monitor the electricity consumption of every home by Integrating the electric meter board to a microcontroller, which will use sensors to read the meter board and then update the readings on an IoT cloud that will be linked via a Wi-Fi module. The work also involves cellular connectivity to provide secure measurement of reading from the meter to the consumer. Automatically it calculates the bill with the help of IoT, controls and calculates the energy consumption and uploads it to the consumer to view the reading. Therefore, energy utilization can be known by the user, and it also helps in detecting power theft with the use of IoT and good step towards digital India. Thus, to analyze and control power consumption, use of IOT plays an important role.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202341033772 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC CAR BEAM ADJUSTMENT DEVICE

(51) International classification :B23K 260600, B60Q 010760, H01J 372800, H04B 070600, H04L 050000
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

An automatic automobile beam adjustment device has sensors, control electronics, and actuators. An architecture overview: Sensors: The automatic automobile beam adjustment gadget collects driving data from multiple sensors. Ambient light, proximity, and camera sensors are examples. The vehicle's exterior and interior sensors collect data on the road, environment, and vehicle. Control electronics: The automatic automobile beam adjustment system uses sensor data to modify the headlights. Complex algorithms may analyse sensor data and make driving-condition-based decisions. Actuators: After determining the headlight adjustments, the automatic automobile beam adjustment device's control electronics trigger the actuators to make the modifications. Motors that control headlamp angle or light intensity may be actuators. Power supply: Automatic automobile beam adjustment requires power. Auxiliary power or the vehicle's battery can provide this. An automatic car beam adjustment device gathers and processes driving data to create precise headlamp adjustments. This improves driver visibility and reduces road glare.

No. of Pages : 20 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2023

(21) Application No.202341033773 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MUSIC BELL HEALING DEVICE

(51) International classification	:A61P 170200, B05B 050400, G06F 166380, G06Q 501200, G10H 010000	(71) Name of Applicant : 1)Dr. V Sridhar Address of Applicant :Dr. V Sridhar Dean Academics & Professor Emeritus Department of Electronics & Communication Engineering, Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru-560064, Karnataka, India dean-academics@nmit.ac.in 9448333277 ----- 2)Nitte Meenakshi Institute of Technology, Bengaluru Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor : 1)Dr. V Sridhar Address of Applicant :Dr. V Sridhar Dean Academics & Professor Emeritus Department of Electronics & Communication Engineering, Nitte Meenakshi Institute of Technology, Yelahanka, Bengaluru-560064, Karnataka, India dean-academics@nmit.ac.in 9448333277 ----- 2)Nitte Meenakshi Institute of Technology, Bengaluru Address of Applicant :Nitte Meenakshi Institute of Technology, Bengaluru P.B.No.6429. Yelahanka, Bangalore 560064, Karnataka, India. dean-academics@nmit.ac.in 9448333277 -----
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The Music Bell Healing Device is a modern innovation in the field of sound therapy and wellness. The device combines the traditional elements of a metal bell with modern technology to create a unique and customizable sound experience. The device is primarily designed to promote relaxation, reduce stress, and improve mental well-being through sound therapy. The Music Bell Healing Device is a complex piece of technology that integrates a range of hardware and software components to provide a seamless and immersive sound therapy experience. The device's architecture can be broken down into several key components, including the bell itself, the internal speaker, the control panel, and the programming and software systems.

No. of Pages : 14 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2023

(21) Application No.202341033829 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT BASED FLAME WEEDING MACHINE

		<p>(71) Name of Applicant :</p> <p>1) Kalaiselvi M</p> <p>Address of Applicant :M.Kalaiselvi Assistant Professor, Department of Agricultural Engineering, Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>2) Ibrahim Sheriff K A</p> <p>3) Karthikeyan A</p> <p>4) Sindhu R</p> <p>5) Naveen Shaw B</p> <p>6) Raja dharani S</p> <p>7) Praanes Nisanthan K</p> <p>8) ArunKumar M</p> <p>Name of Applicant : NA</p> <p>Address of Applicant : NA</p> <p>(72) Name of Inventor :</p> <p>1) Kalaiselvi M</p> <p>Address of Applicant :M.Kalaiselvi Assistant Professor, Department of Agricultural Engineering, Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>2) Ibrahim Sheriff K A</p> <p>Address of Applicant :Head of the Department, Department of Agricultural Engineering, Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>3) Karthikeyan A</p> <p>Address of Applicant :Assistant Professor, Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>4) Sindhu R</p> <p>Address of Applicant :D/O, Ravi V, Third B.E (Agriculture Engineering) Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>5) Naveen Shaw B</p> <p>Address of Applicant :S/O, Bernard Shaw R, Third B.E (Agriculture Engineering) Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>6) Raja dharani S</p> <p>Address of Applicant :D/O,Somasundaram V, Third B.E (Agriculture Engineering) Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>7) Praanes Nisanthan K</p> <p>Address of Applicant :S/O, Kalimuthu T , Third B.E (Agriculture Engineering) Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p> <p>8) ArunKumar M</p> <p>Address of Applicant :Assistant Professor, Department of Agricultural Engineering, Sri Shakthi Institute of Engineering and Technology (Autonomous), Coimbatore-641062 -----</p>
(51) International classification	:A01B 391800, A01D 344160, C08K 053492, H04L 675100, H04W 120600	
(86) International Application No	:PCT// /	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Weeding is one of the prominent crop prevention practice that is carried out in agriculture. It is done in various ways such as mechanical, chemical and non-chemical methods. One of the modern and efficient method is flame weeding, a non chemical method, which is 100% effective at killing the weeds at their early growth stage. Main purpose of this Flame weeder is to remove the weeds from the agricultural land before sowing. The source of energy can be of any hydrocarbon elements. Here the energy to power this flame weeder is attained from LPG (Liquefied Petroleum Gas). The choice of this energy source as LPG is because of its easy accessibility. The process taking place over here is curling following by death of the weeds once the flaming is done. The weed control rate was above 80% with LPG dosage at 40kg per hectare. 99% control rate can be achieved with the dosage of 57.4kg per hectare. The movement of this weeder is controlled by IoT. The interface between the weeder and the operator is regulated by the mobile application called Blynk, where we can control the movement and flame activation. By this technology we can eradicate the weeds completely without actually entering into the fields.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2023

(21) Application No.202341033834 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MULTIMODAL DEPRESSION DETECTION IN NATURALISTIC ENVIRONMENT USING MACHINE LEARNING

(51) International classification	:A61B 051600, A61P 252400, G06N 030400, G06N 030800, G06N 200000	(71)Name of Applicant :
(86) International Application No	:PCT//	1)Ms. Pranamita Nanda Address of Applicant :Associate Professor, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
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(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Ms. Pranamita Nanda Address of Applicant :Associate Professor, Dept Of CSE, Velammal Institute of technology, Chennai- kolkotta National highway, Panchetti, ponneri, Thiruvallur (DT)-601204 -----
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(57) Abstract :

The massive and growing burden imposed on modern society by depression has motivated investigations into early detection through automated and scalable methods. This project presents a novel multi-level attention-based network for multi-modal depression detection that fuses features from audio, video and text modalities which is highly effective, either alone or fused. The multi-level attention reinforces overall learning by selecting the most influential features in video by using Haar Cascades. The Haar algorithm works by detecting and extracting features from an image, and then using these features to differentiate between different objects in the image. To cope with the challenges of finding effective depression-related features, especially for degraded recording conditions by using machine learning algorithm such as Convolutional Neural Network (CNN) the emotions will be classified based on the extracted features from the audio. NLP (Natural Language Processing) is used for text emotion recognition which extracts various features from text, such as word choice, sentiment and syntax, that can be used to predict emotions

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/05/2023

(21) Application No.202341033840 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Compressed Air Atmospheric Moisture Extractor

(51) International classification	:B01D 5/00, C02F 1/04, E03B 3/28	(71) Name of Applicant : 1)Dr. S. S. SIVAKUMAR Address of Applicant :2/487, Singaravelar 2nd main road, Sundeep 2nd street, Neelankarai, Chennai–600 115, Tamil Nadu, INDIA Chennai ----- 2)Ms. JENNIFER PANDIYAN Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:PCT// :01/01/1900	(72)Name of Inventor : 1)Dr. S. S. SIVAKUMAR Address of Applicant :2/487, Singaravelar 2nd main road, Sundeep 2nd street, Neelankarai, Chennai–600 115, Tamil Nadu, INDIA Chennai ----- 2)Ms. JENNIFER PANDIYAN Address of Applicant :2/487, Singaravelar 2nd main road, Sundeep 2nd street, Neelankarai, Chennai–600 115, Tamil Nadu, INDIA Chennai -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Compressed Air Atmospheric Moisture Extractor (CAAME) Compressed Air Atmospheric Moisture Extractor (CAAME) comprises air compressor (1), Ranque Hilsch tube or Vortex tube (2) and Air Handling Unit (3). Ambient air is compressed by air compressor (1) to required pressure and volume, and allowed to flow into Ranque Hilsch tube or Vortex tube (2), wherein it is split into two streams of air, one hot stream escaping via hot air outlet (7) and cold stream passing out of the outlet (8) at the opposite end of Ranque Hilsch tube via cold air hose (9) into the air coil (10) located in the air handling unit, thereby chilling air coil, through which ambient air is induced by a blower fan (12), which causes the moisture in the ambient air to chill and condense and flow via collection tray (13) for storage and use as pure water for use. Fig. 2

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033868 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ANALYSIS OF MARKETING STRATEGIES RELATED TO CONSUMER BEHAVIOR IN "MEESHO" E-COMMERCE PLATFORM

(51) International classification	:G06Q 300200, G06Q 300600, G06Q 400800, G08C 230400, H04L 671460	(71)Name of Applicant :
(86) International Application No	:PCT//	1)Dr. Aishwarya Address of Applicant :Assistant Professor, School Of Business And Management, CHRIST University, Bangalore - 560076, Karnataka, India Bangalore -----
Filing Date	:01/01/1900	2)Dr. Aarthi 3)Dr. Cyril Crasto 4)Dr. A. Thilagaraj 5)Dr. D. Bhuvaneswari 6)Dr. Sudhir K. Pode 7)Dr. Poonam 8)Mr. Amitkumar Ladulala Shah 9)Mr. Mateen Yousuf 10)Prof. Chhaya Patel 11)Dr. Noor Alam Khan 12)Dr. V. Kannan 13)Mr. J. Logeshwaran
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. Aishwarya Address of Applicant :Assistant Professor, School Of Business And Management, CHRIST University, Bangalore - 560076, Karnataka, India Bangalore -----
Filing Date	:NA	2)Dr. Aarthi Address of Applicant :Assistant Professor, School Of Business And Management, CHRIST University, Bangalore - 560076, Karnataka, India Bangalore -----
(54) Abstract :		3)Dr. Cyril Crasto Address of Applicant :Visiting Professor, Management, Multiple Universities, Pune - 411062, Maharashtra, India Pune -----
Meesho is an e-commerce platform that enables small businesses, entrepreneurs, and individuals to create their own online stores in order to sell products. In order to understand the consumer behavior of customers on Meesho, this paper will analyze the marketing strategies employed by the platform to attract and retain customers. The paper will explore the various strategies used by Meesho, such as its pricing strategies, promotional strategies, and product offerings. The paper will also analyze the impact of these strategies on the purchase behavior of customers, and the overall success of the platform. The paper will provide suggestions on how to improve the marketing strategies of Meesho in order to better cater to the needs of its customers.		4)Dr. A. Thilagaraj Address of Applicant :Associate Professor, Department Of Commerce, College Of Science And Humanities, SRMIST, Chennai – 603203, Tamilnadu, India Chennai -----
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		6)Dr. Sudhir K. Pode Address of Applicant :Associate Professor & HOD, MBA, Ballarpur Institute Of Technology, Ballarpur, Chandrapur - 440701, Maharashtra, India Chandrapur -----
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		9)Mr. Mateen Yousuf Address of Applicant :Teacher, Department of School Education, Govt of J&K, Srinagar - 190008, Jammu and Kashmir, India Srinagar -----
		10)Prof. Chhaya Patel Address of Applicant :Assistant Professor, Department of Business Management (MBA), Sankalchand Patel University, Visnagar, Gujarat (India), Visnagar - 384315, Gujarat, India Visnagar -----
		11)Dr. Noor Alam Khan Address of Applicant :Assistant Professor, Department of Commerce and Business Management, Integral University, Lucknow - 226026, Uttar Pradesh, India Lucknow -----
		12)Dr. V. Kannan Address of Applicant :Managing Director, CLDC Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S.Puram, Coimbatore - 641002, Tamil Nadu, India Coimbatore -----
		13)Mr. J. Logeshwaran Address of Applicant :Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore -----

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033870 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ANALYSIS OF FOREIGN TRADE POLICY TO PROMOTE THE DEVELOPMENT OF EXPORTS IN INDIA

(51) International classification	:A61K 367400, C02F 032800, G06F 216200, G06Q 400400, H04L 410893	(71)Name of Applicant :
(86) International Application No	:PCT//	1)Dr. V. Sudha Address of Applicant :Assistant Professor, Commerce, Karpagam Academy Of Higher Education, Coimbatore – 641032, Tamilnadu, India Coimbatore -----
Filing Date	:01/01/1900	2)Dr. Sunil Kumar 3)Dr. Sharifq Mohammed 4)Dr. Sanjeev Malaviya 5)Mrs. Manjula Durgadutt Vyas 6)Dr. Srinibash Dash 7)Dr. S. Vennila Fathima Rani 8)Dr. S. Jayakani 9)Dr. Manav Singh 10)Dr. Sweety Regina Mary S 11)Ms. Shubani Sharma 12)Amit Das 13)Dr. V. Kannan 14)Mr. J. Logeshwaran
(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant :NA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. V. Sudha Address of Applicant :Assistant Professor, Commerce, Karpagam Academy Of Higher Education, Coimbatore – 641032, Tamilnadu, India Coimbatore -----
Filing Date	:NA	2)Dr. Sunil Kumar Address of Applicant :Assistant Professor, HOD, M.Com, Faculty of Management and Commerce, ICFAI University Tripura, Agartala, Tripura - 799210 Agartala -----
		3)Dr. Sharifq Mohammed Address of Applicant :Assistant Professor, Department of Accounting, College of Commerce and Business Administration, Dhofar University, Salalah, Sultanate of Oman -----
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		8)Dr. S. Jayakani Address of Applicant :Associate, Professor, Department of commerce, Vels University, Pallavaram, Chennai Chennai -----
		9)Dr. Manav Singh Address of Applicant :Assistant Professor, Commerce, lucknow Christian Degree College, lucknow, Uttar Pradesh, India lucknow -----
		10)Dr. Sweety Regina Mary S Address of Applicant :Assistant Professor & Head, Commerce & Accounting and Finance, Patrician College of Arts and Science, Chennai – 600020, Tamil Nadu, India Chennai -----
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		12)Amit Das Address of Applicant :Assistant Professor, Computer Science Engineering, The ICFAI University, Dehradun - 248011, Uttarakhand, India Dehradun -----
		13)Dr. V. Kannan Address of Applicant :Managing Director, CLDC Research And Development No.997, Mettupalayam Road, Near X-Cut Signal, R.S.Puram, Coimbatore - 641002, Tamil Nadu, India Coimbatore -----
		14)Mr. J. Logeshwaran Address of Applicant :Research Scholar, Department Of Electronics And Communication Engineering, Sri Eshwar College Of Engineering, Coimbatore, Tamil Nadu, India Coimbatore -----

(57) Abstract :

This research paper examines the various foreign trade policies implemented by the Indian government to promote the development of exports in India. The paper begins with an overview of the Indian foreign trade policies, focusing on the liberalization of trade, the implementation of the World Trade Organization (WTO) Agreement on Trade Facilitation, and the Foreign Trade Policy (FTP). The paper then discusses the impact of the various policies on the Indian economy, examining the current level of exports, the balance of trade, and the impact on employment. Finally, the paper examines the challenges and opportunities presented by the Indian foreign trade policy, and suggest ways to make the policy more effective in promoting export growth. The study concludes that the Indian government's foreign trade policy has had a positive impact on the economy, but there is still much room for improvement. The paper recommends that the Indian government should pursue further liberalization of trade and the implementation of the WTO Agreement on Trade Facilitation to further promote export growth.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033877 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Development of Novel Secure Data Sharing Method for Diverse Stakeholders on Cloud Using Privacy Protection Model

(51) International classification	:G06F 216000, G06F 216200, G16H 106000, H04L 671000, H04W 120800	(71) Name of Applicant : 1)Dr. E. Madhusdhana Reddy Address of Applicant :Dr. E. Madhusdhana Reddy, Professor, CSE & Principal Bhoj Reddy Engineering College for Women, Hyderabad, Telangana 500059 e_mreddy@yahoo.com 9440799939 -----
(86) International Application No	:PCT//	2)Uppala Vijay Kumar
Filing Date	:01/01/1900	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. E. Madhusdhana Reddy Address of Applicant :Dr. E. Madhusdhana Reddy, Professor, CSE & Principal Bhoj Reddy Engineering College for Women, Hyderabad, Telangana 500059 e_mreddy@yahoo.com 9440799939 -----
Filing Date	:NA	2)Uppala Vijay Kumar Address of Applicant :Uppala Vijay Kumar Research Scholar Register No: K15767 Career Point University Kota -324005, Rajasthan, India -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The development of a novel secure data sharing method for diverse stakeholders on the cloud using a privacy protection model is an important step in improving the security and efficiency of data sharing mechanisms. This method leverages modern security technologies and privacy protection models to provide robust security mechanisms such as encryption, access control, and monitoring that protect sensitive data from unauthorized access, disclosure, and modification. Additionally, the privacy protection model supports privacy-enhancing technologies such as anonymization, pseudonymization, and differential privacy that help protect the privacy of the data subjects. The method is scalable and can accommodate large volumes of data and multiple stakeholders without compromising security and privacy. It provides granular access control mechanisms that enable data owners to control who can access their data and how they can use it. Furthermore, the method enables multiple stakeholders to collaborate securely and efficiently, reducing the need for data duplication and improving data quality. The privacy protection model is designed to comply with relevant data privacy regulations and standards, such as GDPR and HIPAA, enabling organizations to avoid costly penalties and maintain compliance. In summary, the development of a novel secure data sharing method for diverse stakeholders on the cloud using a privacy protection model offers a significant improvement over traditional data sharing methods and provides a secure and efficient way for stakeholders to collaborate and share data while ensuring that the privacy of the data subjects is protected.

No. of Pages : 20 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033908 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IWRS: Indoor Weather Recommendation System using Integrated Artificial Intelligence of Things.

(51) International classification	:A61M 250000, G01C 212000, G06N 050000, G06N 050200, G06Q 300200	(71)Name of Applicant : 1)Prasad V. Potluri Siddhartha Institute of Technology Address of Applicant :Department of Computer Science and Engineering Prasad V. Potluri Siddhartha Institute of Technology, Kanuru, Krishna (district), Andhra Pradesh 520007, India. ----- Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The disclosed system is designed by integrating computing device, sensors, audio in and out unit, display unit, and communication unit. The perceived data from the sensors are logged into the cloud to generate the recommendations and predictions by applying artificial intelligence method with associated internet of things.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033912 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Spoof Surface Plasmon Polaritons Waveguide for Sensor based Applications

(51) International classification :G01N 215520, G01N 217700, G02B 061220, G06F 213200, H04W 841200
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The Spoof surface Plasmons polaritons (SSPPs) of the present invention in microwave frequencies consist of grooved metal surface with metal as ground layer(MIM structure). This structure provides a feeding mechanism and signal extraction method from waveguides. The designed SSPP waveguide consists of gradient corrugated strips used to confine the SSPP wave along the teeth part of the grooved surface. The simulated reflection and transmission characteristics are obtained by optimizing the width of the gradient grooves and are in good agreement with the other methods. The proposed SSPP waveguide finds an important role in the excitation of antennas used to develop plasmonic integrated circuits and systems.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033914 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SOCIO ECONOMIC IMPACT ON MODERN EDUCATION IN INDIA

(51) International classification	:A61K 363100, A61K 367400, G06Q 502000, G09B 050800, G09B 190000	(71) Name of Applicant : 1)Dr A. Devaraj Address of Applicant :Head & Assistant Professor, P.G & Research Department of History, Kamaraj College, Thoothukudi Tamil Nadu, 628003, India ----- 2)Dr B.Ponnuthai 3)Dr M.Muthu Sheeba 4)Dr K. Ragu Jegadeeswari Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	
Filing Date	:01/01/1900	
(87) International Publication No	: NA	
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(57) Abstract :

SOCIO ECONOMIC IMPACT ON MODERN EDUCATION IN INDIA ABSTRACT The invention belongs to the field of Management in Technology and its utility is to enable the Socio-Economic Impact on Modern Education in India. The description consists of Learning science and is impacted by the huge inequities that exist in society and in institutions. An evaluation of the necessity and learning revealed by field investigations in two groups in poor rural settings and low-income urban settings, respectively, is offered after a brief historical and sociological review of education in India.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033943 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Biodiesel Production From Goat Fat Oil Using NaOH Catalyst

(51) International classification	:A61P 210000, B01J 230200, C10L 010200, C11C 030000, C11D 093800	(71) Name of Applicant : 1)A. Masan Address of Applicant :Department of Agriculture Engineering, Sri Shanmuga College of Engineering and Technology, Pullipalayam, Morur, Sankari ----- 2)R. Boopathi 3)V. Dhanaprakash 4)A. Anandraj Name of Applicant : NA Address of Applicant : NA
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Filing Date	:01/01/1900	
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

India needs to promote bio fuels for meeting out the energy demands in the upcoming years. For that, biodiesel produced from the goat fat oil can be used as a solution. For the biodiesel production, first free fatty acid content was tested in the goat fat oil. It was found that free fatty acid content was 0.56. Therefore, biodiesel from goat fat oil was produced through the transesterification process in a single step. For production, five kg of goat fat waste was collected and after melting process, three litres of goat fat oil was obtained from that process. After that, 728 ml of methanol and 15 g of NaOH was taken in a glass beaker and mixed with a magnetic stirrer for ten minutes. Three litres of goat fat oil was taken in a three-neck ground bottom flask and catalyst mixture (Methanol + Sodium hydroxide) was mixed with the oil in the ratio of 1:6 at 60°C. The reaction time was kept for ninety minutes. After this, through gravity separation process, crude biodiesel and crude glycerine was separated in top and bottom layer respectively. After separation of crude biodiesel, it was washed with hot water at 60°C in the ratio of 1:1 (i.e. for one liter of oil, one liter of water was added) in a separating funnel. After three washes, pH value got neutral. Then, biodiesel was dehydrated using a glass beaker at 110°C by using a heating mantle for the removal of water from biodiesel. It was found that 2.7 liters of biodiesel was produced. It was found that with the methanol and sodium hydroxide catalyst, biodiesel produced with 90% efficiency. This fuel can be used as an alternative fuel with the blending of diesel for automobile industries.

No. of Pages : 6 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341033997 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC TEMPERATURE CONTROL IN A WATER DISPENSER

(51) International classification	:A47J 314400, A61P 252200, B60H 010000, B67D 010800, G05D 231900
(86) International Application No	:PCT//
Filing Date	:01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :

A water dispenser or water cooler, a machine that cools and dispenses water with a refrigeration unit is commonly located at many places. For example, a water dispenser can be placed in a college campus. After the cooler runs for hours, or during evening time, the water is very cold. For many people in the college, it leads to some health issues like fever, cold etc, The power is also wasted in cooling the water unnecessarily. The present invention discloses the software and hardware component of the device to monitor the temperature and automatic cooling control system for water dispenser.

No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034027 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING RANDOM DOTS SIZES IN A RANDOM DOTS STEREOGRAM

(51) International classification :A63F 090400, B24B 230300, B82Y 100000, G11B 057400, G11B 058550
(86) International Application No :PCT//
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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Name of Applicant : NA

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(57) Abstract :

SYSTEM AND METHOD FOR CONTROLLING RANDOM DOTS SIZES IN A RANDOM DOTS STEREOGRAM ABSTRACT
A computer-implemented method (700) for controlling dot sizes in a RDS to train a patient (102) for depth perception and vergence is disclosed. The computer-implemented method includes steps of: generating (702) random dots stereogram that includes at least two identical random dot images with two identical sets of random dots; generating (704) images within the random dots stereogram by combining two identical subsets of random dots; adjusting (706) size of two identical sets of random dots of the two identical random dot images based on visual acuity in amblyopic eye and viewing distance; and adjusting (708) contrast of two identical sets of random dots of the left and right random dot image, to adapt the two identical subsets of random dots of the images to be adjusted with the contrast based on suppression level of brain in seeing the images from the amblyopic eye using a dichoptic process. FIG. 7

No. of Pages : 42 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034041 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Design and Development of Ventilated Honeycomb Reactor as Thermochemical Energy Storage Device for Drying Applications during Non-Sunlight Hours

(51) International classification	:B01J 210800, C11B 090000, F28D 200000, G06F 112600, H01M 040400	(71) Name of Applicant : 1)National Institute of Technology Calicut Address of Applicant :NIT Campus (P.O). Calicut, Kozhikode – 673601, Kerala, India. Calicut ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
Filing Date	:01/01/1900	1)Vishnu Chandran Address of Applicant :M-Tech, Thermal Sciences Student, Department of Mechanical Engineering, National Institute of Technology Calicut, NIT Campus (P.O), Calicut, Kozhikode – 673601, Kerala, India. Calicut -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT: Title: Design and Development of Ventilated Honeycomb Reactor as Thermochemical Energy Storage Device for Drying Applications during Non-Sunlight Hours The present disclosure proposes a system (100) that supplies thermal energy during non-sunshine periods. The system (100) of storing the chemical energy in the salt for drying perishable products comprises a blower (102), energy conversion device (104), a reactor chamber (110) and a drying unit (108). The proposed system (100) facilitates thermochemical energy conversion between salt and air, thereby drying the perishable products during day or night time. The proposed system (100) enhances heat and mass transfer rates, which improves the charging and discharging characteristics. The proposed system (100) reduces pressure drop when compared to the convectional packed bed system. The proposed system (100) is designed in a honeycomb structure for reducing particle agglomeration and pellet formation. The proposed system (100) having a honeycomb structure with ventilations that ensures better thermal performance and structural stability.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034071 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVICE, SYSTEM, AND METHOD FOR TREATING EXHAUST GAS FROM ENGINE

(51) International classification	:B01D 539400, F01N 031000, F01N 032000, F02D 190200, F02M 210200	(71) Name of Applicant : 1)SHARDA MOTOR INDUSTRIES LTD. (RESEARCH & DEVELOPMENT CENTRE) Address of Applicant :P-12, 1st Avenue, Mahindra World City Post, Chengalpattu District, Tamil Nadu, India - 603 002. Chengalpattu -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
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(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is a device (200) for treating exhaust gas from an engine, includes a swan portion (110) that is adapted to receive gas from the engine by way of a first opening (202), said swan portion (110) includes a head portion (204) that facilitates positioning of a cylinder portion (210) and an injector inlet (112) adapted to inject a fluid means to the head portion (204), wherein the swan portion (110) is adapted to mix the gas with the fluid means before transmitting the gas to a second opening (208). The present disclosure also relates to system (100) and method (800) for treating exhaust gas from the engine. Figure 2 will be the reference.

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034089 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Expandable Travel Case for Converting a Chair to a Flat Sleeping Surface

(51) International classification :A45C 051400, A47C 311200, A47D 150000, B60P 033400, C08J 090000
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

The invention relates to an expandable hand carry travel case (100), that when opened (104) has a head support part (101), torso, upper leg support part (102) and lower leg support part (103). Each part can be inflated with an air inlet valve (105) to convert (104) into a flat sleeping surface which will conform to a chair of any dimension. The invention (100), when opened and inflated to (104), has a flat surface on one side and a shape conforming part on the inner side, which fills the concavities of a chair of any dimension and gives full support to the body at the head, neck, torso, upper leg and lower leg regions, thus providing restful sleep for the body lying in a supine or side position. In the deflated folded compact state (100), the invention is a bag with locking mechanisms (202) so that the inner compartment pouches can store personal articles securely and is easily portable with the strap assembly (203, 204), which on the opened state (104) can also be used to secure it to the chair and the sleeping person.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034122 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INGENIOUS SMART HEALTH MONITORING KNEE BRACE

(71)Name of Applicant :

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(57) Abstract :

INGENIOUS SMART HEALTH MONITORING KNEE BRACE The present invention relates to a smart knee cap that harvest energy from the biomechanical motion of a human walking. Biomechanical energy harvesting proved to be capable of a promising source of energy to power up portable modern gadgets such as mobile phones. As the individual wears knee cap and raises the knee, a gear twists and spins the generator for generating electricity. This new device is motion-sensitive, activating automatically with knee movement, and it does not increase the amount of energy expended when walking. The knee cap is designed to sense the various muscular movements of the knee joint with the help of EMG sensors. It not only aids in generating power with greater efficiency but also senses the muscle movement and weaknesses and can give massage in a movable manner that can reduce the muscle pain of a person and also make walking more efficient.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034148 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Connected automobile infrastructure using machine learning to anticipate weather, traffic and driver behavior

(51) International classification	:B60W 400900, G06K 096200, G06N 030800, G06N 200000, H04N 212343	(71)Name of Applicant : 1)Paavai Engineering College (Autonomous) Address of Applicant :Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- -----
(86) International Application No	:PCT// /	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor : 1)Prof. S.Senthivelan, Paavai Engineering College (Autonomous) Address of Applicant :Professor, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- -----
(87) International Publication No	: NA	2)Mr.V.Sudharsanavel, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- -----
(61) Patent of Addition to Application Number	:NA	3)Mr.R.Kavinkumar, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- -----
Filing Date	:NA	4)Mr.S.Prasath, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- -----
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(57) Abstract :

The automotive industry makes considerable use of a wide variety of network protocols, such as Controller Area Network (CAN) and Ethernet, to provide efficient communication between the many components of a vehicle. These networks give a wealth of data from the various systems of the car, including the engine, the transmission, the brakes, and so on. The data that is gathered from the car's sensors can be input into machine learning algorithms to get a better understanding of the vehicle and the environment that it is in. This suggests a low-cost machine learning system that can categorize three criteria using data collected from in-vehicle sensors. These factors are the road surface, the traffic on the road, and the driving style. We examined the three machine learning algorithms of random forests, decision trees, and support vector machines in order to estimate road conditions and driving styles using labeled CAN data. The goal of detecting whether the surface of a road was smooth, even, or pitted was accomplished by applying these methods to the problem. They were also used to classify driving styles as either normal or aggressive, in addition to the amount of vehicle traffic that was present at the time. The results of the observations were shared and then debated.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034149 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Design System of Electronic Health Record-Based Disease Prediction Using Graph Machine Learning

(51) International classification	:G06N 030400, G06N 200000, G16H 106000, G16H 502000, G16H 503000	(71)Name of Applicant : 1)Paavai Engineering College (Autonomous) Address of Applicant :Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// :01/01/1900	(72)Name of Inventor : 1)Prof.C.Rathnakumar, Paavai Engineering College (Autonomous) Address of Applicant :Professor, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 2)Ms.R. Reshma, Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 3)Ms. A. Indhumathi, Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 4)Ms. A.Naga Jothi, Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 5)Ms.C.Vaishnavi, Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 6)Ms. I.Subiksha, Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 7)Ms. M.Madhushri,Paavai Engineering College (Autonomous) Address of Applicant :Final year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal -----
(61) Patent of Addition to Application Number	:NA :NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(62) Divisional to Application Number	:NA :NA	
Filing Date	:NA	

(57) Abstract :

[22] In recent years, graph applications have benefited greatly from the increased focus on and advancements achieved by graph machine-learning (ML) techniques. There has not been a thorough evaluation of graph ML methods in the health informatics field as there has been for social networks. In this article, we discuss the use of graph ML techniques for node classification and link prediction in the context of disease prediction using data from the field of electronic health records. Shallow embedding and graph neural networks (GNN) are two popular graph ML methods for these tasks. In this work, we systematically search for literature that apply or propose graph ML models for disease prediction with EHR data. We looked at papers presented at conferences and publications in PubMed, Scopus, the ACM Digital Library, and IEEE Xplore. We summarize the state of and recent developments in graph ML methods for disease prediction with EHR data based on the articles we've seen. While GNN-based models have outperformed more conventional ML approaches on many disease prediction tasks, they still face difficulties in interpretability and dynamic graphs. Even though ML-based illness prediction is still in its infancy, GNN-based models show great promise as a powerful method for disease prediction with applications in medical diagnosis, therapy, and prognosis.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034150 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ReIoT driven Smart System for Food Recommendation using Machine Learning

(51) International classification	:G06K 096200, G06N 030400, G06N 030800, G06N 200000, G06Q 100600	(71) Name of Applicant : 1)Paavai Engineering College (Autonomous) Address of Applicant :Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT// / Filing Date :01/01/1900	(72) Name of Inventor : 1)Dr.P.Muthusamy, Paavai Engineering College (Autonomous) Address of Applicant :Professor and Head, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 2)Ms.A.Imrana , Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 3)Ms.M.Navina, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 4)Ms.P.Sharumathi, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 5)Ms.T.Dharaniya, Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal ----- 6)Ms.R.Dharani , Paavai Engineering College (Autonomous) Address of Applicant :Final Year Student, Department of Master of Computer Applications, Paavai Engineering College (Autonomous), Paavai Nagar, Pachal, Namakkal, TamilNadu 637018 Namakkal -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA Filing Date :NA	
(62) Divisional to Application Number	:NA Filing Date :NA	

(57) Abstract :

A PHR is an electronic health record that can safely and privately store, track, and manage a person's entire medical history from birth until death. Now, with the help of IoT devices and wireless sensors built into wearable technology, it is possible to track vitals like heart rate, blood pressure, and glucose levels in real time. The utilization of such information has enhanced healthcare management services. PHR is growing in significance for a variety of chronic illnesses, including diabetes, arthritis, Alzheimer's disease, and heart disease. The existing layout is for healthcare access, with an emphasis on customized care for each user. Invention describes a system that integrates a user's risk assessment with data from medical providers, the user's diet and health status, and other parties involved in the user's healthcare decisions. PHR's real-time health monitoring and management solution is based on the PHR platform, which includes filters based on specific and well-known health risk indicators as well as user preference models for each individual patient. Personal health records and a health management service accessible through mobile device can help those who are anxious about their health. The medical industry is quickly transitioning away from hospital-centric health monitoring systems in favor of patient-centric systems. We employed Collaborative Filtering to enhance the meal suggestion recommendation system. Other positive outcomes include increased health awareness among patients, standardized patient medical records, hospital-to-hospital data exchange, and support for a smart digital meal assistant-based health management system. Now that AI is permeating every aspect of the food chain, fundamental shifts are within reach. As intermediaries between humans, technology, and the environment, designers have a responsibility to learn about and assess whether artificial intelligence (AI) might help us transition to more sustainable food systems.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2023

(21) Application No.202341034151 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IoT-driven Artificial Intelligence-Based Actual Structure-Health Monitoring and Damage Testing

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5)Dr. Rajkumar Rajavel, CHRIST University

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7)Dr. R. Cristin, GMR Institute of Technology

8)Dr. N. Suresh Kumar, Jain University

9)Mr.D.Sathish Kumar, Sri Sai Ram Engineering College

10)Dr.C.Rohith Bhat, Saveetha School of Engineering (SIMATS)

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(51) International classification :G01M 050000, G01N 219500, G16B 401000, G16H 502000, H04W 163200
(86) International Application No :PCT// /
Filing Date :01/01/1900
(87) International Publication No :NA
(61) Patent of Addition to :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application :NA
Number :NA
Filing Date :NA

(57) Abstract :
Computer vision has evolved significantly, enabling autonomous building damage assessment. This work seeks to create a self-sufficient deep learning system to detect concrete fire damage. We present a new deep learning network that combines a CNN and LSTM network. LSTM damage detection and classification follow CNN feature extraction. We then simulate fire in three types of self-compacting concrete (SCC) specimens and assess structural damage to test the hybrid network. The network's design and hyper-parameters are optimized through extensive testing. The hybrid method outperforms the original, according to the study. The suggested approach outperforms current deep learning algorithms while remaining robust. After fires, the suggested architecture would enable the widespread deployment of automated damage detection systems.

No. of Pages : 10 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202341034508 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART SECURITY SURVEILLANCE BY USING AUTOMATIC LICENSE PLATE RECOGNITION TO PREVENT THE ILLEGAL ACTIVITIES

(51) International classification	:B60R 131000, G06Q 100800, G08B 131960, G08G 010170, H04N 071800	(71) Name of Applicant :
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(87) International Publication No	: NA	-----
(61) Patent of Addition to		(72) Name of Inventor :
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(62) Divisional to Application	:NA	3) M. NAVEEN KUMAR Address of Applicant :Student, Department of Mechanical Engineering, Muthayammal Engineering College (Autonomous) Kakkaveri (P.O), Rasipuram, Namakkal Tamil Nadu, India-637 408 -----
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(57) Abstract :

Humanity's primary concern has always been security. Today, video surveillance cameras are installed in schools, hospitals, and other public places to provide us with a sense of security. According to an HIS survey, there were about 245 million security cameras installed and operational, which equates to one security camera for every 30 persons on the world. With advances in technology, particularly in image processing and machine learning, it is feasible to teach these cameras to analyze information from the video feed, making them wiser. In this project we use Raspberry pi and Open CV model to recognizes the intruder vehicle with more accuracy by using image processing techniques. The last stage in this Raspberry Pi Number Plate Recognition is to read the information from the segmented image. To read characters from a picture, we will utilize the pytesseract package. So that by using this technique, we can easily alert the security control room server about the intruder's vehicle license plate number with high accuracy.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202341034509 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SPEECH RECOGNIZING AI-BASED PILOT TEST FOR COVID-19 WITH THE REAL-TIME IOT

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(57) Abstract :

High temperature accompanied by cough and common cold are the general symptoms among the people infected by corona virus SARS-CoV-19, a global challenge for the healthcare system. COVID-19 virus is the pneumonia based respiratory disease that aids the Naso Pharyngeal (NP) or Oro Pharyngeal (OP) swabbing to collect the samples from the deep nose or pharynx region becomes the golden method of taking subject's samples. Then the samples are fed into the Quantitative-PCR machine for detecting and processing. As it needs to personally take the swab test with high risk of contagiousness in collecting samples, an high-end alternate method of detecting the covid-19 virus based on the voice or speech recorded in the mobile or i-pad (IoT) provide the immediate result for corona-positive or negative. It actually utilizes the audio-processing with Convolutional Neural Networks (CNN) employing the audio signals converted into spectrograms of Frequency-Time transformation using the Kernel function aids the feature extraction. The conversion of RGB wave-format assists the speech classification. Multi lingual words of speech are recognized and matched with the frequency and noise distortion of the particular people at normal stage and at suspected stage. The speech recognition using spectrogram images and deep convolution neural network (CNN) of f. Spectrogram images from speech signal were generated and it were used for deep CNN training. Presented CNN model contains 3 convolution layers and 2 fully connected layers that discriminative features can be divided and estimated of spectrogram images by those layers. In current research period, dataset of covid-19 patient's voice were made and based on that CNN model were trained. Testing of samples are matched with the database samples and recognized as COVID-positive or negative.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202341034516 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BIO DIESEL FROM WATERMELON AND JULIFLORA SEEDS-A NEAR FUEL

(51) International classification	:A01H 050800, A61B 050000, A61K 364200, C10L 010200, F02B 030600	(71) Name of Applicant : 1)Mr. D. Sriram Address of Applicant :Assistant Professor, Mechanical Engineering, Sudharsan Engineering College, Pudukkottai, Tamil Nadu, India-622501 ----- 2)Dr. Viswanath Bellie 3)Mr. S. Aravindan 4)Mr. R. Naveen 5)Mr. S. Mathavan 6)Mr. P. Vignesh Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72) Name of Inventor : 1)Mr. D. Sriram Address of Applicant :Assistant Professor, Mechanical Engineering, Sudharsan Engineering College, Pudukkottai, Tamil Nadu, India-622501 ----- 2)Dr. Viswanath Bellie Address of Applicant :Professor & Head of Department, Department of Mechanical Engineering, Sudharsan Engineering College, Pudukkottai, Tamil Nadu, India-622501 ----- ---
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This project will discuss the new hybrid fuel, properties and performance analysis and field reports and compare the results with the existing fuels to highlight the significance of this new fuel and its feasibility. In some seed like Juliflora seed, Water melon Seed oil prepared and blended together to produce the biodiesel and to check the performance of the biodiesel. The study also includes examination of physical and chemical properties such as pH value, viscosity, density, flash point, fire point and acid values on the produced biodiesel as well as on the conventional diesel for comparison.

No. of Pages : 10 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202341034526 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CAR SENTRY-OWNER ASSISTANT

(51) International classification	:C12Q 016895, C23C 020200, C23C 020600, G10L 150800, G10L 152200	(71) Name of Applicant : 1)PRASAD.V.POTLURI.SIDDHARTHA INSTITUTE OF TECHNOLOGY Address of Applicant :Kanuru, Vijayawada, Andhra Pradesh, India-520007 ----- Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Most car owners fee insecure about safety of the car. When the car is parked at workplaces, the owner is not assured of its safety. There are many incidents where cars have been tampered, It may be done intentionally or accidentally. There can be small incidents like scraping the car. some dents which makes the paint to peel off. Painting is such a costly process and all such things will have a psychological impact on the car owner. There will be issues like who have done it, why they have done it and how to find them out and how to sort it out. There will be no clue left and we don't have any information regarding the damage done to the car. There are some systems like on car alarms and anti theft systems given by the manufacturer. It can be annoying to the persons nearby and no information is passed to the owner if they are away from the parking area. It is critical to think about getting a car Sentry to supplement your overall car security. When you have additional safeguards, your vehicle will be safer. It can give the owner more peace o f mind. We are working on a prototype that will allow the owner to remotely view the car's surroundings when it is parked in order to confirm the safety of the environment. CAR- SENTRY is to add another layer of protection to the car and thereby providing contentment to the owner.

No. of Pages : 8 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/05/2023

(21) Application No.202341034532 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IOT BASED BREATHANALYZER FOR NON-INVASIVE DIAGNOSIS OF DISEASES

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3)Dr.P.Partheeban

4)Ms. S. Sharmili

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(51) International classification :A61B 050550, C12Q 016800, C12Q 016860, C12Q 016886, H04L 675100
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

The portable breath analyzer is a device equipped with a VOC gas sensor that . detects volatile organic gaseous components in a patient's breath for non-invasive disease detection, particularly tuberculosis (TB). The device is IoT-enabled, allowing for instant reporting of TB subjects in a cloud-based database. The sample is collected from a TB-affected patient by exhaling their breath into a portable gas chamber fitted with the VOC gas sensor, digital temperature and humidity sensors, microprocessor, and Bluetooth connectivity. The device is designed to measure and quantify the level of gaseous components in a patient's breath and store the data in the cloud for remote monitoring and analysis. This device provides a convenient and efficient way to diagnose TB and monitor the progress of treatment. It also alerts patients to avoid certain environmental VOCs that may worsen their condition. The device works by connecting the SGP40 sensor to the ESP32 microcontroller using a pre-determined protocol, initializing the SGP40 sensor and the ESP32 microcontroller, and starting the measurement cycle. The SGP40 sensor takes a measurement every second and outputs the data in a digital format, which can be read using the protocol and stored in memory. The sensor data is then processed " using preset algorithms to calculate the VOC concentration in the air, and the results are displayed on an LCD screen or a web interface through the ESP32 . microcontroller's Wi-Fi or Bluetooth capabilities. The SGP40 VOC sensor with ESP32 microcontroller provides a convenient and efficient way to detect and measure organic compounds in the air. FIG1

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034738 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR PERFORMING ANTIMICROBIAL WOUND HEALING GEL USING FISH COLLAGEN

(51) International classification	:A61K 086500, A61P 170200, C07K 147800, C11D 033840, C11D 033860	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)POOJA . V Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
Filing Date	:NA	2)SHERIL TABITHA. Y Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
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(62) Divisional to Application Number	:NA	6)Dr M. BAVANILATHA Address of Applicant :Associate Professor, Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN- 600119 -----
Filing Date	:NA	----

(57) Abstract :

Accordingly, embodiments herein disclose a method for performing antimicrobial wound healing gel using fish collagen. The method involves collecting a skin part alone from the leatherjacket fish, and treating 0.8 mol/L sodium chloride at a ratio of 1:6 (w/v) for 10 mins thrice to remove off the impurities. Followed by, washing the treated solution with cold distilled water to reduce its salinity, and giving a sample alkali treatment with 0.1 mol/L sodium hydroxide at a ratio of 1:10 (w/v) for 2-3 days to remove the non-collagenous proteins. Followed by, collecting and salting supernatant out using 2 mol/L NaCl for 24 hrs at 4 °C, and centrifuging the solution precipitates out and the precipitated collagen at 9000 rpm for 20 mins at 40 C. The samples are held frozen under lyophilization for further analysis; and confirming the sample as collagen by performing SDS-PAGE analysis.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034739 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ALGAL PHOTO BIO-REACTOR

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6)Dr M. BAVANILATHA

Address of Applicant :Associate Professor, Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- -----

(51) International classification :C02F 031200, C12M 010000, C12M 011200, C12N 158200, G05B 150200
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

Accordingly, embodiments herein disclose an algal photo bio-reactor, comprising of: green algae and blue-green algae together comprising a large group of photosynthetic organisms. The algae are suitable to grow in a wide range of conditions. The algae are generally planted in wetish swamps and damp places. The algae warrant the internal structures that characterize land shops, similar to leaves and rhizoids in nonvascular shops, or roots, and other organs that are planted in vascular shops, thus allowing easy operation for biomass generation and effective inheritable and metabolic exploration in an important shorter period than conventional shops. In the algal photobioreactors, depending upon the nutrients needed by algal species, several sources of wastewater can be used for algal culture.

No. of Pages : 11 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034740 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART PROTECTIVE DRESS FOR WOMEN'S SAFETY

(51) International classification	:A41D 012200, A41D 271300, A41H 050000, A41H 050100, B63C 111000	(71) Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number	:NA	1)Dr. B. Kanimozhi Address of Applicant :Professor, Department of Mechatronics, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 --
Filing Date	:NA	
(62) Divisional to Application Number	:NA	2)A. Ganesh Moorthi Address of Applicant :Student, Department of Mechatronics, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 ---
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a smart protective dress for women's safety, comprising of: a microcontroller which is configured to control a module in a circuit by coding. Further, the proposed invention may include a GPS/GSM module which is configured to connect with the microcontroller. The GPS/GSM module is to track the live location of the user where the live location is retrieved in the form of latitude and longitude coordinates. Further, the proposed invention may include a shock circuit which is configured to connect with the microcontroller. The shock circuit generates an electric jolt which can be used as a self-defense mechanism. Furthermore, the proposed invention may include a relay module which is configured to connect with the microcontroller. The relay module is an electrically operated switch that can be turned on or off deciding to let current flow through or not. Figure to be published with Abstract: Figure 1

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034741 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR DEVELOPING LOW-COST MICROCENTRIFUGE USING E-WASTE

(51) International classification	:B01L 030000, B01L 090600, C22B 030200, C22B 070000, E21B 432400	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- -----
(86) International Application No	:NA	Name of Applicant : NA Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor : 1)Dr R. P. OVIYA Address of Applicant :Assistant Professor, Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- -----
(87) International Publication No	: NA	2)PREETHI G Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- -----
(61) Patent of Addition to Application Number	:NA	3)V.S SNEHA Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- -----
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(57) Abstract :

Accordingly, embodiments herein disclose a method for developing low-cost microcentrifuge using E-waste. The method involves making a centrifuge using a motor that could spin at very high RPM in order to create enough centripetal force to separate a cellular sample. A dead 3.5" hard drive is used in a basement as it would spin at 7200 RPM. Followed by, generating up to 4400 g's enough to tear apart most cells, and adding a LCD, a potentiometer, and a few buttons could develop a useful interface to a device. Further, the proposed method may involve adding an internet-controlled interface to the centrifuge to make the device easier to use. Furthermore, the proposed method may involve adding an ESC (Electronic Speed Controller) to the device, and also adding a power switch to the device. Figure to be published with Abstract: Figure 1

No. of Pages : 9 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034743 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR PERFORMING ELECTROCHEMICAL SUPERCAPACITIVE PROPERTIES OF CUO-NI(OH)₂ NANOCOMPOSITES BY ECO-FRIENDLY LOW-TEMPERATURE SYNTHESIS

(51) International classification	:A61B 051500, H01G 090800, H01G 113200, H01M 080411, H01M 081048	(71)Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119 Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)Dr. MURUGADOSS GOVINDHASAMY Address of Applicant :Scientist-E, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
Filing Date	:NA	2)Dr.T. SASIPRABA Address of Applicant :Vice Chancellor, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
(87) International Publication No	: NA	3)Mrs. NARTHANA KANDHASAMY Address of Applicant :Project Associate, Centre for Nanoscience and Nanotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 -----
(61) Patent of Addition to Application Number	:NA	4)Dr. RAVICHANDRAN SUBRAMANIAN Address of Applicant :Professor, Head Dept Of Physics, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method for performing electrochemical supercapacitive properties of CuO-Ni(OH)₂ nanocomposites by eco-friendly low-temperature synthesis. The method involves synthesizing CuO-Ni(OH)₂ nanocomposite by mixing an equal amount of molar concentration of copper acetate and nickel chloride in deionized (DI) water. Followed by, adding lg of PVP to the mixture along with the 2M NaOH solution, drop by drop, and stirring continuously resultant solution for 2 hrs. Further, the proposed method may involve collecting, filtering and washing the precipitate with ethanol, acetone, and DI water several times and drying overnight at 120 °C. The phase/structural properties of the synthesized samples are studied via PW 3040/60 X'pert PRO X-ray diffractometer using Cu Ka radiation (2θ=20°-80°). Figure to be published with Abstract: Figure 1

No. of Pages : 27 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034750 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR DEVELOPMENT AND FABRICATION OF AUTOMATED MEDIA PREPARING MACHINE

(51) International classification	:A47J 314400, E21B 432400, G03F 073000, G03F 074000, H04H 600600	(71) Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119 Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	(72)Name of Inventor : 1)RAKSHI. A.D Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 2)SANDHYA. S Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India PIN-600119 ----- 3)BRITLIN DEVA JEBASTA .N Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 4)RAAGAV. S. R Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 5)Dr V. RAMESH KUMAR Address of Applicant :Head of Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 6)Dr M. BAVANILATHA Address of Applicant :Associate Professor, Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- ---
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method for development and fabrication of automated media preparing machine, comprising the steps of: standardizing entire media preparation process under control from start to finish by using an automated media preparing and dispensing machine. Followed by, homogenously stirring the media using a stirrer which ensures the uniform distribution of a component. Agar dispensing at optimal temperature guarantees quick solidification and reduced condensation to limit contamination risk. The automated media preparing and dispensing machine enhances the safety for laboratory personnel - no hot agar/broths to carry around. The automated solutions to media preparation and dispensing are becoming a necessity for the modern successful microbiology testing laboratory with the ever-increasing demand to do more with less. Figure to be published with Abstract: Figure 1

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034751 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD ISOLATION, IDENTIFICATION AND CHARACTERIZATION OF ENDOPHYTIC BACTERIA AND ACTINOMYCETES FROM MANGROVE, BANANA AND SUGARCANE

(51) International classification	:A61K 390000, A61P 110000, A61P 310000, C02F 033400, C12N 012000	(71) Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	(72) Name of Inventor :
(87) International Publication No	: NA	1)Gayathri Parameshwaran Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
(61) Patent of Addition to Application Number	:NA	2)Kumaran Subramanian Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
Filing Date	:NA	3)Rajasekar Thirunavukkarasu Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method isolation, identification and characterization of endophytic bacteria and actinomycetes from mangrove, banana and sugarcane for antimicrobial activity and for enhancing tomato and maize productivity. The method involves obtaining a pretreatment and isolation of endophytic bacteria and endophytic actinomycetes. Followed by, characterizing and identifying the endophytic bacteria (*Gluconacetobacter diazotrophicus*, *Bacillus*"and *Pseudomonas*). Further, the method may involve screening functional characteristics for PGPR activity and selection of potential strains for pot culture of tomato and maize plant; analysing statistically growth and yield of tomato and maize plant in pot culture. Further, the method may involve screening of antimicrobial activity of endophytic actinomycetes by cross streak technique and agar well diffusion technique. Furthermore, the method may involve identifying potential endophytic actinomycetes isolate for antimicrobial activity by 16s rRNA sequencing. Figure to be published with Abstract: Figure 1

No. of Pages : 17 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034754 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EARTH BIO-BATTERY

(51) International classification	:A61N 011600, E02F 036500, H01M 081600, H01M 082000, H05F 030200	(71)Name of Applicant :
(86) International Application No	:NA	1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY
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(87) International Publication No	: NA	Name of Applicant : NA
(61) Patent of Addition to Application Number	:NA	Address of Applicant : NA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)JOEVATHY. J
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(57) Abstract :

Accordingly, embodiments herein disclose an earth bio-battery for generating power that is environmental friendly, comprising of: wet soil or bacteria rich compost as electrolyte solution instead of acids. Further, the bio-battery may include an organic matter releasing the electrons as it decomposes, which can be captured by the electrodes. The earth battery is based on electron affinity such that the amount of energy is liberated when the electron is added to a neutral atom to form a negatively charged ion. Further, the bio-battery may include a low to high DC which can drive small-scale electronic devices. The proposed 8 bio-battery has 8 different tests which are undertaken to determine the voltage of individual cells and overall series voltage. Figure to be published with Abstract: Figure 1

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034755 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR DEVELOPMENT OF CULTURING FISHES FROM BIODEGRADABLE BY PRODUCTS OF SHRIMP AND FEATHER WASTE

(51) International classification	:E21B 432400, F01D 110000, G03F 073000, G03F 074000, G06F 084100	(71) Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	(72)Name of Inventor : 1)Kumaran Subramanian Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 2)Rajasekar Thirunavukkarasu Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- 3)Gayathri Parameshwaran Address of Applicant :Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 -----
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method for development of culturing fishes from biodegradable by-products of shrimp and feather waste. The method involves preparing powdered source with vitamins, minerals for nutrition enrichment, and mixing Cs-Se NPs along with the powdered source. The impact of Cs-Se NPs is assessed on Oreochromis niloticus growth, suitability, and protein digestion. Further, the proposed method may involve executing and resistance of Oreochromis niloticus for the enhancement of Cs-Se NPs, and distinguishing the Cs-Se NPs by filtering and scanning electron microscopy (SEM), fourier-transform infrared spectroscopy (FT-IR), X-beam diffraction, and grain dissemination. The fish (15.30 ± 0.23 g) were taken care of fair eating routine of 0.0, 0.25, 0.5, 1.0, and 2.0 g Cs-Se NPs/kg for 45 days. The eating routine is containing 1.0 g/kg Cs-Se NP brought about a particular development rate, weight gain, and tilapia endurance rate contrasted with the benchmark group. Figure to be published with Abstract: Figure 2

No. of Pages : 15 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034756 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD FOR IN VIRTO EVALUATION OF SEA WEEDS FOR ANTIOXIDANT AND UV-PROTECTION

(51) International classification	:A61K 080200, A61Q 170400, B32B 273000, C08K 050000, C08K 051300	(71) Name of Applicant : 1)SATHYABAMA INSTITUTE OF SCIENCE AND TECHNOLOGY Address of Applicant :Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, PIN-600119, Tamil Nadu, India ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72)Name of Inventor : 1)Dr. Rajasekar Thirunavukkarakus Address of Applicant :Centre for Drug Discovery and Development, Col. Dr. Jeppiaar Research Park, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- --
(61) Patent of Addition to Application Number	:NA	2)Dr. S. Kumaran Subaramanian Address of Applicant :Centre for Drug Discovery and Development, Col. Dr. Jeppiaar Research Park, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, -----
Filing Date	:NA	3)Dr. V. Ramesh kumar Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- --
(62) Divisional to Application Number	:NA	4)Dr.Thyagarajen. R Address of Applicant :Department of Biotechnology, Sathyabama Institute of Science and Technology, Rajiv Gandhi Salai, Jeppiaar Nagar, Chennai, Tamil Nadu, India, PIN-600119 ----- --
Filing Date	:NA	

(57) Abstract :

Accordingly, embodiments herein disclose a method for in vitro evaluation of seaweeds for antioxidant and UV-protection. The method involves extracting 5 grams of dry powder with 100 ml of extraction solvent (methanol 25%) for 2hrs in a 500 ml conical flask and incubated in a water bath at 45°C. Followed by, adding again the extraction solvent to the conical flask after pouring out the extracts, and repeating the extraction process once again according to the above conditions. Further, the proposed method may involve adding 80% ethanol to the concentrate and keep it at -20°C for 6hrs;pouring out the supernatants and then centrifugation at 4000 rpm for 10 mins at 4°C: and washing pellets with distilled water 2-3 times. The washing solution and the previous supernatants were combined, and concentrated under reduced pressure at 45°C, thereby preparing mycosporine-like amino acids (MAAs) extracts in this way. Figure to be published with Abstract: Figure 1

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2023

(21) Application No.202341034799 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GARLIC-ASSISTED GREEN SYNTHESIS OF ZINC SULPHIDE NANOPARTICLES: A SUSTAINABLE AND COST-EFFECTIVE APPROACH

(51) International classification	:B82Y 300000, C08K 033000, C09K 115600, C22B 030000, F16C 332000	(71) Name of Applicant : 1)THE PRINCIPAL, MEPCO SCHLENK ENGINEERING COLLEGE Address of Applicant :MEPCO SCHLENK ENGINEERING COLLEGE, MEPCO NAGAR, SIVAKASI, VIRUDHUNAGAR DIST, TAMILNADU, INDIA - 626 005. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	(72) Name of Inventor : 1)MRS. P. AARTHYE Address of Applicant :DEPARTMENT OF PHYSICS, MEPCO SCHLENK ENGG COLLEGE, MEPCO NAGAR, SIVAKASI, VIRUDHUNAGAR DIST, TAMILNADU, INDIA - 626 005. -----
(61) Patent of Addition to Application Number	:NA	
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(62) Divisional to Application Number	:NA	
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(57) Abstract :

Biosynthesis is considered to be a safe; benign, and environmentally friendly process,' Because each :plant contains different phytochemicals, different plant-based extracts are used to'create;metal nanoparticles of different forms, sizes, and effectiveness.- The major objective; of the current study is to produce ZnS NPs with regulated size and' surface roughness using bu)b extract of A. sativum. The alkaloids arid flavonoids act as a templating agent,, and :the cysteine compounds act as a source of sulphur. The particle size and zeta potential reported in ...the DLS spectrum data for ZnS NPs were 257 3.0nm and -10.3mV, respectively. The optical ' . examination findings also demonstrated that the biosynthesized ZnS NPs exhibited.an energy band gap.:of 4.9eV. with, excitation and absorption wavelengths of 214 and .460nm.; respectively. With, particles -ranging in size from 183 to 330'nm; ZnS NPs were con finned by SfM to be nanoscale'in size." With inhibition zones of 9, 10, 9 and, IT mm/respectively,'the ZnS NPs-.showed good antibacterial effectiveness against S.:aureus, S, pyogenes; E. coli, and '' S. paratyphi. With inhibition zones of 9 and 8 mm, ZnS NPs also prevented A.fumicdtus and C albicans, from growing. The - in-vitro experiment revealed .that ZnS NPs were more, cytotoxic (58.2 g/mL) to human breast cancer MCF-7 cells.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202341035071 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SELF-CHARGING AUTONOMOUS BOAT FOR AQUATIC WEED INHIBITION AND WATER QUALITY ASSESSMENT

(51) International classification	:A01D 440000, A61B 050000, B63B 350000, C02F 010000, G01N 331800	(71) Name of Applicant : 1)NMAM Institute of Technology Address of Applicant :Nitte-574110, SH1, Udupi District, Karnataka ----- Name of Applicant : NA Address of Applicant : NA
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Filing Date	:NA	1)Gopalakrishana Rukmini Pradyumna Address of Applicant :Department of Electronics and Communication Engineering, NMAM Institute of Technology, Nitte Pademane, SH1, Karkala, Karnataka, India, 574110 ----- -----
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(61) Patent of Addition to Application Number	:NA	3)Hegde Bhaskar Roopa Address of Applicant :Department of Electronics and Communication Engineering, NMAM Institute of Technology, Nitte Pademane, SH1, Karkala, Karnataka, India, 574110 ----- -----
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(62) Divisional to Application Number	:NA	5)Kabbala Basavarajappa Bommegowda Address of Applicant :Department of Electronics and Communication Engineering, NMAM Institute of Technology, Nitte Pademane, SH1, Karkala, Karnataka, India, 574110 ----- -----
Filing Date	:NA	

(57) Abstract :

An automated system which can make its own decision while manoeuvring and even when it encounters an obstacle and can return to the charging point to recharge itself when its battery is low while making sure of very low or minimal weed growth. This invention is designed to inhibit the growth of weeds, which are difficult to get rid of by known methods and also manually. Additionally, the invention provides aeration to increase the dissolved oxygen content of the water throughout the lake or pond. This aeration can be achieved by injecting pure oxygen, mechanically agitating, mixing the water, or injecting air. The method used to implement this aeration requires the mixing of the water layers as well as the use of an external aerator. Also, floating garbage collection is employed. The quality of water can be monitored using a combination of sensors such as pH and turbidity sensors. 9. BEST METHOD: The weed-removing system is capable of taking its own decision while maneuvering and even when it encounters an obstacle and can return to the charging point to recharge itself when its battery is low.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/05/2023

(21) Application No.202341035124 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OPEN CV TARGET TRACKING SYSTEM USING QUADRUPED

(51) International classification :A61B 342000, G01S 037860, G01S 137200, G06Q 500200, G06T 072460
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
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(57) Abstract :

To design a spider bot capable of detecting objects at a specific range using an object's parameters and tracking and observing the target without the use of any controllers. The spider-bot operates on Klan's Mechanism, which allows it to easily adapt to new situations or obstacles due to its legs of locomotion, which, like ordinary two-legged robots, can move easily on rough surfaces and even climb stairs. To use Open CV for image processing requires necessary software and libraries for the Raspberry Pi. The coding can be executed for the AI automation. The specifications of the code will be determined based on the specific requirements of the hardware required to design the spider bot. To improve the accuracy of object recognition, machine learning algorithm is used and sensors to detect obstacles in the robot's path.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2023

(21) Application No.202341037128 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BATTERY DISPLACEMENT SYSTEM FOR VEHICLE

(51) International classification	:B60G 170520, B62D 050400, C09K 085840, E21B 431600, H01L 210270	(71) Name of Applicant : 1)PUR ENERGY PRIVATE LIMITED Address of Applicant :H. No 10-38/2, Survey No 424/AA3 Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy-502 285, India Sangareddy ----- -----
(86) International Application No	:PCT//	Name of Applicant : NA Address of Applicant : NA
Filing Date	:01/01/1900	(72)Name of Inventor :
(87) International Publication No	: NA	1)Mahendra Dagadu Date Address of Applicant :H. No 10-38/2, Survey No 424/AA3 Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy-502 285, India Sangareddy ----- -----
(61) Patent of Addition to Application Number	:NA	2)Sukhdeep Singh Address of Applicant :H. No 10-38/2, Survey No 424/AA3 Beside Arya College of Pharmacy, Near IIT Hyderabad, Kandi Village, Sangareddy-502 285, India Sangareddy ----- -----
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Filing Date	:NA	

(57) Abstract :

BATTERY DISPLACEMENT SYSTEM FOR VEHICLE Disclosed herein is a vehicle with a battery displacement system (200) to resolve the heavyweight battery handling problems and reduce the physical efforts required to operate it. The vehicle with a battery displacement system (200) comprises a seat (202), a luggage compartment (210), at least a battery (218), a battery storage compartment (222) wherein the battery storage compartment (222) is arranged below the seat (202), a switching element (206) configured to operate the luggage compartment (210) and the battery storage compartment (222) selectively. The seat (202) is used as a lever to assist in the displacement of at least one battery (218) from the battery storage compartment (222). The battery displacement system (200) comprises at least one detachable coupler (216) slidably arranged on a reinforcement member (204). The seat (202) is coupled to at least one battery (218) with at least one detachable coupler (216) and reinforcement member (204). Figure 2

No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037449 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ANN BASED BRIDGELESS LANDSMAN CONVERTER DESIGN FOR ELECTRIC VEHICLE POWER FACTOR CORRECTION

(51) International classification	:B60L 531200, B60L 532000, H02J 031800, H02M 010000, H02M 014200	(71)Name of Applicant : 1)GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A) Address of Applicant :PROFESSOR & PRINCIPAL, DEPARTMENT OF ME, NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : 1)Dr. P.M.M.S. SARMA Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 2)Dr. D. RAVI KISHORE Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 3)Dr. V. SURESH Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 4)Dr. B. KAVYA SANTHOSHI Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 5)Mr. SIVAPRASAD KOLLATI Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 6)Mr. T. AMAR KIRAN Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 7)Dr. M. VIJAY KUMAR Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 8)Dr. B. SUJATHA Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 9)Dr. R. TAMILKODI Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. ----- 10)Mr. AHAMMAD SHARIF MD Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDY - 533296, ANDHRA PRADESH, INDIA. -----
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	: NA : NA : NA	
(62) Divisional to Application Number Filing Date	: NA : NA	

(57) Abstract :

Electric vehicles (EVs) are becoming more popular due to their many desirable characteristics, such as their ability to store energy in batteries and their small carbon impact. Electric vehicles represent a revolution in both the transportation and electrical sectors, and by uniting the two, they have the ability to improve both. This relationship needs the implementation of effective Power Factor Correction (PFC) systems for charging EV batteries, which minimises the supply front-inherent end's Power Quality (PQ) concerns. This study uses a Bridgeless Landsman converter for PFC, since it is efficient and can detect changes in the link voltage. The usage of an ANN-based PI controller facilitates prediction and classification with regards to reaction time. This is accomplished by connecting the hysteresis controller to a PWM generator, which then determines the correct switching frequency for the converter in steady state. The suggested strategy aids in effective minimising of harmonics with heightened efficiency.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037452 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVELOPING AN RBFNN MAXIMUM POWER POINT TRACKING ALGORITHM FOR A THREE-PHASE LANDSMAN PV-GRID CONNECTION

(51) International classification	:G05F 016700, G06T 072460, H02J 033800, H04N 053300, H04N 133100	(71) Name of Applicant : 1)GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A) Address of Applicant :PROFESSOR & PRINCIPAL, DEPARTMENT OF ME, NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY - 533296, ANDHRA PRADESH, INDIA. ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:NA	2)Dr. P.M.M.S. SARMA Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY - 533296, ANDHRA PRADESH, INDIA. -----
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(87) International Publication No	: NA	4)Dr. B. KAVYA SANTHOSHI Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY - 533296, ANDHRA PRADESH, INDIA. -----
(61) Patent of Addition to Application Number	:NA	5)Dr. N. LEELAVATHY Address of Applicant :GODAVARI INSTITUTE OF ENGINEERING AND TECHNOLOGY(A), NH - 16, CHAITANYA KNOWLEDGE CITY, RAJAHMUNDRY - 533296, ANDHRA PRADESH, INDIA. -----
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(57) Abstract :

In this study, we use an MPPT algorithm based on a Radial Basis Function Neural Network (RBFNN) to a 3 grid-connected PV system. Because of its strong voltage gain at low duty cycle, the DC-DC Landsman converter is used to boost the PV system's output voltage. Greatest power point tracking (MPPT) using a recurrent neural network (RNN) is presented to monitor the MPP of the solar PV panel and extract the maximum amount of energy from the sun. Total Harmonic Distortion (THD) is decreased and grid voltage is synchronised effectively with the help of a PI controller. With the help of MATLAB simulation, we have a look at the performance of the suggested model of a grid-connected PV system.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037453 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ACTIVE AND REACTIVE POWER REGULATION UTILIZING AN ANN CONTROLLER FOR A PV FED TRANS QUASI-Z SOURCE NETWORK WITH A MULTILEVEL GRID-TIED SYSTEM

(51) International classification :A23G 032000, A23G 033400, F03D 092500, H02J 031800, H02J 035000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to
Application Number :NA
Filing Date :NA
(62) Divisional to Application
Number :NA
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(57) Abstract :

New Z-source inverter and quasi Z-source inverter topologies and their variations suitable for solar photovoltaic power systems are designed and developed in this study, with verification by simulation and experimental validation. In order to create topologies of Z-source inverters that are well-suited for a wide range of uses, researchers have analysed current Z-source inverter designs in depth. In order to get the performance characteristics of solar photovoltaic systems, which are used in the design of the impedance network of Z-source inverters, modelling, simulation, and experimental verification of solar photovoltaic systems-are performed. With the help of simulation and appropriate Matlab software, the optimal PV array configuration for use in the proposed Z-source inverter topologies is determined by analysing the performance of photovoltaic (PV) modules connected in a variety of array configurations under normal/partial shaded conditions.

No. of Pages : 6 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037454 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INTELLIGENT CONTROLLER FOR FLYBACK CONVERTER WITH 31-LEVEL INVERTER FOR GRID-CONNECTED HYBRID SYSTEM

(71)Name of Applicant :

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(51) International classification :B60K 064850, H02J 033800, H02M 010000, H02M 03350, H02M 074870
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :

Rapid exhaustion of fossil fuel energy systems, emission of carbon, and climate change issues has been paid more attention in the recent scenario. The development of power electronic devices, the growth of industries and population increases the need for green energy. The Hybrid renewable energy of wind and PV system are the better choice due to the benefits of the reliability of power based on the weather condition, an extension of the grid system, and remote electrification. In this research, the isolated grid integrated multilevel inverter for hybrid (Solar and wind) battery based fly back converter application is proposed with optimal controlling techniques. The primary objective of this research is to design and develop the fly back converter with an effective controller to obtain the higher power output during the operation of continuous and discontinuous conduction mode respectively. Even though, the researchers are mostly implemented with cascaded H-bridge (CHB) inverter based grid-tied system. CHB are increasing the harmonics, the requirement of the filter circuit and overall efficiency. To solve this issues thirty one inverter is proposed with intelligent techniques as a secondary objective. The modeling and controlling techniques of the discussing system are done by MATLAB tool. The prototype setup provides the experimental feasibility of the developed hybrid PV-wind connected fly back converter with a thirty one level inverter based grid-tied system with reliability of intelligent controller system.

No. of Pages : 7 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037458 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IMPLEMENTATION OF ANFIS CONTROLLER TO IMPROVE HYBRID SYSTEM RELIABILITY

(71)Name of Applicant :

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(51) International classification :B60K 061200, B60W 100600, B60W 204000,
G06N 030400, H04W 880400

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(57) Abstract :

The fundamental problem with the current electricity infrastructure is that it can't keep up with the ever-increasing demands of a rapidly expanding population. Since renewable technologies, which make up part of the Distributed Energy System, are both environmentally beneficial and abundant in the wild, they are increasingly being used as part of the conventional electricity generation infrastructure. In this work, we focus on hybrid systems powered by solar and wind energy. In order to get the most out of the PV and wind energy systems, an MPPT based DC-DC converter is used. The efficiency of several MPPT methods, such as the P&O method, applied for hybrid systems was compared. To boost power reliability, an ANFIS approach is used to the inverter controller's dc link voltage. Several MPPT techniques are tried out on this hybrid system in Matlab/Simulink, and the results are compared across a wide range of load circumstances and fault analyses.

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(22) Date of filing of Application :31/05/2023

(21) Application No.202341037477 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A NOVEL ASYMMETRIC 21-LEVEL INVERTER WITH PV SYSTEM FED TO MOTOR LOAD

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(51) International classification : A61B 051100, H02J 033800, H02M 010000, H02M 074870, H04L 691800
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Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract :

Due to their low cost, wide availability, and lack of maintenance requirements, renewable energy sources (RES) have been favoured in this work to effectively meet the load demand. This is because, in the present scenario, RES play a remarkably important role in the process of improving the function of motor load. When compared to now, the importance of RE Sources in enhancing motor load function was much lower in the past. This effort relies heavily on the Sepic converter, since its goal is to enhance the system's performance as a whole. However, the ANFIS method greatly facilitates the process of achieving the Maximum Power Point Tracking (MPPT). The purpose of this effort is to increase the voltage range across which PVs may operate at full efficiency. The Multi Level Inverter (MLI) is set up in the best possible way, which increases the system's dependability to its highest possible level with little effort. A 21 Level (31 L) inverter does an impressive job of balancing out fluctuations in load demand. The whole of the system is simulated by using MATLAB Simulink, and the results that were obtained demonstrated that the strategy that was presented provides ideal performance since it reduces the amount of Total Harmonic Distortions (THD) to a higher degree.

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(54) Title of the invention : CO2 EMISSION RATING BY VEHICLES USING DATASCIENCE TECHNIQUE

(51) International classification :B01J 370000, B32B 273200, F21S 411550, F21S 431450, G06Q 300200
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(57) Abstract :
Our personal vehicles are a major cause of global warming. Collectively, cars account for nearly one-fifth of all emissions, emitting around 24 pounds of carbon dioxide and other global-warming gases for every gallon of gas. About five pounds comes from the extraction, production, and delivery of the fuel, while the great bulk of heat-trapping emissions—more than 19 pounds per gallon—comes right out of a car's tailpipe. It is assumed the average gasoline vehicle on the road today has a fuel economy of about 22.0 miles per gallon and drives around 11,500 miles per year. Every gallon of gasoline burned creates about 8,887 grams of CO2. More than Twenty years ago (1998) the car industry agreed to a voluntary commitment to reduce new car emissions by 25% by 2008. Then, CO2 emissions on the road from new cars were around 203g/km. Now, they are still around 170g/km and unlikely to reach 140g/km until after 2020. A typical passenger vehicle emits about 4.6 metric tons of carbon dioxide per year. This number can vary based on a vehicle's fuel, fuel economy, and the number of miles driven per year. The higher the number of the controlled and uncontrolled effect variables that influence the CO2 properties, the lesser the predicted accuracy. Despite this, a few experimental designs have been suggested by considering the controllable effect variables and interaction terms between them. To predict the emission of gas from cars we develop a model which uses the attributes of the car to specify whether the car has exceeded the threshold value of CO2 if it exceeded the threshold then (Road and Transport Authority) RTA will seize that particular car. Supervised machine learning technique is one of the great techniques for predicting the CO2 emission rating. Keywords : accuracy, precision, recall, and F1 score, CO2

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(22) Date of filing of Application :31/05/2023

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(54) Title of the invention : BOTNET ATTACKS PREDICTION APPROACH USING MACHINE LEARNING

(51) International classification :G06N 030400, G06N 030800, G06N 050000, G06N 200000, G06N 201000
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(57) Abstract :

Botnet threat detection is an ongoing scientific project. Botnet detection with flow based characteristics has been widely employed with MachineLearning (ML) techniques. The main disadvantages of flow-based features are their substantial computational overhead and the fact that they do not fully capture network traffic. Patterns of communication Graph-based machinelearning has recently got lot of attention. Graph dataprovides information on communication patterns between hosts in communication networks. In this research, we propose a graph-based ML model for botnet identification that takes into account the importance of each node first. Beforebuilding a generalized model for detecting botnets based on the identifiedessential elements, we looked at graph features. Using five filter-based feature evaluation metrics. The findings of the experiment show that incorporating features decreases training time and model complexity whileincreasing bot detection rates. Our suggested detection model is capable ofdetecting various botnet families and is resistant to zero-day assaults. Ourapproach produces greater precision and displays competitive accuracy when compared to state-of-the-artflow-and graph- based algorithms

Keywords : Botnet, IoT and Fog Clouds,graph

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(54) Title of the invention : SMARTVEHICLE AND EMERGENCY VEHICLE DETECTIONSYSTEM IN SMART TRAFFIC DETECTION USING HAARAND YOLO ALGORITHMS

(51) International classification	:G06N 030400, G06N 030800, G08G 010870, G08G 010965, H04W 360000	(71)Name of Applicant : 1)PRATHYUSHA ENGINEERING COLLEGE Address of Applicant :ARANVOYAL KUPPAM, POONAMALLEE-TIRUVALLUR ROAD, TIRUVALLUR, TAMIL NADU, INDIA, 602025.
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(57) Abstract :	The rapid recent advancements in the computation ability of everyday computers have made itpossible towidelyapplydeep learning methodstothethe analysis of traffic surveillance videos. Traffic flow prediction, anomaly detection, vehicle re-identification, and vehicle tracking are basic components in traffic analysis. Among these applications,traffic flow prediction,or vehicle speed estimation, is one ofthe most important research topics ofrecent years. Good solutions to this problem could prevent traffic collisions and help improveroad planning by better estimating transit demand we combine modem deep learning models with classic computer vision approaches to propose an efficient way to predict vehicle speed. Keywords: Open CV, Video,Vehicle .Traffic	

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(54) Title of the invention : BUCKLE UP FOR SAFER RIDE: CAR SAFETY WITH EMBEDDED SYSTEM

(51) International classification	:B60R 221950, B60R 224800, G07C 050200, G08B 210200, H04W 044000	(71) Name of Applicant : 1)Ms. SAHANAA SREE N Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI RAMAKRISHNA ENGINEERING COLLEGE, VATTAMALIPALAYAM, NGGO COLONY POST, COIMBATORE, 641022. ----- 2)Mr. VISHAL NAGARAJAN 3)Mr. SURIYAA V 4)Mr. SANJAYKUMAR K Name of Applicant : NA Address of Applicant : NA
(86) International Application No:	NA	(72) Name of Inventor : 1)Ms. SAHANAA SREE N Address of Applicant :ASSISTANT PROFESSOR, DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, SRI RAMAKRISHNA ENGINEERING COLLEGE, VATTAMALIPALAYAM, NGGO COLONY POST, COIMBATORE, 641022. -----
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Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

We face issues with not wearing the seatbelt for various reasons. The problem is that more deaths are caused during accidents because of non-functioning of the airbags while not wearing a seatbelt. So we have to ensure that everyone wears the seatbelt properly. Currently cars have a security alert system which has inbuilt buzzers that beeps if the person is not wearing a seatbelt. The buzzer sound normally stops after a period of 180 seconds. Latest model cars have buzzers that stops beeping only after wearing the seatbelt. This buzzing is easily ignored by the passengers or they just cheat the alert system by using alternate plastic buckles. So there arises a need for a new technology that make sure that the person on the seat in the car wears the seatbelt properly for safe and secure journey .This need for a new technology grabs the attention of many engineers, who are ready to provide invasive and non-invasive technics to find out a solution. Here we come up with a solution where a sensor and a microcontroller is placed between relay and solenoid motor-starter motor. First the sensor transmits signal to the microcontroller, the microcontroller on receiving the signal, with relay logic the circuit is in closed loop condition which helps the user to ignite the engine. In case the driver doesn't wear the seatbelt the sensor fails to send the signal to the microcontroller, then the relay will not close the circuit between motor solenoid starter motor and starter relay. Where the driver of the car will not be able to start the engine. Our invention serves as a highly reliable one because it uses a microcontroller which has a very minimal rate of having a failure, with minimal power consumption. Our invention ensures that people wears the seatbelt properly before starting the car, thus they can have a safe journey. We hope that our invention helps the society reduce the number of fatalities occurring due to car accidents by ensuring that the passengers wear seatbelts properly and allowing them to have a safe travel.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/05/2023

(21) Application No.202341037547 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : STELLAR CLASSIFICATION USING SUPERVISED MACHINE LEARNING TECHNIQUE

(51) International classification :G06K 096200, G06N 070000, G06N 200000, G06N 201000, G06Q 204000
(86) International Application No :NA
Filing Date :NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :

In astronomy, stellar classification is the classification of stars based on their spectral characteristics. Electromagnetic radiation from the star is analyzed by splitting it with a prism or diffraction grating to a spectrum exhibiting the rainbow of colors interspersed with spectral lines. Each line indicates a particular chemical element or molecule, with the line strength indicating the abundance of that element. The strengths of the different spectral lines vary mainly due to the temperature of the photosphere, although in some cases there are true abundance differences. Data mining is a commonly used technique for processing enormous data. Researchers apply several data mining and machine learning techniques to analyze huge complex data, helping space scientist professionals to predict stellar. Different algorithms are compared, and the best model is used for classifying the stellar. Natural language processing (NLP) allows machines to read and understand human language. A sufficiently powerful natural language processing system would enable natural-language user interfaces and the acquisition of knowledge directly from human-written sources, such as news wire texts. Some straightforward applications of natural language processing include information retrieval, text mining, question answering and machine translation. Many current approaches use word co-occurrence frequencies to construct syntactic representations of text. Keywords: stellar, information retrieval, NLP, grating

No. of Pages : 6 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/06/2023

(21) Application No.202341038225 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FIBER TERMINAL BOX

(51) International classification	:G02B 6/36, G02B 6/44, H02G 15/06, H02G 15/10, H02G 15/113, H02G 3/08, H02G 3/16	(71) Name of Applicant : 1)Cisfiber Infra Solutions Private Limited Address of Applicant :Villa No. 09, Prestige Langleig, Pattanduragrahara,Whitefield, Bangalore-560066, Karnataka , India. Bangalore ----- Name of Applicant : NA Address of Applicant : NA
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(87) International Publication No	: NA	3)Mahadev Sawant Address of Applicant :B/14, Madhav Nagar, R.A.Kidwai Road,Wadala, Mumbai -400031,Maharashtra ,India. Mumbai -----
(61) Patent of Addition to Application Number Filing Date	:NA :NA	4)Sandeep Khirkhira Address of Applicant :Adane Gaon,Bhatane, Adane, Virar Road , Palghar-401303, Maharashtra ,India. Palghar -----
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

FIBER TERMINAL BOX Fiber terminal box(100) has separately accessible mistake-proofing compartments by an installation team and a distribution team with 8 shaped fibers routing with sleeve splicing to provide stable performance to overcome prior-arts. Fiber terminal box (100) includes a first compartment (10) and a second compartment (20).The first compartment (10) receives fibers (05) from a first location (X) and is defined with a first locking arrangement (11) that is unlocked and locked by an installation team to install fibers (05). The second compartment (20) distributes fibers (05) to a second location (Y) and is defined with a second locking arrangement (21) that is unlocked and locked by a distribution team to distribute fibers (05). Fibers are routed in 8-chaped configurations and are also routed through a sleeve splicing (52) resulting in achieving compactness and efficient transmission of optical signals offering stable performance. (To be published with Figure 3)

No. of Pages : 22 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2023

(21) Application No.202341040337 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR JOINING A STAINLESS STEEL AND AN ALUMINIUM, AND A SYSTEM THEREOF

(51) International classification	:B23K 11/20, B23K 26/323	(71) Name of Applicant : 1) Indian Space Research Organisation Address of Applicant :Department of Space, Antariksh Bhavan, New BEL Road, Bangalore 560094, India Bangalore -----
(86) International Application No Filing Date	:PCT// :01/01/1900	Name of Applicant : NA Address of Applicant : NA
(87) International Publication No	: NA	(72) Name of Inventor :
(61) Patent of Addition to Application Number Filing Date	:NA :NA	1) SIGATAPU, Steaphen Address of Applicant :SMF/MMG/MME/VSSC, INSTEF Area, Thumba, Thiruvananthapuram – 695022, Kerala, India Thiruvananthapuram -----
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(57) Abstract :

The present disclosure discloses a system (100) for joining a SS workpiece (112) and an Al workpiece (114) and a method (200) thereof. The system (100) includes a chamber (102), a press, and at least one heater (104). The chamber (102) adapted to receive the SS workpiece (112) and the Al workpiece (114). The press having a pressure block (108)adapted to push the SS workpiece (112) against the Al workpiece (114) along their respective mating surfaces at a predetermined pressure and a predetermined temperature thereby enabling shearing of a layer of alumina present on the mating surface of a heated Al workpiece (114) and facilitating in formation of a joint between the mating surfaces of the SS workpiece (112) and the Al workpiece (114) to form a joined workpiece.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/01/2023

(21) Application No.202331002547 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR VOLT/HERTZ SPEED CONTROL OF SQUIRREL CAGE INDUCTION MOTOR FOR MINIMUM CURRENT OPERATION

(51) International classification	:G05B 11/42, H02K 17/16, H02P 21/12, H02P 23/08, H02P 23/20, H02P 27/04	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY (INDIAN SCHOOL OF MINES), DHANBAD Address of Applicant :Dhanbad - 826004, Jharkhand, India Dhanbad ----- Name of Applicant : NA Address of Applicant : NA
(86) International Application No	:PCT//	(72) Name of Inventor :
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(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system (100) for volt/hertz speed control of the squirrel cage induction motor (SCIM) for minimum current operation to improve its efficiency. A three-phase SCIM (1) is used in the scalar control scheme supplemented by a MTPA controller (2) to run the motor at minimum current point in any operating condition. To generate the stator command voltage for minimum current operation of the motor, the slip speed command is provided to the MTPA controller (2) along with the reference stator voltage . In the proposed system (100) the command voltage is only dependent on the slip speed and actual source voltage. Both these parameters are available in the control method itself. Additionally, current sensor is not required to operate the motor (1) in MTPA condition.

No. of Pages : 20 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/06/2023

(21) Application No.202331040848 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Development of 2D and 3D organoid models for the investigation of oral carcinogenesis.

(51) International classification	:G01N33/50	(71) Name of Applicant :
(86) International Application No Filing Date	:PCT// :01/01/1900	1)Dr. K. Sri Krishna Address of Applicant :Principal, Professor & Head of Department ADDRESS- Department of Oral Medicine and Radiology, Hazaribag College of Dental Sciences and Hospital, Demotand, Off. N.H.-33, Hazaribag, Jharkhand - 825301, India. Hazaribagh ----- -----
(87) International Publication No	: NA	2)Dr. Saumya Verma
(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)Dr. Srishti
(62) Divisional to Application Number Filing Date	:NA :NA	4)Kumari Shalini Name of Applicant : NA Address of Applicant : NA
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(57) Abstract :

ABSTRACT Our invention "Development of 2D and 3D organoid models for the investigation of oral carcinogenesis" is a Spheroids, organoids, and organotypic cultures are examples of three-dimensional (3-D) cell culture models that are more physiologically similar to the human tumor microenvironment (TME) than conventional two-dimensional (2-D) cell culture models. Although they have been employed as in vitro models to study different aspects of mouth cancer, they haven't been utilised much in studies of the process of oral carcinogenesis to yet. This scoping review's objective was to assess oral carcinogenesis studies" usage of 3-D cell cultures in research on oral squamous cell carcinoma (OSCC). We conducted a thorough search of databases (PubMed, Scopus, and Web of Science) to find studies using 3-D cell culture methods on cells from healthy, dysplastic, and cancerous oral mucosae. A total of 119 investigations, including 4 studies using organoids, 62 studies using organotypic cultures, and 53 studies employing spheroids, were considered for qualitative analysis. We discovered that spheroids and organoids had not yet been used for 3-D oral carcinogenesis investigations, which had hitherto been restricted to just two organotypic culture models. The organoids cultivated from human OSCCs were most commonly employed in drug sensitivity testing, whereas spheroid culture was most frequently used as a tumorosphere-forming assay. These findings suggest that there are tremendous prospects to investigate the genesis of oral cancer using 3-D cell culture, especially since the physiological significance of these models keeps increasing.

No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202331041258 A

(19) INDIA

(22) Date of filing of Application :17/06/2023

(43) Publication Date : 23/06/2023

(54) Title of the invention : High-Temperature-Resistant Clay and Preparation Method for the Same

(51) International classification	:C04B33/13
(86) International Application No Filing Date	:PCT// :01/01/1900
(87) International Publication No	: NA
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(57) Abstract :

The present invention discloses a high-temperature-resistant clay composition and a method for its preparation. The composition consists of carefully proportioned ingredients, including borax, cornstarch, sugar, baking soda, chalk powder, flour, and water. The resulting clay exhibits exceptional heat resistance, making it suitable for applications that require reliable thermal stability. The method involves a simple process of combining the specified ingredients and adding water to achieve a dough-like consistency. Through thorough kneading, a homogeneous clay-like material is obtained. Optionally, the clay can be shaped into solid tiles and dried to enhance its properties further. The addition of sugar enables the generation of carbon foam upon heating, contributing to remarkable heat resistance. Baking soda plays a key role by releasing carbon dioxide, which inflates carbon bubbles and creates a foam-like structure within the clay, thereby enhancing its ability to withstand high temperatures. Chalk powder serves the purpose of preventing fungal growth and safeguarding against insect damage, ensuring the long-term durability of the clay. The resulting high-temperature-resistant clay can withstand temperatures exceeding thousands of degrees Celsius, making it an excellent choice for various applications. It can be used as a super heat-resistant cover, thereby improving the efficiency of ovens and furnaces. This invention presents a novel solution for producing a clay-like material capable of withstanding extreme temperatures. By leveraging common household materials, it offers a cost-effective and efficient approach for achieving heat resistance in diverse industries and applications.

No. of Pages : 5 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2023

(21) Application No.202331041287 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Thermal heat storage composite materials using hydrated Iron(III) phosphate doping in white wall care putty

(51) International classification	:C08K11/00	(71) Name of Applicant : 1)Trilochan swain Address of Applicant :P.G. Department of Chemistry, Fakir Mohan University, Balasore-756089, Odisha, India ----- ----
(86) International Application No	:PCT//	
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(61) Patent of Addition to Application Number	:NA	(72) Name of Inventor :
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(62) Divisional to Application Number	:NA	-----
Filing Date	:NA	

(57) Abstract :

The various proportion of wall care putty composites are synthesized using FePO₄.2H₂O in stick wet solution method. These composites are characterized with different measurement techniques like UV-Vis.-NIR (DRS), XRD, and thermal analysis. The CP of composites are measured at 2K and 5K min⁻¹ heating rate in N₂ atmosphere. These composites are insulator like wall care putty. The average crystallite size is slightly greater than wall care putty. The maximum Cp of composite containing 10.11% FePO₄.2H₂O is ~ 66% higher than putty at temperature 307 K. The temperature of Cp(max) tends to lower at 307 K in composite. The Cp of composites increase in decreasing heating rate from 5K min⁻¹ to 2K min⁻¹ while this Cp of putty increases in increasing heating rate 2k min⁻¹ to 5K min⁻¹. This is due to more insulating properties of putty than composites. Hence, these composites can be used as coating in household buildings for thermal energy storage in both winter and summer season.

No. of Pages : 10 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2023

(21) Application No.202331041316 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : “WIDEBAND METAMATERIAL MICROWAVE ABSORBER FOR C AND S BAND APPLICATION”

(51) International classification	:H01Q15/00	(71) Name of Applicant :
(86) International Application No Filing Date	:PCT// :01/01/1900	1)Komal Roy Address of Applicant :National Institute of Technology, Jamshedpur Jharkhand India Jamshedpur ----- -----
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(61) Patent of Addition to Application Number Filing Date	:NA :NA	3)Chetan Barde
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(57) Abstract :

“WIDEBAND METAMATERIAL MICROWAVE ABSORBER FOR C AND S BAND APPLICATION” The present invention provides a wideband metamaterial microwave absorber for c and s band application. The resonating structure at the top is design in such a way so that wideband absorption is achieved in the range from 6.11 to 13.52 GHz. The wideband absorption within the range is approaching almost toward unity having bandwidth of 7.41 GHz. Three different peaks are considered in the range of interest having maximum absorption of 0.94, 0.94, 0.99 at 6.76, 11.15, 13.07 GHz frequencies respectively. The structure is analysed with respect to the effective parameters i.e., effective permittivity () and effective permeability () to satisfies that structure is acting as a metamaterial. Electric field and current distribution are plotted at three different peaks to prove the mechanism of wideband absorption. Figure 1

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2023

(21) Application No.202331041349 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TECHNIQUES FOR INTRUSION DETECTION IN NETWORK SECURITY

(51) International classification	:G01M13/00	(71) Name of Applicant :
(86) International Application No Filing Date	:PCT// :01/01/1900	1) Prolay Ghosh Address of Applicant :Department of Information Technology, JIS College of Engineering, Kalyani, Nadia, West Bengal-741235, India. Kalyani ----- ---
(87) International Publication No	: NA	2) Dr. C. Mallika
(61) Patent of Addition to Application Number Filing Date	: NA	3) Supriya Vishal Dicholkar
(62) Divisional to Application Number Filing Date	: NA	4) Dr. Jagannath Nirmal Address of Applicant :Assistant Professor, Department of MCA, E.G.S. Pillay Engineering College Autonomous, Nagapattinam, Tamilnadu- 611002, India. Nagapattinam ----- 5) Munsifa Firdaus Khan Barbhuyan Address of Applicant :Research scholar, Department of Electronics, K J Somaiya College of Engineering, Mumbai University , Maharashtra-400077, India. Mumbai ----- 6) Hemalata Mahesh Mote Address of Applicant :HoD, Department of Electronics Engineering, K J Somaiya college of engineering, Mumbai University, Maharashtra-400077, India. Mumbai -
		7) Dr. Jagannath Nirmal Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, Faculty of Computer Technology, Assam Down town University, Guwahati, Assam- 781026, India. Guwahati ----- 8) Munsifa Firdaus Khan Barbhuyan Address of Applicant :Assistant Professor, Department of Electronics & Telecommunication Engineering, Don Bosco Institute of Technology, Kurla(W), Mumbai University, Maharashtra-400070, India. Mumbai ----- 9) Hemalata Mahesh Mote Address of Applicant :Assistant Professor, Department of Electronics & Telecommunication Engineering, Don Bosco Institute of Technology, Kurla(W), Mumbai University, Maharashtra-400070, India. Mumbai -----

(57) Abstract :

MACHINE LEARNING AND ARTIFICIAL INTELLIGENCE TECHNIQUES FOR INTRUSION DETECTION IN NETWORK SECURITY ABSTRACT An intrusion detection system, often known as an IDS, is a piece of software that may either monitor a single computer or a network of computers for malicious activity, also known as attacks, that are designed to steal information, censor information, or alter network protocols. The majority of the approaches employed in intrusion detection systems (IDS) of today are incapable of dealing with the dynamic and complex nature of cyber attacks on computer networks. Consequently, effective adaptive methods, such as the several approaches to machine learning, have the potential to result in increased detection rates, decreased false alarm rates, and reasonable computing and communication costs. In this research, we investigate various different systems of this kind and compare the results of each. We classify the strategies as either being based on traditional artificial intelligence (AI) or computational intelligence (CI), depending on the type of intelligence they utilise. In this article, we will explain how many aspects of CI methods can be incorporated into the construction of effective IDS.

No. of Pages : 15 No. of Claims : 7

Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059328 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : “A SYMMETRICAL DIFFERENTIAL EXCLUSIVE-OR (XOR) GATE”

(51) International classification	:G06F0011100000, H03K0019210000, A61B0005117100, H04L0009060000, B60K0017160000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY, ROPAR Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY, ROPAR Rupnagar Punjab India 140001 Punjab India (72) Name of Inventor : 1)Dr. Mahendra Sakare 2)Puneet Singh 3)Mayank Kumar Singh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a novel architecture for a symmetrical differential exclusive-OR (XOR) gate to resolve the delay and power consumption problems associated with conventional XOR gates. The proposed XOR gate has a cross-coupled pull-up network (PUN) and one more cross-coupled structure for every input in the pull-down network (PDN). The PDN consists of the cross-coupled NMOS architecture for every input. In the proposed architecture, NMOS's source at the last input is connected to a power supply. The inputs are applied at each pair of NMOS such that one NMOS of the pair receives complement of the input being applied at other NMOS of the pair. Upon application of the inputs only one NMOS of each pair is turned ON such that one output node of the pair of output nodes is connected to the power supply and other output node is connected to the ground terminal of the circuitry.

No. of Pages : 29 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059379 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ORAL HEARING AID SYSTEM

(51) International classification	:H04R0025000000, G01S0001720000, H02K0053000000, G08B0003100000, A61F0005580000	(71) Name of Applicant : 1)AMITY INTERNATIONAL SCHOOL, Address of Applicant :VIKAS MARG, SECTOR 46 GURUGRAM-122002, INDIA Haryana India (72) Name of Inventor : 1)SPARSH SAHNI
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an oral hearing aid system. The present invention discloses a hearing aid, which has three basic parts (Microphone, Amplifier and Nano Dc motor). The teeth hearing device needs to be clench between the teeth and sound is heard when fed to its microphone. The device has an amplifier and nano dc motor which converts sound signals to vibrations. The tooth transmits these vibrations to brain, which decodes the sound. The microphone picks up sound and send it to the amplifier. Amplifiers boost all sound. It simply makes things louder regardless of the volume. The sound wave is converted into vibration in nano dc motor set up, and when this device is placed between the teeth the signals is transferred from the teeth through the skull bones and into cochlea, where sound is heard.

No. of Pages : 10 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059380 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR PREPARING NOVEL COMPOSITION FOR FLY ASH BRICKS WITH CONCRETE WASTE DEBRIS AND SELF-HEALING BACTERIA

(51) International classification	:C04B0028020000, C04B0111000000, C04B0020100000, C04B0028040000, C04B0018160000	(71) Name of Applicant : 1)Amity University, Address of Applicant :Amity University, Address: E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Anil Soharu
(33) Name of priority country	:NA	2)Naveen BP
(86) International Application No	:NA	3)Arjun Sil
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for preparing novel composition for fly ash bricks with concrete waste debris and self-healing bacteria. The present invention provides bricks manufacturing with crushed concrete debris as fine aggregates and Self-Healing Bacteria, the material composition used is 60% fly ash conforming to Grade 2 of IS3812, 30% M-Sand as manufactured by the above process, 9.8% Portland Slag Cement by mass, and 2% of cement mass of Self-Healing Bacteria powder at room temperature. Self-healing bacteria uses unhydrated calcium present in the fly ash cement brick, and when water comes in contact with this unhydrated calcium it produces calcium hydroxide. This produced calcium hydroxide reacts with carbon dioxide present in the atmosphere to produce calcium carbonate (limestone) and water. Limestone which gets produced in fly ash cement brick help in filling the void and any hairline cracks available inside the brick, thereby improving its mechanical properties.

No. of Pages : 29 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059394 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 250 ppm Free Molecular Iodine and Propanediol Based Formulation & Applications of such Formulation in Oral mucosal and Intranasal Antisepsis.

(51) International classification	:A61K0009000000, A61K0033180000, A61K0045060000, A61K0033400000, A61K0047100000	(71) Name of Applicant : 1)Mr. ANIL KEJRIWAL Address of Applicant :1009-A, DLF ARALIAS, SECTOR 42, GURUGRAM 122002, HARYANA, INDIA Haryana Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANIL KEJRIWAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a pharmaceutical or a cosmeceutical and/or pharmaceutical composition which comprises molecular iodine (I2) and propanediol, wherein the composition is stable, and wherein the composition delivers free molecular iodine ranging between 220 ppm and 280 ppm, and also a process for its preparation. The composition can be utilized to prevent oral ulcers, oral blisters, nasal blockage, to promote intra-oral as well as intra-nasal health in cosmeceutical and pharmaceutical products for the purpose of oral mucosal and intranasal care.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058596 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : APPARATUS FOR GREYWATER TREATMENT

(51) International classification	:E03B0001040000, C02F0103000000, C02F0001000000, C02F0001760000, C02F0001280000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India 2)Epione Swajal Solutions India LLP (72) Name of Inventor : 1)Anupam Mukherjee 2)Anirban Roy
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is an apparatus for treatment and recycling of greywater, which requires less space and maintenance. Said apparatus comprising of a housing comprising a first inlet adapted to receive greywater, a separation tank comprising a plurality of (filter/membrane) capable of separating water and oil from greywater, an oil discharge drain to receive oil from separation tank; a collecting chamber to receive greywater from separation tank; two filtration devices connected in series adapted to receive greywater from collecting chamber; a reservoir to receive filtered greywater from said filtration devices; a dosing pump (9) connected with reservoir, an ozonation unit to supply ozone to filtered greywater received at reservoir. The apparatus further comprising of a cavitating device, a carbon filter to receive greywater from cavitating device, a membrane filter unit to receive filtered greywater from carbon filter and an outlet port for discharge of treated greywater.

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058597 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ULTRA WIDEBAND ANTENNA

(51) International classification	:H01Q0001380000, H01P0005100000, H01Q0021000000, H01Q0013040000, H01Q0001500000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India (72) Name of Inventor : 1)Ashish Chittora 2)Swati Varun Yadav
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention is an ultra-wideband antenna comprising a pair of conducting curved plates flared symmetrically in exponential profile such that the width of the curved plates increases outwards wherein the pair of curved plates comprise an upper plate and a lower plate and the distance between the plates is $\lambda/2$, said curved plates radiate ultra wideband pulse signals on excitation; a balun transition waveguide structure located between the conducting curved plates and a coaxial feed, for impedance matching, wherein the lower curved plate is connected to the balun and the transition waveguide is located at the back of the balun for impedance matching between the balun and the coaxial feed; and the coaxial feed located at the base of the balun transition waveguide structure and connected to the upper curved plate, for feeding the antenna, said antenna operates at a frequency range of 2 – 20 GHz (Figure 1).

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058598 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CONTINUOUS-FLOW MICROFLUIDIC DEVICE FOR ENRICHMENT OF CAR-T CELLS

(51) International classification	:B01L0003000000, A61K0035170000, C12N0005078300, B01L0007000000, A61P0035000000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India (72) Name of Inventor : 1)Dr. Jegatha Nambi Krishnan 2)Gururaj Joshi Prasanna 3)Arya Agarwal 4)Divakar Rai 5)Ritvik Hegde 6)Sarthak Singh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

-Provided herein is a microfluidic device comprising: a substrate having embedded therein, at least one inlet channel port; at least two outlet channel ports; and at least two pair of sequence of microfluidic channel successively connected between said inlet port and said outlet ports.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058692 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ARRANGEMENT TO REGULATE AND CONDITION WATER FLOW IN A WASHING MACHINE

(51) International classification	:H02H0003160000, F16K0015020000, F16K0015140000, C02F0001480000, D06F0039020000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)GUPTA Bharat
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

] An arrangement (100) to regulate and condition water flow in a washing machine is provided. The arrangement (100) includes first valve assembly (102) configured to one of: close and open based on pressure of the water flowing within the arrangement (100), a water conditioner (104) with a chemical membrane (502) configured to condition the water flowing through the water conditioner (104) and a second valve assembly (106) configured to one of: close and open based on pressure of the water flowing within the arrangement (100). Further, the pressure of the water from a source results in the opening and closing of one of: the first valve assembly (102) or the second valve assembly (106), facilitating in the conditioning of water flowing into the washing machine.

No. of Pages : 21 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058704 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR AUTOMATIC GENERATION OF VIDEO FILES FROM AUDIO FILES

(51) International classification	:G10L0015260000, G06F0016583000, G11B0027031000, H04N0019610000, G06F0016580000	(71) Name of Applicant : 1)ABHISHEK GUPTA Address of Applicant :School of Computer Science & Engineering, Shri Mata Vaishno Devi University, Jammu and Kashmir, India. Jammu & Kashmir India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ABHISHEK GUPTA
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention discloses a method and system for the generation of video file from the audio file automatically. The given audio file is broken into multiple audio files on each occurrence of pause in the continuous speech. The broken/chopped audio file is converted into text separately for each chopped audio file. Each converted text is searched to find the relevant image separately from the available image database. The obtained image is combined along with each corresponding chopped audio file to convert into a video file. All separately prepared video files are appended into one video file.

No. of Pages : 13 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058770 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COLLAPSIBLE HANDLE INTEGRATED TO A CROSS CAR BEAM OF A VEHICLE

(51) International classification	:B60N0003020000, B60Q0003267000, B60J0005040000, E05B0081900000, E05B0085100000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Vinod Babaleshwar 2)Dietmar Wellenkoetter
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A collapsible handle assembly 200 for a vehicle is disclosed, including a collapsible mechanism 204 coupled to a cross beam 206 of the vehicle, and a grab handle 202 movably configured with the collapsible mechanism 204. The grab handle 202 is accessible through a cut-out in a fascia trim of the vehicle. The grab handle 202 is movable between an extended position in which a portion of the grab handle 202 extends outside of the fascia trim, and a collapsed position in which the grab handle 202 retracts within the fascia trim. The grab handle 202 is configured to assist a driver or a passenger for ease of ingress in and/or egress from a driver cabin of a vehicle.

No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058771 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR LANE DETERMINATION OF EGO VEHICLE

(51) International classification	:G06K0009000000, G08G0001056000, B60W0030160000, G08G0001160000, G06F0007020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Mr. Battagiri Mallikarjuna Reddy 2)Mr. Deepak Panda 3)Mr. Florian Ries
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a system and method for lane determination of an ego vehicle, where the system and method includes: obtaining a compatibility percent associated with each of the mapped first and second set of lane and position attributes, taking into consideration a confusion matrix, and correspondingly computing first fitting score and second fitting score for the mapped first set of lane and position attributes and the mapped second set of lane and position attributes, respectively. Further, the extracted set of lane and position attributes with higher fitting score can be fed to a Bayes filter in order to enable fusion of the first and second set of lane and position attributes, thereby facilitating lane determination of the ego vehicle.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058772 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : COOLING SYSTEM FOR A CHARGING CONNECTOR

(51) International classification	:H05K0007200000, H02K0001200000, G01K0013020000, F28F0003020000, B60L0053160000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Ranjith Warrier 2)Dhananjay Deshmukh 3)Aditya Paithane 4)Vaishnavi Panneerselvam 5)Vijay Premchandran 6)Dhiraj Borse
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cooling system for a charging connector (200) for an electric vehicle is disclosed, having annular-shaped channels (204-1, 204-2) configured around pins (202-1, 202-2) associated with the connector (200) such that at least one pin is configured within one of the channels (204-1, 204-2). Channels (204-1, 204-2) extend longitudinally around an outer surface of the corresponding pins (202-1, 202-2), and are fluidically coupled to the cooling unit of the charging station, which is configured to supply and enable the flow of cool air around the pins (202-1, 202-2) through the channels (204-1, 204-2). Dimpled radial metal fins (206) extend between inner surface of the channels (204-1, 204-2) and outer surface of the pins (202-1, 202-2), and each of the channels (204-1, 204-2) is surrounded by a layer of an electrically insulating material. The cool air exiting the channels (204-1, 204-2) is used for cooling other components of the vehicle.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058773 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REGULATED VOLTAGE POWER SUPPLY

(51) International classification	:H02M0001320000, H02M0001000000, H02M0003158000, H02M0003280000, H02M0001360000	(71) Name of Applicant : 1)Schneider Electric India Private Limited Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India (72) Name of Inventor : 1)GUPTA, Aditya 2)SHENOY, Ashwini 3)KOTIAN, Madhava Narayana
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a regulated voltage power supply that includes a rectifier electrically coupled to an input supply for converting an AC voltage into a DC voltage. A voltage regulator electrically coupled with the rectifier to regulate the DC voltage output of the rectifier. The voltage regulator includes a first Zener diode, and a second Zener diode serially coupled with the first Zener diode. A DC-DC voltage converter electrically coupled, in parallel, with the voltage regulator. A switch electrically coupled between the serially coupled first Zener diode and the second Zener diode, wherein the switch is operatively configured with the input supply.

No. of Pages : 13 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058774 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : VACUUM CLEANER WITH RECYCLED PARTS

(51) International classification	:A47L0009100000, A47L0009220000, A47L0005360000, A47L0009000000, G03G0015100000
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

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Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India

(72)Name of Inventor :

1)SINGH, Satinder

2)GUPTA, Shilpi

3)SINGHAL, Shelly

4)SINGH, Sarabjeet

5)SINGH, Jashandeep

(57) Abstract :

The present disclosure provides a vacuum cleaner with recycled parts. The vacuum cleaner includes, container, one or more exhaust fans, handle, one or more pipes and one or more gears. The container may comprise of a first compartment and second compartment. First compartment may comprise of the one or more exhaust fans, operatively coupled to the handle, using the one or more gears. One or more pipes may be operatively coupled to the second compartment and attached to the first compartment. One or more exhaust fans may start rotating when the handle is manually rotated, causing a suction force to be created. The suction force, may help suck the dust in through one or more pipes. The sucked in dust, may be stored in the second compartment, and may be disposed by detaching second compartment from the container. The parts such as the container and pipes, may be recycled material.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059395 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 250 ppm Free Molecular Iodine & Alcohol Based Formulation & Applications of such Formulation in Lavatory Surface Sanitization and Disinfection.

(51) International classification	:A61K0033180000, A61K0031045000, A61K0009000000, A01N0025120000, A61K0033400000	(71) Name of Applicant : 1)Mr. ANIL KEJRIWAL Address of Applicant :1009-A, DLF ARALIAS, SECTOR 42, GURUGRAM 122002, HARYANA, INDIA Haryana Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANIL KEJRIWAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a composition comprising free molecular Iodine (I₂) and alcohol which act as germicide, disinfectant, and sanitizing agent to kill a wide range of microorganisms including bacteria, fungi, and to some extent viruses, and also a process for its preparation. The composition further comprises glycerol and inert excipients. The composition can be utilized as a lavatory surface sanitizing agent/disinfecting agent or in products for instantaneous surface sanitization and disinfection.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059396 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 500ppm Free Molecular Iodine, Alcohol and Propanediol Based Formulation & Applications of such Formulation in relieving foot odor.

(51) International classification	:A61K0033180000, A61K0009000000, A61Q0015000000, A61K0033400000, A01N0025120000	(71) Name of Applicant : 1)Mr. ANIL KEJRIWAL Address of Applicant :1009-A, DLF ARALIAS, SECTOR 42, GURUGRAM 122002, HARYANA, INDIA Haryana Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANIL KEJRIWAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a cosmeceutical composition comprising of free molecular iodine (I₂), a lower alcohol, and propanediol, which act as germicide and antiseptic to kill a wide range of microorganisms including bacteria, fungi, and viruses. The composition further comprises glycerol and inert cosmeceutical/pharmaceutical excipients. The composition can be utilized as antimicrobial, skin antiseptic, topical disinfectant, in various segments of cosmeceutical products by giving a persistent antiseptic effect, in particular, the composition can be employed as a topical application on the feet.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059397 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : 150 ppm - 300 ppm Free Molecular Iodine and Alcohol based formulation and application of such formulation in antisepsis and disinfection.

(51) International classification	:A61K0009000000, A61K0033400000, A61K0033180000, A61K0045060000, A61K0047100000	(71) Name of Applicant : 1)Mr. ANIL KEJRIWAL Address of Applicant :1009-A, DLF ARALIAS, SECTOR 42, GURUGRAM 122002, HARYANA, INDIA Haryana Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANIL KEJRIWAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a composition comprising free molecular Iodine (I₂) and alcohol which act as germicide, disinfectant, antiseptic to kill a wide range of microorganisms including bacteria, fungi, and to some extent viruses, and also a process for its preparation. The composition further comprises glycerol. The composition can be utilized, for example, as a surgical preparation solution during pre-surgical, surgical and post-surgical treatments, and can be utilized in varied application in antisepsis and disinfection.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059398 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Free Molecular Iodine and Citronella Oil Based Formulation & Applications of such a formulation as mosquito repellent.

(51) International classification	:A01N0065440000, A01N0065000000, A61K0033180000, A01N0025120000, A01N0025040000	(71) Name of Applicant : 1)Mr. ANIL KEJRIWAL Address of Applicant :1009-A, DLF ARALIAS, SECTOR 42, GURUGRAM 122002, HARYANA, INDIA, Haryana Haryana India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANIL KEJRIWAL
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed herein is a composition comprising free molecular Iodine (I₂) and citronella oil which act as germicide and antiseptic, as mosquito repellent, and to kill a wide range of topical residual microorganisms, and also a process for its preparation. The composition further comprises alcohol and glycerol. The composition can be utilized, for example, as a skin antiseptic and a mosquito repellent in cosmeceutical products by actively repelling insects/mosquitoes and preventing infections and illnesses caused due to microbial pathogenesis during a mosquito bite.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059420 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A PROCESS FOR THE PURIFICATION OF SAXAGLIPTIN MONOHYDRATE

(51) International classification	:C07D0209520000, A61K0031403000, G11B0005730000, C07D0239060000, C09K0011770000	(71) Name of Applicant : 1)MOREPEN LABORATORIES LIMITED Address of Applicant :Village & P.O.-Masulkhana, Parwanoo, Distt. -Solan, Himachal Pradesh 173220, India (IN) Himachal Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SURI, Sanjay
(33) Name of priority country	:NA	2)TANWAR, Pal Madan
(86) International Application No	:NA	3)Krishan Singh Verma
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a process for the purification of saxagliptin monohydrate wherein each impurity specifically corresponding amide impurity or cyclic amidine impurity has been controlled in an amount less than 0.1% or less than 0.05%w/wbyHPLC.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059456 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A BATTERY COOLING APPARATUS

(51) International classification	:H01M0002100000, H01M0010613000, H01M0010625000, H01M0010643000, H01M0002200000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Himanshu Patel 2)Chetan Mundhe 3)Rohit Kulkarni 4)Sudesh Gulia
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cooling apparatus 100 a battery pack is disclosed, including a housing 102 to accommodate battery modules 106 of the battery pack, a plurality of cell holders 108 configured in each battery module 106 to accommodate cells 110 of the battery module 106, a cooler 118 configured to cool and maintain a constant temperature of a coolant 120, and a coolant circuit 122 configured to circulate the coolant 120 between the cooler 118 and the battery modules 106. Further, a pump 132 is configured to pump the coolant 120 through the coolant circuit 122 to supply the coolant 120 into battery modules 106 for cooling each cell 110 of the battery modules 106. The cell holders 108 are configured such that the supplied coolant 120 circulates through each cell holder 108 for cooling each cell 110 to ensure uniform temperature of the cells 110 of the battery pack.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059645 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A WRINKLE DETECTOR FOR A STEAM CLOSET

(51) International classification	:A61Q0019080000, H04W0084180000, D06F0073000000, A47B0061000000, D06F0073020000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)SHARMA Chirag
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A steam closet (108) with a wrinkle detector (100) for automatic control garment treatment cycle based on the wrinkles on the garment (110) is disclosed. The steam closet (108) includes an inner space (112) to receive one or more garments (110) for removing wrinkles and a light source (118) to emit light on the one or more garments (110). The wrinkle detector (100) includes a camera (102) to capture one or more images of each of the garment (110) and an analyzer module (104) to determine a Wrinkle Severity Number (WSN) associated with the garment (110) based on the one or more captured images of the garment Figure 1(b) (110). Further, the steam closet (108) includes a control module (106) communicatively coupled to the wrinkle detector (100) to control the garment treatment cycle of the steam closet (108) based at least on the determined WSN.

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059663 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ELECTROCHEMICAL MICROFLUIDIC DEVICE AND A PROCESS FOR PREPARING THE SAME

(51) International classification	:B01L0003000000, B01L0009000000, C12M0001160000, G01N0033532000, B81C0003000000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India (72) Name of Inventor : 1)Sanket Goel 2)Subhendu Kumar Sahoo 3)Mrunali Wagh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an electrochemical microfluidic device having an integrated electrical zone and analytical zone, and also to a process for preparing the said device. The invention also relates to a method of detecting at least one analyte of interest in a sample using the said device. The invention also discloses a three-electrode system on a solid substrate.

No. of Pages : 29 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059664 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DISTILLATION APPARATUS

(51) International classification	:B01D0003140000, C02F0001040000, B01D0003000000, B01D0003320000, B01D0005000000	(71) Name of Applicant : 1)Birla Institute Of Technology & Science (BITS), Pilani Address of Applicant :Pilani Campus, Vidya Vihar, Pilani, Jhunjunu District, Rajasthan – 333031, India. Rajasthan India (72) Name of Inventor : 1)Y S Prasanna 2)Sandip Shridharrao Deshmukh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided herein is a distillation apparatus comprising comprising (i) an overhead tank for holding saline water, (ii) a container comprising a plurality of sidewalls and a bottom wall and an opening (iii) a plurality of solar absorber panel placed along the length of a bottom surface of the container at different heights; (iv) pitched roof element disposed over the solar absorber panels which preferably is formed of glass (v) a distil water collecting trough disposed at the base of the pitched roof element to collect and carry water that has condensed on the pitched roof element and which flows down the pitched roof element under the force of gravity.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059751 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LEAKAGE DETECTION SYSTEM FOR PIPELINE

(51) International classification	:H04N0005232000, H04W0004029000, H04N0007180000, G06F0016951000, G06F0003010000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)LILHORE, Umesh Kumar 2)SIMAIYA, Sarita 3)SRIVASTAVA, Vipul
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a system to detect leakage in a pipeline, the system include one or more image acquisition units 102 positioned inside the pipeline at various location to collect inside images. The system include a control unit 110 configured to process the images using VGG16, and upon detection of leaked-related data in the pipeline, location information of that area is collected through an associated location identifier 108. The detected leakage-related data along with the location information is transmitted to concerned authorities automatically, to take required action. Also, in case of flammable leakage, nearby people are notified to vacant the area.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059752 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR CRANKING ENGINE IN HYBRID VEHICLE AND METHOD THEREOF

(51) International classification	:B60W0010080000, B60W0010060000, B60W0020000000, B60W0030180000, F02D0041060000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Sanjay Gupta 2)Devpriyo Ghosh 3)Tobias Bischoff 4)Markus Nonnenmacher
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a control strategy for cranking engine in hybrid vehicle, where the hybrid vehicle can operate in four different phases through closure of KO and K1/K2 clutches to accomplish engine cranking. Phase A represents closure-profile for KO clutch, where KO clutch is closed in least possible time based on hydraulic filling time. Further, Phase B represents K1/K2 clutch closure during which kinetic energy of the front wheels is transferred gradually to the engine. At the end of phase B, the engine reaches a cranking speed, where the engine can sustain its operation by itself. Moreover, Phase C and Phase D of are calibration dependent. K1/K2 clutches are gradually opened or closed, and then K1/K2 clutches could be held constant at a clutch travel value, thereby allowing the engine to consume produced energy to accelerate itself.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060146 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : RAMP FOR FACILITATING DISABLED USERS TO TRAVEL IN TRAIN AND METHOD THEREOF

(51) International classification	:B60P0001430000, A61G0003060000, A63C0019100000, F16D0013750000, A47C0007380000	(71) Name of Applicant : 1)Gangadhar Address of Applicant :Sahab Tara, Jabalpur, Ambedkar Nagar, Uttar Pradesh - 224149 Uttar Pradesh India (72) Name of Inventor : 1)PANDEY, Ashutosh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a ramp system (1) for train to facilitate the traveling of disabled users. The ramp system includes a railing (6) to provide support to the user while ascending or descending the ramp (1), a plurality of attachment attached to the train for providing rigid support to the attachment. While working, when train stops at the station and vacuum is released by a braking system of the train, the vacuum is utilized by the plurality of attachment system to open the ramp (1) and placed the ramp at a top of the platform of the station to form inclined ramp.

No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060147 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LID OPENER AND METHOD THEREOF

(51) International classification	:B67B0007180000, B67B0007160000, A01C0005060000, B67B0007440000, B67B0007700000	(71) Name of Applicant : 1)WANI, Reyaz Ahmed Address of Applicant :Village: Akhran Nowpora, Tehsil: Devsar, District: Kulgam, Jammu and Kashmir -192231, India. Jammu & Kashmir India (72) Name of Inventor : 1)REYAZ, Mehwish
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a lid opener. The lid opener includes a spiral groove (4) embossed in the inner side of a lid and a pair of handles (9) attached to the lid opener at the middle portion. Further, the pair of handles (9) forms a shape of "T", wherein with grooves in the inner side of a lid is configured to fit in the spiral grooves of lid, wherein the combination of the inner lid with grooves and that of the T- shaped opener facilitates easy opening and closing of a lid.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060159 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TIRE STATE MONITORING CONTROLLER FOR POST TIRE BLOW OUT MITIGATION AND METHOD THEREOF

(51) International classification	:B60C0023040000, B60C0025000000, B29L0007000000, B60G0017016500, G01M0017020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Padmanabhan Sivanandam 2)Varun Prabhu 3)Arvind Suresh 4)Rajesh Ramesh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides tire state monitoring controller 104 (TSMC 104) for post tire blow out mitigation and method thereof. The TSMC 104 includes a communication module including a transponder 214 and multiple receivers 212-1, 212-2, 212-3, and 212-4. The TSMC 104 includes a positioning unit for providing kinetic parameters of the vehicle 100, and a gyroscope for providing orientation of the vehicle 100. The transponder 214 is operatively coupled to the control unit 210, configured to obtain a set of signals that are triggered by the control unit 210 based on detected tire blow out, the kinetic parameters of the vehicle 100, and the orientation of the vehicle 100. Further, the transponder 214 is communicatively coupled with each of the receivers 212, which, in turn, are coupled with corresponding tires 102 via an actuating unit.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060181 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROOF ASSEMBLY FOR A WORK VEHICLE

(51) International classification	:E02F0009260000, B60K0017280000, B60H0001000000, B62D0049060000, E02F0009200000	(71) Name of Applicant : 1)CNH Industrial America LLC Address of Applicant :500 Diller Avenue, New Holland, Pennsylvania 17557, USA U.S.A. (72) Name of Inventor : 1)Booth, David Sheldon 2)Piper, John Torin 3)Braun, Michael J. 4)Curley, Thomas Michael 5)Onken, Aaron Francis 6)Tveito, David Larry 7)Shende, Abhishek
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A roof assembly for a work vehicle includes a grab rail and a grab rail support coupled to the grab rail. The grab rail support is configured to couple to a roof structure of the roof assembly, the grab rail support is configured to support the grab rail on the roof structure, the grab rail support has a hollow passage configured to facilitate passage of a wire, and the grab rail support has an inlet to the hollow passage configured to be positioned at an interior of the roof structure to enable the wire to extend from the interior of the roof structure into the hollow passage.

No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060183 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROOF ASSEMBLY FOR A WORK VEHICLE

(51) International classification	:E02F0009260000, B60K0017280000, B60H0001000000, B62D0049060000, E02F0009200000	(71) Name of Applicant : 1)CNH Industrial America LLC Address of Applicant :500 Diller Avenue, New Holland, Pennsylvania 17557, USA U.S.A. (72) Name of Inventor : 1)Booth, David Sheldon 2)Venth, William 3)Braun, Michael J. 4)Curley, Thomas Michael 5)Onken, Aaron Francis 6)Tveito, David Larry 7)Stoltman, Russell V. 8)Shende, Abhishek
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A roof assembly for a work vehicle includes a roof panel having a vertical peak positioned longitudinally between a forward end and a rearward end of the roof panel. In addition, the roof panel includes a forward surface extending from the vertical peak to the forward end of the roof panel, and the roof panel includes a rearward surface extending from the vertical peak to the rearward end of the roof panel. The roof panel also includes a ridge extending around a periphery of the roof panel. The ridge has a first gap positioned at the rearward end of the roof panel, a second gap positioned at the forward end of the roof panel, and a third gap positioned at a first lateral end of the roof panel. In addition, the roof panel does not include a channel extending along the roof panel.

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058775 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR CONTEXT BASED ADJUSTMENT OF SEATS IN A VEHICLE AND METHOD THEREOF

(51) International classification	:B60N0002020000, H04N0005225000, G06K0009000000, H04N0013239000, G01S0015880000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Mr. Shihabudheen Muhammed 2)Mr. Varunjith Vijayan 3)Mr. Harisanker Madai 4)Ms. Supreeta Gudi S
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system and method for context-based adjustment of seats in a vehicle is disclosed, comprising a control unit 106 attached with a 3D camera 304 and a CAN module 302. Each frame captured by the camera 304 is processed to extract 3D information from the image and further the control unit 106 identifies context of the interior and creates body skeletal from the 3D information to identify an ergonomic position for the occupant. According to the identified ergonomic position, the system 100 sends the seat adjustment information over the CAN module 302 to actuate motor 310.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058777 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TAPPING APPARATUS

(51) International classification	:A01G0023120000, B65H0039100000, F27B0003190000, B42C0001120000, G01J0003320000	(71) Name of Applicant : 1)Schneider Electric India Private Limited Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India (72) Name of Inventor : 1)BHADORIYA, Madansingh Upendrasingh 2)KUMAR, Ashish 3)MAHINDRAKAR, Vinod
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to an apparatus for performing trapping on one or more components. The apparatus includes a first tapping station, and a second tapping station operatively configured, through a connecting track, with the first tapping station. The first tapping station is configured to perform a first tapping on the one or more components and the second tapping station is configured to perform a second tapping on the one or more components. A magazine operatively configured with the first tapping station and the second tapping station, and configured to hold the one or more components, and the one or more components are of different dimensions and are sequentially pushed till the first taping station and the second tapping station.

No. of Pages : 13 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058778 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : DEVICE TO DETECT MEDICAL CONDITION IN PREGNANCY

(51) International classification	:G06Q0050220000, G16H0010600000, A61B0005000000, A61B0005020500, G16H0015000000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)SINGH, Thakur Gurjeet 2)GARG, Nidhi 3)KATTUNGA, Shaima
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a device (100) to detect medical condition of a woman in pregnancy especially gestational diabetes mellitus (GDM) and hypothyroidism. The device (100) facilitates in connecting the woman with a healthcare professional using an interface provided on the device (100). The device include an input unit (106) configured to receive medical information such as medical reports and values of health parameters. Further, the received medical information can be analysed, and upon detection of any health parameter beyond a pre-defined range, a health professional is notified that check medical condition of the woman and correspondingly recommend ne medications, diet and exercise.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058779 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PROTECTION CIRCUIT FOR CIRCUIT BREAKER

(51) International classification	:H02H0003093000, H02H0003087000, H02J0009060000, H05B0045000000, H01H0009540000	(71) Name of Applicant : 1)Schneider Electric India Private Limited Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India (72) Name of Inventor : 1)NAHATA, Deepak Prakash 2)CHAUDHARI, Soumya Rajendra
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a protection circuit for circuit breaker. The protection circuit includes an electromagnetic coil electrically configured with circuit breaker. A first circuit electrically configured with the electromagnetic coil, and the first circuit is configured to trip the circuit breaker when an input voltage is below a first predefined value. A switching circuit electrically configured with the first circuit. A second circuit electrically configured, through the switching circuit, with the first circuit, and the second circuit is configured to trip the circuit breaker when the input voltage is greater than a second pre-defined value. A third circuit optically configured with the switching circuit, and configured to trip, through the switching circuit, the circuit breaker when the input voltage is applied to input terminals of the third circuit.

No. of Pages : 17 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058780 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR HOLDING AND LOCKING CAM CAPS ON CYLINDER HEAD

(51) International classification	:F02F0007000000, F02F0001240000, F01L0001053000, F01M0009100000, B23P0019020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Athul Thazhathayil 2)Mohanraj Jagadeesan 3)Madhavakrishna Uppugandla 4)Sudeep Govind
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (200) for holding and locking cam caps (204) on the cylinder head (202) is disclosed, comprising sleeves (206) configured with the cam caps (204), and rings (208) configured within counter bores provided in the cylinder head (202). The sleeves (206) and the rings (208) are adapted to attract each other which facilitates retention of the cam caps (204) in position over the cylinder head (202) during assembly. Further, each of the sleeves (206) has an annular cross-section and is located concentric to holes provided on cam caps (204), which is configured to accommodate a threaded fastener (210) configured to fix the cam cap to the cylinder head (202). Further, each of the counter bores of the cylinder head (202) is provided concentrically to holes provided in the cylinder head (202), which is configured to receive the threaded fastener (210) to fix the cam caps (204) with the cylinder head (202).

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059457 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR AN ADAPTABLE FOOT REST ON A CARPET OF A VEHICLE

(51) International classification	:A47C0016020000, A47C0007500000, B60N0003060000, A43B0005040000, A61B0005107000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Atul Shinde
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present disclosure relates generally to the field of automobiles, in particular relates to system and method for an adaptable foot rest on carpet of vehicle. System detects, using one or more proximity sensors, a foot height (zd) of a user from floor level, and detects, using one or more proximity sensors, foot rest height (za) on air bladder with respect to the foot height (zd) from the floor level. System compares the foot height (zd) with foot rest height (za) and calculate height difference between foot height (zd) and the foot rest height (za). The system triggers the air pump using signal corresponding to required inflation of the air bladder to achieve desired height from the foot rest height (za) to the foot height (zd) of the air bladder. System adapts foot rest to desired height based on inflating air bladder. The foot rest is coupled to a carpet.

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059458 A

(19) INDIA

(22) Date of filing of Application :20/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : FUEL INJECTION SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F02M0021020000, F02D0041300000, F02M0061140000, F02M0069460000, F02M0055020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Chockalingam Muthulakshmi 2)Rini Reginald 3)Poorna Chandra L 4)Mohan Kumar M
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A fuel injection system 100 for an IC engine is disclosed, including at least one fuel injector 108 fluidically connected to a fuel rail 106 and to at least one cylinder of the IC engine. Each fuel injector 108 includes an injector body 202, and a two-pin actuator 204 comprising an inlet passage to receive the fuel from the fuel rail 106. The injector body 202 comprises a first passage 208 and a second passage 210, which are fluidically connected to the inlet passage of the two-pin actuator 204. The first passage 208 is configured for port injection and the second passage 210 is configured for direct injection. The two-pin 204 is configured to control flow of the fuel between the first passage 208 for port injection and the second passage 210 for direct injection.

No. of Pages : 16 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059459 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : IMPROVED AIRGUIDES FOR VEHICLES

(51) International classification	:B60K0011040000, B60K0011080000, B60R0021013600, B60K0011060000, F01P0011100000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Gunasekaran Kanagaraj 2)Kuttimani Senguttuvan 3)Mayur Patil 4)Suraj Deshpande
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An air guide assembly for a vehicle is disclosed. The air guide assembly includes a lower air guide 204 configured between a front grill shutter 206 and a cooling module 202 of the vehicle for guiding ram air flowing from a front grill to the cooling module 202. The lower air guide 204 is sealed with the front grill shutter 206. The lower air guide 204 comprises a sine wave geometry with varied thickens cross sections to create weak sections in the lower air guide 204 to absorb an impact during an event of low-speed front collision of the vehicle for reducing transfer of the crash impact to the cooling module 202 from a front bumper of the vehicle.

No. of Pages : 11 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059460 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ADJUSTABLE BRACKET FOR A SHORT-RANGE RADAR SENSOR IN VEHICLES

(51) International classification	:H01Q0001120000, G03G0021180000, F16L0003220000, G03G0021160000, F16M0011100000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Raghavendra Mahabaleshwar 2)Suhas Rao 3)Rahul Manekar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An adjustable bracket 200 for a sensor 220 of a vehicle, including a fixing frame 202 fixed to a vehicle body, a first frame 204 movably configured with the fixing frame 202 to move along a first axis 206, a second frame 216 rotatably configured with the first frame 204 to rotate about a third axis 222 which is perpendicular to the first axis 206, and a third frame 218 rotatably configured with the second frame 216 to rotate about a second axis 214 which is perpendicular to the first axis 206 and the third axis 222. In addition, the third frame 218 includes slots 230 and holding brackets 232 movably configured in the slots 230 to hold the sensor 220. Movable arrangement of the holding brackets 232 allows third frame 218 to hold the sensor 220 of different size.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/12/2021

(21) Application No.202111059503 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR HANDLING INVENTORY ITEMS

(51) International classification	:B65G0001137000, G06Q0030060000, G06Q0010080000, B25J0009000000, B29C0049420000	(71) Name of Applicant : 1)Grey Orange Inc. Address of Applicant :Northmeadow Business Park, 660 Hembree Park Drive, Suite 120, Roswell, Georgia 30076 Georgia (72) Name of Inventor : 1)MITTAL, Vibhor 2)JESWANI, Kalpesh 3)AMIYA, Shah Shrey 4)VASHISHT, Dhirendra 5)SAINI, Varun 6)VERMA, Mayank
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (102) comprising an information processing apparatus (114) that is configured to select an order and consecutively identify an operation station at which the selected order is to be opened based on the order information and the set of associated characteristics of the selected order received by way of an input engine (112), map the selected order at the identified operation station, create a set of cartons (122) based on the set of associated characteristics of the selected order by way of the carton creator (108), transfer the created set of cartons (122) to the identified operation station by way of a robotic apparatus to facilitate in completion of the selected order, and transfer, upon processing of one or more cartons of the created set of cartons (122), the processed one or more cartons to another operation station by way of a robotic apparatus.

No. of Pages : 40 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060203 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A FRAME OF A VEHICLE

(51) International classification	:B60N0002680000, G01S0007400000, E04H0006280000, B62D0021110000, E05B0083100000	(71) Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi, India, 110 070 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)ANUJ VERMA
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Present disclosure discloses a cross member (4) for a frame (10) of a vehicle (100). The cross member (4) includes an elongated body, defined by a first section (4a) connectable to a first side rail (2a) of a pair of side rails in the frame (10), and a second section (4c) connectable to a second side rail (2b) of the pair of side rails in the frame (10). Further, a connection point (4S) of the second section (4c) to the second side rail (2b) is disposed rearward than a connection point (4F) of the first section (4a) to the first side rail (2a). The cross member (4) eases accessibility to a fuel pump (35) located inside a fuel tank (30) and secures elements like cushion member (40), fuel tank (30) and also provides torsional strength and stability.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060214 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A HUMIDIFIER

(51) International classification	:F24F0006000000, F24F0006120000, B01F0003080000, A61M0016100000, A61M0016160000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)SINGH Navtej
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for atomization of water in a humidifier is disclosed. The method includes rotating a rotor having one or more vertical holes. Further, the method may include pulling a mixture of air and water from a water reservoir of the humidifier through openings of the one or more vertical holes at a high pressure to produce water droplets. The method also includes egressing the produced water droplets ensuing a shearing action through one or more opening slots into the inner volume of the humidifier. Thereafter, the method includes producing an air-water aerosol in the inner volume of the humidifier.

No. of Pages : 38 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060237 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A DUST SEAL STRUCTURE FOR A VEHICLE

(51) International classification	:C08L0023160000, B60J0010160000, B60J0010800000, B60R0013020000, B60J0010840000	(71) Name of Applicant : 1)MARUTI SUZUKI INDIA LIMITED Address of Applicant :1, Nelson Mandela Road, Vasant Kunj, New Delhi – 110070, India Delhi India 2)NISHIKAWA RUBBER CO., LTD. 3)ALP NISHIKAWA CO., PVT. LTD.
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Orvill J M
(33) Name of priority country	:NA	2)Mandeep Singh
(86) International Application No	:NA	3)Mukesh Mishra
Filing Date	:NA	4)Varun Chauhan
(87) International Publication No	: NA	5)Aaradhana Agarwal
(61) Patent of Addition to Application Number	:NA	6)Arpit Dhir
Filing Date	:NA	7)Hirofumi Nakai
(62) Divisional to Application Number	:NA	8)Navdeep Kumar
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a dust seal structure (112) for a vehicle, comprising a main body portion (112-B) mounted on a rear wheel arch of the vehicle. From the main body portion (112-B), a primary lip (112-P) protruding towards a side door (104) of the vehicle and rests on a door panel (104) lower end, and a secondary lip (112-S) protruding from the main body portion (112-B) towards the side door (104) of the vehicle and rests on a door cladding (110) lower end. The main body portion (112-B) is metal reinforced seal. The metal reinforced seal includes a steel strip co-extruded with a flexible material such as ethylene propylene diene monomer (EPDM) rubber, soft polyvinyl chloride (soft PVC), thermoplastic olefin (TPO), thermoplastic elastomer (TPE) and thermoplastic vulcanizate (TPV).

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060249 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A REAL TIME IOT-BASED VEHICLE IDENTIFICATION ANDTRACKING SYSTEM (RTI-VITS)
AND METHOD THEREOF

(51) International classification	:G07C0005000000, G06Q0010080000, H04W0004020000, G06Q0050100000, G01S0005000000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India (72) Name of Inventor : 1)Mayank Sharma 2)Upasana Sharma 3)Alka Chaudhary
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a real-time IoT-based vehicle identification and tracking system (RTI-VITS) and method thereof. It have interfacing with microcontroller of vehicle. The main aspect of the device is to provide information packet to nearest road transport department on the way when vehicle start from any location and time to time update is position to the local agencies. It is two-way IoT based device which give information which consist of only that information which is related to the registration of vehicle. Information fields consists of, but not limited to, Vehicle Registration Number, Make/Model of Vehicle, Type of Vehicle, Vehicle owners Name and address, Start position and time, Update current Position (Location and Time). This device work on GSM and have embedded GPS location sensor.

No. of Pages : 12 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060250 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR IDENTIFICATION AND SEVERITY DETERMINATION OF ALZHEIMER'S DISEASE USING NEURAL NETWORK STICK

(51) International classification	:G10L0015160000, G05B0013020000, G06T0007254000, C07C0045740000, G06N0003020000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India (72) Name of Inventor : 1)Pooja Khanna 2)Ravi Kumar Gupta 3)Sachin Kumar 4)Anil Kumar 5)Sudhir Kapoor 6)Pragya
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a system for identification and severity determination of Alzheimer's Disease using Neural Network stick. The present invention comprises of two-step process for identification, first 7 step comprises of two basic tests for primary detection and second step comprises of seven advanced tests for confirmed and severe cases. Person will go for second step only when first step comes as positive and suspected. The model is proposed to be implemented with a combination of software and hardware. Tests are implemented using python language and hardware will be implemented employing camera interfaced with Neural Network stick for processing data obtained from tests and LED 14 screen for display.

No. of Pages : 26 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058792 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR SYNCHRONIZING A THREE-PHASE SINGLE STAGE SOLAR ASSEMBLY WITH A POWER GRID

(51) International classification	:H02J0003360000, H02J0003380000, H02S0050100000, G01R0019000000, H02J0003060000	(71) Name of Applicant : 1)Indian Institute of Technology Delhi Address of Applicant :Indian Institute of Technology Delhi, Hauz Khas, New Delhi-110016, India. Delhi India (72) Name of Inventor : 1)SINGH, Bhim 2)PANIGRAHI, Bijaya Ketan 3)SAXENA, Vardan 4)KUMAR, Nishant
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (100) for synchronizing a 3-phase 1-stage solar-assembly (104) with a power grid (102) is provided. The assembly (104) includes a photovoltaic array (202), a voltage source converter (VSC) (204), a first current-sensor (206A) and a voltage-sensor (206B). The VSC (204) is connected to the photovoltaic array (202) and the first current-sensor (206A) is connected between the photovoltaic array (202) and the VSC (204) to measure a current of the photovoltaic array. Further, the voltage-sensor (206B) is connected to the photovoltaic array to measure a voltage of the photovoltaic array. The system (100) includes load current-sensors (110) connected to the load to measure a load current and a controller (112) connected to the VSC. Further, the controller is configured to control the VSC and to extract a fundamental frequency component of the load current.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111058794 A

(19) INDIA

(22) Date of filing of Application :16/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : DRY FLOWABLE FORMULATION OF OXYFLUORFEN

(51) International classification	:A01N0033220000, A01N0025140000, A61K0031110000, A01N0025100000, A23L0027000000	(71) Name of Applicant : 1)WILLOWOOD CHEMICALS PRIVATE LIMITED Address of Applicant :406-409, 4th Floor, Salcon Aurum, District Centre, Jasola, New Delhi 110025, India. Delhi India (72) Name of Inventor : 1)MUNDHRA PARIKSHIT 2)MOHAN JITENDRA
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

DRY FLOWABLE FORMULATION OF OXYFLUORFEN The present invention relates to a dry flowable herbicidal formulation of Oxyfluorfen, process of preparation of formulation and uses thereof.

No. of Pages : 41 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058797 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SINGLE PHASE SINGLE STAGE ISOLATED BIDIRECTIONAL CONVERTER FOR DC_LINK CAACITOR REDUCTION

(51) International classification	:H02M0003335000, H02J0003320000, C23C0002260000, B23B0027140000, A61K0009500000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi – 110016, Delhi, India. Delhi India (72) Name of Inventor : 1)SINGH, Bhim 2)PANIGRAHI, B.K. 3)FAROOQI, Muhammad Zarkab
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SINGLE PHASE SINGLE STAGE ISOLATED BIDIRECTIONAL CONVERTER FOR DC_LINK CAACITOR REDUCTION An isolated bidirectional AC-DC converter for active power decoupling for single-phase systems, said converter comprising: a single-stage dual-half bridge, DHB, based decoupling circuit having four switches configured to perform active power decoupling, said circuit operably coupled to a high frequency transformer and four small-valued capacitors, said capacitors are adapted to compensate double frequency power ripple generated in converters for single-phase system, wherein the single stage DHB is adapted to perform step-up and step-down operation of decoupling capacitor voltage for increased efficiency and decoupling capability. FIGURE 4A

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058799 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPROVED VENTILATION EXHAUST FAN

(51) International classification	:H02K0001270000, G02B0021060000, G02B0021160000, G02B0021000000, G02B0021360000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :Hauz Khas, New Delhi – 110016, Delhi, India. Delhi India (72) Name of Inventor : 1)SINGH, Bhim 2)SAW, Deepak 3)SHARMA, Utkarsh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides an improvement in terms of motor technology. Ferrite magnet surface permanent magnet synchronous motor (SPMSM) based industrial exhaust fans are an energy efficient alternative to single phase induction motor (SPIM) due to their improved efficiency and high power density. Therefore, a low cost ferrite surface permanent magnet synchronous motor is provided in industrial exhaust fan. (Figure 1)

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058805 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : RUBBER ANTI-VIBRATION MOUNT (RAVM) FOR ENHANCED DAMPING AT LOW FREQUENCIES AND SHOCK RESISTANCE THEREOF

(51) International classification	:H01R0013533000, F16F0015020000, G11B0033080000, F16F0001373000, F04D0029660000	(71) Name of Applicant : 1)CHAIRMAN, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION Address of Applicant :Ministry of Defence, Govt. of India, Room No.348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110011, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)KUNJUMOIDEEN, Shajahan
(33) Name of priority country	:NA	2)ADIYODI VEETIL, Ramesh Kumar
(86) International Application No Filing Date	:NA :NA	3)RENGANATHAN SIVAKAMI, Arun Sundar
(87) International Publication No	: NA	4)JOHN, Reji
(61) Patent of Addition to Application Number:NA Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to passive anti-vibration mount with metallic inserts and comprising an elastomeric composition for moulding of these mounts which offer an enhanced damping and shock isolation. These mounts can be used for protection of machine and equipment from shock and vibrations in hostile environments of marine platforms also. It can be used for silencing the noise and vibrations and the resultant reduced vibration signatures of marine platforms also. The mounts are low cost, durable, corrosion resistant, light-weight and have improved vibration isolation and are shock resistant, isolate the vibrations from 30 Hz onwards and show stability in hostile environments without losing the functional characteristics such as shock and anti-vibration properties.

No. of Pages : 33 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059753 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ORAL SOLID EDIBLE COMPOSITION COMPRISING HERBAL HEALTH SUPPLEMENTS

(51) International classification	:A61K0036810000, A61K0036470000, A61K0008970000, A23L0033105000, A23L0033155000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)SHARMA, Sumit 2)BATRA, Sonali 3)ARORA, Sandeep 4)VIJAN, Shivam 5)KAUR, Urmeet
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides multi-layer herbal health supplement composition comprising viscous oily formulation of vitamin D, aqueous extract of Withania somnifera and Phyllanthus emblica juice concentrate; and a method for manufacturing the same. The said composition possesses wide-variety of medicinal benefits.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059754 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR HAND POSE CLASSIFICATION IN A VEHICLE

(51) International classification	:G06K000900000, G06K0009320000, G06T000730000, G06T0007700000, H04N0001320000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Aratrik Chattopadhyay 2)Saurav Gupta 3)Saunak Chatterjee
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides multi-layer herbal health supplement composition comprising viscous oily formulation of vitamin D, aqueous extract of Withania somnifera and Phyllanthus emblica juice concentrate; and a method for manufacturing the same. The said composition possesses wide-variety of medicinal benefits.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059755 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN IMPACT SAFETY ARRANGEMENT FOR A VEHICLE

(51) International classification	:B60J0005040000, B60R0021000000, B60R0021013600, B60R0019000000, B60R0021040000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Pramod Mahendrakar 2)Arun Krishnamurthy 3)Ananth Kumar Valireddy 4)Pratik Kalli 5)Lokesh Yarlagadda
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An impact safety arrangement for a side door 200 of a vehicle is disclosed. The impact safety arrangement includes an impact absorbing bracket 202 configured between a side intrusion beam 210 and an inner panel 206 of the side door 200. The impacts absorbing bracket 202 comprises a locator 204 to couple with a bolt 214 of a lower hinge 208 of the side door 200. The impact absorbing bracket 202 is configured to absorb an impact during an event of side crash of the vehicle to reduce intrusion the side door 200 into a passenger compartment.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059756 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR LANE DETERMINATION OF EGO VEHICLE USING LANE ATTRIBUTES AND METHOD THEREOF

(51) International classification	:G06K0009000000, B60W0030095000, B60W0030180000, B60W0030120000, B60W0030160000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Mr. Battagiri Mallikarjuna Reddy
(33) Name of priority country	:NA	2)Mr. Deepak Panda
(86) International Application No Filing Date	:NA :NA	3)Mr. Florian Ries
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present disclosure provides a system and method for lane determination of an ego vehicle, where SMPC and LRL sensors are configured to detect border distance, i.e., distance of border from either side of the ego vehicle. SMPC border distance, obtained at block 902, and LRL border distance, obtained at block 904, are compared with each other, at block 906. Minimum distance among the SMPC border distance and LRL border distance is used to estimate/ calculate, at block 908, probability of each of the lanes to be an ego lane. Further, the minimum distance is fed, at block 910, to the Bayes filter in order to enable fusion of the second lane attributes associated with multiple sensors, thereby facilitating lane determination of the ego vehicle.

No. of Pages : 30 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059757 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SPACE FRAME BASED CENTER CONSOLE FOR A VEHICLE

(51) International classification	:B60R0007040000, B62K0019460000, E04B0001190000, B60N0003100000, B60R0005020000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Dilipkumar Deenadayalan 2)Georgios Mpakaris 3)Sanjay Girish
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an aspect, the proposed space frame based center console includes a console body that may be positioned between a left seat and a right seat in a cabin of a vehicle. The console body may be in the form of a structure framework. The structure framework may be formed by a framework member including at least one of transverse elements, horizontal elements and vertical elements. The structure framework may define a hollow recess in the console body to accommodate the one or more objects for storage. The hollow recess may include a partition wall that divides the hollow recess into front storage compartment and a rear storage compartment. The front storage compartment extends in a front part of the cabin and the rear storage compartment extends in a rear part of the cabin.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059758 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : LINKAGE MECHANISM FOR MOTOR OPERATOR

(51) International classification	:H01H0071020000, H01H0071500000, H01H0071520000, E05B0085040000, E05B0001000000	(71) Name of Applicant : 1)Schneider Electric India Private Limited Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India (72) Name of Inventor : 1)CHAUGHULE, Ameya Mangesh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a linkage mechanism in a motor operator for indicating state of a moulded case circuit breaker (MCCB). The linkage mechanism includes a latch having a first end and a second end. The first end of the latch is coupled with an actuator configured with the MCCB, and the second end is operatively configured with an indicator, pivotally attached with the motor operator, of the motor operator. A first linear movement of the actuator in a first direction, corresponding to a state change of the MCCB, facilitates a same amount of linear movement of the latch in the first direction. The second end is operatively configured with the indicator through an elastic member being configured to convert the linear movement of the latch into a pivotal movement, for a pre-define amount, of the indicator for indicating status of the MCCB.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059759 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A COMPOSITION FOR MANAGEMENT OF SARS-COV2 COMPRISING DELTA-VINIFERIN

(51) International classification	:A61K0047180000, A61K0009500000, A61K0009000000, A61K0009160000, A61K0038170000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)BADAVATH, Vishnu Nayak 2)ARORA, Sandeep 3)LESHAN, Wannigama 4)SINGH, Sukhbir 5)BEHL, Tapan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to pharmaceutical compositions. More specifically, the disclosure is directed to a pharmaceutical composition for management of SARS-CoV2 comprising Delta-viniferin (8-viniferin). The composition increases solubility and the bioavailability of the active component in the physiological environment. The present disclosure also provides a process of preparing the composition.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059812 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : PROCESSOR, COMPUTER PROGRAM PRODUCT, SYSTEM AND METHOD FOR COMPUTER IMPLEMENTED DATA TRANSFORMATION

(51) International classification	:G06F0030392000, G06F0016230000, G06F0016250000, H03M0007400000, H04N0019152000	(71) Name of Applicant : 1)Siemens Aktiengesellschaft Address of Applicant :Werner-von-Siemens-Straße 1, 80333 München, GERMANY. Germany (72) Name of Inventor : 1)Shyam Sunder, Swathi 2)Aigner, Tobias 3)Joshi, Janaki
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Processor, computer program product, system and method for computer implemented data transformation The present invention relates to data transformation from source data in RDB format to result data in RDF format, and more particularly relates to a system and method for data transformation. The invention helps to make source data from e.g., sensors and/or monitoring devices machine readable by transforming datasets in RDB format to da-tases in graph dataset format as RDF datasets are. This invention creates a new approach to R2RML mapping by using the graph structure of the mapping text subject them to SQARL queries and thereby obtain a R2RML mapping of source data in graph structure for easier transformation into RDF format.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059830 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ELECTRONIC DEVICE/ GADGET DISINFECTANT

(51) International classification	:G06Q0020320000, A45C0011000000, G06F0003041000, G06F0003048800, G06Q0030060000	(71) Name of Applicant : 1)Luxor Nano Technology Pvt. Limited Address of Applicant :229 Okhla Industrial Estate Phase-3 New Delhi India 110020 Delhi India (72) Name of Inventor : 1)Pranav Gupta
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a disinfectant composition comprises ethanol, silica, propylene glycol methyl ether, benzalkonium chloride, silane compound, quarternary ammonium silane compound, crodastat-400, perfume and water. The ethanol is in the range of 97.55%-97.75% V/V, benzalkonium chloride is in a range of 0.22%-0.25% W/V, Glycol Methyl ether is present in a range of 0.1%-0.3% W/V, quarternary ammonium silane compound compound is in a range of 0.03%-0.35% W/V, silane compound is present in a range of 0.70%-0.75% W/V and antistatic agent is present in a range of 0.1%-0.2% W/V. The disinfectant composition is highly efficient in killing microorganism. The disinfectant kills 99.9% Bacteria & Viruses and gives upto 24 hours protection with the help of the present active nano technology.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111059955 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SHUTTLE-WALK TESTING SYSTEM

(51) International classification	:H04R0029000000, G01R0031280000, G01R0031000000, H04L0012260000, G09B0023280000	(71) Name of Applicant : 1)Richa Harendra Rai Address of Applicant :E 988 3rd Floor Chittaranjan Park, Kalkaji, New Delhi 110019. Delhi India 2)Rupak Singla 3)Vanshaj Rai 4)Aakash Gupta
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Richa Harendra Rai
(33) Name of priority country	:NA	2)Rupak Singla
(86) International Application No	:NA	3)Vanshaj Rai
Filing Date	:NA	4)Aakash Gupta
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:NA		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Attached Disclosed is a shuttle-walk testing (SWT) system (100) that includes a computing device (102); a memory (112); and a processor (110). The memory (112) is communicatively coupled to the computing device (102). The memory (112) stores instructions pertaining to a shuttle-walk test of a subject. The processor (110) executes the instructions stored in the memory (112). The processor (110) is configured to capture analog signals indicative of the voice of an instructor. The processor (110) is further configured to convert the analog signals into digital signals through an analog to digital converter (ADC). The processor (110) is configured to create a modified audio signal with a reverse number counting from the digital signals. The modified audio signal includes output waveforms, a predefined width, a predefined amplitude, and a predefined frequency. The processor (110) is configured to play the modified audio signal at an interval of a predefined time at each stage through a speaker of the computing device (102). The audio signal is indicative of calibrated audio instructions. The processor (110) is configured to facilitate a subject to follow the modified audio instructions played by the speaker in the reverse number counting to complete a predefined distance on a field test in an incremental manner thus without compromising on the safety.

No. of Pages : 23 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111059962 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CONVEYING APPARATUS

(51) International classification	:B65H0003060000, H01L0021677000, B65H0007060000, H01L0041083000, B65G0027240000	(71) Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No. 2, Nelson Mandela Road, Vasant Kunj- Phase-II, New Delhi, 110070, India Delhi India (72) Name of Inventor : 1)PUNEET AGGARWAL 2)LAXMI NARAYAN PATEL
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a conveying apparatus (10) including a track (1) for conveying an article (2) from a first end (3) to a second end (4) of the apparatus. The first end (3) of the apparatus is at an elevated position relative to the second end (4) of the apparatus. A holder (5) is coupled to the second end of the apparatus and is structured to reciprocate between a first position (6) and a second position (8), relative to the track. A plurality of arresters (9) are positioned relative to the track and are adapted to restrict movement of the article over the track. The holder and the plurality of arresters are coupled to a support beam (11) spanning between the first end and the second end of the apparatus. The support beam (11) is positioned above the track (1) of the apparatus (10).

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111059964 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : MODULAR NACELLE WITH STORABLE SUPPORT ASSEMBLY FOR SUPPORTING WIND TURBINE COMPONENTS AND RELATED METHODS

(51) International classification	:F03D0013100000, F03D0013200000, F03D0013400000, F03D0080500000, E04H0012340000	(71) Name of Applicant : 1)Vestas Wind Systems A/S Address of Applicant :Hedeager 42 8200 Aarhus N Denmark Denmark
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Simon KABUS
(33) Name of priority country	:NA	2)Pedro Miguel CORREIA CAVACO
(86) International Application No	:NA	3)Arvindh MALATHI
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A main nacelle unit (22) for forming a nacelle (14) of a wind turbine (10) includes a main housing (28) having an outer wall (30a, 30b) and containing a base frame (52) configured to be attached to a tower (12) of the wind turbine (10). The main nacelle unit (22) also includes at least one support frame (56) configured to support a wind turbine component (54) external to the main housing (28). A portion of the support frame (56) is attached to the base frame (52) and movable between a stored position and a deployed position. In the stored position, the portion of the support frame (56) is configured to be positioned within the confines of the main housing (28), and in the deployed position, the portion of the support frame (56) is configured to extend through the main housing outer wall (30a, 30b) to support the wind turbine component (54) external to the main housing (28). A method of assembling a wind turbine using the support assembly is also disclosed.

No. of Pages : 36 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060022 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A FABRIC DETECTOR FOR A WASHING MACHINE

(51) International classification	:D06F0034180000, G01N0021050000, G01N0009180000, D06B0003100000, G01N0021590000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)KAUR Baljit
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

fabric detector (100) for detecting a type of fabric is disclosed. The fabric detector (100) includes a light source (102) mounted inside a first enclosed block (108) of the fabric detector (100) to emit light of a pre-defined intensity. The first enclosed block (108) to receive clothes to be washed for passing of light emitted by the light source (102) through the clothes. Further, the fabric detector (100) includes a light detector (104), mounted inside a second enclosed block (114) of the fabric detector (100) arranged parallel to the first enclosed block (108), to receive light passing through the clothes. The fabric detector (100) also includes an analyzer module (106) to detect a type of fabric of each of the clothes based on the received light through the clothes by the light detector (104).

No. of Pages : 35 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060023 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A REFRIGERATOR WITH A COOLING DISPENSER

(51) International classification	:F25D0017060000, F25D0023120000, F25D0017040000, F25C0005200000, F25D0017080000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)GOYAL Rajat
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A refrigerator (100) with a cooling dispenser (102) is disclosed. The refrigerator includes a dispensing compartment (202) to hold articles for cooling, a damper assembly (204) to regulate air flow into the dispensing compartment (202), a fan assembly (206) coupled at a back portion of the dispensing compartment (202), the fan assembly (206) blows cold air inside the dispensing compartment (202) and a control unit provided to control operations of the damper assembly (204) in the refrigerator (100). Further, the damper assembly (204) is opened by the control unit and the cold air is blown into the dispensing compartment (202) by the fan assembly (206) for a predetermined time to cool articles placed inside the dispensing compartment (202).

No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060259 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ASSEMBLY FOR DISPENSING LIQUID SOLUTIONINTO A WASHING MACHINE

(51) International classification	:D06F0039020000, G01F0011260000, A47L0013300000, E03D0009030000, B01L0003020000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)SINGH Abhishek
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An assembly (100) for assembly (100) for dispensing liquid solution into a washing machine is provided. The assembly (100) includes a drawer compartment (102) comprising a reservoir (104), a dispenser (106) and a top plate (202) operationally coupled with the drawer compartment (102) via a plunger 10 (110). The drawer compartment (102) transition between an open position and a closed position, in the open position, the plunger (110) is pushed down facilitating a predetermined quantity of liquid detergent flow from the reservoir (104) into the dispenser (106), in the closed position, the water flows into the siphon cap (108) of the dispenser (106) via the top plate (202) and the air flows out of the dispenser (106) via the air vent (114) initiating a dual siphon effect to dispense the liquid solution from the dispenser (106) into the 20 washing compartment.

No. of Pages : 16 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060260 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ARRANGEMENT FOR DISPENSING DEFROST WATER AND REGULATING PRESSURE IN A REFRIGERATOR

(51) International classification	:F25D0021140000, F24F0013220000, F25D0017040000, F25C0005200000, F25D0021080000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)GUPTA Gaurav
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An arrangement (100) for dispensing defrost water in a refrigerator is provided. The arrangement (100) includes a drain pan (114) provided at a bottom portion of the refrigerator for collecting the defrost water, a drain pipe (102) provided with a valve assembly (104) to dispense the defrost water into the drain pan (114). The valve assembly (104) includes a dead weight valve (202), a valve slider (204) and a drain pipe cap (206) to create a sealing. The drain pipe (102) is placed in contact with the defrost water collected in the drain pan (114) enabling a water seal in the drain pipe (102). Further, the valve assembly (104) facilitates in equalizing the pressure difference between the refrigerator and ambient environment.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060274 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR OPTOCOUPLER BASED SWITCHING

(51) International classification	:H04B0010800000, H01L0031173000, H05B0047190000, F21V0023040000, H03K0017780000	(71) Name of Applicant : 1)SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED Address of Applicant :C-56 Mayapuri Industrial Area, Phase II New Delhi DELHI India 110064 Delhi India (72) Name of Inventor : 1)BOBBADI, Satyanarayana 2)PATIL, Mangesh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention discloses a system for Optocoupler based switching in an energy meter. In particular, the system (10) comprising: an Optocoupler switch (11) and a controller (12) where the Optocoupler (11) is operatively coupled to controller (12). The Optocoupler switch (11) comprising: a light source (111) to emit light signals; a photo transistor (112) to detect the light signals emitted from the light source; and a moving means (113) adapted to switch the Optocoupler (11) from one state to another state. The system provides faster response and higher frequency rates of operation, it avoids malfunctioning of the system, and prevents miscommunication/malfunctioning of the system.

No. of Pages : 17 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060349 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR DETERMINING ORIENTATIONAL ATTRIBUTES OF A CHILD SEAT IN A VEHICLE

(51) International classification	:B60N0002280000, G06K0009000000, G06T0007000000, G06T0007110000, A61B0006120000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Joydeep Medhi 2)Aratrik Chattopadhyay 3)Vasudev Singh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

System and method for determining orientational attributes of a child seat located inside a vehicle is disclosed. The system may include an image capturing device to capture an image of the child seat at pre-defined time intervals. The system may include a computing device to segment a region of interest covering the child seat in the image to obtain a segmented region. The system may estimate a direction vector pertaining to each pixel in the segmented region to obtain multiple direction vectors. The system may generate pairwise features corresponding to two-dimensional (2D) key-points of the child seat in the segmented region. The pairwise features may be processed to evaluate 3D points corresponding to the child seat to obtain plurality of dimensional group features. Based on the plurality of dimensional group features, the system may estimate a pose of the child seat to determine the orientational attributes of the child seat.

No. of Pages : 27 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111058859 A

(19) INDIA

(22) Date of filing of Application :17/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM AND METHOD FOR TIME SLICED BASED TRAFFIC DETECTION

(51) International classification	:H04L0012851000, G08G0001010000, G08G0001080000, H04N0021443000, G08G0001065000	(71) Name of Applicant : 1)Sandvine Corporation Address of Applicant :408 Albert Street, Waterloo, Ontario, N2L 3V3, Canada. Canada (72) Name of Inventor : 1)PALANISAMY, Anuram
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for classifying a traffic flow including: determining a plurality of time slices to be used to classify the traffic flow; collecting traffic flow data for a first time slice of the plurality of time slices; if the flow is classifiable based on the first time slice, classifying the traffic flow; otherwise collecting the traffic flow data for each further time slice of the plurality of time slices to classify the traffic flow. A system for classifying a traffic flow having: a time interval module configured to determine a plurality of time slices to be used to classify the traffic flow; a data collection module configured to collect traffic flow data for each of the plurality of time slices; a classification module configured to determine whether the flow is classifiable based after each time slice, and classify the traffic flow.

No. of Pages : 27 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111058917 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : TRANSPARENT TRANSLATION GATEWAY FOR THE PASS-THROUGH TRANSFER OF IP DATA OVER MANET

(51) International classification	:H04W0084180000, H04W0088160000, H04L0012660000, H04L0012761000, H04W0076120000	(71) Name of Applicant : 1)Chairman, Defence Research & Development Organisation (DRDO) Address of Applicant :Ministry of Defence, Govt of India, Room No. 348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi – 110011, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Saini, Trilok Kumar
(33) Name of priority country	:NA	2)Sharma, Subhash Chander
(86) International Application No Filing Date	:NA :NA	3)Kumar, Satyendra
(87) International Publication No	: NA	4)Dhaka, Manoj Kumar
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

The present invention relates to a system that enables transparent translation and transmission of IP data traffic over the hybrid network comprising both fixed IP network and proprietary mobile ad hoc network (MANET). The system comprises a plurality of network devices (TTG1-n). Each of the network devices (TTG1-n) are configured to communicate with a designated fixed Internet Protocol (IP) network and a common proprietary network including a plurality of network nodes (MI-n). The network devices (TTG1-n) are configured to receive a data stream, from a source device (S) configured in a first fixed IP network, destined for a destination device (D) configured in a second fixed IP network. The network devices (TTG1-n) determine an optimum network path and provides connection between a network device (TTG1) receiving the data stream and the network device (TTGn) present in connection with the second fixed IP network for forwarding of the data stream. (Fig. 1)

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111058961 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METAL NITRIDE BASED NANOCATALYST WITH PROTECTIVE CONDUCTIVE CN-COATING MODIFIED BI-FUNCTIONAL ELECTRODES

(51) International classification	:C25B0011040000, G01N0027300000, C25B0001040000, C02F0001461000, B01J0035000000	(71) Name of Applicant : 1)NTPC LIMITED Address of Applicant :NTPC Bhawan, SCOPE Complex, 7, Institutional Area, Lodi Road, New Delhi - 110003, Delhi, India. Delhi India 2)RAJIV GANDHI INSTITUTE OF PETROLEUM TECHNOLOGY
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)SINHA, Akhoury Sudhir Kumar
(33) Name of priority country	:NA	2)OJHA, Umaprasana
(86) International Application No	:NA	3)TEWARY, Arpan
Filing Date	:NA	4)Shaswattam
(87) International Publication No	: NA	5)KARMAKAR, Sujay
(61) Patent of Addition to Application Number	:NA	6)SUTRAKAR, Ajay Kumar
Filing Date	:NA	7)SAINI, Yashwant Kumar
(62) Divisional to Application Number	:NA	8)MUNJAL, Guncha
Filing Date	:NA	

(57) Abstract :

The present invention relates to the field of catalyst modified electrode for electrolysis, wherein the catalyst modified electrode is metal nitride based nanocatalyst with protective conductive CN-coating modified bi-functional electrodes. Present invention discloses a catalyst system that is selective towards OER compared to that of the CER and possibly the protective layer prevented the transport of Cl- ion towards the electrode surface and overall, the product became viable for sustainable sea water electrolysis.

No. of Pages : 21 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111058971 A

(19) INDIA

(22) Date of filing of Application :17/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : TWO-PHASE MAKEUP REMOVER WITH SURFACTANTS

(51) International classification	:A61Q0001140000, A61K0008030000, G01F0001740000, A45D0040240000, A45D0040000000	(71) Name of Applicant : 1)Beiersdorf AG Address of Applicant :Unnastraße 48, 20253 Hamburg, Germany. Germany (72) Name of Inventor : 1)Gupta Saurabh 2)Laad Preksha
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention belongs to the cosmetic field.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111058972 A

(19) INDIA

(22) Date of filing of Application :17/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : TWO-PHASE MAKEUP REMOVER

(51) International classification	:A61Q0001140000, A61K0008030000, G01F0001740000, A45D0040000000, A45D0040240000	(71) Name of Applicant : 1)Beiersdorf AG Address of Applicant :Unnastraße 48, 20253 Hamburg, Germany. Germany (72) Name of Inventor : 1)Gupta Saurabh 2)Laad Preksha
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention belongs to the cosmetic field.

No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059016 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SKEW MATCHING IN A DIE-TO-DIE INTERFACE

(51) International classification	:H01L0025065000, H01L0023000000, H01L0025000000, G11C0005060000, H01L0023538000	(71) Name of Applicant : 1)Advanced Micro Devices, Inc. Address of Applicant :2485 Augustine Drive, Santa Clara, CA 95054 (US). U.S.A. (72) Name of Inventor : 1)JAYARAMAN, Pradeep 2)GONZALES, Dean 3)TALBOT, Gerald R. 4)MANGASER, Ramon A. 5)TRESIDDER, Michael J. 6)VALLUR, Prasant Kumar 7)GRUDDANTI, Srikanth Reddy 8)MUDIMELA VENKATA, Krishna Reddy 9)MCINTYRE, David H.
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A semiconductor package for skew matching in a die-to-die interface, including: a first die; a second die aligned with the first die such that each connection point of a first plurality of connection points of the first die is substantially equidistant to a corresponding connection point of a second plurality of connection points of the second die; and a plurality of connection paths of a substantially same length, wherein each connection path of the plurality of connection paths couples a respective connection point of the first plurality of connection points to the corresponding connection point of the second plurality of connection points.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060035 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FLOOD PROTECTION DEVICE FOR SWITCHGEAR

(51) International classification	:E02B0003100000, H01H0009220000, E06B0009000000, G01M0003160000, H01H0071560000	(71) Name of Applicant : 1)Schneider Electric India Private Limited Address of Applicant :C-56, Mayapuri Industrial Area, Phase II, Delhi - 110064, India. Delhi India (72) Name of Inventor : 1)SHEIKH, Shariq, Mohammad 2)RAJHANS, Rupesh Subhashrao 3)ALAM, Mohd Shaney
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates to a flood protection device for a switchgear. The protection device includes a housing, having an electrical circuit, with plurality of holes at base of the housing for entering the flood water. The electrical circuit is electrically open until the flood water enters the housing. An actuating device operatively configured with a circuit breaker of the switchgear, and configured to trip the switchgear; and a control circuitry operatively configured with the electrical circuit and the actuating device, the control circuit is configured to detect electrical close of the electrical circuit and correspondingly send a first set of signals to the actuating device. The first set of signals facilitates tripping of the switchgear through the circuit breaker.

No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060036 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FOLDABLE DISPLAY INTEGRATED WITH SENSOR COVER

(51) International classification	:B60R0001000000, G06F0001160000, H04N0007180000, G09F0009300000, B60R0001040000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Dhiraj Shetty 2)Axel Schmidt
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An inside display device assembly 100 for a vehicle, including a foldable display device 106 detachably coupled to a sensor cover 102 that is mounted on a windscreens 104 or BIW. The foldable display device 106 includes an upper display portion 108 and a lower display portion 110 hinged to the upper display portion 108 to rotate between a folded position in which the lower display portion 110 moves towards the sensor cover 102 and an extended position in which the lower display portion 110 moves away from the sensor cover 102 to provide a big display. The foldable display device 106 acts as an inside rear-view mirror with assistance of one or more surround view cameras of the vehicle. The foldable display device 106 is configured to display field of views captured by the surround view cameras, thereby allowing the driver to see the rearwards/all sides of the vehicle.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060037 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEM FOR HOLDING AND PROTECTING BATTERY MODULES

(51) International classification	:H01M0002100000, B60K0001040000, B62D0025200000, H04M0001020000, B62D0021150000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Mazhar Mala 2)Alexander Betz 3)Vinayakumar Vastrad 4)Shanawaz Mujawar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (200) for holding and protecting battery modules (204) of a vehicle is disclosed, comprising a battery tub (202) including receiving spaces to accommodate battery modules (204). The system (200) includes slots (206) configured on the side(s) of the battery modules (204), and protrusions (208) configured an interior of the battery tub (202) and facing the slots (206). The battery modules (204) are accommodated in the receiving spaces such that

No. of Pages : 19 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060038 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A COOLANT PUMP WITH ENHANCED IMPELLER DESIGN

(51) International classification	:F04D0013060000, F04D0015000000, F04D0029220000, F04D0029280000, F04D0029300000	(71) Name of Applicant : 1)Daimler AG Address of Applicant :70546, Stuttgart, Germany Germany (72) Name of Inventor : 1)Onkar Mokashi 2)Amol Barve 3)Sudeshna Roy Pratihar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides a coolant pump 200 that includes a pump body 102 having an inlet and an outlet. A coolant flows in through the inlet and flows out through the outlet. The coolant pump 200 may include an impeller 100 coupled to the pump body 102 in a rotational configuration. The impeller 100 further includes a plurality of blades 116, each of the blades having a leading edge 112A and a trailing edge 112B, where one or more predefined geometric shapes are cut out on the leading edge, said one or more predefined geometric shapes are swept in-line as one or more crests 122 and one or more troughs 124 in a direction of the exit of the coolant towards the outlet.

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060040 A

(19) INDIA

(22) Date of filing of Application :22/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : ANTI-CANCER PYRIDO[2,3-A]CARBAZOLE COMPOUNDS, THEIR COMPOSITIONS AND PROCESS OF SYNTHESIS THEREOF

(51) International classification	:C07D0417120000, A61K0009000000, A61K0031472000, A61K0031616000, C07D0213820000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)MUNUSAMY, Saravanabhan 2)BADAVATH, Vishnu Nayak 3)SHANMUGAM, Ramesh 4)MARIMUTHU, Sekar 5)LESHAN, Wannigama
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure relates generally to pharmaceutical compounds. More specifically, the disclosure is directed to anti-cancer pyrido[2,3-a]carbazole compounds of Formula I, their stereoisomers, tautomers, solvates, pharmaceutically acceptable salts, or mixtures thereof and a pharmaceutical composition comprising them. The compounds also possess anti-microbial activity. The disclosure also provides a process of synthesizing the compounds which is a one-pot synthesis.

No. of Pages : 48 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059032 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROOF ASSEMBLY INTERLOCKING SYSTEM FOR INCREASED STRUCTURAL INTEGRITY UNDER HIGH-SPEED IMPACTS

(51) International classification	:B60J0007020000, B60R0021231000, B25J0015040000, E04D0003360000, G11C0007100000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Dhanaji Patil 2)Rajesh Reddy 3)Anand Malipatil 4)Balaji Pillai
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A double interlocking system (200) for interlocking roof assembly with a vehicle, comprising: a first holder (212), and a second holder (214). A first section (212-1) of the first holder (212) is coupled to a carrier (206) of the roof assembly and a second section (212-2) of the first holder (212-1) is movably engaged with guide rails (202) of the roof assembly. Further, the first section (214-1) of the second holder (214) is coupled to the guide rails (202) and the second section (214-2) of the second holder (214) is movably engaged with the carrier (206). Further, the carrier (206) is configured to accommodate and hold a roof (208) thereof. This engagement and coupling result in the locking of the carrier (206) with the guide rails (202), thereby restricting separation of the carrier (206) and the roof (208) from the guide rails (202) or the vehicle in an event of the side impact of the vehicle.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059033 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AIR CONDITIONING SYSTEM HAVING HUMIDIFYING UNIT

(51) International classification	:F24F0003140000, F24F0011300000, B60H0001000000, F24F0006000000, F24F0011890000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)KUMAR, Deepak 2)KAUSHIK, Naveen 3)KUKREJA, Vinay
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides an air conditioning system 100 installed within an area. The air conditioning system 100 include an air conditioner 102 configured to cool temperature of the area, a humidifying unit 104 positioned inside the air conditioner 102 and configured to humidify the air circulated by the air conditioner 102. The humidifying unit 104 is actuated when humidity is detected in the area, else it is turned off. In addition a container 108 is positioned inside the air conditioner 102 to receive and accommodate water inside, the humidifier utilize the water accommodated in the container 108 and facilitates in humidifying the circulated air by reducing dryness from the air, that causes irritation in various parts of body.

No. of Pages : 19 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059034 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ECO-FRIENDLY ANTIMICROBIAL CLEANING COMPOSITION

(51) International classification	:A61K0008670000, A61K0036906600, A61K0036530000, A61K0008920000, A01N0065240000	(71) Name of Applicant : 1)Chitkara Innovation Incubator Foundation Address of Applicant :SCO: 160-161, Sector - 9c, Madhya Marg, Chandigarh- 160009, India. Chandigarh India (72) Name of Inventor : 1)SNEHI, Jyoti 2)SNEHI, Manish 3)BHANDARI, Abhinav 4)BAGGAN, Vidhu 5)SIMAIYA, Sarita 6)LILHORE, Umesh Kumar 7)KANSAL, Isha 8)POPLI, Renu 9)BHARDWAJ, Vivek 10)SETHI, Monika
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure provides an eco-friendly antimicrobial cleaning composition comprising soap-base, turmeric powder, alum powder, camphor powder, Tea-tree oil, vitamin E oil, Oregano oil, Rosemary oil and cinnamon oil. The said composition does not contain any harmful chemicals and does not require animal testing as the ingredients used are generally regarded as safe (GRAS).

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059052 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ENTERPRISE DATA MANAGEMENT DASHBOARD

(51) International classification	:G06Q0010060000, B60R0021205000, B62D0025140000, H04W0012080000, B60H0001340000	(71) Name of Applicant : 1)HONEYWELL INTERNATIONAL INC. Address of Applicant :855 S. Mint Street, Charlotte, NC - 28202, UNITED STATES OF AMERICA. U.S.A. (72) Name of Inventor : 1)Kumar, Manimala 2)Patel, Zameer Gulam 3)Burd, Matthew Gregory Taylor 4)Pandurangan, Gobinath
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Various embodiments described herein relate to an enterprise data management dashboard. In this regard, a request to generate a dashboard visualization related to one or more assets is received. The request includes an asset descriptor describing the one or more assets. In response to the request, aspects of aggregated operational technology data within a knowledge graph data structure are correlated to provide one or more insights associated with the one or more assets. Additionally, the dashboard visualization is provided to an electronic interface of a computing device. The dashboard visualization includes visualization data for the one or more insights associated with the knowledge graph data structure.

No. of Pages : 93 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059053 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ARTIFICIAL INTELLIGENCE SYSTEM FOR INTEGRITY OPERATING WINDOW OPTIMIZATION

(51) International classification	:G06N0005020000, G06Q0020400000, G06N0005040000, C08L0053020000, G06N0020000000	(71) Name of Applicant : 1)HONEYWELL INTERNATIONAL INC. Address of Applicant :855 S. Mint Street, Charlotte, NC – 28202, UNITED STATES OF AMERICA. U.S.A. (72) Name of Inventor : 1)Kumar, Manimala 2)Patel, Zameer Gulam 3)Burd, Matthew Gregory Taylor 4)Pandurangan, Gobinath
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Various embodiments described herein relate to an artificial intelligence system for integrity operating window optimization related to one or more assets. In this regard, a request to obtain one or more insights related to one or more assets is received. The request includes an asset descriptor describing the one or more assets. In response to the request, aspects of aggregated operational technology data within a knowledge graph data structure are correlated to provide the one or more insights. Additionally, one or more operational limits for the one or more assets are adjusted based on the one or more insights associated with the knowledge graph data structure.

No. of Pages : 93 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059569 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : WINDSHIELD OF VEHICLE

(51) International classification	:B62J0017040000, B60T0011040000, B60J0001020000, G09G0005000000, B62B0007080000	(71) Name of Applicant : 1)HERO MOTOCORP LIMITED Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi, India, Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)NAYAK, Biswajit
(33) Name of priority country	:NA	2)SINGH, Ashutosh Pratap
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A vehicle (100) comprising a body frame (103), a front fairing (125) and a windshield (200). The windshield (200) comprising a windshield member (300), a support bracket (202), a locking member (256), an actuation member (320) and a cable (400). The windshield member (300) is movable with respect to the front fairing (125) of the vehicle (100). The support bracket (202) connected to the body frame (103). The locking member (256) being movable between a first position (256a) and a second position (256b). The actuation member (320) comprising a first mounting provision (321) and a second mounting provision (322). The second mounting provision (322) and the first mounting provision (321) are capable of relatively move with respect to each other. The cable (400) comprising an inner wire (450) and an outer cover (480). With the present invention, easy retrieval and adjustment of the windshield member (300), is ensured, without affecting aesthetics appeal of the vehicle (100).

No. of Pages : 30 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059613 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OPTICAL FIBER CABLE WITH COIL ELEMENTS

(51) International classification	:G02B0006440000, G01R0033341500, G01R0033360000, F16G0003020000, A44B0018000000	(71) Name of Applicant : 1)Sterlite Technologies Limited Address of Applicant :3rd Floor, Plot No. 3, IFFCO Tower, Sector – 29, Gurugram, Haryana- 122002 Haryana India (72) Name of Inventor : 1)Vikash Shukla
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An optical fiber cable with one or more coil elements is provided. The optical fiber cable (200, 300, 400) comprises one or more optical transmission elements (202, 302, 402) extending in a longitudinal direction surrounded by one or more coil elements (100). The one or more coil elements are a series of loops such that each loop (106) from the series of loops is physically connected to adjacent loops. The one or more coil elements are flexible in transverse direction and are substantially non-elongatable in the longitudinal direction. The one or more coil elements are fiber retaining element (102) such that subsequent loops (106) are made of a single continuous element and further comprises a pitch retaining element (104) connecting the subsequent loops of the fiber retaining element to preserve relative position of the subsequent loops.

No. of Pages : 18 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059615 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ELECTRONIC SENSOR-BASED SYSTEM FOR LAYERED ADJUSTABLE PLATFORM

(51) International classification	:H04B0007080000, B33Y0030000000, G01N0027414000, B23K0103160000, G05B0019418000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313 Uttar Pradesh India (72) Name of Inventor : 1)Vandana Chauhan 2)Krishna Mohan 3)Sunishtha S Yadav
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

AN ELECTRONIC SENSOR-BASED SYSTEM FOR LAYERED ADJUSTABLE PLATFORM The present invention relates to an electronic sensor-based system for layered adjustable platform, which has all the advantages of the prior art and none of the disadvantages. The present invention is comprising, but not limited to, an electronic sensor, which identifies the distance of an object and a layered adjustable platform which extends as signal received from sensor and act as a bridge.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/12/2021

(21) Application No.202111059616 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR FABRICATION OF ALUMINIUM MMCS WITH DIFFERENT COMPOSITIONS OF GRAPHENE – OXIDE AND GRAPHITE

(51) International classification	:B22F0001000000, B33Y0070000000, F16D0069020000, C01B0032230000, B05B0007140000	(71) Name of Applicant : 1)Amity University, Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA Delhi India (72) Name of Inventor : 1)Sukhvir Yadav 2)Sanjeev Sharma 3)P.B. Sharma 4)Bhupender Singh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method for Fabrication of Aluminium MMCs with different compositions of Graphene - Oxide and Graphite using Powder Blending and strength assessment after FSP. The present invention provides powders of different compositions of Graphene Oxide & Graphite are proposed to be blended to form a final part. Blending is carried out for several purposes as follows, but not limited to: 1. Blending imparts uniformity in the shapes of the powder particles; 2. Blending facilitates mixing of different powder particles to impart wide ranging physical and mechanical properties; 3. Lubricants can be added during the blending process to improve the flow characteristics of the powder particles reducing friction between particles and dies; and 4. Binders can be added to the mixture of the powder particles to enhance the green strength during the powder compaction process.

No. of Pages : 23 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059054 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : INDUSTRIAL KNOWLEDGE GRAPH AND CONTEXTUALIZATION

(51) International classification	:G06F0016360000, G06F0016901000, G06N0005020000, G16H0050700000, G06N0010000000	(71) Name of Applicant : 1)HONEYWELL INTERNATIONAL INC. Address of Applicant :855 S. Mint Street, Charlotte, NC - 28202, UNITED STATES OF AMERICA. U.S.A. (72) Name of Inventor : 1)Kumar, Manimala 2)Patel, Zameer Gulam 3)Burd, Matthew Gregory Taylor 4)Pandurangan, Gobinath
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA Filing Date	:NA
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Various embodiments described herein relate to providing and/or employing a knowledge graph related to one or more assets. In this regard, a request to generate knowledge graph data related to one or more assets is received. The request includes an asset descriptor describing the one or more assets. In response to the request, aggregated operational technology data is obtained based on the asset descriptor and from one or more data sources associated with the one or more assets. Furthermore, the aggregated operational technology data is contextualized, based on configuration data for the one or assets and a set of contextualization rules for the one or more data sources, to generate the knowledge graph data. The knowledge graph data is also allocated within a knowledge graph data structure configured for the one or more assets.

No. of Pages : 93 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059073 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYSTEMS AND METHODS FOR DETECTING FAILURES OF COMPUTER APPLICATIONS

(51) International classification	:G06F0011360000, A61B0005000000, G06Q0030020000, A61B0005026000, G06Q0010060000	(71) Name of Applicant : 1)Fidelity Information Services, LLC Address of Applicant :601 Riverside Avenue Jacksonville, Florida 32204 United States of America U.S.A. (72) Name of Inventor : 1)Venkatasubramanian NAMACHIVAYAM 2)Shanmuga Priya MARIAPPAN 3)Thirupathipandian GOVINDARAJ 4)Krishna Kumar JAYENDRAN 5)Santhosh BS 6)Naveen Chander EASWARAMOORTHY
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Methods and systems for testing of at least one computer application include receiving from a user a monitoring request; selecting a script; performing at least one automation test with at least one automation application; requesting analytic data from at least one computer application; receiving analytic data associated with the at least one computer application; determining response data of the at least one computer application by inputting the analytic data to a comparison model determined based on an analysis technique configured to detect a failure by the at least one computer application; and generating a report based on an output of the analysis technique if the failure by the at least one computer application is detected.

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059074 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ENVIRONMENTALLY SAFE ANTIMICROBIAL COATING COMPOSITION AND METHOD OF PREPARATION THEREOF

(51) International classification	:C09D0005140000, A01N0059160000, C12Q0001040000, A61K0036235000, A61L0002232000	(71) Name of Applicant : 1) CHAIRMAN, DEFENCE RESEARCH & DEVELOPMENT ORGANISATION Address of Applicant :Ministry of Defence, Govt. of India, Room No.348, B-Wing, DRDO Bhawan, Rajaji Marg, New Delhi 110011, India. Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1) Dhole, Ganesh Sudhakarao
(33) Name of priority country	:NA	2) MAHATO, Tapan Kumar
(86) International Application No Filing Date	:NA :NA	3) TITUS, Susan
(87) International Publication No	: NA	4) MOHANRAM, Rajamani
(61) Patent of Addition to Application Number: Filing Date	:NA :NA	5) MENDKI, Murlidhar Jaywantrao
(62) Divisional to Application Number Filing Date	:NA :NA	6) MALVANKAR, Nandkishor Ganpat

(57) Abstract :

The present invention relates to an environmentally safe antimicrobial coating and method of preparation thereof. The present invention more particularly relates to a coating in which erythromycin stearate is used as antibacterial and fennel oil as the antifungal additives. The silicone modified soya alkyd resin based antimicrobial coating of the present invention is effective against both gram positive and gram negative bacteria as well as various fungi present in marine environment. The antimicrobial coating of the present invention is safe for human being, and other non-targeted animals and organisms. The coating of the present invention is useful for protecting wide variety of substrates against bacterial and fungal attack and has application as antimicrobial coating for internal compartments of ship, submarine, house, food industry, slaughter house, hospital, airplanes, railway and places where the protection against microbial growth (both bacteria and fungi or any one) is required

No. of Pages : 42 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111059104 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : Hybrid Torrefaction-Energy Multi-generation system and Method of Operation thereof

(51) International classification	:C10L0009080000, C10L0005440000, C10B0053020000, G05B0013040000, C10L0005360000	(71) Name of Applicant : 1)THE LNM INSTITUTE OF INFORMATION TECHNOLOGY Address of Applicant :Rupa ki Nangal, Post-Sumel, Via-Jamdoli Jaipur-302031, (Rajasthan) INDIA. Rajasthan India (72) Name of Inventor : 1)Dr. Kamal Kishore Khatri
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present disclosure discloses a system (100) torrefaction of biomass and energy generation from an IC engine. The system includes an IC engine (120), a torrefaction reactor (114), and a preheater (112). The preheater is connected with the torrefaction reactor, wherein flue gases coming from the torrefaction reactor are fed to the pre-heater to maintain a temperature of the biomass in the range 150-200°C. The torrefaction reactor is connected with the IC engine and the flue gases coming from the IC engine are fed to the torrefaction reactor to maintain the temperature of the torrefaction reactor between 200-300°C. The torrefaction reactor is a cyclone type reactor having a cylindrical part and a funnel part, wherein the cylindrical part is above the funnel part.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060041 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CLEANING DEVICE INTEGRATED TO SEAT OF A VEHICLE

(51) International classification	:G06F0001160000, H04W0004024000, A61F0013000000, G05G0001300000, A61F0005052000	(71) Name of Applicant : 1)Mercedes-Benz Group AG Address of Applicant :70546, Stuttgart, Germany. Germany (72) Name of Inventor : 1)Priyanka Ghate 2)Amit Kumar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cleaning device 100 for a vehicle is disclosed, including a set of telescopically arranged motion-controlled arms 104. Each of the motion-controlled arms 104 has a tubular construction and has a defined length and diameter such that the set of motion-controlled arms can cascade into each other when moved between an extended position and a collapsed position. A blower fan 210 can be configured to create a vacuum around the floor surface of the vehicle being brushed by a brush. A canister 208 having an attached dust collector can be configured between the set of motion-controlled arms 104 and the blower fan 210. When the canister 208 is configured to a slot in a canister sliding holder, an air tight connection is created between the blower fan 210, the canister 208 and the set of motion-controlled arms 104 for collecting dust from the floor surface of the vehicle.

No. of Pages : 16 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060058 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHODS AND SYSTEMS FOR IDENTIFICATION OF AN UNINTENDED TOUCH AT A USER INTERFACE OF A DEVICE

(51) International classification	:G06F0003041000, G06F0003048800, G06F0003048400, H04N0021854700, H04M0001673000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MISHRA, Abhishek
(33) Name of priority country	:NA	2)KASARANENI, Sai Hemanth
(86) International Application No	:NA	3)KUMAR, Saurabh
Filing Date	:NA	4)SANKLECHA, Deepak Kumar
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method (600) and system (402) for identification of an unintended touch and an intended user-interface (UI) element at a UI (102) is disclosed. The method comprises receiving (608) a touch input at the UI at a specific timestamp. Further, a composite multi-sensor score (CMSR) for each of a plurality of timestamps preceding the specific timestamp may be extracted (610) from database (418). A probability of an intended touch input based on the plurality of CMSRs may be determined (612). Furthermore, the probability of the intended touch may be compared (614) with a user touch dynamics threshold to identify the unintended touch. Subsequently, an actual touch intended timestamp, of the plurality of preceding timestamps, may be determined (618) based on the plurality of CMSRs, responsive to the comparison. An actual intended UI element from a UI layout at the actual touch intended timestamp may be identified (626) for execution.

No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060063 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM PREDICTING HEAD MOVEMENT BASED ON PROCESSING
OTOACOUSTIC EMISSIONS

(51) International classification	:A61B0005000000, G06N0003080000, G06N0003040000, G06F0003010000, G16H0050200000	(71) Name of Applicant : 1)Samsung Electronics Co., Ltd. Address of Applicant :416 Maetan-Dong, Yeongtong-GU, Suwon-SI, Gyeonggi-do 442-742, Republic of Korea Republic of Korea
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)MITTAL, Reetika
(33) Name of priority country	:NA	2)GARG, Ekansh
(86) International Application No	:NA	3)GOEL, Ronak
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:NA		
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for predicting head movement based on processing otoacoustic emissions comprising the steps of extracting a head movement signal from a received otoacoustic signal through a first artificial intelligence (AI) technique based on the steps of filtering external noise from the received otoacoustic (OA) signal, and obtaining the head movement signal from the filtered OA signal based on a prediction from a first artificial neural network (ANN). Further, the method comprises predicting one or more directional parameters defining a head movement from the head movement signal through a second artificial intelligence technique based on the steps of: extracting one or more signal features from the extracted head movement signal, and predicting the one or more directional parameters of the head movement from the extracted features based on a second ANN.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060105 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A FIELD-EFFECT TRANSISTOR DEVICE AND A FABRICATION METHOD THEREOF

(51) International classification	:H01L0029660000, H01L0029786000, H01L0029165000, H01L0029780000, H01L0021268000	(71) Name of Applicant : 1)INDIAN INSTITUTE OF TECHNOLOGY DELHI Address of Applicant :INDIAN INSTITUTE OF TECHNOLOGY DELHI, Hauz Khas, New Delhi – 110016, India Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)DAS, Samaresh
(33) Name of priority country	:NA	2)MISHRA, Prashant
(86) International Application No	:NA	3)SINGH, Sanjay
Filing Date	:NA	4)MOUDGIL, Akshay
(87) International Publication No	: NA	5)SHARMA, Sumit
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for predicting head movement based on processing otoacoustic emissions comprising the steps of extracting a head movement signal from a received otoacoustic signal through a first artificial intelligence (AI) technique based on the steps of filtering external noise from the received otoacoustic (OA) signal, and obtaining the head movement signal from the filtered OA signal based on a prediction from a first artificial neural network (ANN). Further, the method comprises predicting one or more directional parameters defining a head movement from the head movement signal through a second artificial intelligence technique based on the steps of: extracting one or more signal features from the extracted head movement signal, and predicting the one or more directional parameters of the head movement from the extracted features based on a second ANN.

No. of Pages : 20 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059124 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A RESILIENT MACHINE LEARNING BASED FRAMEWORK AND SYSTEM TO MITIGATE SIDE-CHANNEL ATTACKS IN A CYBER-PHYSICAL SYSTEM (CPS)

(51) International classification	:G06N0020000000, H04L0009000000, H04L0029060000, G06K0009620000, G06F0021560000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313. Uttar Pradesh India (72) Name of Inventor : 1)Rajiv Pandey 2)Geetam Tomar 3)Agnivesh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a resilient machine learning based framework and system to mitigate side-channel attacks in a cyber-physical system (CPS). The present invention provides an analytical framework that can be deployed to capture these parameters and refine them to be the features to our machine learning (ML) algorithms. This ML system can be trained on these features to render predictions, thus when an attack is made, it is observed the side-channel leakage and feed it to the ML framework to compare for any abnormal spike or behavior and subsequently classify if it is an attack or not. This initial classification/prediction can be fed to the power system, and it will trip the vulnerable channel and redirect the operation to the alternative path, thus making the system resilient.

No. of Pages : 14 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059125 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD OF PREPARING A POROUS ACTIVATED CARBON FROM GUAR GUM–ALGINATE COMPOSITE GEL

(51) International classification	:C02F0001280000, H01G0011860000, C08B0037000000, C02F0101200000, B01J0020200000	(71) Name of Applicant : 1)AMITY UNIVERSITY Address of Applicant :AMITY UNIVERSITY UTTAR PRADESH SECTOR-125, NOIDA-201313, INDIA. Uttar Pradesh India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Dr. Arpita Bhattacharya
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a method of preparing a porous activated carbon from guar-gum-alginate composite gel for supercapacitor applications. Particularly, in the present invention guar gum is taken along with sodium alginate at different ratio to tailor the porous structure and morphology of prepared hydrogel and there after the porosity of activated carbon. Natural polymers alginate and guar gum are taken at different ratio, dissolved in distilled water, cross-linked with calcium alginate, followed by freeze drying produces natural polymer aerogel. These aerogel are carbonized and activated to produce activated carbon which have application as a supercapacitor. Accompanied Drawing [FIG. 1]

No. of Pages : 19 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059162 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A SYSTEM FOR DETERMINING DETERGENT QUANTITY IN A WASHING MACHINE

(51) International classification	:D06F0033000000, D06F0039020000, D06F0034220000, A47L0015440000, D06F0034180000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)RAJENDRAN Senthil Kumar Chidambaram 2)GHUNGarde Vikas
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system configured to determine detergent quantity in a washing machine (100) is provided. The system includes a sensor module (102) configured to detect a plurality of parameters, a memory (104) configured to store the detected quantity of the plurality of parameters and a control module (106) configured to analyze, determine and dispense a predetermined quantity of detergent into the inner drum. Further the control module (106) varies the amount of detergent to be dispensed based on the detected quantity of the plurality of parameters after the ongoing cycle and determines an optimum amount of detergent to be dispensed based on the stored data and dispenses the optimum detergent quantity in the at least one of the ongoing cycles.

No. of Pages : 20 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059163 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : A METHOD FOR CLEANING A WASH TUB IN A WASHING MACHINE

(51) International classification	:D06F0033000000, D06F0035000000, D06F0039080000, A47L0015500000, D06F0037400000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)RAJENDRAN Senthil Kumar Chidambaram 2)GUPTA BHARAT
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A method for cleaning a wash tub in a washing machine is disclosed. The method includes steps of rotating an inner tub during draining of water present in inner tub to remove dirt from the wash tub, operating a drain phase to drain the water to a predetermined level from the inner tub, detecting, via a sensor level of turbidity in wash water inside the wash tub, operating a jet spray, based on the detected turbidity level, to supply water into the inner tub, rotating the inner tub, based on the detected turbidity level, to clean the wash tub and operating a drain phase to drain the water from the inner tub.

No. of Pages : 12 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059175 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SMART DEVICE TO LOCATE WEARABLE LOST ITEMS

(51) International classification	:G08B0021020000, A61B0005000000, G08B0021240000, A41D0001000000, B60H0001000000	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India. Uttar Pradesh India (72) Name of Inventor : 1)Ms. Malvika Gupta 2)Dr. Shweta Sharma 3)Dr. Mamta Gautam 4)Dr. Neelam Yadav
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an aspect, the present invention discloses a system (100) for tracking wearable lost items. The system (100) includes at least one humidity sensor (102A) affixed on the lost item (102); a tracker (102B) in proximity to the humidity sensor (102); a communication unit (112); an alerting unit (102C); and a computing unit (110). Figure 1

No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059177 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : EXTRACTION OF LIGNOCELLULOSIC BIOMASS FROM THE LEAVES OF MADHUCALONGIFOLIA

(51) International classification	:D21C0003200000, C12P0007100000, C10L0005440000, C08H0008000000, C07G0001000000	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India. Uttar Pradesh India (72) Name of Inventor : 1)Ms. Neha Singh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number:	NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an aspect, the present invention discloses a process (100) for producing lignified biomass from M. Longifolia. The process (100) includes desiccating leaves of the M. Longifolia, pulverizing the leaves to a fine powder, reducing particle size thereof. The process (100) involves pre-hydrolyzing the biomass for obtaining a lignocellulosic biomass complex. Thereafter, the process (100) involves extracting at least one of three main constituents-cellulose, lignin, and hemicelluloses from the complex, followed by extracting ethanol from the complex to obtain the either of the two remaining constituents of the complex. Finally, the process (100) involves washing the aforementioned complex to obtain the left constituent.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059180 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : UNIQUE ID / CODE SYSTEM FOR FARMS

(51) International classification	:H04J0013000000, G06Q0020380000, H05B0006640000, B63B0035440000, G06F0008300000	(71) Name of Applicant : 1)Bharuwa Agri Science Private Limited Address of Applicant :Room No. 7, Divya Yog Mandir, Dadubagh, Kankhal, Haridwar – 249408, Uttarakhand, India. Uttarakhand India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)Acharya Balkrishna
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A unique ID/code generation system for a farm comprises a module 10 connected with a server 11 provided to store details about villages along with respective codes allocated to the villages. Another module 13, adapted to be connected with the server 11, is provided to store details about Khasra and Khatauni with respective numbers allocated to a particular piece of land / farm land. A further module 14, adapted to be connected with the said server 11, is provided to store details about divisions along with respective numbers allocated to the divisions. An application module 15, adapted to be connected with the server 11 is provided such that to access details / information contained in the server 11 and generate a unique 12 digit ID/code in respect of each farm land. [Fig. 1]

No. of Pages : 16 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059187 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BOARD CLEANING SLIDER

(51) International classification	:H05K0003260000, B08B0001000000, B08B0013000000, E06B0009386000, B08B0001040000	(71) Name of Applicant : 1)ABES Engineering College Address of Applicant :Campus-1, 19th KM Stone, NH-24, Ghaziabad-201009, Uttar Pradesh, India. Uttar Pradesh India (72) Name of Inventor : 1)Ms. Preeti Singh 2)Dr. Nimisha
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In an aspect, the present invention discloses a board cleaning slider (100). The slider (100) includes a plurality of blinds (102). The blinds (102) are accompanied with a cleaning tool. The blinds (102) include a plurality of slats (104) to support the blinds (102) to expand over a board (106) for cleaning thereto and collapse to at least one of the sides of the board (106) after cleaning the board (106). Figure 1

No. of Pages : 13 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059193 A

(19) INDIA

(22) Date of filing of Application :18/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : AUTOMATIC REMOVAL OF WASTE FROM WASHING MACHINE

(51) International classification	:D06F0039080000, G06F0003048500, D06F0039100000, B01D0033010000, B65F0001000000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)SHARMA Anil Kumar 2)PATIL Mayur
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A drain pump chamber (100) in a washing machine for automatic removal of waste is disclosed to have an inlet to facilitate ingress of waste water, filter (104) to collect solid component of the waste water, movable door (108) to be translated between an open and a closed position, slider (110) mounted on an inner side of the movable door (108) slidable along length of the movable door (108) upon translation of the movable door (108) and wiper (114) coupled to the slider (110) and positioned at first end (132) of the filter (104). Upon sliding of the slider (110) along the length of the movable door (108), the wiper (114) moves from the first end (132) of the filter (104) to second end (134) of the filter (104) to swipe out the collected solid component of the waste water through the movable door (108).

No. of Pages : 24 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/12/2021

(21) Application No.202111059199 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : AN ARTICLE WASHER FOR WASHING MACHINES

(51) International classification	:D06F0031000000, D06F0035000000, D06F0039000000, B08B0003020000, D06F0017040000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea. Republic of Korea (72) Name of Inventor : 1)KUMAR Prashant 2)KURHE Nikhil
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An article washer (100) for washing machines is disclosed. The article washer includes a base structure (102) to removably couple the article washer (100) to an inner tub of the washing machine and a main body (104) coupled to the base structure (102). The main body (104) includes one or more article holder grooves (110) on the surface of the main body (104) to couple to one or more article holders (106) to receive one or more articles for washing. The main body (104) also includes one or more jet nozzles (112) to spray the washing liquid at high pressure in a direction normal to the surface of the main body (104) to facilitate washing of the one or more articles (120) by washing liquid sprayed from the or more jet nozzles (112) and the pulsating motion of the washing liquid in the inner tub of the washing machine.

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052755 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GATE DEVICE, AUTHENTICATION SYSTEM, GATE CONTROL METHOD, AND STORAGE MEDIUM

(51) International classification	:G06T 1/00, G07C 9/00	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:PCT/JP2020/012045 :18/03/2020	(72) Name of Inventor : 1)INOUE Junichi
(87) International Publication No	:WO 2021/186628	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

A gate device is provided which prevents unauthenticated users from passing. The gate device is provided with an acquisition unit, an authentication request unit, a determination unit and a gate control unit. The acquisition unit acquires biological information of a person to be authenticated who is in an authentication area. The authentication request unit transmits to a server device an authentication request that contains the acquired biological information. The determination unit detects a person approaching the local gate device by using a sensor for detecting approaching persons, and determines whether or not the approaching person and the person to be authenticated are the same person. If authentication by the server device is successful and the approaching person and the authenticated person are the same person, then the gate control unit controls the gate to allow passage of the authenticated person.

No. of Pages : 46 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052756 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OCT ZONULE IMAGING

(51) International classification	:A61B 3/10, A61B 3/12, A61B 3/14	(71) Name of Applicant : 1)CARL ZEISS MEDITEC, INC. Address of Applicant :5160 Hacienda Drive Dublin, California 94568 U.S.A.
(31) Priority Document No	:62/979616	2)CARL ZEISS MEDITEC AG
(32) Priority Date	:21/02/2020	(72) Name of Inventor :
(33) Name of priority country	:U.S.A.	1)BELLO DELGADO, Simon
(86) International Application No	:PCT/EP2021/054053	2)WANG, Yingjian
Filing Date	:18/02/2021	3)CARPENTER, Amanda
(87) International Publication No	:WO 2021/165414	4)ZHAO, Si Xi
(61) Patent of Addition to Application Number	:NA	5)ARIANTA, Kabir M.
Filing Date	:NA	6)BUMSTEAD, Jonathan
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system, method, or device for imaging the anterior segment of an eye includes a contactless adapter/lens that may be attached to an existing ophthalmic imaging system to redirect the imaging system's light beam to traverse the pupil of the eye at a steep angle. In particular, the steep angle is determined to permit the ophthalmic imaging system to image zonules under the iris, and which would typically be blocked by the iris and not accessible for imaging.

No. of Pages : 28 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052757 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : OPTIMAL VALUE SEARCH CONTROL UNIT, OPTIMAL VALUE SEARCH CONTROL METHOD, COMPUTER PROGRAM, AND OPTIMAL VALUE SEARCH CONTROL SYSTEM

(51) International classification	:G05B 13/02	(71) Name of Applicant :
(31) Priority Document No	:2020-131759	1)KABUSHIKI KAISHA TOSHIBA
(32) Priority Date	:03/08/2020	Address of Applicant :1-1, Shibaura 1-chome, Minato-ku, Tokyo 1050023 Japan
(33) Name of priority country	:Japan	2)TOSHIBA INFRASTRUCTURE SYSTEMS & SOLUTIONS CORPORATION
(86) International Application No	:PCT/JP2021/024026	
Filing Date	:24/06/2021	(72) Name of Inventor :
(87) International Publication No	:WO 2022/030132	1)ONISHI, Yuuta
(61) Patent of Addition to Application Number	:NA	2)YAMANAKA, Osamu
Filing Date	:NA	3)HIRAOKA, Yukio
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An embodiment provides an optimum value search control device that are capable of setting priorities to satisfy a plurality of constraints. An optimum value search control device according to an embodiment includes an evaluation function generation unit that acquires a first evaluation function value determined based on a control amount that changes according to an operation amount of a process to be controlled and a plurality of evaluation values measured in real time in the process to be controlled, and outputs a second evaluation function value including at least a part of the evaluation value having a high priority to satisfy a constraint based on the plurality 10 of acquired evaluation values; and a controller that uses the second evaluation function value to perform extreme value control of changing the operation amount such that the evaluation value having the high priority approaches an optimum value.

No. of Pages : 22 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052758 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : GATE DEVICE, AUTHENTICATION SYSTEM, GATE DEVICE CONTROL METHOD, AND STORAGE MEDIUM

(51) International classification	:G07C 9/37, E05B 49/00, G06T 1/00	(71) Name of Applicant : 1)NEC CORPORATION Address of Applicant :7-1, Shiba 5-chome, Minato-ku, Tokyo 1088001 Japan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:PCT/JP2020/012036 :18/03/2020	(72) Name of Inventor : 1)INOUE Junichi
(87) International Publication No	:WO 2021/186626	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided is a gate device that accurately determines a user to be authenticated. The gate device is provided with an acquisition unit, a setting unit, and a gate control unit. The acquisition unit acquires an upper image and a lower image respectively from an upper camera and a lower camera that is installed on a vertically lower side of the upper camera. When a plurality of users are captured in both the upper image and the lower image, the setting unit identifies a user in the forward-most row among the plurality of users by calculating the distance between each of the plurality of users and a camera installation surface, and then sets the identified user as a person to be authenticated. The gate control unit controls a gate on the basis of the result of authentication of the person to be authenticated.

No. of Pages : 57 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052759 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : SYNCHRONOUS MACHINE CONTROL DEVICE, SYNCHRONOUS MACHINE CONTROL METHOD, AND ELECTRIC VEHICLE

(51) International classification	:H02P 21/12, H02M 7/48	(71) Name of Applicant : 1) HITACHI ASTEMO, LTD. Address of Applicant :2520, Takaba, Hitachinaka-shi, Ibaraki 3128503. Japan
(31) Priority Document No	:2020-045956	
(32) Priority Date	:17/03/2020	
(33) Name of priority country	:Japan	(72) Name of Inventor :
(86) International Application No Filing Date	:PCT/JP2020/049083 :28/12/2020	1) TANIGUCHI Shun 2) TOBARI Kazuaki 3) NAKAO Noriya 4) AJIMA Toshiyuki 5) YOSHIDA Kenichi 6) MATSUO Kentaro 7) KISHIMOTO Eigo
(87) International Publication No	:WO 2021/186842	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

There is provided a synchronous machine control device capable of improving the performance of a motor without complicating a control system. The synchronous machine control device controls a power converter (2) that supplies electric power to a synchronous machine (1). The synchronous machine control device includes a first magnetic flux command computation unit (21) that computes a first magnetic flux command value (ϕ_d , ϕ_q) from a current command value (I_d , I_q) of the synchronous machine (1), a magnetic flux estimation unit (23) that estimates a magnetic flux value (ϕ_{dc} , ϕ_{qc}) of the synchronous machine (1) from a current detection value (I_{dc} , I_{qc}) of the synchronous machine (1), and a voltage computation unit (19) that creates a voltage command value (V_d , V_q) of the power converter such that the first magnetic flux command value (ϕ_d , ϕ_q) coincides with the magnetic flux value (ϕ_{dc} , ϕ_{qc}).

No. of Pages : 35 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052760 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : FILLER STRUCTURE RETENTION INPOLYMERIC COMPOSITIONS

(51) International classification	:C08L 25/02, C08L 67/07, C08F 12/22
(31) Priority Document No	:62/979335
(32) Priority Date	:20/02/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/019066
Filing Date	:22/02/2021
(87) International Publication No	:WO 2021/168422
(61) Patent of Addition to Application Number	:NA :NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)BIRLA CARBON U.S.A., INC.

Address of Applicant :1800 West Oak Commons Court
Marietta, GA 30062 U.S.A.

(72)Name of Inventor :

1)TIAN, Jun

(57) Abstract :

Polymer compositions comprising high structure filler materials and methods for preparing such compositions while retaining structure.

No. of Pages : 23 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052761 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : BATTERY MODULE AND BATTERY PACK INCLUDING SAME

(51) International classification	:H01M 50/30, H01M 50/211, H01M 50/502	(71) Name of Applicant : 1)LG ENERGY SOLUTION, LTD. Address of Applicant :Tower 1, 108, Yeoui-daero, Yeongdeungpo-gu, Seoul 07335 Republic of Korea
(31) Priority Document No	:10-2020-0161480	
(32) Priority Date	:26/11/2020	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2021/017379	
Filing Date	:24/11/2021	
(87) International Publication No	:WO 2022/114769	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A battery module, according to one embodiment of the present invention, comprises: a battery cell stack in which a plurality of battery cells are stacked; a module frame which accommodates the battery cell stack; a first bus bar frame which is accommodated in the module frame and covers a front surface of the battery cell stack; and a second bus bar frame which is accommodated in the module frame and covers a rear surface of the battery cell stack, wherein a terminal bus bar is mounted on the first bus bar frame, a module connector is mounted on the second bus bar frame, a venting part penetrating an upper plate of the module frame is formed therein, and the venting part is located closer to the module connector than the terminal bus bar.

No. of Pages : 16 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052762 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CIRCUIT CONTROL APPARATUS AND METHOD

(51) International classification	:H02J 7/00, H02J 50/05
(31) Priority Document No	:202010124364.6
(32) Priority Date	:27/02/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/074421
Filing Date	:29/01/2021
(87) International Publication No	:WO 2021/169729
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)Name of Applicant :

1)VIVO MOBILE COMMUNICATION CO.,LTD.

Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China

(72)Name of Inventor :

1)SONG, Yalei

2)ZHANG, Wencheng

(57) Abstract :

Disclosed in the embodiments of the present invention are a circuit control apparatus and method. The circuit control apparatus is applied to an electronic device, and comprises a charging control module, a circuit switching module, a capacitance measurement module, a first switch, and a first polar plate. The first switch comprises a first common end, a second end, and a third end. The first polar plate is electrically connected to the first common end. The charging control module is electrically connected to the second end. The capacitance measurement module is electrically connected to the third end.

No. of Pages : 28 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/09/2022

(21) Application No.202217052763 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CARTRIDGE WITH NICOTINE

(51) International classification	:A24F 40/40, A24F 40/44, A24F 40/53	(71) Name of Applicant : 1)MCNEIL AB Address of Applicant :Norrbroplatsen 2 25109 Helsingborg Sweden
(31) Priority Document No	:2050337-1	
(32) Priority Date	:27/03/2020	
(33) Name of priority country	:Sweden	(72) Name of Inventor :
(86) International Application No	:PCT/EP2021/057955	1)TASSELLI, Corrado
Filing Date	:26/03/2021	
(87) International Publication No	:WO 2021/191427	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a nicotine containing cartridge assembly for use in a medical electronic nicotine delivery device, having a prolonged life time that remains over the treatment period, wherein the treatment is to help a person stop smoking.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/12/2021

(21) Application No.202111060367 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : CURRENT TRANSFORMER TO POWER UP TRIP UNIT OF SWITCHGEAR

(51) International classification	:H01F0038140000, H01F0027300000, H01F0038300000, H01F0027020000, H01H0071740000	(71) Name of Applicant : 1)SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED Address of Applicant :C-56 Mayapuri Industrial Area, Phase II, New Delhi – 110064, India Delhi India (72) Name of Inventor : 1)PAUL T, Nirmal Joseph 2)MEHER, Kaustubh Pradeep
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Current Transformer to power up a trip unit of switchgear comprising a plurality of adjoining iron cores with a small air gap between them, the iron cores comprising a main core (A) and a secondary core (B), wherein the main core (A) is configured to meet the power requirement of the trip unit, and the secondary core (B) is configured to limit the output of the main core (A) once the power requirements of the trip unit is met, a plurality of secondary windings comprising a main winding (C) disposed around the main core (A) and a secondary winding (D) disposed around the secondary core (B), and a notch on the secondary core (B) to indicate the direction of the winding.

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111060394 A

(19) INDIA

(22) Date of filing of Application :23/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : ROTATING FLAPPER ARRANGEMENT IN SHORT RATED SHUNT FOR NO CONTINUITY IN SHUNT IN STAND ALONE STATE

(51) International classification	:H01H0071020000, H01H0071240000, H01H0071080000, H01R0024760000, H01H0071100000	(71) Name of Applicant : 1)SCHNEIDER ELECTRIC INDIA PRIVATE LIMITED Address of Applicant :C-56 Mayapuri Industrial Area, Phase II New Delhi DELHI India 110064 Delhi India
(31) Priority Document No	:NA	(72) Name of Inventor :
(32) Priority Date	:NA	1)GOR, Mrugesh Hasmukhbhai
(33) Name of priority country	:NA	2)PADARIYA, Arpit B
(86) International Application No	:NA	3)K, Vetrivel
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A moulded case circuit breaker, MCCB (1), comprising: a front cover (4) pivotably coupled to a main cover (3) of the MCCB, said main cover (3) comprises at least one cavity (3a) integrating at least one internal accessory (2) into the cavity (3a), wherein the internal accessory (2) is operably coupled to a tripping mechanism (5) for mechanical tripping in case of any abnormal conditions.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059624 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A WATER LEVEL DETECTOR FOR A WASHING MACHINE

(51) International classification	:D06F0039080000, D06F0033000000, D06F0034180000, A47L0015420000, G01F0023180000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)DAS Kanhai Kumar
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A washing machine (118) with a water level detector (100) to automatically cut-off inlet water is disclosed. The washing machine (118) a washing tub (120) to receive water from an inlet valve (508), a water level detector (100) mounted inside the washing tub (120) of the washing machine (118) . The water level detector (100) has a telescopic pipe (106) to be varied in height to enable selection of the desired water level, an air chamber (108), slidably mounted on the telescopic pipe (106), filled with air compressed based on the water level in the washing tub (120) and having: an outlet (408) at a second end (404) of the air chamber (108) to transfer the air to a pressure switch (510) based on the pressure generated by the compression of air in the air chamber (108) and to close the inlet valve (508) to cut-off inlet water.

No. of Pages : 33 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202111059644 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A CONVERTIBLE COMPARTMENT FOR REFRIGERATORS

(51) International classification	:F25D0017040000, F25D0017060000, F24F0013150000, F24F0013140000, A23G0009220000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)AGRAWAL Saurabh
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A convertible compartment (100) for refrigerators (502) is disclosed. The convertible compartment (100) includes a multi duct cover (102) having a cold air inlet (116) to receive cold air, a hot air inlet (118), a hot air outlet (120) and a cold air outlet (124). The convertible compartment (100) includes a damper (104) slidably coupled to the multi duct cover (102) via an actuator mechanism (306) to open and close the cold air inlet (116). The convertible compartment (100) includes a slider (114) to open and close the cold air outlet (124) and a push button configured to be activated and deactivated by the sliding of the slider (114) to control the operation of at least one of: the heater box (106) and the actuator mechanism (306) of the damper (104) to convert the convertible compartment (100) from one zone to the other.

No. of Pages : 44 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2021

(21) Application No.202111052929 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ENSEMBLE CLASSIFIER ENGINE FOR CLASSIFYING CARCINOGENICITY

(51) International classification	:G06K0009620000, B60W0030180000, G06N0005040000, H04L0029120000, B60W0010060000	(71) Name of Applicant : 1)Indraprastha Institute of Information Technology Delhi Address of Applicant :Okhla Industrial Estate, Phase III, Near Govind Puri Metro Station, New Delhi, Delhi 110020, India Delhi India (72) Name of Inventor : 1)AHUJA, Gaurav 2)SENGUPTA, Debarka 3)MITTAL, Aayushi 4)GARG, Prakriti 5)S, Roshan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed is an information processing apparatus includes processing circuitry configured to detect one or more parameters associated with one or more chemical compounds, assign at least one probability score between 0 to 1 for each parameter of the one or more parameters, determine a presence or absence of activity of each parameter of the one or more parameters in the one or more chemical compounds based on the assigned probability score, and determine carcinogenicity of the one or more chemical compounds based on the presence or the absence of the activity of each parameter of the one or more parameters by way of a voting mechanism. The present disclosure also relates to a method of determining carcinogenicity of one or more chemical compounds.

No. of Pages : 31 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/12/2021

(21) Application No.202111058826 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : REALTIME PROCTORING AND ANALYSIS SYSTEM USING FACIAL, GESTURE AND BEHAVIOUR ANALYSIS

(51) International classification	:G06Q0010060000, G16H0050200000, G06Q0050200000, G09B0007000000, A63F0013750000	(71) Name of Applicant : 1)Chander Chauhan Address of Applicant :BH -230 (EAST) Shalimar Bagh Delhi India (72) Name of Inventor : 1)Chander Chauhan 2)ARJUN JAGGI 3)RUDRAMANI GYAWALI SINGHA 4)MANAN UMESH LAD I
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An interactive proctoring system simultaneously provides tracking facility to multiple users at the same time. It enables logging and management of multiple tracked events that play a role at determining the penalty factor for individual candidates. This penalty factor plays a part to decide the overall cheating behavior and the data with its report is presented to the examiner. Along with the behavior, the system displays the environment of the candidate for assessment. The system proposed is lightweight and integrated into existing examination systems easily. It utilizes Artificial Intelligence along with other intelligent algorithms to decide the overall grade.

No. of Pages : 13 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/12/2021

(21) Application No.202111060109 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : ONLINE RECRUITMENT SYSTEM DOOR

(51) International classification	:H05K0007200000, G06T0015000000, G06Q0020200000, A61M0001360000, H04W0068020000	(71) Name of Applicant : 1)DIVYA DIXIT Address of Applicant :Flat no G 802, Plumeria Garden, Omicron 3, Greater Noida, 201310- U. P. Uttar Pradesh India (72) Name of Inventor : 1)DIVYA DIXIT
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An online preparation system (100) for students, the system (100) comprising a registration module (300) configured to enable one or more users to register on an OLSD application (108) as one of, a student, a recruiter, an educator, by providing one or more details; an assessment module (302) configured to enable said users to participate in an assessment of skills in one or more courses based by using an artificial intelligence technique; a prediction module (304) configured to predict a performance outcome of said users based on an assessment in order to improve achievement and success of said users; a recommendation module (306) configured to recommend said courses provided by one or more educators based on the performance outcome and the requirement of one or more recruiters by using the artificial intelligence technique, and an output module (314) configured to display the overall performance chart of a user.

No. of Pages : 34 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202113059647 A

(19) INDIA

(22) Date of filing of Application :21/12/2021

(43) Publication Date : 23/06/2023

(54) Title of the invention : A REFRIGERATION CYCLE APPARATUS FOR DEFROSTING OPERATION

(51) International classification	:F25B0047020000, F25D0021080000, F25D0021000000, F25B0005020000, F25B0013000000	(71) Name of Applicant : 1)LG ELECTRONICS INC. Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72) Name of Inventor : 1)GUPTA Gaurav 2)PANDEY Badrish
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number :		
Filed on	:01/01/1900	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A refrigeration cycle apparatus (100) for a heat exchanging system is provided. The refrigeration cycle apparatus (100) comprises a first refrigeration cycle (200) for cooling operation, the first refrigerant cycle facilitates in the flow of refrigerant in a first stream of refrigerant and a second refrigeration cycle (300) for defrost operation. During defrost operation, the valve assembly (110) reverses the flow of refrigerant in the second refrigerant cycle (300), regulating the flow of the refrigerant in a second stream of refrigerant. Further, during cooling operation, the defrosting of the evaporator (108) is performed based on the detected ambient temperature, by one of: operating the defrost heater (112) or redirecting the refrigerant flow from the first stream of refrigerant to the second stream of refrigerant for a predetermined time period.

No. of Pages : 27 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/12/2021

(21) Application No.202114062156 A

(43) Publication Date : 23/06/2023

(54) Title of the invention : METHOD AND SYSTEM FOR TRAINING NEURAL NETWORK FOR ENTITY DETECTION

(51) International classification	:G06F0016280000, G06F0016230000, G06N0003080000, G06F0016000000, H01R0029000000	(71) Name of Applicant : 1)Quantiphi Inc. Address of Applicant :33 Boston Post Road West, Marlborough, MA 01752 U.S.A. (72) Name of Inventor : 1)Reghu Hariharan 2)Jeevan Prakash 3)Harsh Kothari 4)Kavitha S 5)Rajat Jaiswal
(31) Priority Document No	:17552762	
(32) Priority Date	:16/12/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No Filing Date	:NA :NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Disclosed is a system and method for training a neural network to be implemented for detecting at least one entity in a document to derive relevant inferences therefrom. The method comprising obtaining at least one document, processing, the at least one document via a detection module to detect a widget entity, wherein the detected widget entity is classified as active or inactive based on a detected state of the widget entity, modifying, the classified widget entity into a corresponding machine-readable widget-entity based on the detected state, processing, the at least one document via an extraction module to detect a text entity in near vicinity of the classified widget entity, generating a training pair comprising the machine-readable widget entity and the corresponding text entity and training the neural network using the generated training pair. FIG. 4

No. of Pages : 56 No. of Claims : 20

CONTINUED TO PART- 2