

पेटेंट कार्यालय  
शासकीय जर्नल

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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 01<sup>st</sup> 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.

**( Om Prakash Gupta )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**2<sup>ND</sup> AUGUST, 2019**

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**THE PATENT OFFICE  
KOLKATA, 02/08/2019**

**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:-**

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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: <a href="mailto:mumbai-patent@nic.in">mumbai-patent@nic.in</a></p> <ul style="list-style-type: none"> <li>❖ The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu &amp; Dadra and Nagar Haveli</li> </ul>	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: <a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></p> <ul style="list-style-type: none"> <li>❖ Rest of India</li> </ul>
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 &amp; 28032253 Fax: (91)(11) 28034301 &amp; 28034302 E-mail: <a href="mailto:delhi-patent@nic.in">delhi-patent@nic.in</a></p> <ul style="list-style-type: none"> <li>❖ The States of Haryana, Himachal Pradesh, Jammu and Kashmir, Punjab, Rajasthan, Uttar Pradesh, Uttarakhand, Delhi and the Union Territory of Chandigarh.</li> </ul>		

Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)

[www.patentoffice.nic.in](http://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 02/08/2019

- 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:-**

<p><b>1</b> 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>	<p><b>4</b> 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>
<p><b>2</b> 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>	<p><b>5</b> 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>
<p><b>3</b> 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](http://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 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.

**(Om Prakash Gupta)**

**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 18<sup>th</sup> 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.201811009362 A

(19) INDIA

(22) Date of filing of Application :14/03/2018

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SMART COOLANT DELIVERY BLOCK IN A CNC MACHINE

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(51) International classification	:G05B19/18	(71) <b>Name of Applicant :</b> <b>1)SIDDHANT SARUP</b> Address of Applicant :C-86, Phase V, Focal Point, Ludhiana-141010, Punjab, India Punjab India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:PCT// :01/01/1900	(72) <b>Name of Inventor :</b> <b>1)Siddhant Sarup</b> <b>2)Gaurav Sarup</b> <b>3)Prashant Sarup</b>
(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 :

SMART COOLANT DELIVERY BLOCK IN A CNC MACHINE • ABSTRACT Embodiments of present invention provides a smart coolant delivery device in the shape of a smart block, where the smart block has one or more internal coolant transfer channels build into it. The internal transfer channels allow coolant to flow into and through the smart block and reach a working zone of a tool in Gang Tooling of a CNC machine. Since, the coolant flows through the internal channels of the smart block to reach the working zone, the present invention avoids the installation of any external connection pipes for delivering the coolant eventually to the working zone. Hence, the present invention also prevents chip clogging and any damage caused to the coolant delivery devices due to chips. Additionally, the smart block prevents leakage of coolant. It also allows for use of High Pressure Coolant which has many beneficial effects including increase in Tool Life and increase in machining parameters. FIG. 1A

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/03/2018

(21) Application No.201811009363 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SMART PLATE FOR ENSURING COOLANT FLOW IN A CNC MACHINE •

(51) International classification	:G05B19/4099	(71) <b>Name of Applicant :</b> <b>1)SIDDHANT SARUP</b> Address of Applicant :C-86, Phase V, Focal Point, Ludhiana-141010, Punjab, India Punjab India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT//	(72) <b>Name of Inventor :</b>
Filing Date	:01/01/1900	<b>1)Siddhant Sarup</b>
(87) International Publication No	: NA	<b>2)Gaurav Sarup</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Prashant Sarup</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SMART PLATE FOR ENSURING COOLANT FLOW IN A CNC MACHINE • ABSTRACT Embodiments of the present invention provide a smart coolant delivery device, designed and manufactured in the shape of a cuboidal plate and referred to as smart plate, for delivering a coolant to a working zone in Gang Tooling of a CNC machine. The smart plate has a plurality of inbuilt internal hollow channels for the coolant to flow through them and reach the working zone to cool it off. The coolant pumps out of a tank; flows into the smart plate, through the internal channels; and reaches the working zones. Using the smart plate as the coolant delivery device avoids installing external flexible pipes, conventionally used to deliver the coolant to the working zones. Therefore, the smart plate avoids chip clogging, damages caused due to chips, and leakage of coolant. FIG. 1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/07/2019

(21) Application No.201911029864 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DOMESTIC VERMICOMPOSTING BIN AND METHOD THEREOF

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(51) International classification	:C05F17/0009	(71) <b>Name of Applicant :</b> <b>1)SID07 Designs (OPC) Private Limited</b> Address of Applicant :495, Sector 4, Channi Himmat, Jammu 180015, J&K, India Jammu & Kashmir India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Siddarth Gupta</b>
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 system and method for providing smart farming in an agricultural land. The system includes: water pump; sensing unit; and control unit operatively coupled to water pump and sensing unit, and having processors and memory. The sensing unit includes sensors to sense, in real-time, set of parameters such as temperature, humidity, moisture, soil fertility, soil quality, air quality, rainfall, dust particles and atmospheric gases. The control unit configured to: determine a set of values corresponding to the sensed set of parameters respectively; compare any of the determined set of values of a parameter with a predefined statistical value of the corresponding parameter such that predefined statistical values of the set of parameters stored in a database; predict fertilizer and amount of predicted fertilizer to be used based on comparison of the determined set of values with the corresponding predefined statistical values; and control water pump. FIG. I

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/02/2018

(21) Application No.201811005229 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SMART COOLANT DELIVERY SYSTEM IN CNC MACHINES •

(51) International classification	:B23B27/10	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Siddhant Sarup</b>
(32) Priority Date	:NA	Address of Applicant :C-86, Phase V, Focal Point, Ludhiana-,
(33) Name of priority country	:NA	Punjab, India. Punjab India
(86) International Application No	:PCT// /	(72) <b>Name of Inventor :</b>
Filing Date	:01/01/1900	<b>1)Gaurav Sarup</b>
(87) International Publication No	: NA	<b>2)Prashant Sarup</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Siddhant Sarup</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

SMART COOLANT DELIVERY SYSTEM IN CNC MACHINES • ABSTRACT Embodiments of the present invention provide a smartly controlled coolant delivery system to be implemented with ~gang tooling™ for CNC lathe machines. The coolant delivery system comprises a number of control valves; each associated and connected with a tool block mounted on a tool base plate via coolant connecting lines. The delivery system controls the operation of valves using a PLC logic executed by a CNC controller. The logic, when calls a tool to operate, it also actuates the control valve associated with that tool only. Resultantly, the coolant flows through that control valve only, to reach the operating tool working zone. The rest of the control valves remain deactivated, avoiding the flow of coolant to non-operating tools. The system ensures full flow rate and pressure of the coolant to reach one operating tool, and hence avoids chip clogging and wastage of coolant. Fig. 1

No. of Pages : 19 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2019

(21) Application No.201911014941 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR BREEDING & CULTURE OF ORNAMENTAL FISH™

(51) International classification	:A01K61/17
(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 :

**1)Mr. RAVINDER UPADYAYA**

Address of Applicant :# C-55, Near Satyam Complex,  
R.K.Colony, Bhilwara, Rajasthan 311001. INDIA. Rajasthan  
India

(72)Name of Inventor :

**1)Mr. RAVINDER UPADYAYA**

(57) Abstract :

A system of breeding, growth tanks and processing areas for commercial raising and harvesting of fish, the growth or rearing tanks comprising a novel arrangement of artificial reefs with special equipment provided for the culling and harvesting of the fish as they mature. In accordance with the invention claimed, a system and the associated equipment are provided for the breeding, growing and harvesting of fish. A further object of this invention is to provide in such a system suitable means and equipment for the enhancement of the breeding and growth environment for crustaceans and fish including an adequate fresh water supply, filtering and aeration thereof and shelter for creatures from the direct rays of the sun. A still further object of this invention is to provide as a part of such a system new and efficient means and equipment for the accomplishment with a minimum of manpower of the necessary sorting, grading and harvesting operations.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/03/2019

(21) Application No.201921008965 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PLATFORM FOR MONITORING POWER LOOM MACHINE AND A METHOD TO OPERATE THE SAME

(51) International classification	:f04L 01/12	(71) <b>Name of Applicant :</b> <b>1)LANDE PANKAJ UDHAVRAO</b> Address of Applicant :DEPT ELECTRONICS, RAJARAM COLLEGE, SAGARMAL, KOLHAPUR, MAHARASHTRA, 416004, INDIA Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)LANDE PANKAJ UDHAVRAO</b>
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 platform for monitoring power loom machine is provided. The platform includes a processing subsystem. The processing subsystem include a control module, configured to receive one or more data from at least one of the plurality of looms based on a predefined set of instructions via an asynchronous communication. The processing subsystem also includes an analysis module, configured to analyse the received data by an analysing technique to enable comparison of the one or more data from the at least one of the plurality of looms and the predefined set of instructions. The processing subsystem also includes a data visualisation module, configured to generate a visualisation of an analysed data. The present disclosure of a fully automated monitoring tool of a mechanised loom provides a more efficient to compare specific factors that a user wants to compare regarding the loom machine. (FIG. 1)

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/11/2018

(21) Application No.201821044396 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : FOOT SPRAY PUMP

(51) International classification	:B05B 11/00 F04F 1/00	(71)Name of Applicant : <b>1)AVINASH CHOURHARI</b> Address of Applicant :AT POST-CHIKHARDE TAL-BARSHI DIST-SOLAPUR Maharashtra India
(31) Priority Document No	:NA	(72)Name of Inventor :
(32) Priority Date	:NA	<b>1)AMOL DNYANDEV CHOURHARI</b>
(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 :

FOOT SPRAY PUMP IS ON PRINCIPLE THAT AIR PRESSURE & FOOT MUSCLES ENERGY. WHEN WE WEAR THIS FOOT SPRAY PUMP ON OUR BACK & SHOES WITH BLOWER IN OUR FEET AND WALK AUTOMATICALLY AIR PRESSURE BUILD & STORE IN AIR TANK. DUE TO NON RETURN VALVE AIR PRESSURE NOT CAME BACK . WHEN WE WALK WITH SHOES WITH BLOWER AIR PRESSURE GENERATED FROM ATMOSPHERE THROUGH BLOWER AND ITS STORED IN TANK OR CAN AND SUCH COMPRESSED AIR PRESS THE LIQUID AND LIQUID CAME THROUGH NOZZLE. (DETAILS SHOWN IN DIAGRAM)

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2018

(21) Application No.201841026151 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SMART CONFERENCE HALL SURVEILLANCE SYSTEM USING IOT

(51) International classification

:B60T

15/08

(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

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**2)MS.M.PADMA SRI SWEDHA**

**3)MS.B.SYNDIA PRIYADARSHINI**

**4)MS.K.VELA ISWARYA**

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**4)MS.K.VELA ISWARYA**

---

(57) Abstract :

**ABSTRACT** The significant changes happening in present technology can mostly be attributed to developments in Internet of Things. Developing smarter conference rooms in college or company have a great scope for innovation and digital transformation. Wastage of electricity is one of the main problems the world is facing now a days. Based on the technology of the Internet of Things (IOT), a lot of solutions have been developed to control appliances without the need of accessing the electrical sockets or plug. It focuses on developing a smart conference hall for conservation of power. The proposed idea aims at measuring the number of persons entering any room like seminar hall, conference room and classroom using pair of Infrared sensors, Arduino, PIC Microcontroller and IOT board. When a person enters the room, the IR sensor will act as a counter and the count will be incremented which makes the appliances in the room to get activated. When a person leaves the room, the count gets decremented by one. If the count reaches zero, the appliances inside the room will be turned off using a relay interface. Arduino serves as the brain and gateway for the control operations of IR sensors. PIC controller provides users with additional features such as controlling the appliances in the conference hall from anywhere using IOT Board.

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2018

(21) Application No.201841026152 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MICROCONTROLLER BASED GESTURE CONTROL CAR

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(51) International classification

:B60T  
15/08

(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

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---

(57) Abstract :

The gesture controlled car is a microcontroller based robotic car which can be controlled by simple human gestures. The user needs to wear a gesture pad or gloves in which the accelerometer sensor is placed. An accelerometer is used to detect the tilting position or the motion of the hand. The microcontroller gets different analogue values from the accelerometer and generates a command signals to control the car. The gesture instrument is connected to thereceiver circuit wirelessly through radio waves. User can interact with the car in a more friendly way due to the wireless communication. The sensors are intended to replace the remote and joystick control. The gesture signal will be encoded before transmission. The receiver receives the signal and decodes it to control the car. It will allow user to control the forward, backward, leftward and rightward movements. The movement mechanism involves the rotation of both front and rear wheels of left or right side to move in the anticlockwise direction and the other pair to move in the clockwise direction which makes car to rotate about its own axis without any kind of forward or backward motion. When the obstacle is found on the path, the ultrasonic sensor can stop the car automatically. This mechanism can be implemented for other military and gaming application.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2018

(21) Application No.201841026154 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SMART HOME AUTOMATION FOR MOINTORING PH AND TDS LEVEL IN AQUARIUM AND PURIFIER

(51) International classification	:B60T 15/08	(71)Name of Applicant : <b>1)Mr.T.RAMPRAKASH</b> Address of Applicant :DEPARTMENT OF ELECTRONICS AND COMMUNICATION ENGINEERING, RAMCO INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117 Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Ms. M.SHAMIMA</b>
(32) Priority Date	:NA	<b>3)Ms. T.SUBHALAKSHMI</b>
(33) Name of priority country	:NA	<b>4)Ms. A. MAHALAKSHMI</b>
(86) International Application No Filing Date	:NA :NA	(72)Name of Inventor : <b>1)Mr.T.RAMPRAKASH</b> <b>2)Ms. M.SHAMIMA</b> <b>3)Ms. T.SUBHALAKSHMI</b> <b>4)Ms. A. MAHALAKSHMI</b>
(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 :

Water is an essential resource in day to day activities. Quality of drinking water is more important. It is necessary to find whether the drinking water is pure or contaminated. Likewise in the aquarium there is a lack of maintenance in changing the water periodically. Due to this fishes may die. To guarantee the quality of drinking water and the quality of the aquarium water, a new approach has been proposed. This system is a low cost and holistic approach to check the quality of drinking water and the aquarium water. This system periodically measures the TDS. level of the drinking water and pH level of the aquarium water to ensure the quality of the water. The framework comprises of two areas, Transmitter segment that gathers the pH and TDS readings from remote place, and, Receiver segment, that gathers transmitted readings. The outcomes are ordered into three classes like good, acceptable and not acceptable based upon the level of pH and TDS values in the water. When the TDS or pH content exceeds its typical value then automatically an alarm system will be set and an alerting SMS message will be sent to user mobile phone using GSM modem.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/12/2018

(21) Application No.201841049034 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THREE CONTENT COPY AND PASTE COMPUTER MOUSE

(51) International classification	:G06F9/54	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr.J.Sundeep Anand</b>
(87) International Publication No	: NA	<b>2)Dr.K.P.Thooymani</b>
(61) Patent of Addition to Application Number	:NA	<b>3)J.Sridhar</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

THREE CONTENT COPY AND PASTE COMPUTER MOUSE A computer mouse with three additional buttons is disclosed. These additional buttons are positioned in the top and both sides of the mouse. These buttons can be used to copy and paste contents. For copying and pasting, more than one content at a time, these buttons may be used.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/12/2018

(21) Application No.201841049183 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OXYGEN CARBON DIOXIDE INDICATOR IN MOBILE PHONE NETWORKING

(51) International classification	:B60W40/12	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)P.Arumugam</b>
(87) International Publication No	: NA	<b>2)Dr.T.Krishnakumar</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.A.Kumaravel</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Oxygen Carbon dioxide indicator in mobile phone networking A mobile phone with inbuilt Oxygen IR sensor and Non-Dispersive Infra-Red NDIR sensor is disclosed. These sensors are capable of detecting a pre-set concentration of a particular gas. The detector is not in itself a safety device. Based on the risk assessment, the alarm sounds and the required action to be taken must be decided. Multiple mobile phones present in a location can share such data of gas concentration over the mobile network, thereby enabling determination of approximate gas levels over a particular place.

No. of Pages : 8 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/12/2018

(21) Application No.201841049205 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THERMAL/FIRE SENSOR CAMERA SWITCH

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(51) International classification	:G03B17/00	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073, India. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Mr.K.M.Azaraffali</b>
(87) International Publication No	: NA	<b>2)Dr.T.Krishnakumar</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.K.P.Kaliyamoorthy</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

ABSTRACT THERMAL / FIRE SENSOR CAMERA SWITCH A thermal imaging camera is inbuilt into switch sockets and this camera is able to detect the temperature of the surroundings. Based on a threshold level of temperature detected by the camera, automatic deployment of water spray / fire extinguishing process is carried out to prevent any accidents. The switch sockets will be fixed in various parts of a building, and they will keep on detecting fire and temperature of a place on a real-time basis. Once fire is noticed inside the room or working environment, immediately the switch will automatically switch on the water pumping / spraying system and this will work in the particular place to extinguish the fire.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049243 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ENGINE COMBUSTION CHAMBER THERMOGRAPHY DETECTION

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(51) International classification	:G01M15/04	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)J.Dhanasekar</b>
(87) International Publication No	: NA	<b>2)Dr.P.Sengottuvel</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.P.Naveen Chandran</b>
Filing Date	:NA	<b>4)Dr.J.Hameed Hussain</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

ABSTRACT ENGINE COMBUSTION CHAMBER THERMOGRAPHY DETECTION A method of diagnosing defects in an engine is disclosed. Thermography is used to detect the location of a defects in an engine. In this manner it is possible to find out as to where the fault is present and in which cylinder and find out air/fuel ratio and temperature of the engine.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049246 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SUPER MARKET BASKET DETECTING AND IMMEDIATE BILLING SYSTEM

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(51) International classification	:G06Q20/10	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)M.Sivachandran</b>
(87) International Publication No	: NA	<b>2)Dr.T.Krishnakumar</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.J.Hameed Hussain</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

ABSTRACT Super market basket detecting and immediate billing system This invention discloses the use of a sensor and barcode / QR code reader in shopping basket. Once the customer drops a product in the basket, the sensor detects the amount due and the same is displayed in a display unit in the basket. After the completion of shopping, the total amount due to be paid can be seen in the display unit in the basket.

No. of Pages : 6 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049248 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRONIC PURSE WITH MOBILE PHONE PAIRING

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(51) International classification	:G05B1/01	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)N.Priya</b>
(87) International Publication No	: NA	<b>2)Dr.A.Kumaravel</b>
(61) Patent of Addition to Application Number	:NA	<b>3)P.Kavitha</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

ABSTRACT Electronic purse with mobile phone pairing This invention pairs a purse fixed with sensors to a mobile phone or a smart watch. The sensor detects the amount of money in the purse at a given time and relays this information to the mobile phone or smart watch paired to it. Therefore, a person will have no need to open his purse and count the money in front of others. Just by looking at the display in the smart watch or mobile phone the information can be seen.

No. of Pages : 6 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2018

(21) Application No.201841025558 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM AND METHOD FOR CHECKING READINESS OF A POWER CONDITIONING MODULE •

(51) International classification	:H01L21/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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

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**2)JITENDRA SINGH**

**3)PRAVEEN CK**

**4)SHIVARAM NELLAYI VENKATESWARAN**

**5)MILIND SURESH KOTHEKAR**

**6)RITURAJ GAUTAM**

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(57) Abstract :

Embodiments of the present disclosure relate to a system [100] and method [200] for determining readiness of a power conditioning module [102] before initiating the transfer of charge to an energy storage unit [106]. The system [100] and the method [200] comprises a check on an energy management unit [108]. The check helps in determining whether the energy management unit [108] is working correctly. In an event the power conditioning module [102] determines that the energy management unit [108] is working correctly, the power conditioning module [102] initiates the transfer of charge to the energy storage unit [106]. FIG. 1

No. of Pages : 19 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012756 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : VACUUM-ASSISTED CLIMBING APPARATUS

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(51) International classification	:B62D57/00
(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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(72)**Name of Inventor :**

**1)CH. VINAY KUMAR REDDY**

**2)Dr. INUGALA RAJASRI REDDY**

(57) Abstract :

A vacuum-assisted climbing apparatus includes suction paddles, connection hoses, and a backpack assembly. Each suction paddle includes a coated peripheral frame, a vacuum area within the peripheral frame on a front support surface, a suction opening positioned in the vacuum area on the front support surface, a handle, and hand and foot holders. The backpack assembly includes a body harness, at least one high-powered electric suction motor (HPESM), and at least one energy storage device. On activation, the HPESM, powered by the energy storage device, generates a suction force through the connection hoses via the suction openings of the suction paddles. The suction force creates a vacuum in the vacuum areas of the suction paddles and creates an airtight seal on any climbing surface, when the peripheral frames of the suction paddles contact the climbing surface, to support the climbers body weight on the climbing surface, while climbing any height. [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012757 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : COMPRESSOR-LESS SOLAR ENERGY POWERED REFRIGERATOR

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(51) International classification	:F25B 1/00	(71) <b>Name of Applicant :</b> <b>1)S R ENGINEERING COLLEGE</b> Address of Applicant :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban, Telangana - 506371, India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. A. DEVARAJU</b>
(87) International Publication No	: NA	<b>2)Dr. PULLA SAMMAIAH</b>
(61) Patent of Addition to Application Number	:NA	<b>3)JESHRUN SHALEM</b>
Filing Date	:NA	<b>4)NIKHIL MAMIDALA</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The compressor-less solar energy powered refrigerator (100) comprising a cooling chamber (102) including an outer surface (104) and an inner surface (106), a thermoelectric (TC) controller 108 accommodated between the inner surface (106) and the outer surface (104), the TC controller 108 including a cooling side (110) within the cooling chamber 102 and a heat dispensing side (112) outside the cooling chamber (102), and a solar energy powered source (120) in electric communication with the TC controller (108). [FIG.I]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012758 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BODY RELAXING SYSTEM FOR DE-STRESSING INDIVIDUAL BODY

(51) International classification	:A61H15/00	(71) <b>Name of Applicant :</b> <b>1)S R ENGINEERING COLLEGE</b> Address of Applicant :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban, Telangana - 506371, India
(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 smart body relaxing system (100) includes a head enclosure (110), a relaxing module (120) and a power generating source (130). The head enclosure (110) includes a plurality of papers glued along each other to configure a space (112) within the head enclosure (110) to accommodate a head of the user. The relaxing module (120) includes rotatable modules (122) and a vibratory arrangement (125). The rotatable modules (122) are distributed along the head enclosure (110) within the space in spaced distance from each other. Each of the rotatable module includes waste plastic bottle caps (123) and a rotating module (124). The vibratory arrangement (125) is coupled to the rotatable modules (122) in the head enclosure (110) placed along selected place based on acupoints in the head. Each of the vibratory arrangement (125) are piezoelectric crystals arranged to act as vibrators. The power generating source (130) powers the relaxing module (120). [FIGS. 1Aand1B]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012759 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMPROVED BIOMEDICAL IMPLANTS USING TITANIUM ALLOY BASED METAL MATRIX COMPOSITE

(51) International classification	:A61L27/00
(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 :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban, Telangana - 506371, India  
Telangana India

(72)Name of Inventor :

1)Dr. MANOWAR HUSSAIN

2)Dr. PANKAJ KUMAR

(57) Abstract :

A) TECHNICAL FIELD [0001] The present invention is generally related to the field of biomedical implants. The present invention is particularly related to improved biomedical implants used in knee and hip joint replacement for Osteoarthritis (OA) patients. The present invention is more particularly related to improved biomedical implants using titanium alloy based metal matrix composite. B) BACKGROUND OF THE INVENTION [0002] Osteoarthritis (OA) is a form of degenerative joint pain caused by wear and tear on joints. The soft bone cartilage in the hip, knee and shoulder joints wear away over the passage of time and the condition becomes very painful. According to the age, the cartilage that cushions the joints starts to wear down, causing the bones to rub together. The bone-on-bone action leads to inflammation of the joints. OA most commonly affects the joints in arms and legs, including fingers, wrists, knees, ankles, and hips. The lower back is also a common source of OA pain. [0003] When OA damages the joints to the point that every movement causes pain, replacing the joint with an implant restores the ability to function pain-free. [0004] However, for many people an artificial joint/implant is not a permanent fix. Joint replacements sometimes fail over time, often necessitating further, more difficult surgeries. The most common issue with implants is metal to metal contact that causes wear and results in loosening or failure of implants. [0005] Hence, there is a need for providing improved biomedical implants that are resistant to any wear and tear. There is also a need for providing biomedical implants that replaces a missing biological structure, supports a damaged biological structure and enhances an existing biological structure with more service life. Still further, there is a need for providing improved biomedical implants (knee and hip joint) using titanium alloy (Ti6Al4V) based metal matrix composite mixed with wear resistant and biocompatible nano cBN/TiC<2 reinforcements. [0006] The above-mentioned shortcomings, disadvantages and problems are addressed herein and which will be understood by reading and studying the following specification. C) OBJECT OF THE INVENTION [0007] The primary object of the present invention is to provide improved biomedical implants that are resistant to any wear and tear. [0008] Another object of the present invention is to provide biomedical implants that replaces a missing biological structure, supports a damaged biological structure and enhances an existing biological structure with more service life. [0009] Yet another object of the present invention is to provide improved biomedical implants (knee and hip joint) using titanium alloy (Ti6Al4V) based metal matrix composite that is mixed with wear resistant and biocompatible nano cBN/TiO2 reinforcements. [0010] Yet another object of the present invention is to provide biomedical implants with density of fabrication close to human bone density. [0011] These and other objects and advantages of the present invention will become readily apparent from the following detailed description taken in conjunction with the accompanying drawings. D) SUMMARY OF THE INVENTION [0012] The various embodiments of the present invention provide a novel composition for the fabrication of implant components. The metal matrix composite (MMC) used for the implants is fabricated using laser sintering process. In order to enhance the service life of the implant existing implants Ti6Al4V is mixed with the wear resistant and biocompatible nano cBN/TiC<2 reinforcements. On the basis of good wettability and bonding between Ti6Al4V and cBN, such composition is considered in the present invention. The method comprises fabricating 3D MMC implant using DMLS (additive manufacturing) process in which a solid body is fabricated by layer by phenomenon where the high-intensity laser is scanned over metal powder bed. This is a laser additive technology for making precise and complex objects. If needed, further optional secondary manufacturing and finishing steps are carried out. A final finished product is thus obtained. [0013] These and other aspects of the embodiments herein will be better appreciated and understood when considered in conjunction with the following description and the accompanying drawings. It should be understood, however, that the following descriptions, while indicating the preferred embodiments and numerous specific details thereof, are given by way of an illustration and not of a limitation. Many changes and modifications may be made within the scope of the embodiments herein without departing from the spirit thereof, and the embodiments herein include all such modifications. E) BRIEF DESCRIPTION OF THE DRAWINGS [0014] The other objects, features, and advantages will occur to those skilled in the art from the following description of the preferred embodiment and the accompanying drawings in which: [0015] FIG. 1 illustrates a schematic depicting cross-sectional view of an implant, according to one embodiment of the present invention. [0016] FIG. 2 illustrates a flowchart depicting a method for fabricating MMC using sintering, according to one embodiment of the present invention. [0017] FIG. 3 illustrates a schematic depicting various implant layers along with square grid inside the implant body, according to one embodiment of the present invention. [0018] Although the specific features of the present invention are shown in separate drawings, it is done for convenience only as each feature may be combined with any or all of the other features in accordance with the present invention. F) DETAILED DESCRIPTION OF THE INVENTION [0019] In the following detailed description, a reference is made to the accompanying drawings that form a part hereof, and in which the specific embodiments that may be practiced is shown by way of illustration. These embodiments are described in sufficient detail to enable those skilled in the art to practice the embodiments and it is to be understood that the logical, mechanical and other changes may be made without departing from the scope of the embodiments. The following detailed description is therefore not to be taken in a limiting sense. [0020] The various embodiments of the present invention provide a novel composition for the fabrication of implant components. The metal matrix composite (MMC) used for the implants is fabricated using laser sintering process. In order to enhance the service life of the implant existing implants Ti6Al4V and cBN, such composition is considered in the present invention. The method comprises fabricating the 3D MMC implant using DMLS (additive manufacturing) process in which a solid body is fabricated by layer by phenomenon where the high-intensity laser is scanned over metal powder bed. This is a laser additive technology for making precise and complex objects. If needed, further optional secondary manufacturing and finishing steps are carried out. A final finished product is thus obtained. [0021] According to one embodiment of the present invention, biocompatible reinforcement like cBN/TiO2 are used as biomaterials along with the key existing and emerging strategies for surface and bulk modification used to improve bio-integration, mechanical strength and flexibility. The density of Ti-alloy and steel that are generally used for making the implant are 4.42 g/cm3 and 8.0 g/cm3 respectively. Use of light and wear resistant reinforcements significantly reduces the density of implants close to the bone density. So, the centre of gravity of human body is retained very close to its original centre of gravity. In this way MMC based implants do not affect the walking behaviour of the patient. [0022] According to one embodiment of the present invention, the nanocomposite of Ti6Al4V with cBN/TiO2 forms the surface of the implants where it is subjected to wear. This portion of the implant is made up of hybrid Metal Matrix Nanocomposites throughout its body or a particular thickness as shown in FIG. 1. E.g. 1-2 mm thick layer is given to minimize the overall cost. [0023] FIG. 2 illustrates a flowchart depicting a method for fabricating MMC using sintering, according to one embodiment of the present invention. The method comprises the steps of mixing Ti6Al4V matrix material powder (202) and reinforcement nanopowder of cBN and TiC<2 (204). The materials are blended together (206). Ti6Al4V being an attractive biocompatible material is taken as matrix and cBN (Cubic Boron nitride)/TiO2 (Titanium dioxide) nanopowder are used as reinforcement. cBN and TiC<2. Both are biocompatible material where cBN acts as wear resistant very hard phase and TiO2 improves the body cell interaction with the implant and has the potential of bone forming and strengthening by mineralization of bone tissue. [0024] According to the required performance, the weight percentage of the reinforcement is taken and mixed throughout the matrix material. The mixture of the power is used to fabricate the 3D MMC implant using DMLS (additive manufacturing) process (208) in which a solid body is fabricated by layer by phenomenon where the high-intensity laser is scanned over metal powder bed. This is a laser additive technology for making precise and complex objects. If needed, further optional secondary manufacturing (210) and finishing (212) steps are carried out. In one example embodiment, it is subjected to grinding and mirror polishing to be used as orthopedic implants. A final finished product is thus obtained (214). [0025] In another example embodiment, the implants are fabricated using cladding. In this method, Ti6Al4V matrix material power and nano reinforcement nanopowder of cBN and TiC<2 powders are taken. As per the required performance of the surface the content of the reinforcement is taken and thoroughly mixed with matrix material to prepare the mixture powder. Using the process of Laser Metal Deposition Process (Cladding) the prepared mixture is deposited on the selected surface up to the required thickness. After deposition of the required material on the surface of the object, it is subjected to grinding and mirror polishing to be used as orthopedic implants. [0026] According to one embodiment of the present invention, the fabrication of implant does not require any binders or additive. Since this implant is placed inside the body, so the use of binders are avoided due to contamination of the constituents of the implants as well as the toxicity to the body cell. In this process, matrix and reinforcement material powder are taken and mixed thoroughly. During the DMLS process, the reinforcement particles get embedded when high-intensity laser beam melts the matrix material for a very short period of time. [0027] According to one embodiment of the present invention, the development of MMC using present invention involves the addition comparatively low-density reinforcement like cBN (3.48 g/cm3) and HO2 (4.23 g/cm3) which ultimately drag the overall density of the fabricated MMC. The density of MMC depends upon the quantity of the reinforcement added in the matrix. At 15% w/w cBN in Ti6Al4V gives density of around 4.25 g/cm3. Moreover, the use of proper input process parameters of laser such as laser power, scanning speed, hatching gap etc., the overall density of the implants can be further reduced to a greater extent without compromising the strength of the implants. [0028] According to one embodiment of the present invention, the concept of fabrication of implants using the method of present invention significantly reduces the overall density of the implants as mentioned above. The dimension of square grid inside the body can be controlled according to the part of the human bone to be replaced which is based upon the kind and magnitude of load it will be subjected. FIG. 3 illustrates a schematic depicting various implant layers along inside the implant body, according to one embodiment of the present invention. [0029] According to one embodiment of the present invention, the density of implants currently available in the market (mainly composed of Ti6Al4V) is usually 4.42 g/cm3. However, density of 4.25 g/cm3 is obtained using the implants composed of the consolidated MMC. Density close to human bone density is achieved by controlling the laser input parameters during the fabrication of the implant. Average density of the human bone is 1.85 g/cm3. [0030] The foregoing description of the specific embodiments will so fully reveal the general nature of the embodiments herein that others can, by applying current knowledge, readily modify and/or adapt for various applications such as specific embodiments without departing from the generic concept, and, therefore, such adaptations and modifications should and are intended to be comprehended within the meaning and range of equivalents of the disclosed embodiments. [0031] It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. Therefore, while the embodiments herein have been described in terms of preferred embodiments, those skilled in the art will recognize that the embodiments herein can be practiced with modifications. G) ADVANTAGES OF THE INVENTION [0032] The various embodiments of the present invention provide a method for fabricating MMC using sintering. This novel material composition is used for fabrication of implants components. The improved tribological properties of the MMC implants provide more service life and rate of failure is reduced as compared to the existing biomedical implants. The fabricated samples are wear resistant biocompatible material to avoid failure of implants in human body that cause component loosening. The overall density of fabricated MMC implants is achieved to be close to the density of human bones. Since the walking behaviors of person also depend on the location of the centre of gravity of the body and in this way the present invention minimizes the disturbance of the centre of gravity of the body. [0033] Further, the MMC composition is suitable for use in biomedical industry (Implants), automobile industry (Wear resistant components such as brakes, engine cylinder etc.), aerospace industry (Light and wear resistant components) and the like. [0034] The foregoing description of the specific embodiments will so fully reveal the general nature of the embodiments herein that others can, by applying current knowledge, readily modify and/or adapt for various applications such as specific embodiments without departing from the generic concept, and, therefore, such adaptations and modifications should and are intended to be comprehended within the meaning and range of equivalents of the disclosed embodiments. [0035] It is to be understood that the phraseology or terminology employed herein is for the purpose of description and not of limitation. Therefore, while the embodiments herein have been described in terms of preferred embodiments, those skilled in the art will recognize that the embodiments herein can be practiced with modifications. However, all such modifications are deemed to be within the scope of the claims. We Claim: 1. A method for fabricating Metal Matrix Composite (MMC) implant, the method comprises: mixing Ti6Al4V matrix material powder and reinforcement nanopowder of cBN and TiO2; fabricating a 3D MMC implant using DMLS (additive manufacturing) or cladding process and carrying out optional secondary manufacturing and finishing processes to obtain the MMC implant. 2. The method according to claim 1, wherein addition of light and wear resistant reinforcements reduces the overall density of implants close to the bone density, and wherein adding wear resistant reinforcements also reduces the failure rate of the implants. 3. The method according to claim 1, wherein the elemental or alloy metal powders used for blending comprises Ti-alloy. 4. The method according to claim 1, wherein the density of implant fabricated using the MMC is about 4.25 g/cm3 and can be further reduced under different laser input process parameters. The present invention provides a method for fabrication of Metal Matrix Composite (MMC) using laser sintering process. The MMC fabricated is used in various applications such as biomedical implants that replaces a missing biological structure, supports a damaged biological structure and enhances an existing biological structure with more service life. The implants are fabricated using titanium alloy (Ti6Al4V) based metal matrix composite that offer density of fabrication close towards human bone density. The method comprises mixing elemental or alloy metal powders with one or more reinforcements. The fabricated samples are wear resistant biocompatible material to avoid failure of implants in human body that cause component loosening. [FIG.]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012760 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SILICA BASED BINDER COMPOSITION FOR SOIL STABILIZATION AND ENHANCING PAVEMENT LOAD BEARING CAPACITY OF ROADS

(51) International classification	:B22C1/00	(71) <b>Name of Applicant :</b> <b>1)S R ENGINEERING COLLEGE</b> Address of Applicant :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban, Telangana - 506371, India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	Telangana India
Filing Date	:NA	
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. R. GOBINATH</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a soil stabilization composition for enhancing load bearing capacity of a soil sample. The composition comprises fly ash, GGBS, precipitated silica, Calcium chloride, calcium dichloride, a predetermined amount of cement, lime, rice husk ash, montmorillonite shale and silica fume. The plurality of compositions are synthesized by mixing a predetermined amount of fly ash, ground granulated blast furnace slag (GGBS), precipitated silica, calcium chloride, calcium dichloride, cement, lime, rice husk ash, montmorillonite shale and silica fume. The black cotton soil samples are treated with the plurality of soil stabilization compositions. The black cotton soil samples treated with the plurality of soil stabilization compositions are analyzed for compaction characteristics, California bearing ratio, North Dakota analysis, effective stress footing analysis and deformed numerical analysis. The soil sample is black cotton soil. The plurality of compositions increases the load bearing ratio of the black cotton soil by 90%.

[FIG.1A]

No. of Pages : 37 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2019

(21) Application No.201941012833 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A LINEARLY PROCESSED FILTER BANK MULTICARRIER (FBMC) WITH MODIFIED DISCRETE FOURIER TRANSFORM FOR WIRELESS COMMUNICATION

(51) International classification

:H04L27/00

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

: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

(71)Name of Applicant :

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(72)Name of Inventor :

**1)KOMMABATLA MAHENDER  
2)Dr. I. RAJASRI REDDY  
3)RANJITH KUMAR MARRIUKKALA**

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(57) Abstract :

The present invention provides a system and method for data transmission using linearly processed Filter Bank Multicarrier (FBMC) with modified discrete Fourier transform. Here, FBMC along with modified Discrete Fourier Transform (DFT) is used which is further cascaded with a polyphase network. DFT process is implemented to reduce the PAPR problem that occurs in existing technologies by spreading symbols in frequency band. A modification of DFT is used in which one symbol is spread across half of subcarriers and connecting it to polyphase network structure with filter banks. The filter banks are used to reduce Out-Of Band emissions. A FBMC-OQAM transmitter is used to transmit data over wireless network. An equalizer present at receiver rectifies received data. Output of channel equalizer is connected to PPN at receiver which is fed into a Novel Inverse DFT (IDFT) which works reverse to the operation of modified DFT and generates time domain signal. [FIG.1]

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2019

(21) Application No.201941012834 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUTOMATED COMMODITY USAGE MONITORING, REPORTING, AND REPLENISHMENT SYSTEM

(51) International classification	:G06Q10/00	(71) <b>Name of Applicant :</b> <b>1)S R ENGINEERING COLLEGE</b> Address of Applicant :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)B. GIRIRAJAN</b>
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 automated commodity usage monitoring, reporting, and replenishment system (100) for determining the usage of commodity, the automated commodity usage monitoring, reporting, and replenishment system (100) comprising a commodity container (102) storing a commodity (104), a support (106) including a weight sensor (108) to measure commodity usage of the commodity based on the weight of the commodity container (102) positioned on the support (106) and a fuel consumption and replenishment application (116) displaying the measured commodity usage and auto-replenishing the commodity when the measured commodity level is below a threshold level. [FIG. 1]

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/03/2019

(21) Application No.201941012837 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SEMI-AUTOMATED PIRN WINDING APPARATUS FOR WINDING BANANA FIBRE ON MULTIPLE PIRNS

(51) International classification	:B65H1/00	(71) <b>Name of Applicant :</b> <b>1)S R ENGINEERING COLLEGE</b> Address of Applicant :S R Engineering College, Ananthsagar, Hasanparthy (M), Warangal Urban Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. V. MAHESH</b>
(87) International Publication No	: NA	<b>2)K KIRAN</b>
(61) Patent of Addition to Application Number	:NA	<b>3)P.V RAMANA RAO</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A semi-automated pirn winding apparatus including a traverse guide member and tensioning devices, and a method for winding banana fibre on multiple pirns, are provided. On activation of an electric motor, a pulley system rotates the pirns to facilitate progressive winding of the banana fibre from a conical base to a tip of each pirn. A linkage system pivotally moves the traverse guide member in forward and backward directions in operable communication with a cam and a gear assembly. The cam and the gear assembly vary a chase length of the traverse guide member and move the traverse guide member in both directions across the chase length to facilitate the progressive winding of the banana fibre on an entire length of each pirn. The tensioning devices create a uniform tension in the progressively wound banana fibre and preclude unwinding of the banana fibre after joining of the banana fibre. [FIG. 1A]

No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049250 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BIDIRECTIONAL THERMOELECTRIC ENERGY GENERATOR BASED ON A PHASE-CHANGE LENS FOR CONCENTRATING SOLAR POWER

(51) International classification	:H02S10/10	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Anitha Sampathkumar</b>
(87) International Publication No	: NA	<b>2)Dr.S.Prakash</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Bidirectional thermoelectric energy generator based on a phase-change lens for concentrating solar power A bidirectional thermoelectric energy generator (TEG) with double type lenses for concentrating solar power is disclosed. When solar power is applied to the TEG, solar energy is concentrated by PMMA lens firstly. The concentrated energy is absorbed as heat energy through phase-change of phase change material (PCM). And then, the liquid PCM lens focuses energy on the TEG. After removing energy source, the latent heat in PCM is released. Therefore, the proposed TEG generates energy steadily.

No. of Pages : 7 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049255 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LOW COST BLUETOOTH GREEN HOUSE MONITORING

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(51) International classification	:G06Q30/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)BHARATH UNIVERSITY</b>
(32) Priority Date	:NA	Address of Applicant :173, Agharam Road, Selaiyur, Chennai
(33) Name of priority country	:NA	600 073 Tamil Nadu India
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)K.Sivaraman</b>
(87) International Publication No	: NA	<b>2)Dr.V.Khanaa</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.C.Rajabhusanam</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Low cost Bluetooth green house monitoring This invention discloses a design of a multi-sensor integrated system for wireless monitoring of greenhouse environment. The built system has four sensor stations and communicates with the coordinator station using RSSI bluetooth modules.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049269 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WSN SMART BOOKING PARKING SYSTEM

(51) International classification	:G06Q10/00	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Mrs. Saravana</b>
(87) International Publication No	: NA	<b>2)Dr.S.Arulselvi</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

WSN smart booking parking system This invention presents a miniature model of an automated car parking system that can regulate and manage the number of cars that can be parked in a given space at any given time based on the availability of the parking spot. In this android application, slots can be booked for parking the vehicle. Booking can be done in three ways as Current booking, Advanced booking and Direct booking. Online payment can be done for the booked slots using the android application. There is an RFID (Radio-frequency Identifier) that is used for confirming that the booked vehicle has arrived in the particular slot. Radio frequency identification (RFID) uses the electromagnetic fields to transfer data automatically by identifying and tracking the attached objects. The IR sensors are used to detect the availability of the slots.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201941023480 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : INTELLIGENT PSO-FUZZY LOGIC BASED DC MOTOR CONTROL SYSTEM AND METHOD THEREOF

(51) International classification	:H04N21/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1) <b>Dr. Sachi Nandan Mohanty</b>
(32) Priority Date	:NA	Address of Applicant :Associate Professor Department of Computer Science & Engineering FST, ICFAI Foundation for Higher Education, Hyderabad, India Telangana India
(33) Name of priority country	:NA	2) <b>Mr. Udit Mamodiya</b>
(86) International Application No	:NA	3) <b>Dr. A. SURESH KUMAR</b>
Filing Date	:NA	4) <b>Dr. Debabrata Samanta</b>
(87) International Publication No	: NA	5) <b>Dr. Vishal Jain</b>
(61) Patent of Addition to Application Number	:NA	6) <b>Dr. Jayanta Biswas</b>
Filing Date	:NA	7) <b>Dr. T. V. Ramana</b>
(62) Divisional to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1) <b>Dr. Sachi Nandan Mohanty</b>
		2) <b>Mr. Udit Mamodiya</b>
		3) <b>Dr. A. SURESH KUMAR</b>
		4) <b>Dr. Debabrata Samanta</b>
		5) <b>Dr. Vishal Jain</b>
		6) <b>Dr. Jayanta Biswas</b>
		7) <b>Dr. T. V. Ramana</b>

(57) Abstract :

The present invention present an intelligent PSO based DC motor control System and method thereof. The system for intelligent control of a DC motor, comprises a PID controller, and Particle Swarm Optimization Control unit, a PSO tuning algorithm & fuzzy logic control unit. The present system and method disclosed novel & efficient control techniques with using PSO algorithm and fuzzy logic techniques for DC motor control using a PID controller with solving problems of efficient control the prior arts Refer to Figure 2.

No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/06/2019

(21) Application No.201941023559 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROSTHETIC CARDIAC IMPLANT

(51) International classification	:A61F2/00	(71) <b>Name of Applicant :</b> <b>1)CHANDRAMOULI HONNAVALLI CHANDRASHEKAR</b> Address of Applicant :C/o H.G. Chandrasekhar, 721, 14th Main, 19th Cross, Shri Lakshmi Nrusimha Priya, BSK 2nd stage, Bangalore Karnataka India
(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	(72) <b>Name of Inventor :</b> <b>1)CHANDRAMOULI HONNAVALLI CHANDRASHEKAR</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

PROSTHETIC CARDIAC IMPLANT. The device (300) for use in total cavopulmonary connection comprises a hollow body (302), embedded within the cavity of which is a flow separator (308). The hollow body (302) comprises a first end (304) that is configured to receive blood from inferior vena cava (IVC) and a second end (306) configured to be connected to pulmonary artery. Further, the flow separator (308) aids in guiding blood from IVC and superior vena cava (SVC) to right pulmonary artery and left pulmonary artery. The flow separator (308) comprises an inferior end (402) and a superior end (404). The inferior end (402) is located between the first end (304) and the second end (306) of the hollow body (302). The flow separator (308) is dimensioned to have the superior end (404) enter SVC when the second end (306) is connected to the pulmonary artery. Reference Figure: Figure 3 Dated this 14th day of June 2019 (Digitally signed) Kartik PUTTAIAH Patent agent of the Applicants (IN/PA-1809)

No. of Pages : 39 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/12/2018

(21) Application No.201841048020 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : 'DIVYA SAI TEJ CANCER PREVENTIVE'

(51) International classification	:A61K 8/97	(71)Name of Applicant : <b>1)Dr.N.CHANDRANATH SINGH</b> Address of Applicant :DOOR NO: 558 CHELUVAMBA AGRAHARA, K.R MOHALLA, MYSORE Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72)Name of Inventor : <b>1)Dr.N.CHANDRANATH SINGH</b>
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 ayurvedic nutraceutical formulation for the prevention of cancer by providing medication as food supplement, considering tea, cookies, atta as potential options, for controlling and reconstructing broken cancer cell lines. The present invention deals with a novel ayur herbo-mineral nutraceutical formulation for the prevention of non-healing Cancer viz Vocal Chord, Oesophagus Cancer, Hepato Cellular Carcinoma (Large Intestine to Matastatas to Liver) Uterine Fibroids, Colon Cancer with Metastatas in Ureter, Rectum and lower ureters and Brain Tumor. Even though wide range of dressings are commercially available, they have been reported to have side effects on long term use. As an alternative approach to overcome these side effects, natural products have been used for preparation of a novel formulation. The use of natural products in the manufacture, is gaining wide acceptance because of their minimal side effects. Classical Ayurvedic texts have cited various formulations; research on these formulations helps develop novel and effective medication. The current invention includes the pharmaceutical modification of classical Ayurvedic formulations into a novel, user-friendly, and effective ayur herbo-mineral ayur herbo-mineral nutraceutical formulation in the treatment of cancer.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/03/2019

(21) Application No.201941012326 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A NOVEL SYSTEM TO GENERATE PURE DRINKING WATER FROM ATMOSPHERE THROUGH THE PROCESS OF BIO-MIMICRY

(51) International classification	:B01D5/00	(71) <b>Name of Applicant :</b> <b>1)DR KUMAR LOGANATHAN</b> Address of Applicant :OLD NO. 22, NEW NO. 41, SOUTH SIVAN KOIL STREET VADAPALANI, CHURCH ROAD, CHENNAI-600 026. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)DR KUMAR LOGANATHAN</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention relates to the production of clean water. The object of the present invention is to provide a system, which enables the generation of pure water from the moisture in the atmosphere; it is cost effective and generates higher output with less electricity.

No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201941022847 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED AUTOMATED MUSIC COMPOSING MODEL

(51) International classification	:G10H1/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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 :**

**1)MVGR College of Engineering (Autonomous)**

Address of Applicant :Maharaja Vijayaram Gajapathi Raj

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Chinthalavalasa, Vizianagaram-535005 Andhra Pradesh, India

Andhra Pradesh India

**(72)Name of Inventor :**

**1)Dr.P.Srinivasa Rao**

**2)Sushma Rani N**

**3)T.Prasanth**

**4)Dr.V.Nagesh**

**5)Dr.R.Ramesh**

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**(57) Abstract :**

Artificial Intelligence Based Automated Music Composing Model The proposed disclosure provides an automated music composing model that composes tunes automatically based on previous records more accurately and efficiently through artificial intelligence and neural networks. The automated composing model comprises a parameter input means, an analyzing means, a weight assigning means, a beat predicting means, a comparing means, a value obtaining means and a tune generating means. The model predicts the attributes through machine learning algorithms that are used to generate a song or tune based on previous records. The music composing model allows to select major attributes such as theme of the movie, the movie director, the current trend, cast of the movie, audience expectations that are required. Therefore, the proposed disclosure helps in decreasing the time to a minimal level to create a music album and preserves the music composer™s benchmark and increase the level of a particular industry.

No. of Pages : 18 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201941023013 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BUSINESS SENDER APPLICATION SPECIFICATION

(51) International classification	:H04L5/00	(71) <b>Name of Applicant :</b> <b>1)Rajesh.K</b> Address of Applicant :Iskcon Form Melapura Road, Mahadevpura Village, Srirangapatna, Mandya District, Mysore Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Rajesh.K</b>
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 broadcasting of message to the plurality of end users through wireless communication mode in order to promote the business notifications and alerts; The present invention is business Application which is integrated with a message apps which helps the vendor to send the business notification to it customers without adding the number of each and every individual. The present business Application provides the vendor to promote and advertise its business is a very cost effective and time saving method. As the reach of online communication is increasing day by day it is necessary for every business vendor to stay in touch with their customer and constantly update them about the new arrivals or offers, this software allow the vendor to carry out its business promotion/advertising notification without any geographical barrier.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2019

(21) Application No.201941003592 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A THERMAL MANAGEMENT SYSTEM FOR A BATTERY PACK AND A METHOD FOR OPERATING THE SAME

(51) International classification	:H01M8/00	(71) <b>Name of Applicant :</b> <b>1)Mahindra Electric Mobility Limited</b> Address of Applicant :66-69, 72-76, Bommasandra Industrial Area, 4th Phase, Jigani Link Road, Bangalore Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	(72) <b>Name of Inventor :</b> <b>1)Ghazanfar Khan</b> <b>2)Vijay Kumar</b> <b>3)Manuel Tholath</b> <b>4)Chandrasekaran N</b> <b>5)Naveen Kumar</b> <b>6)Suman Basu</b> <b>7&gt;Allabaksh Naikodi</b>
(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 :

A thermal management system for a battery pack is disclosed. The present disclosure includes an air distribution unit which further includes at least one vertical duct configured to receive air from one or more cooling sources. The air distribution unit also includes at least one manifold coupled to at least one vertical duct. At least one manifold is configured to direct air received from the at least one vertical duct. The air distribution unit further includes a plurality of horizontal ducts coupled to at least one manifold. Each of the plurality of horizontal ducts includes a plurality of holes which are aligned with a plurality of cells of the battery pack. Each of the plurality of horizontal ducts are configured to propel a stream of air to the each of the plurality of cells through the plurality of holes for thermal management of the battery pack.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201941023101 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SIMULTANEOUS ATMOSPHERIC OXY FARMING VEGETABLE, FRUITS, SHEAP, GOAT & CHICKEN

(51) International classification	:A01B61/00	(71) <b>Name of Applicant :</b> <b>1)STEPHEN JOHN</b> Address of Applicant :#36, GOLDEN DEW, VENNELA, ERNAKULAM, KERALA, INDIA - 682028 Kerala India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	(72) <b>Name of Inventor :</b> <b>1)STEPHEN JOHN</b>
(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 :

Accordingly, Simultaneous production of high quality oxy-vegetables at a height of 18 feet in the atmosphere above the surface soil with an infrastructure and surface soil, crops or elephant grass during conditions of flood or drought by innovative methods of farming which, to the say the least, offers a comprehensive protection from the Global Warming heat radiation and vagaries of weather changes brought about by it are the salient features of the claim An infrastructure for the simultaneous Oxy farming in which there is a production and harvest of some land crops and in the same piece of land there is a production and harvest of Oxy vegetables for 12 months with an yield of vegetables seven times that which can be obtained from just one acre land, which means that one acre land produces vegetables of the quantities which can be obtained from seven acres of land in conventional method of farming. This is the new innovative farming method of the 21st century. 10x2 feet Coconut fibr container hanging upon earth with the circulating 21% of atmospheric oxygen which provides sufficient large pore space to allow oxygen to penetrate into the deepest areas of roots.

No. of Pages : 18 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201941023313 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND METHOD TO MONITOR AND CONTROL SPEED OF A VEHICLE

(51) International classification	:G08G1/00	(71) <b>Name of Applicant :</b> <b>1)GOMPA JYOTHIRMAYI</b> Address of Applicant :W/O GOMPA RAVINDRA BABU, 4-7-39/3/4/2, TANOSHI VILLA, MARUTI NAGAR, ATTAPUR, HYDERABAD Telangana India
(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	(72) <b>Name of Inventor :</b> <b>1)GOMPA JYOTHIRMAYI</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system to monitor and control speed of a vehicle is provided. The system includes a processing subsystem. The processing subsystem includes a parameter detection module, configured to detect a plurality of vehicular parameters and a plurality of roadway condition parameters. The processing subsystem also includes a speed determining module, configured to calculate a speed limit for the vehicle after analysing the plurality of vehicular parameters and the plurality of roadway condition parameters by an analysing technique. The processing subsystem also includes a speed monitor module, configured to monitor speed of the vehicle based on analysed speed result in real time. A memory subsystem is operatively coupled to the processing subsystem and configured to store detected plurality of vehicular parameters, detected plurality of roadway condition parameters and the analysed speed result. In present disclosure physical parameters of the vehicle are taken into consideration while determining the speed in real time. FIG. 1

No. of Pages : 20 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201941023462 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN APPARATUS AND METHOD OF MEASURING THE MUSCLE STRENGTH

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(51) International classification	:A61B5/22	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)DR. MGR EDUCATIONAL AND RESEARCH</b>
(32) Priority Date	:NA	<b>INSTITUTE</b>
(33) Name of priority country	:NA	Address of Applicant :MADURAVOYAL, CHENNAI - 600
(86) International Application No	:NA	095, TAMIL NADU, INDIA Tamil Nadu India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)V.RAJALAXMI</b>
(61) Patent of Addition to Application Number	:NA	<b>2)P.BHARATH KUMAR</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

An apparatus and method of increasing the strength of intrinsic muscles {toes}, plantar flexors, dorsiflexors, invertors and evertors of foot as a whole. An intrinsic foot muscles can also be strengthened using the apparatus based on the movements performed by the patients. The biomedical apparatus has a dial (105) embedded in it which provides visual feedback of the strength measured. (Fig.1)

No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2018

(21) Application No.201841025556 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM AND METHOD FOR CHARGING AN ENERGY STORAGE UNIT

(51) International classification	:H02J 7/00	(71) <b>Name of Applicant :</b> <b>1)ATHER ENERGY PVT. LTD</b> Address of Applicant :IBC Knowledge Park, Bannerghatta Main Road,Bengaluru, Karnataka - 560029. Karnataka India
(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 [100] of charging an energy storage unit having a plurality of cells, the method [100] comprising: charging, by a power conditioning module, the plurality of cells at a first constant current; charging, by the power conditioning module, the plurality of cells at a second constant current, wherein the plurality of cells is charged until a voltage level of the plurality of cells reaches a second voltage, and the second current is greater than the first current; charging, by the power conditioning module, the plurality of cells at a third constant current, wherein the plurality of cells is charged until the voltage level of the plurality of cells reaches a third voltage, the third voltage is greater than the second voltage, and the third current is lesser than the second current; and constantly charging, by the power conditioning module, the plurality of cells at the third voltage, wherein the plurality of cells is charged until a current level of the plurality of cells reaches a fourth current, and the fourth current is lesser than the first current.

No. of Pages : 15 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2019

(21) Application No.201941003789 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN APPARATUS FOR DETECTION OF GAS LEAKAGE

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(51) International classification	:G01M3/26
(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 :

**1)REDDY, Gadila Prashanth**

Address of Applicant :BHEL MIG 1712, Serilingampally,  
Hyderabad 500019, Telangana, India. Telangana India

(72)Name of Inventor :

**1)REDDY, Gadila Prashanth**

**2)LEBURU, Rangaiah**

**3)K. Madhavi**

**4)PERURU, Praneel Kumar**

**5)R. Balakrishna**

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(57) Abstract :

Embodiments of the present disclosure relates to an apparatus for detection of gas leakage including a knob position identification unit that confirms whether position of a knob of a LPG cylinder is in ON state and one or more temperature sensors that are positioned near a burner that is operatively coupled with the LPG cylinder. The one or more temperature sensors being configured to, upon confirmation that the position of the knob is in ON state, determine a temperature profile using at least one microcontroller such that if the determined temperature profile is constant low for a period greater than a first time duration, a gas leakage is confirmed.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/04/2019

(21) Application No.201941013459 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM FOR CONFERENCE CALLING AND A METHOD THEREOF

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(51) International classification	:H04L12/00	(71) <b>Name of Applicant :</b> <b>1)KP NOUFAL</b> Address of Applicant :DARUTHOUHEED, KARIKKUM PURATH HOUSE PAREL, THOOCHA POST, MALAPPURAM DIST, KERALA - 679357. Kerala India
(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 for conference calling is disclosed. The system includes a registration subsystem configured to enable one or more customers to register on a platform, a unique number allocation subsystem configured to allocate at least one unique number to one or more registered customers for conference calling, a call initiation subsystem configured to transfer one or more contacts from the platform to a communication server through an application server upon selection of the one or more contacts by one or more registered customers on the platform; initiate the call by dialling at least one allocated unique number using a mobile communication network, a conference call creation subsystem configured to enable the communication server to create a conference call by connecting one or more selected contacts upon initiation of a single outbound call by the one or more registered customers. FIG. 1

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/06/2019

(21) Application No.201941024657 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A PROCESS FOR THE BIOSYNTHESIS OF BINARY HETEROJUNCTION SEMICONDUCTOR NANOSTRUCTURES FOR ANTIMICROBIAL AND ANTICANCER ACTIVITY

(51) International classification	:A61K31/00	(71) <b>Name of Applicant :</b> <b>1)Dr. GUTTENA VEERABHADRAM</b> Address of Applicant :Department of Chemistry, University College of Science, Osmania University, Hyderabad, Telangana state-500007, INDIA Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	(72) <b>Name of Inventor :</b> <b>1)Dr. DASARI AYODHYA</b> <b>2)Dr. GUTTENA VEERABHADRAM</b> <b>3)Dr. KOTU GIRIJA MANGATAYARU</b> <b>4)Dr. MARRI PRADEEP KUMAR</b> <b>5)Dr. GUGULOTH RAVI</b>
(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 :

The present invention relates to a green method for biosynthesis of binary heterojunction semiconductor metal sulfide nanostructures using modified natural gums (A@MxSy/Au, M = Zn, Cd, Cu, Ag and Bi; x < 2; y < 3; A = modified natural gums) such as CMGK@ZnS/Au, CMGK@CdS/Au, CMGK@CuS/Au, , CMGK@Ag2S/Au, and CMGK@Bi2S3/Au nanostructure; more particularly the present invention relates to a method for capping of nanoparticle surfaces from precious metal salt solutions and sulfur sources by using i biomolecules (modified natural gums such as carboxymethyl gum kondagogu (CMGK); carboxymethyl xanthan gum (CMXG); carboxymethyl guar gum (CMGG) and carboxymethyl katira gum (CMKG)), which are natural renewable sources. The present invention further relates to study the antibacterial and antifungal activities of gram positive and gram negative bacteria and fungi; as well: as the anticancer studies of these binary heterojunction semiconductor nanostructures involve the investigation on HeLa (Human cervical cancer) cells and interaction at different pH with Doxorubicin.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/10/2018

(21) Application No.201841040956 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TENDER COCONUT PUNCHING CUM CUTTING MACHINE

(51) International classification	:A23N1/00	(71) <b>Name of Applicant :</b> <b>1)BALAKRISHNAN THAMPI RAMESH</b> Address of Applicant :SCHOOL OF LIFE SCIENCES, RAJAGIRI COLLEGE OF SOCIAL SCIENCES, KALAMASSERY, KOCHI, KERALA - 683 104. Kerala India
(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 simple and low cost punching cum cutting machine has been developed. The invention relates to a machine that can be used in a quite easy way for both punching and cutting of Tender coconuts in a hygienic way without much human effort. The machine has several uniqueness. It is low cost when compared to any other machine performing the same function. The machine is manually operable and offers optimum hygiene besides provision for filtering and bottling of tender coconut water in a quite easy way. It will not create any problem due to the scattering of tender coconut husk parts on cutting as in the case of conventional tender coconut cutting machines. In that sense it is eco-friendly, highly durable and involving low maintenance charges. This machine avoids the time consuming work of tender coconut vendors and those who are involved in supply of tender coconut water. The machine consists of a Stainless Steel (S.S) pipe having a length of 27.5 inches with a perforated, pointed punching part on one end and a cutting part on the opposite side below the punching part. The tender coconut is placed on a Stainless Steel mounting stand, which is circular and hollow in shape with a diameter of 4.5 inches and a height of 9 inches with the lower portion bend outside for providing more grip to the surface at the time of cutting. 0.5 mm Stainless Steel plates were used for the lower portion of the stand 0.25 inch size of Stainless Steel pipes were used for making the upper circular portion. This machine is low cost without any complicated parts or complex operations, compared to any of the devices available in the market/Chances of getting injuries during operation is very low. It is easy to carry, eco-friendly, highly durable and involving low maintenance charges. It enable one to establish one's own micro-enterprise with a very low investment. Even an unskilled person can operate it and the uniqueness of the machine is that it is a single machine having multiple operations instead of using separate machine for punching and cutting.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/06/2019

(21) Application No.201941025786 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MOBILE PLATFORM FOR WIND TURBINES

(51) International classification	:F03D9/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)MANIARASAN SETHU</b>
(32) Priority Date	:NA	Address of Applicant :7/20 ANNA MAIN ROAD, MGR
(33) Name of priority country	:NA	NAGAR, AGARAMTHEN, CHENNAI, TAMIL NADU, INDIA-
(86) International Application No	:NA	600126 Tamil Nadu India
Filing Date	:NA	<b>2)SHIVA RAHUL TUMMALA</b>
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)MANIARASAN SETHU</b>
Filing Date	:NA	<b>2)SHIVA RAHUL TUMMALA</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An arrangement 200 for mobile platform in a wind turbine is disclosed. The arrangement 200 includes a safety fence arrangement 300 having a service floor 301, service personnel 306 and safely fence structure 302 attached to the mobile structure 201 through retractable cylinder 307. The retractable cylinder 307 enables the safety fence arrangement 300 to move up and down. The roller system 310 in the arrangement 300 enables it to travel throughout the length of the mobile structure 201. Another roller system 204 attached to mobile structure 201 enables the arrangement 200 to travel throughout the length of the nacelle.

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/06/2019

(21) Application No.201941025859 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : DESIGN AND IMPLEMENTATION OF HEAT EXCHANGE EQUIPMENT FOR POWER PLANT

(51) International classification	:F28D7/00	(71) <b>Name of Applicant :</b> <b>1)Dr.NAVEEN KILARI</b> Address of Applicant :VEMU Institute of Technology, Chittoor, Andhra Pradesh, INDIA-517112 Andhra Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Dr.NAVEEN KILARI</b>
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 geothermal power plant is injected into injection wells. The brine injected commonly has a temperature higher than 100°C and mass rate near 100 ton/hr. The fast calculation shows the content of removed energy is around 100 millions of watts. Recover to waste energy through binary cycle plant technology. In organize to review the implementation above technology has developed 2kW model BPPT using thermal energy brine. The power cycle consist of vaporization, a turbine generator and feed pump. Other equipment is cooling tower to serve the condenser cooling water. From design analysis the heat exchanger apparatus to be used are 58.31 kW shell and tube evaporator, 53.68 kW shell and tube condenser. The turbine design is single-stage impulse turbine with five convergent nozzles, 382.3 mm rotor diameter, 60 blades, 16.5 mm height of blade, and 10 mm width of blade. This turbine is designed to operate at 3000 rpm and 65.6% turbine efficiency. Experimental result showed that the system has successfully produced 1.2 kW.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/04/2018

(21) Application No.201841016173 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN APPARATUS AND METHOD FOR ORGANISED DISPENSING OF MEDICINES

(51) International classification	:G07F 11/00	(71) <b>Name of Applicant :</b> <b>1)SATHISH KUMAR L</b> Address of Applicant :Kumaraguru College of Technology Chinnavedampatti, Coimbatore Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	<b>2)SHARMILA S</b>
(87) International Publication No	: NA	<b>3)SRINATH</b>
(61) Patent of Addition to Application Number	:NA	<b>4)AJEETH MURALIDHARAN</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(62) Divisional to Application Number	:NA	<b>1)SATHISH KUMAR L</b>
Filing Date	:NA	<b>2)SHARMILA S</b>
		<b>3)SRINATH</b>
		<b>4)AJEETH MURALIDHARAN</b>

(57) Abstract :

The present invention discloses an apparatus and method for organised dispensing of medicines through a mobile app that reminds the user to take right dosage of right pill on time. The apparatus comprises a chamber assembly (3) comprising one or more chambers (4) for accommodating the pills to be dispensed and a processor (16) programmed with the algorithm to control the operation of the apparatus for dispensing the medicine and the sensors provided to sense the presence / absence of the pill and to send alert to the patient as message display in a television monitor or audio through speaker. The identified family members receive alert in case the dispensed pill is not taken from the apparatus within stipulated time. The apparatus updates all the information about the patient to the mobile app for the generation of a medical profile. FIGURE -2

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/06/2019

(21) Application No.201941025109 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SMART SOCAR WACK WAY FOR ENERGY GENERATION

(51) International classification	:H02N2/00	(71) <b>Name of Applicant :</b> <b>1)Dr. V. JAIGANESH</b> Address of Applicant :4/710, JEACHERS COLONY, 1ST AVENUE, POOGA NAGAR, TURUVALLUR-CHENNAI-602001, TAMILNADU, INDIA. Tamil Nadu India <b>2)N. NAGABHOOSHANAM</b>
(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	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. V. JAIGANESH</b>
Filing Date	:NA	<b>2)N. NAGABHOOSHANAM</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The solar power harvesting is enormously increased every day because it is renewable energy power source. The foot path available in most of place it is used only as walk way. The foot path is replaced with the solar panel {1} and the other sensors which are accommodated increase the efficiency of panel by cleaning and cooling at the proper intervals. The foot path is capable of power generation during day as well as in night by the glowing lamps during night time and day time by the sunrays.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/06/2019

(21) Application No.201941025298 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SURFACE MODIFIED BENZYL QUINOLONE CARBOXYLIC ACID- STEARYLAMINE CONJUGATES FOR MANAGEMENT OF ALZHEIMER<sup>TM</sup>S DISEASE

(51) International classification	:C07D401/00	(71) <b>Name of Applicant :</b> <b>1)JSS Academy of Higher Education &amp; Research</b> Address of Applicant :Sri Shivarathresshwara Nagar, Mysuru-570 015, Karnataka, India. Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	(72) <b>Name of Inventor :</b> <b>1)KRISHNAMURTHY, Praveen Thaggikuppe</b> <b>2)CHINTAMANENI, Pavan Kumar</b> <b>3)PINDIPROLU, Satya Sesha Sai Kiran</b>
(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 :

Disclosed herein is stable nanoparticle of surface modified M1 muscarinic acetylcholine positive allosteric modulator complex comprising Benzyl quinolone carboxylic acid (BQCA)Stearylamine conjugate with improved lipophilicity and brain bioavailability for the management of Alzheimer<sup>TM</sup>s disease and to the process for preparation thereof. The invention further relates to pharmaceutical composition comprising the nanoparticle of surface modified BQCA-stearylamine conjugate alone or in combination with AChE inhibitor, Donepezil for management of Alzheimer<sup>TM</sup>s disease.

No. of Pages : 44 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/06/2019

(21) Application No.201941025344 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUTOMATED INTELLIGENT INVESTMENT STRATEGY

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(51) International classification	:G06Q40/06	(71) <b>Name of Applicant :</b> <b>1)Mr.Ravichandran.N</b> Address of Applicant :QUANTS INVESTMENT STRATEGY & CONSULTANCY SERVICES LLP, 201, Vanjiamman Building , 1st Floor (Part), Peelamedu, Coimbatore-641035 Tamil Nadu India
(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	(72) <b>Name of Inventor :</b> <b>1)Mr.Sailesh Bhawarlal Khandelwal</b>
Filing Date	:NA	<b>2)Dr.S.Balamurugan</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention is aimed to provide optimal investment strategy plans for an individual. Intelligent Investment Strategy is implemented based on individual™s income-expenditure pattern. Artificial Intelligence based Machine Learning Algorithms are employed to learn the pattern of income-expenditure of an individual based on nature of income. Digital Banking, Valets and Card based transactions are included to track the income and expenditure. The tracking and observing the income-expenditure pattern is carried out for the initial 6 months and patterns are generated. Based on the generated patterns, right from the 7th month the financial plan for the individual is generated. Also the individuals™ type of employment, age, gender, marital status, dependants™ details are also taken into account for generating intelligent pattern. Based on the Intelligent Pattern generated, the system will be able to propose optimal solutions for wise investment strategy for a particular individual. The financial plan will be tracked on live and corresponding financial plan solutions are provided to the user, on regular intervals, dynamically.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/08/2018

(21) Application No.201841029014 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A DEVICE FOR THE CONTINUOUS NON-INVASIVE MONITORING OF BILIRUBIN IN REAL-TIME

(51) International classification	:A61B5/00; A61B5/01; A61B5/0205	(71) <b>Name of Applicant :</b> <b>1)IBRUM TECHNOLOGIES</b> Address of Applicant :Site No.15 Top Floor,2nd Cross, Vinayaka Layout, Opposite SGR Dental College, Munnekolala, Marathalli, Post Bengaluru Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	(72) <b>Name of Inventor :</b> <b>1)Nibedit Dey</b>
(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 device (300) for the continuous and real-time monitoring of bilirubin, comprises a housing that encloses a waterproof/splash proof body. The body comprises a bilirubin and temperature measuring module (100); a wearable biocompatible strap (104); a buckle (205); a display unit (101); a safety module; a learning module; a battery and charging unit (201); a switch (103); and a wireless connectivity facilitator (102). The bilirubin and temperature measuring module (100) comprises: one or more light emitting sources; a microprocessor; one or more photodetectors; a filter; and an analogue to digital converter. The device (300) can be configured to be mounted on a patient™s wrist or any other body part like palm, earlobe, cheek, finger, forehead, and feet. Figure to be Included: Figure 1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/08/2018

(21) Application No.201841029016 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SYSTEM AND METHOD FOR GENERATING ELECTRICAL POWER TO AN ELECTRICAL GRID

(51) International classification	:F03G6/00	(71) <b>Name of Applicant :</b> <b>1)Analogics Tech India Limited</b> Address of Applicant :Plot No.9/10, Road No.6, Nacharam Industrial Estate, Hyderabad-500076. Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Ch.S.V. Bhima Prasad</b>
(87) International Publication No	: NA	<b>2)M.Vijayendra</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT SYSTEM AND METHOD FOR GENERATING ELECTRICAL POWER TO AN ELECTRICAL GRID Exemplary embodiments of the present disclosure are directed towards system and method for generating the electrical power to activate a water pump and to an electrical grid. The system comprising: photovoltaic solar panels102 electrically connected to grid-tied inverter104 for supplying electrical charge to the grid-tied inverter104 in the form of direct current electrical power, the at least one grid-tied inverter104 configured to convert the direct current from the plurality of photovoltaic solar panels102 into alternating current, water pump106 electrically coupled to the at least one grid-tied inverter104, grid-tied inverter104 configured to automatically regulate output frequency and speed of motor according to solar radiation intensity of photovoltaic solar panels102, and at least one end-user device114 configured to operate the water pump106 via the grid-tied inverter104 and network116, the end-user device114 also configured to remotely monitor the water pump106 via the network116. FIG. 1

No. of Pages : 23 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/10/2018

(21) Application No.201841039898 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : REMOVING THE OIL SPILL IN SEA WATER AT COASTAL AREA BY FILTERING PROCESS

(51) International classification	:C02F1/68
(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

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(72)Name of Inventor :

**1)AMEERKHAN BASHEERKHAN**

**2)BASHEERKHAN MOHAMEDIMRAN**

(57) Abstract :

Drawing outward the seawater with oil as a channel (10) and connecting the outlet with the mouth (13). L shaped water tube (29) is located inside of taper dug ground (11). At the two adjacent ends, two sumps are dug and located oil tank (47) and water tank (48), also connected with the water tube(29). The fore end of the water tube(29) is connected with, the mouth (13). Holes provided filter tube (34) is located inside of the water tube (29) on the supporting rods (30) inside of filter tube(34) holes area is covered with mosquito net (36), cotton cloth (37) and filled with sand (38). Height of Shutter (20) is adjusted by a lever (24) related to the height of the seawater. Allowed to flow the top layer of the seawater with oil (40) over the sand. Because of gravitational force and high density of seawater poured into water tube and stored in water tank (48).Oil stored in oil tank (47). Oil removed continuously and sent for further process. Water sent back to sea.

No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2019

(21) Application No.201941026157 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : COAL SAVING SYSTEM FOR A CEMENT PLANT

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(51) International classification	:E21B36/00	(71) <b>Name of Applicant :</b> <b>1)Orient Cement Ltd</b> Address of Applicant :ITGA PO, Malked Road, Taluka Chittapur, Dist., Gulbarga Karnataka India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Deepak Khetrapal</b>
(87) International Publication No	: NA	<b>2)Satyabrata Sharma</b>
(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 optimization of coal usage in a rotary kiln in cement production. the system (100) comprises of a plurality of supporting rollers (104); a plurality of water cooled lubricated bearing stations (102) for each of the supporting rollers (104); a plurality of sensors (106) located inside the bearing stations (102) for monitoring temperatures; a formula is derived with the temperatures by exposing the support roller bearings (104) to kiln radiation and atmospheric conditions; and the temperature values so derived from the formula are set as auto interlock to reduce coal firing and reduce radiation loss when the atmospheric temperature is high. The bearing station of the said rotary kiln is equipped with six supporting rollers and each roller has 2 water cooled oil lubricated bearing stations. The support roller bearings (104) are exposed to kiln radiation and atmospheric condition and their temperature is monitored using temperature sensor located inside the bearing station wherein the bearing temperature follows a sinusoidal path over each day of operation. By monitoring this, the computer implemented sub-system and the temperature values obtained are applied as auto interlock thereby to reduce coal firing. The system (100) reduces radiation loss when the atmospheric temperature is high. This system (100) results in saving around 0.1 to 0.6 tons of coal every day considering the same amount of production. Drawing associated with Abstract is Fig. 1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2019

(21) Application No.201941026190 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ARTIFICIAL INTELLIGENCE BASED SENSOR SYSTEM FOR ALCOHOL DETECTION, SPEED CONTROL AND PREDICTION

(51) International classification	:B60K28/02	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)S.Deepa</b> Address of Applicant :Assistant Professor (Senior Grade),
(32) Priority Date	:NA	Department of Applied Mathematics & Computational Sciences,
(33) Name of priority country	:NA	PSG College of Technology, Coimbatore - 641004, Tamilnadu,
(86) International Application No	:NA	India Tamil Nadu India
Filing Date	:NA	<b>2)N.Brindha</b>
(87) International Publication No	: NA	<b>3)Dr.S.Balamurugan</b>
(61) Patent of Addition to Application Number	:NA	<b>4)C.Vijayakumar</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)S.Deepa</b>
Filing Date	:NA	<b>2)N.Brindha</b>
		<b>3)Dr.S.Balamurugan</b>
		<b>4)C.Vijayakumar</b>

(57) Abstract :

In recent years, an emerging technology of Vehicular Ad-hoc Networks (VANET) is a subset of MANET, provides communication between Vehicle to Vehicle (V2V) and Vehicle to Infrastructure (V2I). Since it is a fast growing technology it can be widely used for safety of vehicles and can reduce the road accidents consequently. The proposed invention aims to detect whether the driver has consumed alcohol or not. If the driver is found to be alcoholic, then a message is sent to the administrator using Global System for Mobile communication (GSM) and location of the driver is detected using Global Positioning System (GPS). Immediately the speed of the vehicle is controlled using a motor in order to prevent the road accidents. Finally, the performance report is generated with the help of predictive analysis method which uses K-means clustering algorithm. This invention deals with alcohol detection, speed control and predictive analysis. It facilitates to control the speed of vehicles automatically whenever the driver is detected as alcoholic person. Machine learning based predictions is gaining momentum in many scientific fields. The most common unsupervised learning method is cluster analysis, which is used for exploratory data analysis to find hidden pattern. Identifying these type of report gives more details about the driver™s performance. Prediction in vehicular networks according to the alcoholic driver is more essential nowadays to reduce the road accidents.

No. of Pages : 14 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2019

(21) Application No.201941026213 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ESR1 PVUII AND XBAI PPOLYMORPHISM ASSOCIATED WITH CORONARY ARTERY DISEASE, METHODS OF DETECTION AND

(51) International classification	:C07K14/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Chettinad Academy of Research and Education</b>
(32) Priority Date	:NA	Address of Applicant :Chettinad Hospital and Research
(33) Name of priority country	:NA	Institute, Chettinad Helth City, Rajiv Gandhi Salai,
(86) International Application No	:NA	Kelambakkam, Kanchipuram, Tamilnadu-603103 Tamil Nadu
Filing Date	:NA	India
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)Ramakrishnan .V</b>
Filing Date	:NA	<b>2)Hafsa .S</b>
(62) Divisional to Application Number	:NA	<b>3)Santhosh .V</b>
Filing Date	:NA	<b>4)Srivarshini .S</b>

(57) Abstract :

7. ABSTRACT OF THE INVENTION (to be given along with complete specification on separate page) Coronary Artery Disease (CAD) is the impedance or blockage of one or more arteries that supply blood to the heart, usually due to atherosclerosis. The identification of genetic factors helps in better understanding of the underlying biology of this disease. CAD affected 110 million people and resulted in 8.9 million deaths and has led to 23% of total and 32% of adult deaths in 2013-2016 in India. Previous literature documents that CAD is influenced by genetic, environmental and lifestyle risk factors contributing to disease pathogenesis. The genetic variation might be the allelic polymorphism that occurs within the DNA sequences. Unlike mutation, genetic polymorphisms are not directly associated with disease, but-it-might enhance the individuals predisposition to the disease. Among genetic variation, Single nucleotide polymorphisms are the most frequently studied among different population to identify the role in disease conditions. ESR1- Estrogen receptor alpha gene plays major role in the atheroprotective effect of estrogen in the vascular system. These polymorphisms of estrogen receptor alpha gene were selected in the study to identify associated with CAD. The ESR1 gene encodes for an estrogen receptor consisting of different number of domains required for DNA binding and activates the transcription. The present invention provides a method of assessing an individuals predisposition to CAD, development. The method involves the analysis of the estrogen receptor gene of the individuals. The diagnostic kit comprises a set of allele-specific primers each having a 5'-3' end with two different alleles of SNP in a single reaction.

No. of Pages : 13 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/07/2019

(21) Application No.201941026234 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DUAL MODE AUTOMATED ROTARY RADIAL PARKING SYSTEM USING HYDRAULICS AND SENSING DEVICES

(51) International classification	:E04H6/28	(71) <b>Name of Applicant :</b> <b>1)Dr. TEKALE SUNIL</b> Address of Applicant :MALLA READY COLLEGE OF ENGINEERING, MAISAMMAGUDA, DHULAPALLY, SECUNDERABAD - 500 100. Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	<b>2)Dr. VIKASH KUMAR</b>
(87) International Publication No	: NA	<b>3)Dr. NIKHIL RAJ</b>
(61) Patent of Addition to Application Number Filing Date	:NA	(72) <b>Name of Inventor :</b>
(62) Divisional to Application Number Filing Date	:NA	<b>1) Dr. TEKALE SUNIL</b> <b>2)Dr. VIKASH KUMAR</b> <b>3)Dr. NIKHIL RAJ</b>

(57) Abstract :

As the population of cities across the world is growing day by day and parking of citizen vehicles is becoming very difficult, so as to resolve and provide smooth parking for the vehicle a new latest system with modern concept is designed. The system basically uses very less space for parking and the parking of vehicle can be done with the help of a driver or without the driver. The system basically works in dual mode. The system is equipped with multiple sensors which basically are used to detect the vehicle and the free parking lot for the vehicle to be parked. This will help the citizens and administrative authorities to have multiple parking system installed at many space as the system which is designed uses very less amount of space. i The vehicle to be parked will enter in the parking system designed at ground floor from any side and-then the same vehicle will move on to the hydraulic lift erected in the system. The driver can leave the vehicle and then the vehicle can be parked as per the availability of parking lots. The number of occupied and free parking lots , are maintained in the system. Once the vehicle moves on the lift then the rotary lift will move to an area and floor where the parking lot is free, by detecting the same with the help of various sensors placed at the parking lot and on the lift. The lift can have the facility to lift multiple vehicle at the same time. The authority can collect the charges for the same based on the amount of time used for parking. The system will also provide the details of the vehicle which I parked by sending a message to the vehicle owner which can be traced using the vehicle number.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2019

(21) Application No.201941026558 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PROCESS FOR THE PRODUCTION OF ALKALI METAL SILICATES AND ALUMINOSILICATES FROM CLAY-BONDED AND SODIUM SILICATE-BONDED SPENT FOUNDRY SAND

(51) International classification	:B01J29/00	(71) <b>Name of Applicant :</b> <b>1)PSG INSTITUTE OF TECHNOLOGY AND APPLIED RESEARCH</b> Address of Applicant :THE PRINCIPAL, AVINASHI ROAD, NEELAMBUR, COIMBATORE Tamil Nadu India
(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 simple, facile and clean process route for the production of industrially and commercially important valuable alkali metal silicates from spent foundry sand by amenable synthetic depolymerization mechanism through hydrothermal method. The synthetic process route involves the dissolution of silica mass of waste foundry sand using alkaline solution over a period of 3 hours and at 250°C. Further, the obtained sodium silicate and potassium silicate were converted into corresponding aluminosilicates using aluminium foil and aluminium metal scrap at ambient temperature over a period of 30 and 180 minutes respectively. The production of alkali metal silicates and aluminosilicates were characterized using different modern analytical techniques. The synthetic process route developed in the present work for the preparation of alkali metal silicates and aluminosilicates possesses number of special features with regard to concentration of alkalies used, reaction time, temperature, workup methodology and percentage yield. The value added alkali metal silicates obtained in the present work from spent foundry sand can be used as a source material for the manufacture of different industrial products viz., binding materials, additives, fillers, raw materials, admixtures, molecular sieves, catalysts, masonry products and geopolymer concrete, etc, This invention is considered to be the novel method of waste utilization and effective approach for industrial solid waste management.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2019

(21) Application No.201941026577 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OPTIMIZED SPUR GEAR DESIGN FOR ELECTRIC AND HYBRID VEHICLES

(51) International classification	:F16H48/10
(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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**2)MR.S.AKASH PAVAN**

**3)DR.S.JANAKI**

**4)MR.N.VIVEK MASTHIRAJ**

**(72)Name of Inventor :**

**1)DR.S.PERIYASAMY**

**2)MR.S.AKASH PAVAN**

**3)DR.S.JANAKI**

**4)MR.N.VIVEK MASTHIRAJ**

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**(57) Abstract :**

The present invention discloses a new gear design providing less transmission error, increased life for electric and hybrid Vehicles adaptable to high initial torque and reverse loads due to regenerative braking. The teeth of the spur gear profile have specific micro geometry modifications for the specified application. The disclosure includes contact analysis for designing the profile modified spur gears having preferred running characteristics. In this invention a micro geometry optimized spur gear design is arrived with minimum Transmission error and increased efficiency using Design of Experiments. For the fixed center to center distance, macro geometry parameters and torque value, the peak to peak transmission error has been reduced from 5.9451 urn to a value of 1.6458 urn. This micro-geometry optimized gear design has an efficiency of 99.19 % which is slightly higher when compared to the Standard Spur gear having efficiency of 99.06 %.

No. of Pages : 15 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2019

(21) Application No.201941026584 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THE EVAPORATIVE COOLING PROCESS FOR AIR COOLERS USING NATURAL FIBRE COOLINGPAD AS A MEDIUM

(51) International classification	:B01D3/00	(71) <b>Name of Applicant :</b> <b>1)Dr. N. NANDAKUMAR</b> Address of Applicant :ASSOCIATE PROFESSOR, DEPARTMENT OF MECHANICAL ENGINEERING, PG- ENGINEERING DESIGN, GOVERNMENT COLLEGE OF TECHNOLOGY, COIMBATORE-641013. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	<b>2)Dr. S. JANAKI</b>
(87) International Publication No	: NA	<b>3)Mr. C. KIRANKUMAR</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. N. NANDAKUMAR</b>
(62) Divisional to Application Number	:NA	<b>2)Dr. S. JANAKI</b>
Filing Date	:NA	<b>3)Mr. C. KIRANKUMAR</b>

(57) Abstract :

The present invention discloses a method and system for evaporative cooling process using Bio material as a cooling pad. Said cooling system comprises of cooling pad (3) with at least an amount of vetiver fibre material (11) and a metal sheet (12) with tightly packed hollow cuboid shape. Fan (1) is used to blow the air through cooling pad (3), a pump (2) that circulates the water from wash basin (4) to water distributor (5) through water pipe line (6). After the evaporative process, the cooled air is passed out through the air outlet (7). The system runs with a power supply (8) and covered with a compact casing (9) for safety purpose. Said operating system processes the cooling pad to remain cold for long time. Evaporative cooling system using Bio cooling pad material helps to improve accuracy, life time and performance of the products and thereby reduces the failures, material wastages and manufacturing cost of the manufacturers.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/08/2018

(21) Application No.201841029696 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A BATTERY PACK MANAGEMENT SYSTEM

(51) International classification	:G06F1/32; G06F9/445	(71) <b>Name of Applicant :</b> <b>1)ATHER ENERGY PVT. LTD.</b> Address of Applicant :3rd Floor, Tower D, IBC Knowledge Park, Bannerghatta Main Road, Bengaluru Karnataka India
(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 :

Embodiments of the present disclosure relate to a battery pack [200] management system. The battery pack [200] is provided with a battery management module [210] to control overall operable parameters of the battery pack [200]. The battery management module [210] continuously gathers and sends the at least one operational parameter of a power source [202] within the battery pack [200]. The at least one operational parameter is received by an auxiliary control module [208] which compares the at least one operational parameter with a threshold value. In case, the at least one operational parameter is below a threshold value, the battery management module [210] initiates an action on command of the auxiliary control module [208] to power down the battery pack [200] in order to save the remaining charge of the power source [202]. [Figure 2]

No. of Pages : 29 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/07/2019

(21) Application No.201941027153 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DEVELOPMENT OF CAR BUMPER MATERIAL UTILIZING SUGARCANE NANOCULLULOSE, DRY LEAVES FIBER, GLASS FIBER AND AL-SICNP REINFORCED HYBRID POLYMER COMPOSITES

(51) International classification	:B29C48/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)H Mohit Address of Applicant :Composite Research Center, 12 A, EVR Street, Vinayagapuram, Ambattur, Chennai, Tamilnadu, India 600053. Tamil Nadu India
(32) Priority Date	:NA	2)Dr. G. Hemath Kumar
(33) Name of priority country	:NA	3)H Babu Vishwanath
(86) International Application No	:NA	4)Sanjay Mavinkere Rangappa
Filing Date	:NA	5)Dr.-ing, Habil Suchart Siengchin
(87) International Publication No	: NA	6)Arpita G R
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)H Mohit
(62) Divisional to Application Number	:NA	2)Dr. G. Hemath Kumar
Filing Date	:NA	3)H Babu Vishwanath
		4)Sanjay Mavinkere Rangappa
		5)Dr.-ing, Habil Suchart Siengchin
		6)Arpita G R

(57) Abstract :

The SNCF, NDLF, glass fibers, and Al-SiC nanoparticles reinforced polymer nanocomposites was fabricated using ultrasonic assisted wet layup method. The SNCF, NDLF and Al-SiC nanoparticles are dispersed uniformly within the matrix with the help of ultrasonic probe. The 10 layers of glass fiber reinforced in between the polymer mixture. The thermal and mechanical properties of polymer nanocomposites shown higher value at 3 wt% of SNCF, 3 wt% of NDLF, and 4 wt% of Al-SiC nanoparticles reinforcement. The fabricated polymer nanocomposites exhibits lower weight and cheaper production cost when compared with other conventional materials. The reinforcement beam plays a vital role in safety and it is validated through finite element analysis. The careful design and analysis of bumper beam effective parameters can optimize the strength, reduce the weight, and increase the possibility of utilizing biodegradable and recyclable materials to reduce the environmental pollution.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/07/2019

(21) Application No.201941027226 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD OF SECURE ONLINE VOTING USING MIDDLEWARE SECURITY

(51) International classification	:G06F3/01
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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 :**

**1)N.Gayathri**

Address of Applicant :Research Scholar, Anna University,  
Chennai, Tamilnadu, India Tamil Nadu India

**2)Kavadi Durga Prasad**

**3)S. Rakesh Kumar**

**4)Dr.Rizwan Patan**

**5)Dr. GGS Pradeep**

**(72)Name of Inventor :**

**1)N.Gayathri**

**2)Kavadi Durga Prasad**

**3)S. Rakesh Kumar**

**4)Dr.Rizwan Patan**

**5)Dr. GGS Pradeep**

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**(57) Abstract :**

The invention disclosure presents a method of Secure online voting using a middleware security. The present invention is in the field of information technology & communication security concern with the online voting. More specifically it refers to user, willing to access an internet site or authorize transaction over the internet, based on his/her Identity, using his/her smartphone for a secure voting. The different authentication, data security tools and algorithm is applied in the present method for secure, fast and reliable online voting.

No. of Pages : 22 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/07/2019

(21) Application No.201941027243 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INTELLIGENT VEHICLE DOOR MONITORING SYSTEM AND A METHOD TO CONTROL THE SAME

(51) International classification	:B62J1/00	(71) Name of Applicant :
(31) Priority Document No	:NA	1) DR.P.MANIMEGALAI
(32) Priority Date	:NA	Address of Applicant :D202-SREE DAKSHA SHRAVYA
(33) Name of priority country	:NA	APARTMENTS TAUTA NAGAR,THONDAMUTHUR
(86) International Application No	:NA	ROAD,VADAVALLI COIMBATORE -641041 Tamil Nadu India
Filing Date	:NA	2) J.SHAFIQ MANSOOR
(87) International Publication No	: NA	3) DR.S. BHAVANI
(61) Patent of Addition to Application Number	:NA	4) DR.N.RAJALAKSHMI
Filing Date	:NA	(72) Name of Inventor :
(62) Divisional to Application Number	:NA	1) J.SHAFIQ MANSOOR
Filing Date	:NA	2) DR.P.MANIMEGALAI
		3) DR.S. BHAVANI
		4) DR.N.RAJALAKSHMI
		5) M.LAKSHMI
		6) J.K.KIRUTHIKA
		7) T.YAWANIKHA

(57) Abstract :

The present invention relates to the field of safety of drivers and passengers during ingress and egress in an automotive vehicle from external oncoming vehicles. An intelligent vehicle door monitoring system (1), said vehicle (11) comprises of plurality of rear view mirrors (12), plurality of doors (13) mounted in the outer body of said vehicle (11) and a dash board (14) mounted inside the vehicle (11), said vehicle (11) consists an intelligent door monitoring system (1), said system (1) comprises of at least a camera (21), a control unit (22), plurality of pressure sensing means (23) and lock actuating mechanism (24). Said control unit (22) further comprises of a motion pattern recognition system (27) to detect motion from the plurality of rear view mirrors (12) through said camera (21).

No. of Pages : 19 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/07/2019

(21) Application No.201941026760 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NEW APPROACH ON DESIGN AND DEVELOPMENT OF MECHANICAL ANTI-LOCK BRAKING SYSTEM (ABS) USING TORQUE REDUCTION PRINCIPLE

(51) International classification	:B60T8/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. T G LOGANATHAN
(32) Priority Date	:NA	Address of Applicant :R.M.K. COLLEGE OF
(33) Name of priority country	:NA	ENGINEERING AND TECHNOLOGY, RSM NAGAR,
(86) International Application No	:NA	PUDUVLOYAL, GUMMIDIPOONDI TALUK, THIRUVALLUR
Filing Date	:NA	DISTRICT, CHENNAI Tamil Nadu India
(87) International Publication No	: NA	2)Mr. K. VINOOTH KUMAR
(61) Patent of Addition to Application Number	:NA	3)Mr. G. JAGADEESH
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)Dr. T G LOGANATHAN
Filing Date	:NA	2)Mr. K. VINOOTH KUMAR
		3)Mr. G. JAGADEESH

(57) Abstract :

The invention discloses a mechanical ABS system and device, pertaining to the field of automobile and bicycle brake equipment. The mechanical ABS system components comprise of a pedal with master cylinder assembly, double arm cylinder, double arm, brake pad cylinder, movable brake pad, solenoid valve, dynamo and rotor disc. Among the components, pedal with master cylinder assembly and double arm cylinder forms braking unit, whereas the rest of the components such as brake pad cylinder, movable brake pad, solenoid valve, dynamo forms the wheel lock prevention unit. The braking unit aids in vehicle stopping, by forcing the movable brake pad against the disc by double arm cylinder. The dynamo coupled with the rotor disc generates energy utilized to operate the solenoid valve. The energized solenoid valve activates the brake pad cylinder piston to press the brake pad on the disc. The wheel lock prevention unit, prevent the wheel from locking up. During wheel lock, the dynamo stops generating energy, which de-energizes the solenoid valve and changes the airflow path. The change in airflow direction operates the brake pad cylinder to move the brake pad radially towards the axis. This contributes to reduction in braking torque and prevents the wheel locking. All these sequence of operation on applying brake take place in a short while to support Anti-lock braking system. The reduction in braking torque is achieved by reducing the brake pad radial distance which contacts the rotor disc.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/07/2019

(21) Application No.201941026953 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INTEGRATED AND AUTOMATED SMART SERICULTURE SYSTEM

(51) International classification	:D01D5/00	(71) <b>Name of Applicant :</b> <b>1)Dr. Sumithra Devi K A</b> Address of Applicant :Dayananda Sagar Academy of Technology and Management, 22 Mile, BM Kaval, Udayapur, Kanakapura Road, Bengaluru-560082. Karnataka India
(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	<b>(72)Name of Inventor :</b> <b>1)Dr. Sumithra Devi K A</b> <b>2)Dr. Madhumathy P</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The silkworms adaptability to change in environmental factors widely differs from other insects. Since silkworm is quite different from other insects, it is highly sensitive to fluctuations in environment and cannot survive under wide range of variations. Henceforth there exists the need of utilizing innovation in sericulture cultivate. This innovation gives a thought regarding giving automation in sericulture cultivate. This system controls the natural variables like temperature, relative humidity, C02 and light power. Food feeder and solution sprayers are additionally mounted over the homestead. It likewise suggests the agriculturists about the conditions kept up in the farm and essential moves to make if there is any conditions infringement. This is about to give automated control to the agriculturists utilizing wireless sensors, microcontroller and GSM.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/07/2019

(21) Application No.201941026959 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FOOT OPERATED STEERING VEHICLE FOR ARMLESS PEOPLE

(51) International classification	:B62J1/00	(71) <b>Name of Applicant :</b> <b>1)S.RAVI</b> Address of Applicant :260/1 A, SUBHIKSHA GARDEN, YUKTA AVENUE, N.G.G.O COLONY (PO), COIMBATORE, TAMILNADU - 641 022. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)S.RAVI</b>
(87) International Publication No	: NA	<b>2)MANOJKUMAR.S</b>
(61) Patent of Addition to Application Number	:NA	<b>3)NISHANTH.S</b>
Filing Date	:NA	<b>4)MOHAMMED ABUTHAGIR.M</b>
(62) Divisional to Application Number	:NA	<b>5)PAVAN TILAK JOSHI.S</b>
Filing Date	:NA	<b>6)PAVITHRANARAYANAN.V.S</b>
		<b>7)MANIKANDAN.T.S</b>

(57) Abstract :

Our challenge is to design the Vehicle (Fig: 2) for the people who are not able to drive the Vehicle (Fig: 2) with their hands. The Vehicle (Fig: 2) is especially for the people who are armless.. They cant locomotive without the help of others. By this Vehicle (Fig: 2) they can feel like a normal human being because they can drive the Vehicle (Fig: 2) just like us. It has a steering (Fig: 5) and Motor (Fig: 3.d) switching system in it which can be handling by legs only.

No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/07/2019

(21) Application No.201941027006 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SELF LOCK WITH NON REDRAW SYRINGE

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(51) International classification

:A61M5/00

(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 :

**1)S. RAVI**

Address of Applicant :260/1A, SUBHIKSHA GARDEN,  
YUKTA AVENUE, N.G.G.O COLONY (PO), COIMBATORE  
Tamil Nadu India

(72)Name of Inventor :

**1)RAVI. S**

**2)MANOJKUMAR. S**

**3)NISHANTH. S**

**4)MOHAMMED ABUTHAGIR. M**

**5)PAVAN TILAK JOSHI. S**

**6)PAVITHRANARAYANAN. V.S**

**7)KARTHIKESH. N**

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(57) Abstract :

Non-returnable syringe consists of syringe barrel, barrel flange, plunger (Fig 2), plunger (Fig 2) flange, push rod (Fig 3), hemisphere-rectangular bush, Rectangular groove (Fig 1.b) were illustrated in fig. The Rectangular groove (Fig 1.b) is made on the barrel near deliver end and the plunger (Fig 2) is meshed with push rod (Fig 3) and hemisphere-rectangular bush. The bush locked in the grooves, and thereby it prevents from re-use of the syringe.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :08/07/2019

(21) Application No.201941027270 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HYDRAULIC SYSTEM BASED CLUTCH LEVER RESTRICTION FOR A TWO WHEELER AND METHOD THERE OF

(51) International classification	:F16D25/12	(71) <b>Name of Applicant :</b> <b>1)Aditya Engineering College (Autonomous)</b> Address of Applicant :Aditya Nagar, ADB Road, SURAMPALEM Pin Code 533437, East Godavari District, Andhra Pradesh, India Andhra Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA :NA	(72) <b>Name of Inventor :</b> <b>1)Dr. PASUPULETI SUBRAHMANYA RANJIT</b> <b>2)Dr. VINJAMURI VENKATA KAMESH</b> <b>3)Dr. CHETAN KUMAR HIRWANI</b> <b>4)Dr. Bh. VARAPRASAD</b> <b>5)Dr. MEDAPATI SREENIVASA REDDY</b> <b>6)Dr. VALLEM SRINIVASA RAO</b> <b>7)Dr. PRITAM KUMAR DAS</b> <b>8)Mr. VINJAMURI S. N. Ch. DATTU</b>
(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 invention relates to a hydraulic system based clutch lever restriction for a two wheeler and method thereof. The system 100 comprises of a hydraulic cylinder 10, 20 connected by a hydraulic tube 30 at both ends. When the supporting stand 1 is in downwards direction, i.e. while supporting the vehicle for standing without falling, upper end 2 of the supporting stand 1 pushes a pin 12 attached to hydraulic cylinder 10, through pin 12, so as to actuate the hydraulic cylinder 10. A tensile spring 4 is present between the hydraulic cylinder 10 and the support 3. The pressure exerted on the hydraulic cylinder 10 passes through the hydraulic tube 30, thereby exerting pressure on the hydraulic cylinder 20 towards other end of the tube 30. The hydraulic cylinder 20 is attached to the hydraulic tube 30 at one end and a pushpin 5 towards the other end. A spring 6 is wound over the pushpin 5. When pressure from the hydraulic tube 30 passes onto the hydraulic cylinder 20, this causes compression in the spring 6 wound over the push pin 5 making the push pin 5 being pushed towards the clutch lever 7 to restrict the movement of the clutch lever 7 (Figure 2).

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027362 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEVELOPMENT OF WASTE NANO CHICKEN KERATIN FIBER AND AL-SICNP REINFORCED HYBRID POLYMER COMPOSITES

(51) International classification	:B01J20/24	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)H Mohit</b> Address of Applicant :Composite Research Center, 12 A, EVR Street, Vinayagapuram, Ambattur, Chennai, Tamilnadu, India 600053. Tamil Nadu India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	<b>2)Karthikeyan N</b>
(86) International Application No	:NA	<b>3)Dr. G. Hemath Kumar</b>
Filing Date	:NA	<b>4)Dr. Rajesh Purohit</b>
(87) International Publication No	: NA	<b>5)H Babu Vishwanath</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)H Mohit</b>
(62) Divisional to Application Number	:NA	<b>2)Karthikeyan N</b>
Filing Date	:NA	<b>3)Dr. G. Hemath Kumar</b>
		<b>4)Dr. Rajesh Purohit</b>
		<b>5)H Babu Vishwanath</b>

(57) Abstract :

The chicken feather nano keratin fibers and Al-SiC nanoparticles reinforced polymer nanocomposites was fabricated using ultrasonic assisted wet layup method. Both nano keratin fiber and Al-SiC nanoparticles are dispersed uniformly within the matrix with the help of ultrasonic probe. The thermal and mechanical properties of polymer nanocomposites shown higher value at 5 wt% of nano keratin fiber and 5 wt% of Al-SiC nanoparticles reinforcement. The fabricated polymer nanocomposites exhibits lower weight and cheaper production cost when compared with other conventional materials.

No. of Pages : 13 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027370 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SIMPLIFIED METHODOLOGY FOR ACTIVATED CARBON SYNTHESIS FOR USE AS SOIL FERTILITY IMPROVER ALONG WIT

(51) International classification	:C12N15/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)JOHN PRESIN KUMAR A</b>
(32) Priority Date	:NA	Address of Applicant :Department of Mechanical Engineering,
(33) Name of priority country	:NA	Hindustan Institute of Tech & Science, No.1, Rajiv Gandhi Salai,
(86) International Application No	:NA	Padur, Kelambakkam, Chennai-603103. Tamil Nadu India
Filing Date	:NA	<b>2)SIVAKUMAR S</b>
(87) International Publication No	: NA	<b>3)SAKTHIDASAN J</b>
(61) Patent of Addition to Application Number	:NA	<b>4)BALAJI R</b>
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	<b>1)JOHN PRESIN KUMAR A</b>
Filing Date	:NA	<b>2)SIVAKUMAR S</b>
		<b>3)SAKTHIDASAN J</b>
		<b>4)BALAJI R</b>

(57) Abstract :

During the last few years, activated carbon has received much more attention than ever before from the research community all over the world. These materials offer a number of advantages- over traditional materials such as increased surface area and better gas adsorption properties. In the present communication, a study on the simplified synthesis and properties of activated carbon particles involving application as fertility booster along with compost has been reported. Scanning electron microscopy study, moisture content, ash content, bulk density, yield of charcoal, fixed carbon and hardness were investigated as per ASTM standards. Initially the activated carbon particles prepared by the simplified synthesis was subjected to evaluation of its optimum topography and other characteristic properties. In the simplified synthesis, the oven heating is eliminated and instead furnace heating is conducted in two phases. When applied along with compost to the soil, the activated carbon has shown promising results in improving the overall fertility of the soil.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027372 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LAYING TYPE CONCRETE BLOCK MAKING MACHINE WITH HYDRAULIC MIX FEEDER, AUTOMATED RAM, MOULD VIBRATIONS, AUTO-TRAVEL

(51) International classification	:B28B3/02	(71) <b>Name of Applicant :</b> <b>1)M.GUNASEKAR</b> Address of Applicant :No: 6 & 7, Sri ThiruVenkata Nagar, Ganapathy, Coimbatore 641 006, Tamil Nadu, India Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)M.GUNASEKAR</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Laying Type Concrete Block Making Machine with Hydraulic Mix Feeder, Automated Ram, Mould Vibrations, Auto-Travel is disclosed. The machine comprises: a main frame (A); a hydraulic mix feeder unit (B); turning wheels (C); an operator seat (D); a hydraulic system (E); mould vibrators (Ha); ram vibrators (Hb); a rear wheel unit (I); a front wheel unit (J); and a control panel (K). The current invention aims to reduce labour with a hydraulic mix feeder (B) and the operator can comfortably sit and operate the machine at ease without any necessity to intertwine the machine ram vibrations, mould vibrations and moving to next position of laying which are automated with PLC and sensors. This improves the production by 50% and cost saving of labour.

No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/10/2017

(21) Application No.201741035259 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HAND PORTABLE TRACK AND KILL SUICIDE DRONE

(51) International classification	:B64C39/02; B64D1/00;	(71) <b>Name of Applicant :</b> <b>1)C J. VARGHESE</b> Address of Applicant :S/O JOSEPH GEORGE, CHEMPARATHICKAL HOUSE, MUTHALAKODAM, IDUKKI (DISTRICT) KERALA, INDIAN - 685605. Kerala India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No Filing Date	:NA	(72) <b>Name of Inventor :</b> <b>1)C J. VARGHESE</b>
(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 :

A hand portable track and kill suicide drone operable by using small tablets that can be fixed on the arms and such drones controls being partially automated and standard controls will only pop up if needed or on request, wherein the throw mode or normal lift mode can be selected before deployment by flicking a switch on the drone, wherein the control tablet will have the live feed from the drone; the drones can be taken out from its tube casings and hooked to the exterior part of the users backpack and a user in a 6-team unit can carry about three of these drones with him.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027725 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : REMOVAL APPARATUS FOR CYLINDRICAL POLYMER MATRIX COMPOSITE (PMC) PARTS FABRICATED BY COMPRESSION CUM EXTRUDER METHOD

(51) International classification	:B28B13/02	(71)Name of Applicant :
(31) Priority Document No	:NA	1)Dr. G. Hemath Kumar Address of Applicant :Department of Mechanical Engineering, Madanappalle Institute of Technology and Sciences, 14, Angalur, Chittoor District, Andhra Pradesh India 517325 Andhra Pradesh India
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	2)Mr. A. Vasudeva Reddy
Filing Date	:NA	3)Dr. C. Yuvaraj
(87) International Publication No	: NA	4)Dr. H Mohit
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	1)Dr. G. Hemath Kumar
(62) Divisional to Application Number	:NA	2)Mr. A. Vasudeva Reddy
Filing Date	:NA	3)Dr. C. Yuvaraj
		4)Dr. H Mohit

(57) Abstract :

A removal setup for compression cum extruder die type equipment fabricated for cylindrical polymer matrix composites has been design and developed. Other one new technique called Compression cum Extruder Die set-up was developed for fabrication of Polymer Matrix Composites (PMCs) as cylindrical shaped parts with lower fiber matrix wastage. After fabrication these cylindrical shaped parts has to be removed from the die or inner core of Compression cum Extruder Die set-up equipment. This set-up was mainly worked on the principle of screwing action provided by the screw thread arrangement with stud and nut is welded at top. Present invention provides facility for easy removal of fabricated cylindrical parts. Thus, in the present invention the removal of fabricated cylindrical parts of Polymer Matrix Composites (PMCs) has made and used for easy removal of cylindrical shape composite parts.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2019

(21) Application No.201941027751 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN INTERACTIVE LAMP SYSTEM FOR COMMUNICATION BETWEEN USERS WITHOUT USING SMART MOBILE COMMUNICATION DEVICES

(51) International classification

:G06F16/90

(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 :

**1)M. KANTHABABU**

Address of Applicant :DEPARTMENT OF  
MANUFACTURING ENGINEERING, CEG CAMPUS, ANNA  
UNIVERSITY, CHENNAI Tamil Nadu India

(72)Name of Inventor :

**1)M. KANTHABABU**

**2)S. SRI RANGANATHAN**

**3)R. RANJANI**

**4)U. SIVARAMAKRISHNANN**

**5)N. NAVEEN KUMAR**

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(57) Abstract :

An interactive lamp system (100) for communication between users without using smart mobile communication devices, comprising a plurality of LED lamps (1,11) each provided with motion detection sensor (2,12) for detecting motion of the object including hand movement/ gesture of the user, heart rate detection sensor (3,13) for detection of heart rate of the user. The controller unit (4,14) is connected with said motion detection sensor (2,12) and pulse sensor (3,13) to control motion sensed signal and pulse signal information including heart rate of the user respectively. A Wi-Fi module (5,15) is connected to said controller units (4) to transmit and receive motion-sensed data and pulse signal information including heart rate of the user, via cloud server, between source LED lamp and destination LED lamps in connection therebetween via cloud server.

No. of Pages : 13 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2019

(21) Application No.201941027752 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : SOFTWARE DEFINED RADIO-BASED GROUND RECEIVING STATION SYSTEM FOR LOW EARTH ORBIT SATELLITES COMMUNICATION

(51) International classification

:H04B7/15

(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 :

**1)ANNA UNIVERSITY**

Address of Applicant :THE DIRECTOR, CENTRE FOR  
INTELLECTUAL PROPERTY RIGHTS, CPDE BUILDING,  
COLLEGE OF ENGINEERING GUINDY, ANNA  
UNIVERSITY, CHENNAI Tamil Nadu India

(72)Name of Inventor :

**1)A. SARAVANAKUMAR**

**2)A. KAVIYARASU**

---

(57) Abstract :

A ground receiving station system (10) for low earth orbit satellites communication is disclosed. The system comprising at least one self phase excitement high frequency antenna (1), a low-noise amplifier (LNA) (2) connected with said antenna (1) to amplify low-power signal received from said antenna (1), without significantly degrading signal-to-noise ratio and also minimizes additional noise. A personal computer (3) is provided, on which real time satellite tracking and orbit prediction software application is installed to track low earth orbit (LEO) satellites via said antenna (1), display the position of said satellites and other data relating to weather in lists, tables, maps and polar plots, and also display the time of each pass of satellites over the ground receiving station. The automatic picture transmission (APT) signal received via said antenna (1) is decoded and the images of low earth orbit satellites are displayed upon decoding of said signal.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/04/2019

(21) Application No.201941016641 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THERMO GEO-PLASTIC TECHNOLOG IN PAVEMENT CONSTRUCTION AND  
MANUFACTURING PAVERS

(51) International classification	:E04D11/00
(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 :**

**1)PROF. VITHAL HANUMANTRAO JADHAV**

Address of Applicant :OMSHREE BUILDING, 2ND MAIN  
5TH CROSS, NARAYANPUR, DHARWAD, KARNATAKA,  
INDIA - 580 008. Karnataka India

(72)**Name of Inventor :**

**1)PROF. VITHAL HANUMANTRAO JADHAV**

(57) Abstract :

Not Submitted

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027467 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROCESS OF EXTRACTION OF BIOACTIVE COMPOUND ALLANTOIN FROM CLEOME VISCOSA L

(51) International classification	:A24B15/301	(71) <b>Name of Applicant :</b> <b>1)MEENAKSHI ACADEMY OF HIGHER EDUCATION &amp; RESEARCH</b> Address of Applicant :MEENAKSHI ACADEMY OF HIGHER EDUCATION & RESEARCH NO. 12, VEMBULI AMMAN KOIL STREET , WEST K.K. NAGAR CHENNAI TAMIL NADU INDIA 600078 Tamil Nadu India
(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	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)DR. G. LAKSHMANAN</b>
(62) Divisional to Application Number	:NA	<b>2)PROF.K. MURUGESAN</b>
Filing Date	:NA	

(57) Abstract :

TITLE: PROCESS OF EXTRACTION OF BIOACTIVE COMPOUND ALLANTOIN FROM CLEOME VISCOSA L

APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION & RESEARCH ABSTRACT The present invention discloses a process of extraction of antibacterial activity exhibiting bioactive compound Allantoin from Cleome viscosa. Allantoin, a crystalline compound was isolated from the methanolic extract of Cleome viscosa and it was reported for first time from this plant. The structure of Allantoin was elucidated by single crystal XRD and it was further confirmed through FTIR and ESI-MS spectroscopy techniques. It was crystallized in monoclinic crystal system with the space group P2i/c. The optimized geometry was used for molecular docking to identify the possible binding mode. Furthermore, the in vitro antibacterial activity of the isolated Allantoin against Gram-positive and Gram-negative bacteria was evaluated.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027468 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : EVALUATION OF BIO-GUIDED IDENTIFICATION OF AERIAL PARTS OF CLEOME VISCOSA L. AND ITS IN VITRO APPROACH

(51) International classification	:A24B15/301	(71) <b>Name of Applicant :</b> <b>1)MEENAKSHI ACADEMY OF HIGHER EDUCATION &amp; RESEARCH</b> Address of Applicant :MEENAKSHI ACADEMY OF HIGHER EDUCATION & RESEARCH NO. 12, VEMBULI AMMAN KOIL STREET , WEST K.K. NAGAR CHENNAI TAMIL NADU INDIA 600078 Tamil Nadu India
(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	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)DR. G. LAKSHMANAN</b>
(62) Divisional to Application Number	:NA	<b>2)PROF.K. MURUGESAN</b>
Filing Date	:NA	

(57) Abstract :

TITLE: EVALUATION OF BIO-GUIDED IDENTIFICATION OF AERIAL PARTS OF CLEOME VISCOSA L. AND ITS IN VITRO APPROACH APPLICANT: MEENAKSHI ACADEMY OF HIGHER EDUCATION & RESEARCH ABSTRACT The present invention shall disclose a process of extraction of antibacterial activity exhibiting bioactive compound Imperatorin from Cleome viscose. Cleome viscose L. is an Indian medicinal plant, it belongs to the family (Cleomaceae formerly Capparidaceae) that possesses anticancer activity. The current study presents the first report for phytochemicals analyses of methanolic extract of C. viscose, aerial parts led to the isolation and characterization of bioactive compound named as (imperatorin: furocoumarin). The structure of imperatorin was elucidated by single crystal XRD and it was further confirmed through FTIR and ESI-MS spectroscopy techniques. It was crystallized in monoclinic crystal system with the space group P2i/c. The bioactivity guided revealed that bioactive component significantly inhibited antibacterial activity. The molecular docking is studied to identify the possible binding mode. Furthermore, the potent antibacterial activity (in vitro) of the isolated imperatorin against Gram-positive and Gram-negative bacteria was evaluated.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027575 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SYNTHESIS OF NANOPARTICLES OF CHROMIUM OXIDE USING PLANT EXTRACT THROUGH DMSO (DIMETHYL SULFOXIDE)

(51) International classification	:A61K39/00	(71) <b>Name of Applicant :</b> <b>1)BIOFAC INPUTS PRIVATE LIMITED</b> Address of Applicant :Unit 1, Plot No. 74C, Anrich Industrial Estate IDA Bollaram, Hyderabad, Telangana, India-502325.
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)MR. LAXMI NARAYAN REDDY</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Synthesis of nanoparticle of chromium oxide using plant extract through DMSO {Dimethyl Sulfoxide} solvent is a method of synthesizing chromium oxide nanoparticles, comprising the steps of providing a solution of chromium ions & providing plant extract solution and combining the chromium ion solution and the plant extract solution while stirring at a temperature of 40° C to produce the chromium oxide nanoparticles. In where Chromium nitrate nonhydrate (Cr(NO<sub>3</sub>)<sub>3</sub>.9H<sub>2</sub>O ) used as a chromium ion source, DMSO used as a solvent and plant extract used as a reducing agent, Incubation period results in a change of color of the mixture to Black which is a visual confirmation of the synthesized MPs. Further, synthesized nanoparticles are further characterized using Scanning Electron Microscopy (SEM). .Fig 1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201941016209 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : KINDER FREEZE-A CHILD FRIENDLY ANESTHETIC DEVICE

(51) International classification	:A61K9/14	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Dr. NEERAJA. R</b>
(32) Priority Date	:NA	Address of Applicant :FLAT NO. 202, MAYFLOWER
(33) Name of priority country	:NA	CLASSIC APARTMENT, NANJAREDDY COLONY, OLD
(86) International Application No	:NA	AIRPORT ROAD, BANGALORE Karnataka India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)Dr. NEERAJA. R</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Pain is highly subjective and it is neurologically proven that stimulation of larger diameter fibers, example will be, using appropriate coldness, warmth, rubbing, pressure or vibration - can close the neural gate so that the central perception of Itch and pain is reduced. This is an External Application. This fact is based upon Gate Control theory of Pain by Ronald Melzack and Patrick Wall. The present study was carried out to investigate the effect so vibration stimulant on pain experienced during local anesthetic injections. A device that is used to reduce the pain of a needle stick to a person, the device having a casing containing a vibratory device and a temperature reducing device, and a method for using the device to reduce the pain of a needle stick by applying both thermal and vibration analgesia to a subject during a needle stick.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2019

(21) Application No.201941027986 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IOT BASED ANTI-SMUGGLING SYSTEM FOR RIVER SAND USING WIRELESS SENSOR NETWORK

(51) International classification	:H04L67/12	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Dr. N. DHASARATHAN</b>
(32) Priority Date	:NA	Address of Applicant :DEPT. OF ELECTRONICS &
(33) Name of priority country	:NA	COMMUNICATION ENGG, BVC ENGINEERING COLLEGE,
(86) International Application No	:NA	ODALAREVU, AMALA PURAM, EAST GODAVARI Andhra
Filing Date	:NA	Pradesh India
(87) International Publication No	: NA	<b>2)Mrs. C. MEENAKUMARI</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Mr. G. MANOJ KUMAR</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(62) Divisional to Application Number	:NA	<b>1)Dr. N. DHASARATHAN</b>
Filing Date	:NA	<b>2)Mrs. C. MEENAKUMARI</b>
		<b>3)Mr. G. MANOJ KUMAR</b>

(57) Abstract :

River sand is the natural resource and mostly consumed by human beings. People use more than 40 billion tons of sand in every year. There is so much demand that river beds around the World are stripped bare and the amount of sand being mined is increasing exponentially. As this issue is truly a major emerging one and there is need for depth research. The implementation of monitoring mechanism is an important regarding global aggregates extraction. IoT is a network in which physical objects are connected to the internet through network devices. In this work, IoT based Anti smuggling system for River sand is . implemented through by motion sensor, which is used to sense, collect and sending the information whether river sand is digging (or) not.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2019

(21) Application No.201941028054 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ALERT SYSTEM TO PREVENT SMUGGLING OF VALUABLE TREES

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(51) International classification	:G01M3/00
(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 :**

**1)Y. NARASIMHA REDDY**

Address of Applicant :9-141, Mugathi Pet, Yemmiganur,  
Kurnool(Dist) Andhra Pradesh India

(72)**Name of Inventor :**

**1)Y. NARASIMHA REDDY**

**2)Dr. P.V. S. SRINIVAS**

**3)Dr. K. GOVARDHAN REDDY**

(57) Abstract :

ALERT SYSTEM TO PREVENT SMUGGLING OF VALUABLE TREES Exemplary embodiments of the present disclosure are directed towards a smart alert system and method for proactive monitoring of valuable trees and preventing the tree smuggling, comprising: a tree unit; a sub-server unit; and a forest unit; wherein the tree unit comprises of a power source 212, an array of sensors , RFID receiver 206, a first processing device 214, GPS 208, and a Zigbee transmitter 210; wherein the sub-server unit comprises of a power source, GPS 218, a Zigbee receiver 220, a GSM 224, and a second processing device 230; wherein the forest unit comprises of a computing device 106a. FIG.1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2019

(21) Application No.201941028094 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A MODULAR VEHICLE CONVERSION DEVICE AND METHOD EMPLOYED THEREOFF

(51) International classification	:B62J1/00	(71) <b>Name of Applicant :</b> <b>1)REDDY AUTOMOTIVE PRIVATE LIMITED</b> Address of Applicant :5-8-326, Public Garden Road, Nampally, Hyderabad, Telangana-500001, India. Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)ARUN SREYAS REDDY PALLE</b>
(87) International Publication No	: NA	<b>2)GAUTHAM MAHESWARAN</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards 1. A modular vehicle conversion device, comprising: a mounting frame configured with at least two frame beams supported on at least four frame support members, whereby the at least four frame support members are configured to connect the mounting frame onto a chassis using fasteners, the at least two frame beams are connected by at least one connecting member and the at least two frame beams further configured to house a power transmission assembly. FIG.1

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2019

(21) Application No.201941028159 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SWAPPABLE MODULAR HOLDING SYSTEM

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(51) International classification	:G06F1/16	(71) <b>Name of Applicant :</b> <b>1)REDDY AUTOMOTIVE PRIVATE LIMITED</b> Address of Applicant :5-8-326, Public Garden Road, Nampally, Hyderabad, Telangana-500001, India. Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)ARUN SREYAS REDDY PALLE</b>
(87) International Publication No	: NA	<b>2)GAUTHAM MAHESWARAN</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

---

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a swappable modular holding system, comprising of first holding cases and second holding cases comprise of first panels and second panels, first panels and second panels are configured to create more storage volume to secure objects, objects are swappable between first holding cases and second holding cases, first panels and second panels are assembled and dissembled depending on usage of first holding cases and second holding cases, at least one dock base comprises power connectors and security and communication connectors, power connectors is configured to ensure connection between dock base and holding case and security and communication connectors are configured to provide communication and security to dock base and holding case; and hinged panel comes with security devices configured to lock holding case, security devices are configured to communicate with first processing device to open and close the hinged panel. FIG.1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/07/2019

(21) Application No.201941028405 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING PRESENCE OF AN INTRUDER NEAR A NEONATAL CRIB

(51) International classification	:A61B5/20	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)KARTHICK RAGHUNATH K M</b>
(32) Priority Date	:NA	Address of Applicant :Associate Professor, Department of CSE, Malla Reddy Institute of Engineering and Technology, Maisammaguda, Secunderabad, Telangana-500100, India.
(33) Name of priority country	:NA	Telangana India
(86) International Application No	:NA	<b>2)DR. ANANTHA RAMAN G R</b>
Filing Date	:NA	<b>3)DR. SIVA SHANKAR S</b>
(87) International Publication No	: NA	(72)Name of Inventor :
(61) Patent of Addition to Application Number	:NA	<b>1)DR. R. SUNDER</b>
Filing Date	:NA	<b>2)DR. D. DANIEL</b>
(62) Divisional to Application Number	:NA	<b>3)DR. T. KALAPIRYAN</b>
Filing Date	:NA	<b>4)DR. R. S. RAGHAV</b>
		<b>5)DR. A. DINESH KUMAR</b>
		<b>6)E. SIVARAMAN</b>

(57) Abstract :

Present disclosure provides systems and methods for monitoring presence of an intruder near a neonatal crib in real time. A set of input signals are captured from the one or more sensors that are operatively coupled to the neonatal crib. Attributes pertaining to distance of the intruder from the neonatal crib are determined based on the received input signals. Based on the determined distance, an executable set of instructions generate a rule. Further, the rule determines whether an alarm need be generated based on presence of the intruder near the neonatal crib. Also, based on the rules is determined a volume of alarm signals, and the volume of the alarm signals is varied based on the distance of the intruder from the neonatal crib.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/07/2019

(21) Application No.201941028504 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN EFFECTIVE METHOD OF SWITCHING ACTIVITY REDUCTION IN MULTIPLEXER USING CANONIC SIGNED DIGIT

(51) International classification	:G06F16/22	(71) <b>Name of Applicant :</b> <b>1)Dr. VE. Jayanthi</b> Address of Applicant :Professor & Head, PSNA college of Engineering and Technology, Kothandaramannagar, Dindigul, Tamilnadu, India 624622 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	<b>2)P. Senthil</b>
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)Dr. VE. Jayanthi</b>
Filing Date	:NA	<b>2)P. Senthil</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The field of the present invention relates to the design of novel Switching Activity (SA) reduction is proposed for multiplier unit in Digital Signal Processing integrated circuits. SA depends on its input of the multipliers. Canonic Signed Digit (CSD) representation for anyone input of the multiplier has low input static probability, which is compared to its binary representation. Besides, it reduces the switching probability and toggle rate in logic gates. CSD input and its SA reduction in integrated circuits minimize the undesirable effects of over power consumption in multipliers cells and failures in interconnections. SA and power dissipation of 4, 8, 16 and 32-bit gate level CSD Array Multiplier (CAM) design are estimated from ASIC/ FPGA implementation.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/07/2019

(21) Application No.201941028591 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IWM-TECHNOLOGY : INTELLIGENT WATER MANAGEMENT TECHNOLOGY •

(51) International classification	:A01G25/16
(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 :

**1)DR. L. VENKATESWARA REDDY**

Address of Applicant :SVEC - SREE VIDYANIKETHAN  
ENGINEERING COLLEGE, TIRUPATI ,SREE SAINATH  
NAGAR, TIRUPATI, ANDHRA PRADESH 517102,INDIA

Andhra Pradesh India

(72)Name of Inventor :

**1)DR. L. VENKATESWARA REDDY**

(57) Abstract :

ABSTRACT [100] The Invention IWM-Technology□ is all about creating an ~IWM-Technology™ to help the entire nation as it™s a scarce resource. Under this, with the help of IoT, water can be equally distributed among all the states of the country, world, that means excessive water in one state , country can be distributed to other state, country which is having water scarcity. Now the govt. is also having control on limited water because number of people are having their own water motors or submersibles or bore wells in their houses. So to promote the distribution of water and include everyone in the country in this process, we can offer two-way process, like first process will include those who need water and paying for that and second process will involve those households who are having some excess water and can sale the excess water to the needy one on a very nominal rate through government. It will lead to protection of wastage of water as well. In this invention • IWM-Technology • is to provide the water of each person un-limited water with IOT-Technology and water charging through mobile apps system. In this invention IWM-Technology per member per house number of litter water can fixed ( with biometric registration system ( no of member can use water with Aadhar no biometric activation system) at the time of technology activation), if user, use water under the fixed the pay only decided water per litter amount, if user, use water above the fixed water, then pay additional amount. In the present time to fulfill the water demand of each house, each member, it is essential to provide the sufficient and uniform filter Water means quantity of water through the our Wi-Fi created network of pipes.

No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2019

(21) Application No.201941027753 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : STANDARDIZATION OF CULTURING TECHNIQUES FOR THE ISOLATION OF MYCOBIONTS FROM PARMOTREMA RETICULATUM

(51) International classification	:A01N63/00	(71) <b>Name of Applicant :</b> <b>1)Dr. Balasubramanian Mythili Gananamangai</b> Address of Applicant :33C, Tamil Kudil, Koottapalli Kudi Street, Tiruchengode, Tamilnadu-637211 Tamil Nadu India
(31) Priority Document No	:NA	<b>2)Ms.Shanmugam Poornima</b>
(32) Priority Date	:NA	<b>3)Dr.Ponnusamy Ponnuragan</b>
(33) Name of priority country	:NA	<b>4)Dr.Jayachandran Philip Robinson</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. Balasubramanian Mythili Gananamangai</b>
(87) International Publication No	: NA	<b>2)Ms.Shanmugam Poornima</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.Ponnusamy Ponnuragan</b>
Filing Date	:NA	<b>4)Dr.Jayachandran Philip Robinson</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Lichens are the symbiotic organisms comprise of algae and fungi. Lichen secondary metabolites produced by the mycobiont partner are unique in nature exhibiting diversified biological potential. Hence the production of secondary metabolites without depleting natural resources necessitates the culturing of lichen mycobionts at laboratory environment. In this scenario, the present investigation focussed the development of standardized protocol to isolate and culture mycobiont from the lichen Parmotrema reticulatum. Lichen specimen was obtained from Yercaud hills of Eastern Ghats in Tamil Nadu, India. Isolation of mycobiont was initiated upon seven days of lichen collection. Lichen thalli were cleaned, washed with Tween 20 (2% V/V) solution and surface sterilized using mercuric chloride (0.1%). The surface sterilized lichen thalli were homogenized with sterile distilled water and filtered using a 500 \xm mesh followed by 150 \um mesh membrane filter. The filtrate was inoculated into different media including Malt Yeast extract, Bold's Basal (BB), Modified Bold's basal (MBB) media and Potato Dextrose Agar (PDA) media for isolation of mycobiont. Among the media tested, MYE resulted with higher mycobiont growth rate was supplemented with excess carbon source poly ethylene glycol (0.02, 0.04 & 0.08 g/rnl); Further, the media were incubated at a temperature of 18-20°C with varying alternate light and dark conditions for the period of one month. The standard culture conditions for the isolation of Parmotrema reticulatum was 20°C with the photo period of 10 h light/14 h dark in malt yeast extract media supplemented with poly ethylene glycol of 8 g/L enhanced the growth of mycobiont. The present study will be more useful to isolate lichen mycobionts in order to exploit their biomedical applications.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2019

(21) Application No.201941027803 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ANN BASED SELF-TUNED PID CONTROLLER FOR SPEED CONTROL OF BLDC MOTOR

(51) International classification	:G05B11/36	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)R. SHANMUGASUNDARAM</b>
(32) Priority Date	:NA	Address of Applicant :5/M4, MESSIAH GARDEN, ANNAI
(33) Name of priority country	:NA	INDIRA NAGAR, RAKKIPALAYAM-POST, COIMBATORE,
(86) International Application No	:NA	TAMIL NADU - 641 031. Tamil Nadu India
Filing Date	:NA	<b>2)C.S. RAVICHANDRAN</b>
(87) International Publication No	: NA	<b>3)C.GANESH</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)R. SHANMUGASUNDARAM</b>
(62) Divisional to Application Number	:NA	<b>2)C.S. RAVICHANDRAN</b>
Filing Date	:NA	<b>3)C.GANESH</b>

(57) Abstract :

Brushless DC motors are widely used in electric vehicles, robotics, aeronautics, food and chemical industries. The speed of the BLDC motor has to be controlled precisely in control applications under load variations and parameter variations of motor and load. There is growing demand for suitable controller to effectively control the speed on BLDC motor under load variations and parameter variations of motor and load. Hence, in this work an ANN self-tuned PID controller is designed to effectively control the BLDC motor and achieve better performance.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201941023059 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROFILED MULTI-PIN ELECTROSPINNING FOR NANOFIBRE PRODUCTION AND ENCAPSULATION OF NANOPARTICLE INTO NANOFIBRES

(51) International classification	:D06M11/00	(71) <b>Name of Applicant :</b> <b>1)GOPI THAVASIAPPAN VENKATESH PRABU</b> Address of Applicant :10/45 (K) 3RD STREET, RAM NAGAR, GOBICHETTIPALAYAM, ERODE (DISTRICT) Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)GOPI THAVASIAPPAN VENKATESH PRABU</b>
(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 invention related to a novel high production method for electrospinning fibres and nanoparticle encapsulation with electrospinning fibres wherein the fiber spinning solution is infused with profiled multi-pins which produce sphere shaped electrospinning polymer solution droplet profile on the pin surfaces; This method used multiple profiled pins moving up and down to lift the polymer solution or melt as the spinning solution from the reservoir. The polymer solution creates sphere shaped profile on the pin surface, in turn, in response to an applied electrical force, generates jets of the electrospinning fluid that travels away from the pin surface; vaporize the solvent, and produce polymeric fibres on the collector; continuous supplying the spinning solution from the reservoir by pneumatic or motor drive mechanism under conditions effective to form sphere shaped polymer droplet profile from the spinning solution and facilitate fibre production. The profiled multi-pins are positively hold the nanoparticles and produce nanofibres with even distribution of nanoparticles throughout the fibre production. The methods are able to achieve higher productivity than known single needle method, and are tunable. The produced electrospun mat exhibits more functional activities than the existing needle and needless electrospinning system due to even distribution of nano particle or micro particles encapsulated with electrospun fibre mat.

No. of Pages : 26 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/05/2018

(21) Application No.201847018705 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WELL-DRILLING APPARATUS AND METHOD OF USE

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(51) International classification :E21B4/02E21B41/00E02F5/20  
(31) Priority Document No :62/246631  
(32) Priority Date :27/10/2015  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2016/095001  
    Filing Date :07/08/2016  
(87) International Publication No :WO 2017/072746  
(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)CRAWFORD, Russell**

Address of Applicant :3016 Overland St. Round Rock, 78681  
U.S.A.

(72)Name of Inventor :

**1)CRAWFORD, Russell**

(57) Abstract :

A well-drilling apparatus a system and a method which may be operable by hand or by mechanical means. The well-drilling apparatus comprises: a drill stem comprising a tubular elongated body the tubular elongated body comprising a plurality of tubular portions a plurality of fasteners each of the plurality of fasteners affixed to at least two of the plurality of tubular portions a plurality of discharge ports spaced along a length of the plurality of tubular portions and a bit affixed to a first tubular portion the bit comprising a plurality of prongs and an inlet port; and an air hose retainer affixed adjacent to the bit the air hose retainer configured to retain a portion of an air hose.

No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/06/2019

(21) Application No.201941024658 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A PROCESS FOR THE PREPARATION OF TERNARY HETEROJUNCTION SEMICONDUCTOR NANOCOMPOSITES FOR THE PHOTODE

(51) International classification	:B82Y30/00	(71) <b>Name of Applicant :</b> <b>1)Dr.GUTTENA VEERABHADRAM</b> Address of Applicant :Department of Chemistry, University College of Science, Osmania University, Hyderabad, Telangana state-500007, INDIA. Telangana India
(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 process for an efficient, low cost, reusable and stable various mono, binary and ternary metal sulfide semiconductor nanocomposites of formula as A-MxSy/g-C3N4@SBA-15 (A .= Au, Pt, and Pd; M = Zn, Cd, Cu, Ag and Bi; x < 2; y < 3), preferably Au-ZnS/g-C3N4@SBA-15, Au-ddS/g-C3N4@SBA-15, Au-CuS/g-C3N4@SBA-15; Au-Ag2S/g-C3N4@SBA-15, Au-Bi2S3/g-C3N4@SBA-15, Pt-ZnS/g-C3N4@SBA-15, Pt- CdS/g-C3N4@SBA-15, Pt-CuS/g-C3N4@SBA-15, Pt-Ag/g-CgSBA-1S, Pt-Bi2S3/g- C3N4@SBA-15, Pd-ZnS/g-C3N4@SBA-15, Pd-CdS/g-C3N4@SBA-15, Pd-CuS/g- C3N4@SBA-15, Pd-Ag2S/g-p3N4@SBA-15, ,and Pd-Bi2S3/g-C3N4@SBA-15 ternary heterojunction semiconductor nanocomposites as - photocatalysts-by a simple hydrothermal: method for highly efficient degradation of toxic organophosphorus pesticides such as malathion (MLT), monocrotophos (MCP), and chlorpyrifos (CPS) in aqueous medium in the absence of reducing agents under natural sunlight irradiation. The synthesized ternary heterojunction semiconductor nanocomposites have mean diameter in the range of  $13\pm3$  nm to  $57\pm3$  nm and specific surfacearea in the range !of  $26.4 \text{ m}^2 \text{ g}^{-1}$  to  $228.6 \text{ m}^2 \text{ g}^{-1}$ . The highly ..m- enhanced photodegradation efficiencies of organophosphorus pesticides are 99.15% in the presence of 10 mg/L amount of prepared ternary A-MxSy/g-C3N4@SBA-15 photocatalysts and reused for five times without loss of photocatalytic activity, it suggested that the synthesized composites were stable and efficient for the degradation of toxic organophosphorus pesticides as environmental pollutants.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/07/2019

(21) Application No.201941026612 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SMART BIO - TRANSESTERIFICATION PROCESS FOR BIODIESEL EXTRACTION

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(51) International classification	:C11B1/10	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)N.NAGABHOOSHANAM</b>
(32) Priority Date	:NA	Address of Applicant :ST PETERS COLLEGE OF
(33) Name of priority country	:NA	ENGINEERING AND TECHNOLOGY, AVADI-600054,
(86) International Application No	:NA	CHENNAI, TAMILNADU, INDIA. Tamil Nadu India
Filing Date	:NA	<b>2)DR.S.BASKAR</b>
(87) International Publication No	: NA	<b>3)ANANTHA RAMAN LASHMIPATHI</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)N.NAGABHOOSHANAM</b>
(62) Divisional to Application Number	:NA	<b>2)DR.S.BASKAR</b>
Filing Date	:NA	<b>3)ANANTHA RAMAN LASHMIPATHI</b>

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(57) Abstract :

The sensors and electronics based biodiesel extraction from the oil is more precise methodology to achieve the effective way of biodiesel production because the controlled addition of methanol is only way of extracting the maximum biodiesel. The process is based on the common transesterification technique, which converts the oil stage by stage with reduction in the glycerol to convert into the biodiesel.

No. of Pages : 6 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/12/2018

(21) Application No.201841047649 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MULTI-UTILITARIAN COPRA DETACHER

(51) International classification	:A61B17/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)BALAKRISHNAN THAMPI RAMESH</b>
(32) Priority Date	:NA	Address of Applicant :SCHOOL OF SCIENCES, RAJAGIRI
(33) Name of priority country	:NA	COLLEGE OF SOCIAL SCIENCES, KALAMASSERY,
(86) International Application No	:NA	KOCHI, KERALA, INDIA- 683 104 Kerala India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)BALAKRISHNAN THAMPI RAMESH</b>
(61) Patent of Addition to Application Number	:NA	<b>2)RAHUL RAMESH</b>
Filing Date	:NA	<b>3)KARUKAPPILLIL XAVIER JOSEPH</b>
(62) Divisional to Application Number	:NA	<b>4)NEENTHAMDATHIL MOHANDAS KRISHNAKUMAR</b>
Filing Date	:NA	

(57) Abstract :

700233030 700233030 7. ABSTRACT OF THE INVENTION The invention pertains to a manually operated machine that can be used for multiple purposes such as separation of copra from dried coconuts, cutting of coconuts and coconut fronds, separation of leaflets from the coconut frond and also for the separation of leaf midribs for broomstick making. Moreover, with an additional attachment, having variable angle adjustment which also act as a Copra Detacher Support Stand, this machine will enable the user for cutting of Copra, fruits and vegetables in an easy and comfortable way. The present practice of detaching Copra is to use ordinary knives which is a risky and time consuming process and will often lead to injuries on hand during this process. The machine has several uniqueness. It is low cost when compared to any other machine performing the same function. Its operation is relatively risk free when compared to the traditional style of copra detachment and other operations mentioned above. This machine has no complicated parts and it does not require special skills and involve any complex operations. It is a single machine capable of performing multiple operations instead of buying separate machine for each function mentioned earlier. This machine is easy to carry, durable, eco-friendly, and having low maintenance charges. It is also affordable by marginal farmers and individual households who cannot buy costly machines. The cost of this machine can be minimised by adopting similar ergonomic designs. OFFICE CHENNAI 2 6/86'2 019 16-46

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2018

(21) Application No.201847018224 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : HEADTRACKING FOR PARAMETRIC BINAURAL OUTPUT SYSTEM AND METHOD

(51) International classification

:H04S3/00

(31) Priority Document No

:62/256,462

(32) Priority Date

:17/11/2015

(33) Name of priority country

:U.S.A.

(86) International Application No

:PCT/US2016/062497

Filing Date

:17/11/2016

(87) International Publication No

:WO 2017/087650

(61) Patent of Addition to Application

:NA

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 :1275 Market Street San Francisco, California 94103, USA U.S.A.

**2)DOLBY INTERNATIONAL AB**

(72)Name of Inventor :

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**2)COOPER, David Matthew**

**3)DAVIS, Mark F.**

**4)MCGRATH, David S.**

**5)KJOERLING, Kristofer**

**6)MUNDT, Harald**

**7)WILSON, Rhonda J.**

(57) Abstract :

A method of encoding channel or object based input audio for playback the method including the steps of: (a) initially rendering the channel or object based input audio into an initial output presentation; (b) determining an estimate of the dominant audio component from the channel or object based input audio and determining a series of dominant audio component weighting factors for mapping the initial output presentation into the dominant audio component; (c) determining an estimate of the dominant audio component direction or position; and (d) encoding the initial output presentation the dominant audio component weighting factors the dominant audio component direction or position as the encoded signal for playback.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2018

(21) Application No.201841026155 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : AUTOMATIC GAS LEAKAGE DETECTION, ALERTING AND BOOKING SYSTEM USING GSM

(51) International classification

:B60T  
15/08

(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 :**

**1)Mrs. R.RAMALAKSHMI**

Address of Applicant :DEPARTMENT OF ELECTRONICS  
AND COMMUNICATION ENGINEERING, RAMCO  
INSTITUTE OF TECHNOLOGY, NORTH VENGANALLUR  
VILLAGE, RAJAPALAYAM, TAMIL NADU, INDIA-626117  
Tamil Nadu India

**2)Ms.M.ANUPRIYA**

**3)Ms. S.JEYASELVI**

**4)Ms.R.KALAIARASI**

**(72)Name of Inventor :**

**1)Mrs. R.RAMALAKSHMI**

**2)Ms.M.ANUPRIYA**

**3)Ms. S.JEYASELVI**

**4)Ms.R.KALAIARASI**

**(57) Abstract :**

Gas stoves are now very common in all houses including rural and remote areas. The main objective of the proposed model is to design a microcontroller (ATmega 328) based toxic gas detection, automatic trip-off and SMS based gas booking system. The leakage of hazardous gases like LPG and propane are sensed using gas sensors (MQ-7). If these gases exceed the threshold level, the alarm is generated immediately and an alert message (SMS) is sent to the authorized person using GSM. In order to avoid explosion the regulator is automatically turned off and also the relay switch is used to trip the main power supply off-which will prevent electrical sparks. In this paper a smart gas system is proposed, that will automatically turn ON the gas cylinder's regulator when the vessel is present on the stove holder and in the absence of vessel, the knob will be turned to OFF position. Continuous weight measurement of cylinder is done using a load cell which is interfaced with a Microcontroller. When the gas cylinder reaches lower weight threshold, SMS is sent automatically to the gas provider. The advantage of this automated detection, trip-off and booking system over ensures safety due to its automatic trip-off feature and it makes booking easier and time saving due to its automatic gas booking feature.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/06/2019

(21) Application No.201941024994 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NANO CHANNELLED PHOTOVOLTAIC CELL

(51) International classification	:H01L31/00	(71) <b>Name of Applicant :</b> <b>1)DR. AVVARU VENKATA SATYANARAYANA</b> Address of Applicant :H. NO. 86/85-S CHITHAMBARA RAO STREET, KURNOOL, ANDHRA PRADESH, INDIA-518 001. Andhra Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	<b>2)DR. KOPPALA VENU GOPAL</b>
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)DR. AVVARU VENKATA SATYANARAYANA</b>
Filing Date	:NA	<b>2)DR. KOPPALA VENU GOPAL</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT The photovoltaic cell efficiency declines as the cell surface temperature surges. To grab the maximum power, the photovoltaic cell must be retained at ambient temperature. Therefore, the cell cooling is essential. Apart from the exterior, if the interior of the cell is cooled the efficiency can be augmented. The device Nano Channeled Photovoltaic Cell discloses the internal channels made through the thickness. The embodiment shown in the Figure 1 is the perspective view of straight internal channels inside the solar cell and the embodiment shown in the Figure 2 illustrates the third angle projection of the device. The embodiment shown in the Figure 3 demonstrates the tapered internal channels.

No. of Pages : 14 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2019

(21) Application No.201941002388 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HYDROFORM TUBULAR STRUCTURE FOR STEERING COLUMN SUPPORT IN AN ELECTRIC THREE-WHEELER

(51) International classification	:B21D26/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Mahindra Electric Mobility Limited</b>
(32) Priority Date	:NA	Address of Applicant :66-69, 72-76, Bommasandra Industrial
(33) Name of priority country	:NA	Area, 4th Phase, Jigani Link Road, Bangalore, Karnataka 560 099,
(86) International Application No	:NA	India. Karnataka India
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Basab Paul</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Vamsi Pathapadu</b>
Filing Date	:NA	<b>3)Channakeshava Murthy</b>
(62) Divisional to Application Number	:NA	<b>4)KS Priyathan</b>
Filing Date	:NA	<b>5)Pratik Singh</b>

(57) Abstract :

A space frame made of tubular structure for an electric three-wheeler vehicle is disclosed. The tubular structure also includes at least three pair of pillars. Each of the at least three pair of pillars include a first end which is mechanically coupled to the space frame chassis. Each of the at least three pair of pillars include a second end which is configured to form a roof section by coupling the second end of each of the at least three pairs of pillars together using a plurality of hinges. The tubular structure further includes a steering support tube mechanically coupled to the space frame chassis and in proximity with a front end of a seat assembly. The steering support tube is configured to provide stability and security to a user from fatal accident. FIG. 1

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2019

(21) Application No.201941002438 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A TUBULAR STRUCTURE FOR AN ELECTRIC THREE-WHEELER VEHICLE

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(51) International classification	:B21D26/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Mahindra Electric Mobility Limited</b>
(32) Priority Date	:NA	Address of Applicant :66-69, 72-76, Bommasandra Industrial
(33) Name of priority country	:NA	Area, 4th Phase, Jigani Link Road, Bangalore, Karnataka, India,
(86) International Application No	:NA	Pin Code560 099. Karnataka India
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Giridher Katta</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Basab Paul</b>
Filing Date	:NA	<b>3)Balaji Kalyanasundaram</b>
(62) Divisional to Application Number	:NA	<b>4)Ashish Chouksey</b>
Filing Date	:NA	<b>5)Vamsi Pathapadu</b>

---

(57) Abstract :

A tubular structure for an electric three-wheeler vehicle is disclosed. The tubular structure includes a space frame chassis. The tubular structure also includes a first pair of pillars mechanically coupled to a front portion of the space frame chassis. The tubular structure further includes a second pair of pillars mechanically coupled to a middle portion of the space frame chassis. The tubular structure further includes a third pair of pillars mechanically coupled to a seat assembly. A second end of the first pair of pillars, the second pair of pillars and the third pair of pillars are mechanically coupled to each other to form a roof section. Further, the third pair of pillars includes a set of roof members configured to provide modularity for at least one of a soft top and a hard top in the electric three-wheeler vehicle. FIG. 1

No. of Pages : 17 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/07/2019

(21) Application No.201941028160 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND METHODS FOR MONITORING AND FORECASTING PHYSIOLOGICAL CONDITIONS

(51) International classification	:A61B5/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)G. NARAYANAMMA INSTITUTE OF TECHNOLOGY AND SCIENCE
(32) Priority Date	:NA	Address of Applicant :Ambedkar Nagar, Shaikpet, Hyderabad-500104, Telangana, India. Telangana India
(33) Name of priority country	:NA	2)A.SAI NAGA REKHA
(86) International Application No	:NA	3)CH. HARIKA
Filing Date	:NA	4)G. VEDIKA
(87) International Publication No	: NA	5)K. AKSHITHA
(61) Patent of Addition to Application Number	:NA	6)I. SAHITYA
Filing Date	:NA	(72)Name of Inventor :
(62) Divisional to Application Number	:NA	1)DR. B. VENKATESHULU
Filing Date	:NA	2)B.RAKESH GOUD
		3)A.SAI NAGA REKHA
		4)CH. HARIKA
		5)G. VEDIKA
		6)K. AKSHITHA
		7)I. SAHITYA

(57) Abstract :

Exemplary embodiments of the present disclosure are directed towards a system for monitoring and forecasting the physiological conditions, comprising: a wearable device 102 configured to forecast one or more physiological conditions of a first end user, the wearable device 102 comprises one or more non-invasive sensors configured to detect the one or more physiological parameters by a processing device 108; a first computing device 104 and a second computing device 105 connected to the wearable device 102 via a network 106, the first computing device 104 and the second computing device 105 configured to receive one or more emergency notifications by the wearable device 102; and a cloud server 110 configured to update and store one or more physiological parameters captured by the wearable device 102. FIG. 1

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2019

(21) Application No.201941028225 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HYDROGEN GAS BASED COOKING SYSTEM

(51) International classification	:F24C1/04	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)DSOUZA, Joel Nelson</b>
(32) Priority Date	:NA	Address of Applicant :John Jill, Behind St. Dominic Church,
(33) Name of priority country	:NA	Ashok Nagar, Mangalore-575006, Karnataka, India. Karnataka
(86) International Application No	:NA	India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)DSOUZA, Joel Nelson</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A hydrogen fuel based cooking system is disclosed. The device comprises an engine that is adapted to rotate a flywheel that is coupled to the engine. An alternator coupled to the flywheel rotates on rotation of the flywheel to generate electric power. Upon being supplied with electric power and water as input a hydrogen generator that is operatively coupled to the alternator generates hydrogen fuel. The generated hydrogen fuel is then fed as input to the cooking device to be used for cooking.

No. of Pages : 15 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/07/2019

(21) Application No.201941028226 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : A PORTABLE DEVICE FOR HEATING FLUIDS THROUGH MAGNETICINDUCTION

(51) International classification	:H05B6/10	(71) <b>Name of Applicant :</b> <b>1)DSOUZA, Joel Nelson</b> Address of Applicant :John Jill, Behind St. Dominic Church, Ashok Nagar, Mangalore-575006, Karnataka, India. Karnataka India
(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 heating device is disclosed. The device comprises a rotary device, a metallic plate coupled to a spindle of the rotary device, at least one pair of magnets located on the metallic plate; and a flat spiral coil located perpendicular to the at least one pair of magnets such that an air gap is created between the metallic plate and the flat spiral coil. The flat spiral coil has at least one passage for flow of fluid, and the rotary device is adapted to rotate the metallic plate to enable rotation of the at least one pair of magnets such that the flat spiral coil is exposed to changing magnetic field of the at least one pair of magnets. The change in the magnetic field leads to heating of the fluid flowing through the at least one passage of the flat spiral coil.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/04/2018

(21) Application No.201741036272 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HYBRID MEMBRANE-BIOREACTOR FOR PHARMACEUTICAL INDUSTRIAL AND HOSPITAL WASTE WATER TREATMENT

(51) International classification	:C02F1/00	(71) <b>Name of Applicant :</b> <b>1)DR.N.SIVARAJASEKAR</b> Address of Applicant :Kumaraguru College of Technology, Chinnavedampatti, Coimbatore. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)DR.N.SIVARAJASEKAR</b>
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 novel graphene blended membrane mounted bioreactor as an effective tool for the treatment of pharmaceutical industrial waste water at low operation cost. The membrane bioreactor (MBR) according to the present invention is provided with poly sulfonate / graphene blended membrane. The graphene blended membrane is prepared using a graphene which is extracted from low cost agricultural waste material such as a sugarcane bagasse. The poly sulfonate / graphene blended membrane is prepared which had the weight percentage of graphene with respect to poly sulfonate is in the range 0.15 to 2.50. The present graphene blended membrane more hydrophilic than the membrane without graphene because of the functional groups, which would result in a higher water ux. Thus, the present graphene blended membrane is able to remove the micro pollutants completely from the pharmaceutical industrial and hospital waste water. FIGURE -1

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/03/2018

(21) Application No.201841010021 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DYNAMIC TRAFFIC DETECTION AND VEHICLE CLASSIFICATION USING PIEZOELECTRIC SENSOR

(51) International classification	:G08G1/01	(71) <b>Name of Applicant :</b> <b>1)SRIVATHSAN R</b> Address of Applicant :Kumaraguru College of Technology, Chinnavedampatti, Coimbatore Tamil Nadu India <b>2)VEDHAVIYAS GOPALAKRISHNAN</b>
(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 method and system of traffic detection and classification of vehicles by using piezoelectric sensors which effectively used in dynamic traffic control. The present system comprises one or more sensing devices(S,<sup>TM</sup>) consisting of an outer casing (1), a lay flat tube (2), a sensor holder (3), one or more piezo disks (4) & one or more metallic strips (5) and one or more control box (6,<sup>TM</sup>). The passage of vehicles are detected when their tyres pass over the sensing device(S,<sup>TM</sup>) using the piezo disk (4) that generates potential difference. The potential difference is carried to the control box (6,<sup>TM</sup>) which houses the microcontroller (7,<sup>TM</sup>) and microcomputer (8,<sup>TM</sup>). The microcontroller (7,<sup>TM</sup>) is connected to microcomputer (8,<sup>TM</sup>) which registers location of contact of tyre on the particular piezo disks (4) and uploads data to cloud where programs are run for traffic detection and vehicle classification. FIGURE -3

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/04/2018

(21) Application No.201841013862 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN APPARATUS FOR THE MANUFACTURE OF GROUND CHAKKER IN FIRE WORKS INDUSTRY

(51) International classification

:F42B

4/30

(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 :

**1)PON RAJ K**

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Tamil Nadu India

**2)NAVA PRAVEEN S**

**3)VIJAYANAND K**

(72)Name of Inventor :

**1)PON RAJ K**

**2)NAVA PRAVEEN S**

**3)VIJAYANAND K**

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(57) Abstract :

The present invention discloses an apparatus for the manufacture of ground chakker in fireworks industry. The rolled paper tube (6) filled with explosive powder emerging from drive roller (2) and driven roller (3) is guided through funnel shaped guide (7). During the passage, glue is applied at least to one of the flat sides of paper tube (6) inside by gluing arrangement (8). The glued paper tube (6) enters to one of the axial slots (11c) of the rolling shaft (11). The winding is aided by the compacting roller (9) and once the full length is wound, the rolling shaft (11) is lifted upward by pneumatic cylinder (13) and the rolled Chakker is loaded in the Chakker holder (10). Position sensor (14) ensure the insertion of the paper tube (6) into the axial slots (11c) and rotation sensor (15) count the number of revolutions of rolling shaft (11). FIGURE -1

No. of Pages : 29 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201841049314 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BACTERIA BASED BIOSENSOR FOR HIGHLY SENSITIVE WATER QUALITY MONITORING

(51) International classification	:G01N33/48	(71) <b>Name of Applicant :</b> <b>1)BHARATH UNIVERSITY</b> Address of Applicant :173, Agharam Road, Selaiyur, Chennai 600 073 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)S.Prasath alias Surendhar</b>
(87) International Publication No	: NA	<b>2)Dr.R.Vasuki</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Dr.L.Jeyanthi Rebecca</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention presents a miniaturized bacteria-based bio sensing platform for sensitive, reliable and practical on-line monitoring of water quality. Two biosensors are integrated into a dual-channel micro fluidic device which operates as detection and a reference sensor, respectively. By providing a reference-compensated sensing response, the device is capable of minimizing environmental interferences such as temperature and flow rate, ultimately leading to high sensitivity and reliability in water quality monitoring.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/07/2019

(21) Application No.201947030021 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEVICE AND METHOD FOR DISCRIMINATING SPERMATOZOA

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(51) International classification :B01L3/00C12N5/071G01N33/50  
(31) Priority Document No :1750368  
(32) Priority Date :18/01/2017  
(33) Name of priority country :France  
(86) International Application No :PCT/EP2018/051154  
Filing Date :18/01/2018  
(87) International Publication No :WO 2018/134281  
(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 :3595, route de Tournai 59500 Douai France

(72)Name of Inventor :

1)TREIZEBRE, Anthony

2)THOMMEN, Quentin

3)PESEZ, Jean

4)DAMART, Herv

5)LIEGEOIS, Luc

6)COURTADE, Emmanuel

(57) Abstract :

The device comprises a transport channel (100) excitation means (4; 4) for exciting the fluorescence emission of the marked spermatozoa (SP) in the transport channel in a transport direction (Y) fluorescence detection means (5) and electronic processing means (7) for discriminating the marked spermatozoa (SP). The transport channel comprises a main plane of symmetry (PI) parallel to the transport direction (Y) and a cross-section in a plane (X Z) perpendicular to the transport direction (Y) that is symmetrical that is characterised by a main axis of symmetry (A) and has a maximum transverse dimension (H) measured along this main axis of symmetry (A) and a minimum transverse dimension (E) smaller than the maximum transverse dimension (H) and measured along a secondary transverse axis (B) perpendicular to the main axis of symmetry (A).

No. of Pages : 30 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :25/07/2019

(21) Application No.201947030163 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LAYERED AUGMENTED ENTERTAINMENT EXPERIENCES

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(51) International classification:H04N21/81G06T19/00A63F13/26  
(31) Priority Document No :62/484,121  
(32) Priority Date :11/04/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2018/026974  
Filing Date :10/04/2018  
(87) International Publication No :WO 2018/191312  
(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)DOLBY LABORATORIES LICENSING CORPORATION**

Address of Applicant :1275 Market Street San Francisco, California 94103 U.S.A.

(72)**Name of Inventor :**

**1)NINAN, Ajit  
2)MAMMEN, Neil  
3)BROWN, Tyrome Y.**

(57) Abstract :

Spatial information that describes spatial locations of visual objects as in a three-dimensional (3D) image space as represented in one or more multi-view unlayered images is accessed. Based on the spatial information a cinema image layer and one or more device image layers are generated from the one or more multi-view unlayered images. A multi-layer multi-view video signal comprising the cinema image layer and the device image layers is sent to downstream devices for rendering.

No. of Pages : 52 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :05/11/2018

(21) Application No.201841041794 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYMERISED COCONUT LEAF BASED ROOFING AND FLOORING TILES

(51) International classification	:E04H15/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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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INDIA. Kerala India

**(72)Name of Inventor :**

**1)BALAKRISHNANA THAMPI RAMESH**  
**2)KARUKAPPILLIL XAVIER JOSEPH**  
**3)NEENTHAMADATHIL MOHANDAS**  
**KRISHNAKUMAR**  
**4)RAHUL RAMESH**

(57) Abstract :

The present invention relates to a process that can be utilized in a very simple and easy way for the production of durable, water, and heat and UV resistant, termite proof roofing and flooring tiles. The production can be carried out without using any machinery. The products derived out of this process has several uniqueness. It is low cost when compared to any other similar products available in the market. The products can be produced manually within a short span of time without much investment. It will create value-addition to the coconut leaves which would otherwise become wasted or used as firewood in the conventional 'Choolas' or Stoves. It becomes economically important to farmers for the construction of farm houses and for their roofing and flooring purposes in a cheaper way when compared to the present roofing materials such as Aluminium, Mild Steel and Poly Carbonate Sheets. It can also be used as partition walls and has low maintenance charges. No machine and special skill are required for the production process. It will provide more avenues of employment generation besides providing high unit value products from these indigenous materials.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/07/2019

(21) Application No.201941029200 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ED-MACHINE: NANO POWDER MIXED VEGETABLE OIL AS DIELECTRIC FLUID COUPLED WITH CRYOGENICALLY TREATED ELECTRODE AND BIO THINNER FOR ENHANCEMENT OF PROCESS PERFORMANCE IN ELECTRICAL DISCHARGE MACHINING

(51) International classification	:H01B3/20	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR.B.SINGARAVEL
(32) Priority Date	:NA	Address of Applicant :ASSISTANT PROFESSOR
(33) Name of priority country	:NA	DEPARTMENT OF MECHANICAL ENGINEERING, VIGNAN
(86) International Application No	:NA	INSTITUTE OF TECHNOLOGY AND SCIENCE,
Filing Date	:NA	DESHMUKHI, HYDERABAD Telangana India
(87) International Publication No	: NA	2)MR.K.MANGAPATHI RAO
(61) Patent of Addition to Application Number	:NA	3)DR VINAY KUMAR DOMAKONDA
Filing Date	:NA	4)DR.K.CHANDRA SHEKAR
(62) Divisional to Application Number	:NA	5)DR.S.DEVA PRASAD
Filing Date	:NA	6)DR. SYED MUJAHED HUSSAINI
		7)MR.N.VENKATESHWARALU
		8)DR. M.MOHAMMED ASIF
		(72)Name of Inventor :
		1)DR.B.SINGARAVEL
		2)MR.K.MANGAPATHI RAO
		3)DR VINAY KUMAR DOMAKONDA
		4)DR.K.CHANDRA SHEKAR
		5)DR.S.DEVA PRASAD
		6)DR. SYED MUJAHED HUSSAINI
		7)MR.N.VENKATESHWARALU
		8)DR. M.MOHAMMED ASIF

(57) Abstract :

[240] The my invention ED-Machine(EDM) • issues are low MRR, high TWR, poor finish, hazardous emissions, sludge generations and toxic waste. EDM process, dielectric fluid plays a major role for ionization followed by decomposition of material. Hydrocarbon oil based dielectric fluids, which generates harmful elements. Recently, vegetable oil based dielectric is in focus to achieve sustainable concept and it is observed that few vegetable oils have similar dielectric properties and it is possible to replace as dielectric fluid in EDM process. The result observed that higher MRR than conventional dielectric. But, TWR and SR observed that during the process are higher than conventional one. Nano powder added in dielectric medium which is used to influence electrical field intensity conductivity in the process. Powder particles presented in inter electrode gap are used to absorb heat that are deposited to the machined surface. It is used to reduce the heat transfer to the electrode surface. Also, it produces uniform spark between the electrodes and causes shallow craters. Hence, less electrode wear and good finishing are obtained.Cryogenically treated electrode improves electrical, thermal conductivity and surface hardness of the electrode of the electrode. The result in efficient heat transfer away from the electrode which reduce its wear.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2018

(21) Application No.201841021722 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUTOMATIC SIDE STAND REMOVING SYSTEM

(51) International classification	:F16K 31/524	(71) <b>Name of Applicant :</b> <b>1)A.RAVI</b> Address of Applicant :172, KOOTTURAVUPATTY, EDAYAMELUR (POST), SIVAGANGAI (TK & DIST), TAMIL NADU - 630 562. Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)A.RAVI</b>
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 modern developing world, automatic plays important role especially two-wheeler i.e., (motorcycle and bikes) plays a major role .Even though they are helpful there are some sad events like accidents due to careless of rider. Major accidents occur due to forgetting of lifting side stand. To rectify this problem many advance measure have taken, but they are useless, so as a by considering that it should be implemented practically in all types bikes the new system CAM SIDE STAND RETRIEVE SYSTEM this system can be attached in all type of two-wheeler (mopeds, geared, non-geared, hand geared bikes) and it is designed based on the working principal of bikes.

No. of Pages : 3 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/06/2019

(21) Application No.201941023874 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PCC - PHOTOCATALYTIC SELF-CLEANING CONCRETE

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(51) International classification	:B01D53/50	(71) <b>Name of Applicant :</b> <b>1)MISS MULLU I.</b> Address of Applicant :SAFURA MANZIL MULAMKADAKAM, THIRUMULLAVARAM POST, KOLLAM - 691 012. Kerala India
(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 :

Air pollution is an environmental problem that has significant negative health implication for humans as well as other organisms. Major primary pollutant that are produced by human activity include nitrogen oxide (NO), sulphur dioxide and volatile organic compounds (VOC) which are emitted from combustion at high temperatures. When photo catalytic materials absorb ultraviolet radiations from the sun, hydroxyl radicals and super oxide anions they have the ability to react with pollutant molecules such as NOX/SO<sub>2</sub>, thus converting less harmful substances. The majority of cleansing effect due to photo catalysis happens within 24 hours of photo catalysis process. Self-cleaning concrete is a construction material that remove pollutants from the air as it keeps its surface clean. So, this new cement can be used to produce concrete and plaster product that save on maintenance costs while they ensure a cleaner environment. In this study, we use titanium dioxide as photocatalyst. The versatile function of TiO<sub>2</sub>, which can serve both as photocatalytic materials and structural materials. Also cementitious concrete has great practical difficulties in achieving high compressive strength and durability of high performance structures. But it becomes a challenge to increase the compressive strength and durability of particular cementitious composite and also maintaining basic desirable properties of concrete. In our study, an attempt is made to understand the effect of Nano Titanium Dioxide (TiO<sub>2</sub>) on concrete of M20 grade with various proportions 0.5%, 0.75%, 1.0%, 2.0%, 4.0% in relation with the weight of cement. The workability, Strength parameters at various proportions of Nano Titanium Dioxide (TiO<sub>2</sub>) are tested at different durations. The results obtained are discussed. The properties of self-cleaning concrete and conventional concrete are also compared.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/07/2019

(21) Application No.201941028647 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TRAFFIC SIGNAL CONTROLLING USING DENSE OFTHE ANDROID DEVICES

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		<p><b>(71)Name of Applicant :</b> <b>1)Guruprasath R</b> Address of Applicant :Assistant Professor Department of EEE Sri Krishna College of Engineering and Technology Kuniyamuthur Coimbatore Tamil Nadu India</p> <p><b>2)Dr.K.Lakshmi</b> <b>3)Udhayakumar N</b> <b>4)Maideen Abdhulkader Jeylani A</b> <b>5)Yuvan Raj Kumar M</b> <b>6)RameshKumar K</b> <b>7)Roopa Shree R</b> <b>8)Vignesh T</b></p>
(51) International classification	:G08G1/0137	
(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	<p><b>(72)Name of Inventor :</b></p> <p><b>1)Guruprasath R</b> <b>2)Dr.K.Lakshmi</b> <b>3)Udhayakumar N</b> <b>4)Maideen Abdhulkader Jeylani A</b> <b>5)Yuvan Raj Kumar M</b> <b>6)RameshKumar K</b> <b>7)Roopa Shree R</b> <b>8)Vignesh T</b></p>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In early days, the traffic signal was controlled by time and in recent times, the research is going on in image processing and heat sensing to control the traffic signal. The proposed idea is based on controlling the traffic signal using the movement of the android devices. The instant of the device is from the external source. The idea produces accurate changing of the traffic signal with respect to the dense of Android devices in that particular traffic signal area. Based on the dense of the Android devices, the traffic lights changes from lane to lane. The proposed system is to make the traffic signal smarter at very low cost when compared to above-mentioned techniques.

No. of Pages : 9 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :16/07/2019

(21) Application No.201941028662 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM AND METHOD FOR INJECTING COMPRESSED AIR INTO THE TURBINE VOLUTE OF A TURBOCHARGER

(51) International classification	:F02B37/00	(71) <b>Name of Applicant :</b> <b>1)RAJAGOPAL REDDY THATIPARTHI</b> Address of Applicant :#302, Srinilaya Residency, Green Avenues Line, Nizampet Road, Hyderabad-500090, Telangana, India. Telangana India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)RAJAGOPAL REDDY THATIPARTHI</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A system (12) and method for injecting compressed air into the turbine volute (4) tangentially to the rotor, for initial speed up of the turbocharger (16) comprising of an internal combustion engine (1) a turbocharger (16), a turbine volute housing (4) with a circumferential fluid conduit (17), enabled with a primary inlet port (13) to feed the exhaust gases from the exhaust manifold (2) to the turbine rotor (10) through a fluid communication (3). The turbine volute housing (4) enabled with a secondary inlet port (14) to feed the compressed air to the turbine rotor (10) from an air reservoir tank (6) through a fluid communication conduit (11) for a fixed duration of time determined by a regulating unit (18) through a flow control valve (7), where, the reservoir tank (6) is rechargeable by a pump (5).

No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2019

(21) Application No.201941022070 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IOT BASED BEEHIVE MONITOR

(51) International classification	:H04L67/00	(71) <b>Name of Applicant :</b> <b>1)Mr. KAPILDEV GANESAN</b> Address of Applicant :NO. 84, 5TH FLOOR, MURUGESA NAICKER BUILDING, GREAMS ROAD, THOUSAND LIGHT, CHENNAI, TAMILNADU-600 006, INDIA Tamil Nadu India
(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	(72) <b>Name of Inventor :</b> <b>1)Mr. KAPILDEV GANESAN</b>
(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 having a beehive applying an Internet of things (IoT) technology, and a management method thereof. More specifically, the present invention provides a system including a beehive applying an IoT technology which can integrally manage the beehive by having a plurality of sensor in the beehive, and building a system for analyzing data obtained from the sensor and monitoring the data, and a management method thereof. The present invention relates to a method of remote management and monitoring of the operation of a set of stations distributed over a given area, and more particularly to a method for managing and monitoring the operation of a set of hives, and a system specially adapted for such a method. The subject of the present invention is precisely a method enabling remote management and monitoring of a set of stations distributed over a given area and containing sensors for physical measurements that are useful in particular in apiculture, as well as a system specially adapted to such a system and process.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/07/2019

(21) Application No.201941027382 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DESIGN AND WORKING OF A MOBILE MONITORING SYSTEM TO PREVENT FAULTS DURING FLUID INJECTION TO IV PATI

(51) International classification	:A61M5/50	(71) <b>Name of Applicant :</b> <b>1)RAVIKUMAR SUTRAI</b> Address of Applicant :DGM NANDAVANAM, PLOT 1-10, BLK-3, F9-C2, SWAMINATHAPURAM, VENGAIVASAL, CHENNAI, PIN CODE-600126, TAMIL NADU, INDIA. Tamil Nadu India
(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	(72) <b>Name of Inventor :</b> <b>1)RENUKA RAVIKUMAR SUTRAI</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention is a modular methodology to measure the amount of fuel being injected to the patient. Here a systematic approach is provisioned to monitor the level of Intravenous (IV) fluids like insulin, anti- biotic, vitamins, hormones or electrolytes. The weight parameter is being considered as the variable to measure the level of fluid in the bottle or bag, thus strain gauge cell has been implemented as a possible solution. The output of strain gauge cell is connected to controller. The controller thereby calculates the volume proportional to the weight of the fluid. A warning system is also being envisioned to improve the performance of the invention. The warning system is also weight driven, wherein when the liquid reaches 25% and 15% empties, the attending staff is alerted through Mobile App. Thus, reducing the probability of human error to negligible and improving the efficiency of corresponding medications.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027576 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NANOENCAPSULATION OF BUTYRIC ACID USING PLANT EXTRACT THROUGH DMSO (DIMETHYL SULFOXIDE) SOLVENT

(51) International classification	:A61K39/00	(71) <b>Name of Applicant :</b> <b>1)BIOFAC INPUTS PRIVATE LIMITED</b> Address of Applicant :Unit 1, Plot No. 74C, Anrich Industrial Estate IDA Bollaram, Hyderabad, Telangana, India-502325.
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)MR. LAXMI NARAYAN REDDY</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

ABSTRACT Nano encapsulation of butyric acid using plant extract through DMSO {Dimethyl Sulfoxide} solvent Is a method of synthesizing nano encapsulated butyric acid, comprising the steps of providing a solution of butyric acid & providing plant extract solution and combining the of butyric acid and the plant extract solution while stirring at room temperature to produce the nano encapsulated butyric acid used as a butyric acids ource, DMSO used as a solvent.&plant extractused as a encapsulating agent..Further, synthesized nano encapsulated butyric acid are further characterized using Fourier Transform Infrared Spectroscopy (FTIR) and Scanning Electron Microscopy (SEM) .fig 1

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027631 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : CUSTOMIZED CAMOFLAGUE VEST WITH ENHANCED KEVLAR TYPE BULLETPROOF MATERIAL

(51) International classification	:F41H1/02	(71)Name of Applicant :
(31) Priority Document No	:NA	1)NUVEEN RAJ KUMAR .S.
(32) Priority Date	:NA	Address of Applicant :NO: 15, FATHIMA NAGAR, DINDIGUL-624005, TAMILNADU, INDIA. Tamil Nadu India
(33) Name of priority country	:NA	2)RAJESHKUMAR .M
(86) International Application No Filing Date	:NA	3)NAVEENKUMAR .A.
(87) International Publication No	: NA	4)RAMANATHAN .L
(61) Patent of Addition to Application Number Filing Date	:NA	5)RAVI .S.
(62) Divisional to Application Number Filing Date	:NA	6)VADIVEL .A
		7)VELMURUGAN .T
		8)BALAMURUGAN .P
		9)VENKATESH .L
		10)SATHISH KUMAR .T.R.
		11)RAGHU .R.
(72)Name of Inventor :		
		1)NUVEEN RAJ KUMAR .S.
		2)RAJESHKUMAR .M
		3)NAVEENKUMAR .A.
		4)RAMANATHAN .L
		5)RAVI .S.
		6)VADIVEL .A
		7)VELMURUGAN .T
		8)BALAMURUGAN .P
		9)VENKATESH .L
		10)SATHISH KUMAR .T.R.
		11)RAGHU .R.

(57) Abstract :

The aim of our invention is to be safeguarded the soldiers from the bullet without any injuries. The bullet proof vest (1) covers the body from shoulder to clumsiness and buttocks to prevent the bullet and protect, the soldier from demise. Addition of bullet proof glass (2) is fixed with bullet proof vest to cover soldiers neck and face section. Additionally wireless network sensor tag (4) is fixed on vest for location monitoring of soldiers. Currently the Para-military network protection parameter like bullet proof vest is used to protect the shoulder, chest, back bone and stomach section. The invention is to protect the important parts of the body to protect from bullet injuries.

No. of Pages : 17 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027652 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRONIC NOSE SYSTEM FOR FOOD APPLICATIONS

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(51) International classification	:G01N1/24	(71) <b>Name of Applicant :</b> <b>1)Manjunath Managuli</b> Address of Applicant :Research Scholar, Department of Electronics and Communication Engineering, R V College of Engineering Mysore Road Bangalore-560059, India. Karnataka India
(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	<b>2)Dr. Abhay Deshpande</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Dr. Abhay Deshpande</b>
(62) Divisional to Application Number	:NA	<b>2)Manjunath Managuli</b>
Filing Date	:NA	

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(57) Abstract :

An electronic nose system for analyzing food based on a chemical reaction, comprising of plurality of chemical sensors and adhesive solutions, wherein methanol and ethanol behave differently when treated with iodine and sodium hydroxide solution.

No. of Pages : 7 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/07/2019

(21) Application No.201941027655 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : UTILIZATION OF IGNEOUS ROCK SLAG IN THE MANUFACTURING OF SINTERED STRUCTURAL PANEL

(51) International classification	:C04B33/28	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)BALAMURALI.K</b>
(32) Priority Date	:NA	Address of Applicant :POST GRADUATE SUDENT, DEPARTMENT OF CIVIL ENGINEERING SRI KRISHNA COLLEGE OF TECHNOLOGY COIMBATORE TAMIL NADU INDIA 641042 Tamil Nadu India
(33) Name of priority country	:NA	<b>2)NITHILA.S</b>
(86) International Application No	:NA	<b>3)RESHMA.K</b>
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)BALAMURALI.K</b>
(61) Patent of Addition to Application Number	:NA	<b>2)Dr.PADMANABAN.I</b>
Filing Date	:NA	<b>3)Dr.LENIN SUNDAR.M</b>
(62) Divisional to Application Number	:NA	<b>4)Dr.SREEVIDYA.V</b>
Filing Date	:NA	<b>5)Mr.BALAMURUGAN.C</b>
		<b>6)NITHILA.S</b>
		<b>7)RESHMA.K</b>

(57) Abstract :

Quarrying of igneous rocks generate large quantity of waste slags and muds from the cutting tools. Due to its demand and unavailability, igneous rocks are costly when compared to other type of rocks. These demand and unavailability are due to the formation process, igneous rocks are formed by solidification of hot molten magma. Igneous rocks are classified into two intrusive and extrusive rocks, intrusive rocks include Granite and extrusive include Basalt. Recovering the waste slag and muds from the quarry and used as raw material for manufacturing Sintered Structural Parts could be a response to demand.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/11/2018

(21) Application No.201841042515 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM FOR GENERATING MEDIA PLAYLIST AND METHOD THEREOF

(51) International classification	:G06F16/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)SRM INSTITUTE OF SCIENCE AND TECHNOLOGY</b>
(32) Priority Date	:NA	Address of Applicant :Kattankulathur, Chennai-603203, Tamil
(33) Name of priority country	:NA	Nadu, India Tamil Nadu India
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)G. Maragatham</b>
(87) International Publication No	: NA	<b>2)K. Saikarthikeyan</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Aravind Balaji S.N</b>
Filing Date	:NA	<b>4)M. Siddharth</b>
(62) Divisional to Application Number	:NA	<b>5)V. Gokula Krishnan</b>
Filing Date	:NA	

(57) Abstract :

The present disclosure envisages a system (100) for generating a media playlist on a user device (102). The system (100) comprises a plurality of user devices, a server (60) and a network (80). The system (100) comprises a communication module (106), a master playlist generation module (110), and a user playlist generation module (112). The communication module receives input/s from the user and the master playlist generation module (110) fetches one or more media files from the server in response to the user input. The master playlist generation module (110) receives media files in an order based on a pre-defined weight assigned to each of the media files to generate a master playlist (124). The user playlist generation module (112) generates a user playlist (122) based on a count. A playback means plays the media files selected from master playlist (124) and user playlist (122).

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/07/2018

(21) Application No.201841027024 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AIR DECONTAMINATION DEVICE

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(51) International classification	:A61L 9/00
(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 :

ABSTRACT AIR DECONTAMINATION DEVICE. An air decontamination device is disclosed. The air decontamination device may include one or more nano filters 102 arranged in line next to each other. The air decontamination device may further comprise a multi spectrum electromagnetic wave source 104 that may emit electromagnetic waves of varying frequencies. The one or more nano filters 102 may be stimulated when the electromagnetic waves of varying frequencies are incident on the one or more nano filters 102, resulting in breaking down of the contaminants in the air into harmless molecules. Reference figure: FIG. 1 Dated this 18th day of July 2019 (Digitally signed) Kartik PUTTAIAH Patent Agent-IN/PA-1809

No. of Pages : 14 No. of Claims : 10

(71)Name of Applicant :

1)Highest Common Factor Private Limited

Address of Applicant :71/ 3rd floor, Vyjanthi, J Block, Anna Nagar, Chennai, Tamil Nadu, 600102 Tamil Nadu India

(72)Name of Inventor :

1)Vivek Chandra Vepakomma

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/05/2019

(21) Application No.201941021013 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND DEVICE FOR TESTING OF GEAR PITCH CIRCLE DIAMETER RUNOUT PARAMETERS

(51) International classification	:G01M13/00	(71) <b>Name of Applicant :</b> <b>1)ROHIITH BALACHANDAR GETTALA</b> Address of Applicant :No 103/4 Lingam Towers , Triplicane High Road, Triplicane , Chennai -600005 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	<b>2)RAKESH RAMESH</b>
Filing Date	:NA	<b>3)ARAVIND PALANI RAJAN</b>
(87) International Publication No	: NA	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)ROHIITH BALACHANDAR GETTALA</b>
Filing Date	:NA	<b>2)RAKESH RAMESH</b>
(62) Divisional to Application Number	:NA	<b>3)ARAVIND PALANI RAJAN</b>
Filing Date	:NA	

(57) Abstract :

A system and method for GEAR INSPECTION. The various dimensions such as Root diameter, hole depth and Gear Face out, are easily inspected with the help of this instrument. Run out is the maximum variation of the distance between a surface of revolution and a datum surface, measured perpendicular to that datum surface. Run out of a gear can be measured with a dial indicator over a ball placed in successive tooth spaces. The gear PCD runout tester is a simple yet reliable gear testing equipment used for quick analysis and checking of almost all types of gears and can be used by small and medium scale industries, where quick checking and cheaper way of testing is required. It is handy and low cost also unlike most of the gear testing machines used in large scale industries by providing results of almost equal values

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/05/2018

(21) Application No.201841016765 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : APPARATUS AND METHOD FOR EDGE AND LANE REFERENCE LINE DETECTION IN ROAD FROM VEHICLE

(51) International classification	:G06T7/00	(71) <b>Name of Applicant :</b> <b>1)DR. K. PARAMASIVAM</b> Address of Applicant :Kumaraguru College of Technology Chinnavedampatti, Coimbatore Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)DR. K. PARAMASIVAM</b>
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 apparatus and method for edge and lane line detection in road from a vehicle / automobile. More particularly, the present invention relates to an apparatus and method to identify the position of the front wheels more accurately by using reference point markers comprising LED that are located in the windshield of the vehicle/automobile. The system for edge and lane reference line detection on road from vehicle, comprises of one or more sensors, one or more reference point markers with one or more LEDs on the wind shield and a geometrical projection unit comprising a processor. Advantageously the present invention relates to simple and effective method to identify the position of the front wheels more accurately by using reference point marked in the windshield of the vehicle/automobile. Figure 1.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/06/2019

(21) Application No.201941025467 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MOBILE POWER PLANT FOR GENERATION OF ELECTRICAL ENERGY FROM MUNICIPAL SOLID WASTE

(51) International classification

:F02C6/00

(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 :

**1)SIVA KUMAR MAMIDI**

Address of Applicant :2711 Lund Ave, Apt No: 6, Rockford, IL, Zip: 61109. U.S.A.

**2)SHARATH CHANDRA NOOTHI**

(72) Name of Inventor :

**1)SIVA KUMAR MAMIDI**

**2)SHARATH CHANDRA NOOTHI**

---

(57) Abstract :

Exemplary embodiments of the present disclosure is directed towards a process of conversion of electrical energy using a mobile power plant comprising: crusher 102, conveyer 104, closed chamber or boiler 106, Fly ash collector 108, stirling engine and generator 110, condenser 112 and air pollution control system 114. The heat energy generated from the incineration of crushed garbage is used to convert to electrical energy using an engine and generator. The harmful exhaust gases produced as by products are condensed via a condenser and the condensed exhaust gases are reduced in their toxicity levels and are released into the atmosphere via a chimney.

No. of Pages : 32 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/06/2019

(21) Application No.201941025655 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IRSC-MACHINE: INTELLIGENT ROTATION SPEED CONTROL MACHINE

(51) International classification	:B60W20/00	(71)Name of Applicant :
(31) Priority Document No	:NA	1)DR. HALAVATH BALAJI
(32) Priority Date	:NA	Address of Applicant :NIDHI INSTITUTE OF SCIENCE AND TECHNOLOGY, YAMNAMPET, GHATKESAR, HYDERABAD Telangana India
(33) Name of priority country	:NA	2)KARNAM SREENU
(86) International Application No	:NA	3)G PRASADU
Filing Date	:NA	4)DR. S. DEEPA
(87) International Publication No	: NA	5)N. RAMESH
(61) Patent of Addition to Application Number	:NA	6)MR. YOGESH MOHANRAO NIGADE
Filing Date	:NA	7)PROF.(DR.) S. B. CHORDIYA
(62) Divisional to Application Number	:NA	8)DR. YASHPAL SINGH
Filing Date	:NA	(72)Name of Inventor :
		1)DR. HALAVATH BALAJI
		2)KARNAM SREENU
		3)G PRASADU
		4)DR. S. DEEPA
		5)N. RAMESH
		6)MR. YOGESH MOHANRAO NIGADE
		7)PROF.(DR.) S. B. CHORDIYA
		8)DR. YASHPAL SINGH

(57) Abstract :

In This Invention to improve the rotational speed control: Problem Funded : To realize a rotational speed control device of a motor which can control a rotational speed and torque by detecting a up and down voltage and a current which are applied to a motor. Solution Provided : The rotational speed control device of a motor is equipped with a rotational/rest coordinate converting part, a two-phase current generating part and a speed/position estimation computing part. The converting part outputs a reference magnetic flux component current and a reference torque component current for comparing a reference speed of a motor with an estimation speed, and compensating an error value as an a axis reference voltage and a axis reference voltage of a fixed coordinate system. The current generating part receives an input of a three-phase current and outputs an a-axis current and a -axis current. The computing part estimates a position and a rotating speed of a rotor in the motor, on the basis of the a-axis reference voltage, the -axis reference voltage, the a-axis current, the -axis current and a reference speed, and controls the rotational speed and the torque of the motor

No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/05/2019

(21) Application No.201941017451 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUTOMATIC REMOVAL OF SUSPENDED SEDIMENTS IN DRAINAGE PIPE LINE

(51) International classification	:B01D21/24	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)K.SIVAKUMAR</b>
(32) Priority Date	:NA	Address of Applicant :SRM VALLIAMMAI ENGINEERING
(33) Name of priority country	:NA	COLLEGE, SRM NAGAR, KATTANKULATHUR,
(86) International Application No	:NA	KANCHEEPURAM DT, TAMILNADU, INDIA-603 203. Tamil
Filing Date	:NA	Nadu India
(87) International Publication No	: NA	<b>2)T.SAMPATHKUMAR</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)K.SIVAKUMAR</b>
(62) Divisional to Application Number	:NA	<b>2)T.SAMPATHKUMAR</b>
Filing Date	:NA	

(57) Abstract :

ABSTRACT One of the major threats is the ever increasing population in our country and the capacity to withstand the pressure generated due to slurry flow. The country is undergoing industrial revolution since the past few decades, this will give raise to the increased flow of contaminated water in the drainage basin. The sewage is to be treated to its full efficiency to maintain the water cycle balance and to safely drain the water into the sea, so that it does not affect the marine life. In India the size of the pipeline is one of the major concerns, as even in full flow condition it is not able to be efficient, which results in over flowing and causing flood like situation. Starting from the source to the catchment, the efficiency of the pipeline transportation system should be enhanced, so that the contaminated fluid flowing inside these pipeline do not mix with the surface water or soil and make them contaminated. The maintenance of the pipeline is also a difficult task and requires lot of technical and human support. Due to poor maintenance and improper sewage control in the country, the pipes are not able to work at full potential and hence during heavy rainy season flood like situation prevails in the country.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/07/2019

(21) Application No.201941028817 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : APPARATUS FOR DETECTING AND MANAGING STRESS

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(51) International classification	:A61B5/00	(71) <b>Name of Applicant :</b> <b>1)SRM Institute of Science and Technology</b> Address of Applicant :Kattankulathur, Chennai-603203 Tamil Nadu India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MEENAKSHI K.</b>
(87) International Publication No	: NA	<b>2)MARAGATHAM G.</b>
(61) Patent of Addition to Application Number	:NA	<b>3)VISHNUPRIYA B.</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

Apparatus (100) for detecting and managing stress comprises a plurality of sensors (20) that acquires brain activity signals of a subject, a signal processing unit (30) that comprises a signal conditioning unit (40) that generates a conditioned signal from brain activity signals, a beta wave extractor (50) that identifies a beta wave signal, the beta wave analyzer (60), present in the beta wave extractor (50), compares frequency of the received beta wave signal with one or more pre-defined frequency ranges to generate an output signal, a decision unit (80) receives the output signal to generate a command signal that fetches songs of various genre from a database (75), in communication with the signal processing unit (30), based on the output signal and an audio output unit (90) is configured to playback at least one song.

No. of Pages : 22 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/07/2019

(21) Application No.201941028858 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM AND A METHOD FOR INVOICE IMAGE BATCH PROCESSING

---

(51) International classification	:G06Q10/10	(71) <b>Name of Applicant :</b> <b>1)Venkata NS Dhulipala</b> Address of Applicant :Plot No.12, Road No. 4, Sri Ananda Lakshmi Nrusimha Nilayam, BSR colony Phase 1&2, Opp. Jyalaputhanda, Beeramguda, Patancheru Mandal, Medak district, Hyderabad, 502032 (Telangana, India) Telangana India
(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	(72) <b>Name of Inventor :</b>
(61) Patent of Addition to Application Number	:NA	<b>1)Venkata NS Dhulipala</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

---

(57) Abstract :

The present invention discloses a system and a method for invoice image batch processing. The disclosed method aims to achieve high efficiency while batch processing digital invoices in image format on Cloud computing platform. Its elastic resources while invoice image processing using virtual memory and optimizes Non Uniform Memory Access (NUMA) resources while invoice processing. The disclosed method overcomes the challenge of virtualization of virtual memory which reduces power consumption and provides enhanced data security

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/03/2019

(21) Application No.201941012169 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A METHOD AND PROCESS FOR STUDY THE WELDING PARAMETERS ON THE FORMATION OF FRICTION WELDING AND PULL LOAD PROPERTIES IN ALUMINIUM 6061 ALLOY AND STAINLESS STEEL 430F STEEL

(51) International classification	:B23K1/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)PERIASAMY P</b>
(32) Priority Date	:NA	Address of Applicant :1, Padma Avenue, Guduvancherry, Chennai Tamil Nadu India
(33) Name of priority country	:NA	<b>2)RAJA V</b>
(86) International Application No	:NA	<b>3)RAMANAN N</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)PERIASAMY P</b>
(61) Patent of Addition to Application Number	:NA	<b>2)RAJA V</b>
Filing Date	:NA	<b>3)RAMANAN N</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A Method and process for study the welding parameters on the formation of friction welding and pull Load properties in Aluminium 6061 alloy and Stainless Steel 430F Steel is provided. From this investigation, the following important conclusions are derived. It is observed that the Upset force plays a vital role in increasing the Pull Load and Impact strength of the Friction weld with dissimilar materials. The Burn off length plays a commendable role in increasing the Bend strength of the weld as expected. Maximum strength properties of 105 MPa yield strength, 138 MPa of pull Load strength, 10J of Impact strength, Hardness of 264.2J and 84.9% of joint efficiency respectively was attained without any defect for the joint fabricated using FW at rotational speed of 2000rpm and weld speed of 40mm/min. Welding is done evenly using Microstructure analysis test. Inter metallic material is found using Macrostructure analysis test.

No. of Pages : 20 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/05/2019

(21) Application No.201941021417 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PERPENDICULAR ELECTRODES BATTERY & INFINITY POWER SUPPLY (IPS)

(51) International classification	:H01M4/02
(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

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628152, TAMILNADU, INDIA. Tamil Nadu India

(72)**Name of Inventor :**

**1)M.VIJAYAN**

(57) Abstract :

When we introduce magnetic flux perpendicular to the electron flow in an ordinary type of battery we obtain a special character battery having the capacity to generate power in the order of 10 volt to mcgavoItPropcr care and necessary precaution should be made to enjoy the fruits of this battery.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/06/2019

(21) Application No.201941024083 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LARGE SCALE CHEMICAL BASED SMART AIR PURIFIER USING IOT

(51) International classification

:F24F11/00

(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

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**(72)Name of Inventor :**

**1)DR. M N THIPPESWAMY**

**2)VIBHUTI KUMAR YADAV**

**3)AKHIL RANJAN**

**4)SATYAM SHREE**

**5)UDAY SRIVASTAVA**

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**(57) Abstract :**

The major air pollutants of urban area are carbon dioxide and particulate matters of different size. The existing air purification technologies although have good efficiency (a.) Are not fit for large scale implementation to clean city (b.) Use costly Technology (c.) Has too much power consumption, which makes it difficult to deal with the air pollution. This air purifier overcomes all these problems as we use very cheap and readily available resources. Two stage air purification involves, firstly washing down SPM level of air by showering it with water and then using chemical method to absorb carbon dioxide. Overall setup consists of two parts, An IOT module and an air purifier. A carbon dioxide sensor and a particulate matter sensor monitors the real-time air quality of the surrounding and the IOT module will keep sending real time pollution data to authority. If the amount of pollutant crosses a threshold (as specified by air quality parameter by pollution control board), the microcontroller connected to a relay will switch on the air purifier until the pollution level comes down in surrounding area. In the places where the purifier cannot be installed the IOT device will instead measure the pollution level and the microcontroller connected to GSM module will send a message to concerned authority to deploy the portable version of the air purifier to the affected area.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/06/2019

(21) Application No.201941024089 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CURBING THEFT BY ALTERING SIM TRAY MECHANISM AND POWER BUTTON FUNCTION

(51) International classification

:G06F1/16

(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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ENGINEERING DEPARTMENT,SRM VALLIAMMAI  
ENGINEERING COLLEGE SRM NAGAR  
KOTTANKULATHUR -603 203 Tamil Nadu India

**2)UVAN SHANKAR.M**

**3)RATHINA KARTHI.T**

**4)TINTU MATHEW**

(72)Name of Inventor :

**1)PRABAKARAN.A**

**2)UVAN SHANKAR.M**

**3)RATHINA KARTHI.T**

**4)TINTU MATHEW**

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(57) Abstract :

Smartphones pervade our modern lives. Security and privacy is of particular concern about these systems, as they have access to a wide range of sensitive resources. If a users mobile phone goes into the hands of a wrong person, it is a real threat to the user. We have come up with an innovative solution to prevent the theft of mobile phone. If a thief steals a mobile phone, he immediately switches it off or tries to remove the sim card. To curb these activities (i.e.) unknown person switching off mobile phone and removing sim card, we have modified the functionality of the power button and redesigned the sim tray. If these features are implemented we can definitely stop the theft of mobile phones to a great extend.

No. of Pages : 19 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/06/2019

(21) Application No.201941024200 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SUSPENSION SYSTEM FOR TWO-WHEELER

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(51) International classification	:B62K25/00	(71) <b>Name of Applicant :</b> <b>1)Anoop Ravi Macgan</b> Address of Applicant :Paramount Sumadhura Serene, Flat No G001, Manipal County Road, Singasandra, Bangalore Karnataka India
(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	

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(57) Abstract :

A suspension system for two-wheeler vehicle is disclosed. The system includes a rocker arm configured to transmit motion from a wheel to a spring element of a shock absorber using a rocker arm link, a length adjustable unit configured to adjust the length of the rocker arm based on a position of the rocker arm link upon moving a swing arm in up and down direction; to regulate the springing operation of the rear wheel based on the length adjustment of the rocker arm, a shock absorber configured to absorb vibrations. FIG. 1

No. of Pages : 20 No. of Claims : 4

## **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.201711047210 A

(19) INDIA

(22) Date of filing of Application :29/12/2017

(43) Publication Date : 02/08/2019

(54) Title of the invention : NOVEL BISMUTH BASED CATALYSTS FOR THE SYNTHESIS OF -AMINO ALCOHOLS

(51) International classification	:C08G18/163	(71) <b>Name of Applicant :</b> <b>1)GLA UNIVERSITY</b> Address of Applicant :17km.Stone, Post Office-Chaumuhan, NH-2, Mathura, Uttar Pradesh, Pin-281406, India. Uttar Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)SHOBHA BANSAL</b>
(61) Patent of Addition to Application Number	:NA	<b>2)PRABAL PRATAP SINGH</b>
Filing Date	:NA	<b>3)DIPAK KUMAR DAS</b>
(62) Divisional to Application Number	:NA	<b>4)PANCHANAN PRAMANIK</b>
Filing Date	:NA	

(57) Abstract :

This invention relates to a process for the synthesis of B-amino alcohols of formula 3, Formula 3 Ri is selected from Ph, -CH2Cl , R2 is selected from Ph, Isopropyl, n-Propyl, a-Naphthyl, 2-CH3C6H4, n-Butyl, 4-CH3C6H4, 2,4,6-BrC6H2, R3 is selected from H, Me, Isopropyl, n-Propyl, and R2 and R3 together is selected from N-Methyl piperazine, Piperidine, said process comprising the steps of thoroughly mixing an epoxide of formula 1, amine of formula 2 and a bismuth based catalyst, said catalyst being selected from BiF, Bi2(C2O4)3, Bi(P04), Bi2(C03)3, Bi203, BiI3, followed by intermittently irradiating said mixture in a microwave for the appropriate time period to obtain the B-amino alcohols.

No. of Pages : 14 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047239 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A NOVEL SIMULATION-BASED TESTING TOOL FOR POWER GRID COMMISSIONING

(51) International classification

:Y04S10/40

(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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GURU TEG BAHADUR NAGAR, DELHI-110009, INDIA Delhi  
India

(72)Name of Inventor :

**1)MR. ANIL KUMAR  
2)MR. RAJ KUMAR RASTOGI  
3)MR. SUBHADIP RAYCHAUDHARI**

(57) Abstract :

The present invention relates generally to the broad realm of deploying power sub-station automation as an analytical means to evaluate onsite assessment in advance for a power grid commissioning exercise from a remote location and is in particular directed towards a novel simulation-based testing tool for power grid commissioning and its method of working.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047240 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : AN INNOVATIVE DYNAMIC 'REAL TIME ATTRIBUTE EQUIPPED' SMART TESTING SYSTEM FOR POWER GRID COMMISSIONING

(51) International classification	:G07C3/00Â	(71) <b>Name of Applicant :</b> <b>1)TATA POWER-DELHI DISTRIBUTION LIMITED (TATA POWER-DDL)</b> Address of Applicant :TATA POWER-DDL, CORPORATE OFFICE NDPL HOUSE, HUDSON LINES KINGSWAY CAMP, GURU TEG BAHADUR NAGAR, DELHI-110009, INDIA Delhi India
(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	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MR. ANIL KUMAR 2)MR. RAJ KUMAR RASTOGI 3)MR. SUBHADIP RAYCHAUDHARI</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates generally to the broad realm of deploying power sub-station automation as an analytical means to evaluate onsite assessment in advance for a power grid commissioning exercise from a remote location and is in particular directed towards an innovative dynamic real-time attribute equipped smart testing system for power grid commissioning.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047241 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : AN AUXILLARY MODE/HYBRID-ADAPTABILITY MODE BASED TESTING SYSTEM FOR POWER GRID COMMISSIONING

(51) International classification	:G06K7/10039A	(71) <b>Name of Applicant :</b> <b>1)TATA POWER-DELHI DISTRIBUTION LIMITED (TATA POWER-DDL)</b> Address of Applicant :TATA POWER-DDL, CORPORATE OFFICE NDPL HOUSE, HUDSON LINES KINGSWAY CAMP, GURU TEG BAHADUR NAGAR, DELHI-110009, INDIA Delhi India
(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	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MR. ANIL KUMAR 2)MR. RAJ KUMAR RASTOGI 3)MR. SUBHADIP RAYCHAUDHARI</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates generally to the broad realm of deploying power sub-station automation as an analytical means to evaluate onsite assessment in advance for a power grid commissioning exercise from a remote location and is in particular directed towards an auxiliary/hybrid-adaptability mode based testing system for power grid commissioning. The invention also entails at developing a methodology for ensuring that the invention is capable of working by either drawing energy from the grid or solar energy sources or a combination of these.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047242 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A NOVEL RETROFITTABLE TESTING SYSTEM FOR POWER GRID COMMISSIONING

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(51) International classification

:H05B37/029

(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

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(72)Name of Inventor :

**1)MR. ANIL KUMAR  
2)MR. RAJ KUMAR RASTOGI  
3)MR. SUBHADIP RAYCHAUDHARI**

---

(57) Abstract :

The present invention relates generally to the broad realm of deploying power sub-station automation as an analytical means to evaluate onsite assessment in advance for a power grid commissioning exercise from a remote location and is in particular directed towards a novel retrofittable testing system for power grid commissioning. The invention also entails at developing a suitable and customized methodology for ensuring the smooth and efficient working of the retrofittable testing system of the present invention.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047272 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A SMART AUTOMATED PROCESS PROTOCOL FOR THE HYBRID-ADAPTABILITY BASED TESTING SYSTEM FOR POWER GRID COMMISSIONING

(51) International classification	:H02J13/0086	(71) <b>Name of Applicant :</b> <b>1)MR. ANIL KUMAR</b> Address of Applicant :TATA POWER-DDL, CORPORATE OFFICE NDPL HOUSE, HUDSON LINES KINGSWAY CAMP, GURU TEG BAHADUR NAGAR, DELHI-110009, INDIA Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	<b>2)MR. RAJ KUMAR RASTOGI</b>
(87) International Publication No	: NA	<b>3)MR. SUBHADIP RAYCHAUDHARI</b>
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MR. ANIL KUMAR</b>
(62) Divisional to Application Number	:NA	<b>2)MR. RAJ KUMAR RASTOGI</b>
Filing Date	:NA	<b>3)MR. SUBHADIP RAYCHAUDHARI</b>

(57) Abstract :

The present invention relates generally to the broad realm of deploying power sub-station automation as an analytical means to evaluate onsite assessment in advance for a power grid commissioning exercise from a remote location and/or onsite location and is in particular directed towards a smart automated process protocol for the hybrid-adaptability/auxillary mode based testing system for use in the power grid commissioning. The invention thus entails at developing a methodology for ensuring that the hybrid-adaptability/auxillary mode based testing system is capable of working by either drawing energy from the grid or solar energy sources or a combination of these.

No. of Pages : 0 No. of Claims : 0

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/12/2017

(21) Application No.201711047299 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ADVANCE CATALYTIC CONVERTER

(51) International classification	:F01N3/2033Â	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)DIVYANSH SUDEEP DIXIT</b>
(32) Priority Date	:NA	Address of Applicant :STUDENT, DEPARTMENT OF MECHANICAL ENGINEERING, UNIVERSITY INSTITUTE OF ENGINEERING, CHANDIGARH UNIVERSITY, GHARUAN, MOHALI, PINCODE- 140413, PUNJAB, INDIA. Email ID- djdivyansh63@gmail.com Contact No-9779925782 Punjab India
(33) Name of priority country	:NA	
(86) International Application No	:NA	<b>2)VIDYADHAR BISWAL</b>
Filing Date	:NA	<b>3)DEEPAK KUMAR</b>
(87) International Publication No	: NA	<b>4)BHARGAV CHOWDHARY</b>
(61) Patent of Addition to Application Number	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)DIVYANSH SUDEEP DIXIT</b>
(62) Divisional to Application Number	:NA	<b>2)VIDYADHAR BISWAL</b>
Filing Date	:NA	<b>3)DEEPAK KUMAR</b>
		<b>4)BHARGAV CHOWDHARY</b>

(57) Abstract :

The present invention discloses an advanced catalytic converter consisting of an attachable/detachable cartridge (5) further comprising of attachable/detachable adsorption and absorption materials by way of silica gel mesh (7) and baking soda sponge (8) which absorb carbon dioxide (CO<sub>2</sub>) from catalyzed exhaust gases as well as adsorb non-catalyzed harmful pollutants thereby venting exhaust gases to atmosphere free of toxicity and carbon dioxide (CO<sub>2</sub>). Cartridge (5) can be fitted with already existing catalytic cartridge (2) with the help of threads (4). The completely carbon soaked adsorption and absorption materials can be re-used after cleaning. The cartridge (5) is incorporated with Carbon detecting sensor (11) to detect the carbon contents soaked in both adsorption and absorption materials and to indicate user using an alarm or buzzer (13) when carbon levels reach to a predetermined level (capacity of absorbing materials).



No. of Pages : 15 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047377 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NEUTRAL ORGANIC CLEANING COMPOSITION

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(51) International classification	:C11D3/2068	(71) <b>Name of Applicant :</b> <b>1)SUSHIL KUMAR GODIKA</b> Address of Applicant :B-82, MARBLE HOUSE, RAJENDRA MARG, BAPU NAGAR, JAIPUR(RAJ.)-302015 Rajasthan India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)SUSHIL KUMAR GODIKA</b>
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 neutral organic cleansing composition having a pH in the range of 7 to 8 comprising of water, aluminium potassium sulfate, sodium bicarbonate and lotan sazi wherein each of the said ingredients are present in an amount sufficient to remove unwanted solids sticking to a surface. Further, the present invention discloses a method for cleaning a surface or an object by applying the composition on the said surface or object by using a cleaning implement dipped in the said composition or spraying the said composition on the said surface or the object and wiping said surface or object with a cleaning implement. Alternatively, the method of cleaning a surface or an object using the said composition comprises of dipping said surface or object in the said composition for a defined period of time or till the dirt or grime is removed.

No. of Pages : 21 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047423 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A FAN ASSEMBLY

(51) International classification	:C12N15/86Â	(71) <b>Name of Applicant :</b> <b>1)CHITKARA UNIVERSITY</b> Address of Applicant :CHITKARA UNIVERSITY, CHANDIGARH PATIALA NATIONAL HIGHWAY (NH-64), TEHSIL - RAJPURA, DISTRICT PATIALA-140401, PUNJAB, INDIA. EMAIL ID - director@chitkara.edu.in LANDLINE NO - 01762-507084 Punjab India
(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	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)MATHREJA KASHISH</b>
(62) Divisional to Application Number	:NA	<b>2)SINGH HARVINDER</b>
Filing Date	:NA	<b>3)GUPTA RUPESH</b>

(57) Abstract :

The present disclosure provides a fan assembly. The disclosed fan assembly can include: a first support member coupled with a support; a second support member coupled to the first support member, the second support member is configured to suspend a fan, and a spring-pin mechanism configured to enable coupling between the first support member and the second support member, wherein a pin of the spring-pin mechanism is configured to move between an extended position and a retracted position, wherein when the pin is at the extended position the pin maintains coupling between the first support member and the second support member up to a pre-defined load supported by the second support member, and wherein when the load supported by the second support member is more than the pre-defined load the spring of the spring-pin mechanism enables moving the pin from the extended position to the retracted position thereby decoupling the first support member with the second support member.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047427 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN ADJUSTABLE DISPLAY AND METHOD OF OPERATION THEREOF

---

(51) International classification	:G06F1/3203	(71) <b>Name of Applicant :</b> <b>1)CHITKARA UNIVERSITY</b> Address of Applicant :HIMUDA EDUCATION HUB, BAROTIWALA, DISTRICT SOLAN, PINCODE“ 174103, HIMACHAL PRADESH, INDIA. FAX NO. - 01795-661023 TEL: - +91-179-5661011 Email ID: director@chitkara.edu.in
(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	Himachal Pradesh India
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)SINGH SARTAJVIR</b>
(62) Divisional to Application Number	:NA	<b>2)SOOD VISHAKHA</b>
Filing Date	:NA	

(57) Abstract :

The present disclosure provides an adjustable display. The disclosed adjustable display comprises: a display; a camera configured to capture one or more images of an area in vicinity of said display; and a processing unit operatively coupled with the camera and the display, said processing unit configured to: convert the captured one or more images to corresponding grey scale image; extract one or more features associated with illumination intensity from the converted corresponding grey scale images; and compare the extracted one or more features with one or more predefined features stored in a first database, wherein the one or more predefined features comprises predefined feature at different illumination intensity, wherein based on said comparison illumination intensity in vicinity of the display is determined, and wherein based on the determined illumination intensity enables the processing unit to adjust the illumination intensity of the display to an optimum level.



No. of Pages : 24 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047431 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ORAL HERBAL PAIN KILLER FORMULATIONS

(51) International classification	:A61K31/37
(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 :

**1)Manu Chaudhary**

Address of Applicant :51-52, Industrial Area, Phase-1,  
Panchkula, Haryana, India 134113 Haryana India

(72)Name of Inventor :

**1)Manu Chaudhary**

(57) Abstract :

The present invention describes novel herbal pharmaceutical compositions comprising powder or extract of analgesic herbs premix in unique ratios along with one or more pharmaceutically acceptable excipients with herbal bioavailability enhancers. The claimed invention has a comparable efficacy to that of paracetamol, ibuprofen with enhanced safety and more patient compliance. The invention also describes the process for the preparation of the said composition.

No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047433 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A NOVEL OIL FOR BODY AND HAIR MASSAGE AND MEATHOD FOR THE PREPARATION THEREOF

(51) International classification	:C08F2/32Â	(71) <b>Name of Applicant :</b> <b>1)Patanjali Ayurved Ltd.</b> Address of Applicant :D“ 26, Pushpanjali, Bijwasan, New Delhi - 110061, INDIA Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Acharya Balkrishna</b>
(87) International Publication No	: NA	<b>2)Rambharat</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Giriraj Yadav</b>
Filing Date	:NA	<b>4)Ramkrishna Gupta</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A novel oil composition and method for the preparation thereof is disclosed. The novel oil composition for body and hair massage comprises 20“ 28 % by weight Sunflower oil, 22“ 28 % by weight Sesame oil, 14“ 16 % by weight Mustard oil, 8“ 12 % by weight Soyabean oil, 5“ 7 % by weight Olive oil, 4“ 6 % by weight Walnut oil, 4.5“ 6.5 % by weight Castor oil, 4“ 6 % by weight Groundnut oil, 1“ 2.5 % by weight Almond oil, 0.1 - 1 % by weight Cedar wood oil, 0.01“ 1 % by weight Sandalwood oil, 0.03“ 0.5 % by weight Patchouli oil, 0.03“ 0.08 % by weight TBHQ (tert-Butylhydroquinone) and 1.5“ 3 % by weight perfume.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047434 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HERBAL BASED DISH WASH COMPOSITION AND A PROCESS FOR THE PREPARATION THEREOF

(51) International classification	:A61K36/00Â	(71) <b>Name of Applicant :</b> <b>1)Patanjali Ayurved Ltd.</b> Address of Applicant :D“ 26, Pushpanjali, Bijwasan, New Delhi - 110061, INDIA Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Acharya Balkrishna</b>
(87) International Publication No	: NA	<b>2)Rambharat</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Giriraj Yadav</b>
Filing Date	:NA	<b>4)Ramkrishna Gupta</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A herbal dish wash composition and a process for the preparation thereof is disclosed. The herbal dish wash composition comprises 0.1“ 0.5 % by weight Acrypol 974, 7.5“ 11.0 % by weight Soda ash Light, 18“ 24 % by weight China Clay, 7“ 11.5 % by weight Calcite, 15“ 18.5 % by weight Dolomite, 6“ 8.2 % by weight Sodium Silicate, 2.5“ 4.2 % by weight Wood Ash, 10“ 12.2 % by weight Acid Slurry, 2.5“ 4 % by weight STPP (Sodium tripolyphosphate), 0.5“ 1 % by weight AOS (Alpha Olefin Sulfonates) Powder, 0.5“ 1 % by weight Questrol 505, 0.003“ 0.01 % by weight Neem Oil, 0.003“ 0.01 % by weight Lemon Oil, 0.01“ 0.05 % by weight Colour polytint black, 13“ 16 % by weight Field spar powder, 1“ 2 % by weight MgSo4 (Magnesium sulphate), 0.1“ 0.3 by weight Citric Acid, 0.1“ 0.4 % by weight perfume and rest being demineralized water.

No. of Pages : 10 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047437 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR RENDERING A SAFE NAVIGATION ROUTE

(51) International classification	:G01C22/00
(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 :

**1)KaHa Pte Ltd**

Address of Applicant :81 Ayer Rajah Crescent, #02-42,  
Singapore (139967) Singapore

(72)Name of Inventor :

**1)Sudheendra Shantharam**

(57) Abstract :

Disclosed is a method of providing a safe navigation route for travelling. The method comprises receiving, at a graphical user interface of a processor-based user device, a query for a navigation route from a user, comprising a source station and a destination station, determining, at an application server, a plurality of navigation routes between the source station and the destination station, analyzing, at the application server, each of the plurality of navigation routes to compute a safety index associated with each of the plurality of navigation routes, identifying, at the application server, at least one safe navigation route between the source station and the destination station, and rendering, at the graphical user interface, the at least one safe navigation route between the source station and the destination station in response to the query from the user.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047438 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR INDICATING A BREATHING PATTERN

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(51) International classification	:A61B6/541	(71) <b>Name of Applicant :</b> <b>1)KaHa Pte Ltd</b> Address of Applicant :81 Ayer Rajah Crescent, #02-42, Singapore (139967) Singapore
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Sudheendra Shantharam</b>
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 method and system for indicating a breathing pattern is disclosed. The system comprises a plurality of smart wearable devices, a plurality of mobile devices, an application server and a database. The plurality of smart wearable devices is either connected to the mobile devices or directly connected to the application server. The database is connected to the application server to store the data transmitted by the smart wearable device or the mobile device. The plurality of smart wearable devices is capable of monitoring the health index and identifying the variation in health conditions of the user, in real-time and activating a suitable breathing pattern to normalize such medical condition.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/06/2016

(21) Application No.201611022039 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SOUND SECURITY MACHINE.

(51) International classification	:G10L17/005	(71) <b>Name of Applicant :</b> <b>1)VED PRAKASH CHAUDHARY</b> Address of Applicant :VILLAGE HARPUR MAHANTH POST PARKERY VISHUNPUR-273151, DISTT. MAHARAJGANJ, U.P. Uttar Pradesh India
(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 :

Sound Security Machine is such a device. Which works on sound frequency or sound frequency. If a sudden firing occurs from any source. So our (Sound Security Machine) immediately receives that sound and immediately strikes in that direction. When there is a sudden firing. So this device converts this sound energy into the energized energy through a microphone. And the supplied power energy firing system. Firing system varies the power from heat energy through tungsten wire to heat energy. After getting heat energy, firing systems firing system starts firing.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003795 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SYSTEM AND METHOD FOR ENHANCING PERFORMANCE OF IMMUNOSENSOR BY ION BEAM PROCESSING OF ZINC OXIDE NANOSTRUCTURE

(51) International classification	:H01L29/7869	(71) <b>Name of Applicant :</b> <b>1)AMITY UNIVERSITY</b> Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)NIDHI CHAUHAN</b>
(61) Patent of Addition to Application Number	:NA	<b>2)UTKARSH JAIN</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention provides a system and method for enhancing performance of immunosensor by ion beam processing of zinc oxide nanostructure. The electrochemical immunosensor is developed for the fast and specific determination of H. pylori.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003796 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A NONINVASIVE DEVICE FOR MEA

(51) International classification	:A61N1/36014
(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 :

**1)AMITY UNIVERSITY**

Address of Applicant :AMITY UNIVERSITY CAMPUS,  
SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar  
Pradesh India

(72)Name of Inventor :

**1)NIDHI CHAUHAN**

**2)UTKARSH JAIN**

(57) Abstract :

The present invention provides a noninvasive device for MEA. The invention provides development of a novel sensor for the detection of cysteamine based on Cyclic Voltammetry, EIS study and Chronoamperometry using molecularly engraved polymer on working electrode for the oral samples. In the present invention, MAA based cysteamine imprinted polymer is prepared on the electrode to detect the different concentrations of Cysteamine found in the oral samples.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003803 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : LINOCIN M18 IMMOBILIZED ON FOOD GRADE PACKAGING FILM AND ITS METHOD THEREOF

(51) International classification

:C07K14/36

(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 :

**1)AMITY UNIVERSITY**

Address of Applicant :AMITY UNIVERSITY CAMPUS,  
SECTOR-125 NOIDA UTTAR PRADESH-201313, INDIA Uttar  
Pradesh India

(72)Name of Inventor :

**1)GAJENDER KUMAR ASERI**

**2)VISHAKHA SHARMA**

(57) Abstract :

The present invention provides Linocin M18 from Bacillus .subtilis VS immobilized film and its method of purification. The film produces is more stable, and its purification is cost effective. It works against gram positive and negative bacteria both, which indicate its applicability is higher than older one.



No. of Pages : 16 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003807 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : UV SHIELDING BIO-DERIVED FURANIC POLYMERS

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(51) International classification

:C08K5/1515

(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 :

**1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH**

Address of Applicant :ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001 INDIA Delhi India

(72)Name of Inventor :

**1)KANNAN SRINIVASAN**

**2)RAJATHSING KALUSULINGAM**

**3)GAJULA SAMPATH**

**4)KOILRAJ PAULMANICKAM**

**5)DURAIIKKANNU SHANTHANA LAKSHMI**

---

(57) Abstract :

This invention provides UV shielding bio-derived furanic polymers (BFP). The invention further provides UV-shielding composite films containing BFP having another polymer of natural or synthetic origin at varying concentration (0.5 - 2.0 wt.% of BFP with respect to the other polymer and 2 wt.% of polymer with respect to solvent) with high thermal stability, mechanical stability and elasticity prepared through conventional solvent evaporation casting. It also provides a process for BFP having varying physicochemical properties via dehydration of various biomass saccharides in different solvents employing various catalysts. The resulting brown colored films (thickness  $0.08\pm 0.01$  mm) show excellent UV shielding in the region 200 nm to 400 nm besides exhibiting high optical transparency. The UV shielding efficiency of the film increases with an increase in its treatment temperature. The films are stable and durable in terms of mechanical stability and elasticity even after exposing to harsh conditions without affecting the UV-shielding efficiency.



No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003848 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SPLIT TYPE AIR GUIDE FOR A VEHICLE

(51) International classification	:F16H59/02	(71) <b>Name of Applicant :</b> <b>1)MARUTI SUZUKI INDIA LIMITED</b> Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070 , India. Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)MOHANASUNDARAM J</b> <b>2)ABHISHEK SOFTA</b> <b>3)RAJDEEP KHURANA</b>
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 split type air guide (100) includes an upper part (102) integrated with a bumper grill (104), the upper part (102) having a top surface (106), a first side surface (108) and a second side surface (110), the first side surface (108) having a ribbed edge (112), and the second side surface (110) having a zig-zag edge (114); and a lower part (116) configured to be mounted on the bumper grill (104) below the upper part (102), the lower part (116) having a bottom surface (118), an upper surface (119), and a third side surface (120) and a fourth side surface (122), the third side surface (120) having a linear edge (124), and the fourth side surface (122) having an L-shaped edge (126), wherein the ribbed edge (112) overlaps with the linear edge (124), and the zig-zag edge (114) overlaps with the L-shaped edge (126). To be published with Fig. 1



No. of Pages : 12 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/01/2018

(21) Application No.201811003149 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WRONG FUEL NOZZLE INHIBITOR

(51) International classification	:F01K27/00	(71) <b>Name of Applicant :</b> <b>1)MARUTI SUZUKI INDIA LIMITED</b> Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)JAIN, RISHABH</b>
(87) 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 subject matter disclosed herein relates to a wrong fuel nozzle inhibitor (100) positioned at fuel filler neck to prevent insertion of wrong fuel nozzle into the fuel tank. The device (100) has cylindrical housing (101) having two spring loaded cylindrical shafts (104) coupled with two flaps. Upon insertion of fuel nozzle (106), the fuel nozzle (106) applies outward force on the two spring loaded cylindrical shafts (104) and coupled flaps (105) for opening of the flaps at bottom end of the device 100 for complete insertion of the fuel nozzle (106).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2018

(21) Application No.201811003220 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND DEVICE FOR DESILTING AND DEWATERING OF SLUDGE

(51) International classification	:F01K27/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)AHMED, SIRAJUDDIN</b>
(32) Priority Date	:NA	Address of Applicant :A-11 JOGABAI VILLAGE JAMIA
(33) Name of priority country	:NA	NAGAR, NEW DELHI-110025, INDIA Delhi India
(86) International Application No	:NA	<b>2)AHMED NAVED</b>
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)AHMED, SIRAJUDDIN</b>
(61) Patent of Addition to Application Number	:NA	<b>2)AHMED NAVED</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention comprises of a mobile desilting and dewatering system for sewer drains that facilitates removal of sludge from the sewer drains and reduces the water content from the Sludge to reduce its volume. This system is mounted on a Tractor/Truck with an attached trolley. Tractor Trolley is fixed with a Belt press dewatering system along with a pre-screening system including a debris holding tank. Also, there is a suction pump fitted on the tractor trolley for sludge suction and pumping. The Belt Press and the suction pump are driven by the Power take off arrangement from the prime mover engine. The suction pump is attached with a long intake hose which is put into the manhole and the suction pumps out the Sludge onto the pre-screen where the large debris are separated into a Debris holding tank which can be directly emptied into the transportation trolley. The screened sludge is directly fed to the Belt press dewatering system where the sludge is dewatered, thereby reducing its volume. This dewatered sludge is transferred directly from the Belt press dewatering system outlet into another transportation trolley which transports this reduced volume sludge to the disposal site.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2018

(21) Application No.201811003230 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A WATER TREATMENT/RESTRUCTURING SYSTEM

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(51) International classification	:F16D65/02
(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 :

**1)DEVENDRA CHAUDHRY**

Address of Applicant :119-120, Sec-1, Radhapuram Estate,  
Mathura Uttar Pradesh India

(72)Name of Inventor :

**1)CHAUDHARY, Deven**

(57) Abstract :

The present invention relates to a water treatment system comprising of a water source (1) connected to an special alloy ring(5) which is capable of producing oscillations in the water, such that when water passes through the special alloy ring oscillation are absorbed in the water resulting in treated water. Proprietary oscillation so produced increases the pH value towards Alkaline. It also changes the ORP value from positive (+mv) to negative (-mv) and making it reductive in nature.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2018

(21) Application No.201811003339 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : RNAI BASED PESTICIDE COMPOSITION

(51) International classification	:C12N15/113	(71) <b>Name of Applicant :</b> <b>1)INDIAN COUNCIL OF AGRICULTURAL RESEARCH</b> Address of Applicant :KRISHI BHAWAN, DR. RAJENDRA PRASAD ROAD, NEW DELHI 110 001, INDIA Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)SIDDAPPA, Sundaresha</b>
(87) International Publication No	: NA	<b>2)SHARMA, Sanjeev</b>
(61) Patent of Addition to Application Number	:NA	<b>3)THAKUR, Vandana</b>
Filing Date	:NA	<b>4)SINGH, Bir Pal</b>
(62) Divisional to Application Number	:NA	<b>5)BHARDWAJ, Vinay</b>
Filing Date	:NA	<b>6)CHAKRABARTI, Swarup Kumar</b>

(57) Abstract :

The present invention discloses recombinant ds RNA molecules and related compositions comprising the ds RNA molecules for inhibiting the growth of Phytophthora on a plant. The ds RNA molecules as disclosed herein are synthesised against five target genes namely sorbitol dehydrogenase, heat shock protein 90, translation elongation factor 1 alpha, Phospholipase-D like-3 (PLD), and GPI anchored acidic serine threonine rich HAM34 like protein (GPI) of Phytophthora infestans. Also disclosed are method for controlling and preventing growth of Phytophthora on a plant.



No. of Pages : 99 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003366 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FOOD DETECTION SYSTEM AND A METHOD FOR THE SAME

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(51) International classification

:G01N33/58

(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 :

**1)Galgotias University**

Address of Applicant :Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar,Pin-201306,Uttar Pradesh. Uttar Pradesh India

(72)Name of Inventor :

**1)SARVESH KUMAR SHARMA**

**2)ANKIT YADAV**

(57) Abstract :

The invention relates to a food detection system operational via a user platform/interface for identifying and detecting the freshness of fruits and vegetables under observation, comprises of a mobile scanner or external optical recognition scanner for capturing fruit images in png format; a backend server for matching the image with predefined set of image data and with the help of Convolutional Neural networks CNN or machine learning tool and a display component for matching percentage and giving result about freshness and quality of foods and a method for the same.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003367 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : IMPROVED WIRELESS ANTIVIRUS DEVICE

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(51) International classification

:H04W4/12

(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 :

**1)Galgotias University**

Address of Applicant :Plot No.2, Sector 17-A, Yamuna Expressway, Greater Noida, Gautam Buddh Nagar,Pin-201306,Uttar Pradesh Uttar Pradesh India

(72)Name of Inventor :

**1)Akash Sharma**

(57) Abstract :

The invention relates to an improved wireless antivirus device that performs the function of scanning, detecting and rectifies viruses from multiple devices at the same time wirelessly with a remarkable accuracy, comprising a small 10-15 Mb application acting as a connection manager; a cloud server connection associated to said application for detecting latest virus definition; and a Firewall component installed the said device in the active state.

No. of Pages : 8 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003426 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PEAK TORQUE LIMITER

(51) International classification	:F16D48/02	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)RAICAM DRIVELINE S.R.L.</b>
(32) Priority Date	:NA	Address of Applicant :MONDOVI (CN) CORSO FRANCIA 4
(33) Name of priority country	:NA	CAP 12084, ITALY Italy
(86) International Application No	:NA	(72)Name of Inventor :
Filing Date	:NA	<b>1)RAVICHANDRAN, Balasubramanian</b>
(87) International Publication No	: NA	<b>2)SENTHAMARAI , Rameshbabu</b>
(61) Patent of Addition to Application Number	:NA	<b>3)G-KBUDAK, Hanifi</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention is dedicated to a peak torque limiter (J0) configured to regulate the hydraulic fluid that flows through a hydraulic arrangement (l) for a clutch mechanism, and more especially in order to lowpass said hydraulic fluid pressure. To this purpose, the peak torque limiter (lo) comprises a valve (100) that includes (i) a cylindrical shape (120) elongating through a longitudinal axis (O), (ii) a flange (llO) configured for being axially and elastically deformable and comprising a central opening (130) and at least two radial openings (140) elongating from the central opening (140). The valve (100) acts as a deforming membrane for modulating a transverse aperture with respect to the hydraulic fluid pressure, in an opposite manner. The invention aims also at providing a hydraulic arrangement (l) for hydraulic-actuated-clutch mechanism, said hydraulic arrangement (l) comprising such peak torque limiter (10).



No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003480 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR EFFICIENT EXHAUST HEAT RECOVERY IN INTERNAL COMBUSTION ENGINE FOR ENHANCING FUEL CONSUMPTION

(51) International classification

:F01K27/00

(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 :

**1)MARUTI SUZUKI INDIA LIMITED**

Address of Applicant :1 Nelson Mandela Road, Vasant Kunj,  
New Delhi-110070 , India. Delhi India

(72)Name of Inventor :

**1)VASHISTH, AJAY KUMAR**

**2)GARG, DEEPAK**

**3)GHADGE, SAMARTH**

**4)KUMAR, PRADEEP**

**5)GOLA, HEMANT**

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(57) Abstract :

The subject matter disclosed herein relates to an exhaust gas heat recovery system (100) for warming up engine and engine coolant. The system (100) diverts the exhaust gas from exhaust gas pipe (9) to engine body (2) via exhaust in pipe (6). The engine body (2) has first and second heat transfer cavity (10, 11) transfers the heat to the engine body and the engine coolant. After circulation of the exhaust heat in the engine body (2), the exhaust gas goes back into the exhaust pipe (9) via exhaust out pipe (7). The ECU (12) controls actuation of exhaust in valve (5) and the exhaust out valve (8) for diverting of the exhaust gas inside the engine body (2).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003481 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ISOFIX ANCHORAGE STRUCTURE

(51) International classification	:B60N2/2887	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)MARUTI SUZUKI INDIA LIMITED</b>
(32) Priority Date	:NA	Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)NAYAK, PRANATI PRIYA</b>
Filing Date	:NA	<b>2)CHANDRA, SEKHAR SAKUBOENA</b>
(87) International Publication No	: NA	<b>3)KHANNA, SUSHEEL</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An isofix anchorage structure (100) includes a tubular cross member (102); a plurality of isofix bars (104) defines U-shaped profile having an edge (106), and a plurality of extensions (108) coupled to the tubular cross member (102); a plurality of isofix brackets (110) defining an arcuate profile having a base (112) configured to be coupled to a rear floor panel (114), a first flange (116) and second flange (118) extending from the base (112), the first flange (116) defining an aperture (120) and the second flange (118) defining an arcuate end (122), the aperture (120) and the arcuate end (122) configured to receive the tubular cross member (102) adjacent to plurality of extensions (108); and a plurality of reinforcement plates (124) coupled to the tubular cross member (102) and the plurality of isofix bars (104), each of the plurality of reinforcement plates (124) provided beneath the plurality of extensions (108). To be published with Fig. 1b



No. of Pages : 17 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2018

(21) Application No.201811003525 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : VEHICLE STEERING ARM FOR ASSISTED STEERING SYSTEM TO RESTRICT WEAR AND TEAR OF KINGPIN SPLINES

(51) International classification

:F16D65/02

(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 :

**1)Mahindra & Mahindra Limited**

Address of Applicant :Mahindra & Mahindra Limited, Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area,“ 160055, S.A.S. Nagar (Mohali), Punjab, India Punjab India

(72)Name of Inventor :

**1)UDAM LAL SINGLA**

**2)HARMANPREET**

(57) Abstract :

A steering arm 10 for an assisted steering system defines a plurality of internal splines 10I, a portion 10N, a fastener receiving portion 10F and a blind slit 10G. The plurality of internal splines 10I of the steering arm 10 is adapted to be provided in engagement with corresponding plurality of external splines 20E1 of kingpin 20. The portion 10N of the steering arm 10 is adapted to be provided in non-engagement with corresponding plurality of another external splines 20E2 of kingpin 20 therein to restrict the wear and tear of corresponding plurality of external splines 20E2 of kingpin 20 during the operation of assisted steering system. The blind slit 10G is adapted to facilitate uniform distribution of applied turning torque on bottom portion of corresponding external splines 20E1 of the kingpin 20 during operation of the assisted steering system. Fig. 3



No. of Pages : 24 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003559 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : AN ISOLATION PROCESS FOR PHYTO CO-PROCESSING AGENT FROM FLOWER BUDS OF JASMINUM GRANDIFLORUM AND IS APPLICATION

(51) International classification	:A61K36/02	(71) <b>Name of Applicant :</b> <b>1)PROF. (DR) N.V. SATHEESH MADHAV</b> Address of Applicant :DIT UNIVERSITY, MUSSOORIE DIVERSION ROAD, MAKKAWALA, DEHRADUN, UTTARAKHAND-248009 Uttarakhand India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)PROF. (DR) N.V. SATHEESH MADHAV</b>
(61) Patent of Addition to Application Number	:NA	<b>2)DEEPIKA RAINA</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

This invention explores a process by formulating bio- nano-gel using a bio-retardant, gelling agent and other co-processing agent. The bio-retardant was isolated from Jasminum grandiflorum by economical process. The biopolymer was characterised by various spectral data and revelled that biopolymer displayed inbuilt properties of emulsifier, retardability, flimability and devoid of toxicity. The bio-nano-gel loaded with duloxetin were" prepared by using API, nanosizer, co-nanosizer, co-solvent and subjected for sonication and were uniformly dispersed in a optimised gelling agent. The biopolymer isolated from Jasminum grandiflorum had percentage yield  $10.13\text{ }\text{\AA}\pm 0.02$  -  $0.48\text{ }\text{\AA}\pm 0.03$ . The biopolymer was light brown in color, odourless and characteristic in taste. Its melting point was found to be  $165\text{-}170\text{ }^{\circ}\text{C}$ . It was tested positive for proteins and carbohydrates, amino acids were not present. It was tested positive for proteins, carbohydrates and amino acids. Drug content was found to be  $93.2\text{ }\text{\AA}\pm 0.02$  -  $97.4\text{ }\text{\AA}\pm 0.02$ , entrapment efficiency  $69.48\text{ }\text{\AA}\pm 0.02$  -  $85.59\text{ }\text{\AA}\pm 0.07$ .Formulation was evaluated for texture, spreadibility and retardability. In-vivo, pharmacokinetic, pharmacodynamic's studies. Results revealed the retardability and extended drug release due to the bio polymer inbuilt property.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003561 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : AN ISOLATION PROCESS FOR PHYTO-CO-PROCESSING AGENT FROM FLOWER BUDS OF JASMINUM GRANDIFLORUM AND ITS APPLICATION

(51) International classification

:A61K36/02

(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 :

**1)PROF. (DR) N.V. SATHEESH MADHAV**

Address of Applicant :DIT UNIVERSITY, MUSSOORIE  
DIVERSION ROAD, MAKKAWALA, DEHRADUN,  
UTTARAKHAND-248009 Uttarakhand India

(72)Name of Inventor :

**1)PROF. (DR) N.V. SATHEESH MADHAV**

**2)DEEPIKA RAINA**

(57) Abstract :

Delivery of Duloxetine to the brain is a significant beneficial approach for effective management of depression by minimizing the counter therapeutic effects in the form of adverse reaction. In this invention a novel approach was explored to formulate bio-nanogel using a smart bio-retarding agent isolated from Ferula asafoetida as a bio-stabilizer cum bio-retardant. The optimized formulation showed its unique flexibility for delivering through (external acoustic meatus) EAM, which was scientifically proved by correlating the In-vitro drug release. Our finding reveals that significant permeability of nanosized duloxetine was observed using the ex-vivo performance studies and the bio-functional agent shows significant promising stabilizing ability, retardability in drug release. In-vitro drug release was performed over a period of 36 hours.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003566 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : VENTILATOR COVER FOR A VEHICLE

(51) International classification	:F16D65/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)MARUTI SUZUKI INDIA LIMITED</b>
(32) Priority Date	:NA	Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070, India. Delhi India
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)KALITA, MANASH</b>
Filing Date	:NA	<b>2)SINGLA, BINNY</b>
(87) International Publication No	: NA	<b>3)SRIVASTAVA, AYUSH</b>
(61) Patent of Addition to Application Number	:NA	<b>4)DHIMAN, JATINDER</b>
Filing Date	:NA	<b>5)SHARMA, PARVEEN K</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A ventilator cover (312) disposed on a ventilator (310) in a luggage compartment (300) of a vehicle, the ventilator (310) positioned substantially on a rear skirt panel (306). The ventilator cover (312) including an arcuate vertical part (502) covering the ventilator (310), the arcuate vertical part (502) having a first span (L1) defined between a plurality of first edges (504), a plurality of horizontal parts (506) extending from the plurality of first edges (504), and having a second span (L2) defined between a plurality of second edges (508) and the plurality of first edges (504), and a plurality of flanges (510) extending from the plurality of second edges (508), the plurality of flanges (510) configured to be secured to the rear skirt panel (306). To be published with Fig. 3



No. of Pages : 16 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003652 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OMAL

(51) International classification	:A61K31/704	(71) <b>Name of Applicant :</b> <b>1)ANIL KUMAR S/O SRI GANPAT SINGH</b> Address of Applicant :0123 BAZARPUKHATA JAHANGIRABAD B.S.R. U.P-202394, INDIA Uttar Pradesh India
(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 :

O-mailiit-ba-tHsoaja makes skin healthy and soft because their oil nature. Which is beneficial for skin and save skin from diseases"with repairing cracks. Removing dandruff) black and white spot, stop hair fall also

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003653 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : OMAL SKINCARE

(51) International classification

:A61K31/704

(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 :

**1)ANIL KUMAR S/O SRI GANPAT SINGH**

Address of Applicant :0123 BAZAR-PUKHATA

JAHANGIRABAD B.S.R. UTTAR PRADESH-202394, INDIA

Uttar Pradesh India

(72)Name of Inventor :

**1)ANIL KUMAR S/O SRI GANPAT SINGH**

(57) Abstract :

GmaiflJllpah soap makes skin healthy and soft because their oil nature. Which is beneficial for skin and save skin from diseases with repairing cracks. Removing dandruff, black and white spot, stop hair fall also

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003654 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : OMAL ALL CLEAR

(51) International classification	:A61K31/704	(71) <b>Name of Applicant :</b> <b>1)ANIL KUMAR S/O SRI GANPAT SINGH</b> Address of Applicant :0123 BAZAR-PUKHATA JAHANGIRABAD B.S.R. UTTAR PRADESH-202394, INDIA
(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 :

Omal all clear bath soap makes skin healthy and soft because their oil nature. Which is beneficial for skin and save skin from diseases with repairing cracks. Removing dandruff, black and white spot, stop hair fall also.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003678 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ADJUSTABLE HINGE ASSEMBLY FOR AUTOMOBILE TRUNK LID

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(51) International classification	:F01K27/00	(71) <b>Name of Applicant :</b> <b>1)MARUTI SUZUKI INDIA LIMITED</b> Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070 , India. Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)SINGH, AMIT</b>
(87) International Publication No	: NA	<b>2)KASARLA, SHARATH CHANDRA</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

---

(57) Abstract :

The subject matter disclosed herein relates to an adjustable hinge assembly (600) for adjusting pop-up height trunk lid of vehicle. The adjustable hinge assembly (600) comprises a hinge link (603) having one end (603d) and another end. The other end has a plurality of U shaped receiving portions (603a, 603b, 603c) to receive crank part of a torsion bar (602) to provide varied length to the hinge link (603) to change the pop-up height of the trunk lid.



No. of Pages : 25 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003704 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : NANO FILTRATION ASSISTED PROCESS FOR ETHANOL FERMENTATION OF LIGNOCELLULOSIC HYDROLYSATE

(51) International classification	:C07K14/36
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(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 :**

**1)INDIAN INSTITUTE OF TECHNOLOGY DELHI**

Address of Applicant :Hauz Khas, New Delhi“ 110 016,  
(India) Delhi India

(72)**Name of Inventor :**

**1)AGARWAL, Gopal, Prasad**

**2)SREEKRISHNAN, Trichur Ramaswamy,**

**3)RASTOGI, Arjun**

---

(57) Abstract :

The invention relates to a process for production of bioethanol from a lignocellulosic biomass hydrolysate. Said process comprises subjecting the lignocellulosic biomass hydrolysate to nanofiltration to obtain a glucose enriched stream and a xylose enriched stream; fermenting the glucose enriched stream and the xylose enriched stream separately by wild type microorganisms to obtain bioethanol. This process allows utilization of both glucose and xylose present in the hydrolysate for production of ethanol with high yield and productivity using wild type species microorganisms alone. This invention is an alternative to the current widely used processes which rely mainly on genetically modified microorganisms for utilization of both glucose and xylose in lignocellulosic hydrolysates.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :31/01/2018

(21) Application No.201811003707 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A NOVEL PRO-APOPTOTIC PEPTIDE FOR SELECTIVE ELIMINATION OF MALIGNANT CELLS

(51) International classification	:C07K14/43545
(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 :

1)INDIAN COUNCIL OF MEDICAL RESEARCH (ICMR)

Address of Applicant :V. Ramalingaswami Bhawan, Ansari Nagar, New Delhi-110 029, Delhi, India. Delhi India

(72)Name of Inventor :

1)AMIT PAL

2)TANUSREE RAY

(57) Abstract :

A novel pro-apoptotic peptide for selective elimination of malignant cells, said pro-apoptotic peptide for the elimination of tumor cells, having a sequence of N-PFISED-COOH when independent and PFISED when working as a part of PAR1, wherein said PAR1 (Accession No.: 22165405) as well as N-PFISED-COOH is free floating. The peptide sequence PFISED as a part of PAR 1 is exposed through the induction from Vibrio cholerae Hemagglutinin Protease (HAP), wherein HAP cleaved the N-terminal portion of PAR1 receptor wherein further PFISED is exposed as a new N-terminal sequence, acting as a tethered ligand that binds intramolecularly to trigger transmembrane signaling of PAR1. The peptide sequence selectively induces apoptosis in malignant cells through the activation of of NFB in Mitogen Activated Protein Kinase(s) (MAPK(s)) pathway leaving the health of adjoining normal cells unaltered.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003849 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : LOADING OF REAR STRUCTURE COMPONENTS OF A VEHICLE HAVING NO PLASTIC TRIM

(51) International classification	:F01K15/00	(71) <b>Name of Applicant :</b> <b>1)MARUTI SUZUKI INDIA LIMITED</b> Address of Applicant :1 Nelson Mandela Road, Vasant Kunj, New Delhi-110070 , India. Delhi India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)KALITA, MANASH JYOTI</b>
(87) International Publication No	: NA	<b>2)SINGLA, BINNY</b>
(61) Patent of Addition to Application Number	:NA	<b>3)DHIMAN, JATINDER</b>
Filing Date	:NA	<b>4)SHARMA, PARVEEN K</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Loading of rear structure components (200) of a vehicle is disclosed. The rear structure components (200) includes a rear floor (202); a plurality of side body (204) secured to the rear floor (202), the plurality of side body (204) including a plurality of trim less quarter panels (206), each of the plurality of trim less quarter panels (206) define receptacles; and a rear skirt panel (208) including a trim less member tail end (210), the trim less member tail end (210) defining extensions configured to be received by the receptacles during a smooth transition to achieve a uniform structure (300), wherein, a cross section of the plurality of trim less quarter panels (206), and a cross section of the trim less member tail end (210) is such that the uniform structure (300) replicates provision of a trim. To be published with Figs. 2a-2b



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003886 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MULTI-SEGMENT TAMPON

(51) International classification	:A61F13/2071	(71) <b>Name of Applicant :</b> <b>1)YUAN-CHENG, CHIEN</b> Address of Applicant :NO. 72, YONGFANG RD., DALIAO DIST., KAOHSIUNG CITY, POSTAL CODE: 83158, TAIWAN
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)YUAN-CHENG, CHIEN</b>
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 multi-segment tampon (2, 2<sup>TM</sup>, 2<sup>□</sup>) includes an absorbent body (3, 3<sup>TM</sup>, 3<sup>□</sup>) and a pull string (4). The absorbent body (3, 3<sup>TM</sup>, 3<sup>•</sup>) is configured to be inserted into a vagina (6) for absorbing menstrual blood and includes a plurality of body segments (31, 31<sup>TM</sup>, 31<sup>□</sup>) arranged along a longitudinal direction. Each body segment (31, 31<sup>TM</sup>, 31<sup>□</sup>) defines an insert hole (32). The pull string (4) has one end extending into the insert holes (32) of the body segments (31, 31<sup>TM</sup>, 31<sup>•</sup>) in order to string the body segments (31, 31<sup>TM</sup>, 31<sup>•</sup>) together along the longitudinal direction. Another end of the pull string (4) that is opposite to the one end extends out of the absorbent body (3, 3<sup>TM</sup>, 3<sup>•</sup>).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/02/2018

(21) Application No.201811003897 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : INTEGRATED PAPER PRODUCT READABLE BY SIGHTED AND NON-SIGHTED USERS AND PROCESS OF MANUFACTURING THEREOF

(51) International classification :D21H21/48  
(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 :  
**1)ARORA, Puneet**  
Address of Applicant :L-88, Lajpat Nagar-2, New Delhi-110024, India. Delhi India  
(72)Name of Inventor :  
**1)ARORA, Puneet**  
**2)ARORA, Inder Kumar**

(57) Abstract :

The present disclosure relates to an integrated paper product that is readable by sighted and non-sighted users, and further relates to a process of manufacturing said integrated paper product. In an aspect, the present disclosure relates to an integrated paper product that is readable by sighted as well as non-sighted users, said paper product inclusively comprising a paper sheet having printed text that is used by sighted users, and at least one polypropylene base film on which polymer-based transparent raised and tactile projections are configured, wherein said paper sheet adheres to said at least one polypropylene base film using a low melt temperature copolymer adhesive, and wherein said polymer-based transparent raised and tactile projections are used by non-sighted users. The raised and tactile projections comprise any or a combination of shapes, texts and dots.



No. of Pages : 19 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/10/2018

(21) Application No.201814039850 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INKJET PRINTER

(51) International classification	:B41J2/01	(71)Name of Applicant :
(31) Priority Document No	:2018-012295	<b>1)KISHU GIKEN KOGYO CO., LTD.</b> Address of Applicant :466, NUNOHIKI, WAKAYAMA-SHI, WAKAYAMA JAPAN Japan
(32) Priority Date	:29/01/2018	(72)Name of Inventor :
(33) Name of priority country	:Japan	<b>1)Yukihiro Furukawa</b> <b>2)Dai Nezaki</b>
(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 :

The present invention provides an inkjet printer that can reduce the amount of consumption of ink solvent and minimize an increase in price and size of the apparatus. The inkjet printer according to the present invention includes a solvent evaporation inhibition means that holds the air pressure within an ink tank at a value greater than the saturated vapor pressure of an ink solvent. The solvent evaporation inhibition means includes: a pipe that is attached to an ink tank main body or its lid; and a non-return valve that is provided midway in the pipe and is opened when the air pressure within the pipe exceeds a predetermined value.



No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/09/2016

(21) Application No.201611031290 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ROAD MINE SYSTEM

(51) International classification	:F03G1/00	(71) <b>Name of Applicant :</b> <b>1)SUNDER LAL GUPTA</b> Address of Applicant :RAM GANJ KACHCHAWAH KALPI JALAUN, UTTAR PRADESH, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)SUNDER LAL GUPTA</b>
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 is a new discovery in which the air of the atmosphere is made available in the form of air at very little expense, in the way heat disinfectant projects are used to heat the water and to make the steam burning. Here I have installed my technique on the road, on which the power is going to waste when driving. By converting that kinetic energy to energy into energy, I have achieved the force of air. When a vehicle passes through the technique then the plate D stuck in the stack is suppressed. Then pressed one end of lever 1 in the compressor system and the other end raises. By which connecting rod 2 piston 3 in the liver 1 moves to cylinder 4. Wind filled in Seleander 4 leaves the Balbo 5/2 and drops into Tank 8 by pipeline 7, which is in check box 6. By which we get the strength of the wind. The function of the spring 11 1 for lane is to liver 1. When liver 1 comes back to its position, the Balbo 5 1 opens and the air is filled in the cylinder. This action keeps on moving. By applying this technique we can get more air than work. By running bigger engines, we can produce a widow. The summarization of my technique can produce electricity without polluting the environment, and the benefits of its utility reach the masses, there is no waste in this technique. By which the atmosphere is not polluted.

No. of Pages : 9 No. of Claims : 1

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/02/2017

(21) Application No.201711006122 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SHUT DOWN CONTROL MECHANISM

(51) International classification	:F02N11/0822	(71) <b>Name of Applicant :</b> <b>1)NITIN KUMAR MALLI</b> Address of Applicant :VASSA ROAD. POST ROHIDA, SIROHI RAJASTHAN-307024 INDIA Rajasthan India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)NITIN KUMAR MALLI</b>
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 :

Through this system the accidents of the widow employees can be completely stopped. Presently, the corporation is continuously going under the deficit and if the employees stay together, then the deficit can also be worked out and this system gives the system an opportunity to raise the deficit by loss and to work without any mental stress.. Therefore, due to the formation of this system, the accidents can be stopped only on a corporation like termites.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/12/2018

(21) Application No.201817048210 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OPTICAL IMAGING LENS

(51) International classification	:G02B9/64
(31) Priority Document No	:201710546349.9
(32) Priority Date	:06/07/2017
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2018/074544
Filing Date	:30/01/2018
(87) International Publication No	:WO 2019/007045
(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)ZHEJIANG SUNNY OPTICAL CO., LTD

Address of Applicant :No. 66-68 Shunyu Road, Yuyao  
Ningbo, Zhejiang 315400 China

(72)Name of Inventor :

1)WENREN, Jianke

2)YANG, Lin

(57) Abstract :

An optical imaging lens comprising sequentially along an optical axis from an object side to an image side: A first lens (E1), a second lens (E2), a third lens (E3), a fourth lens (E4), a fifth lens (E5), a sixth lens (E6), and a seventh lens (E7). The first lens, the fourth lens, and the fifth lens all have either a positive or a negative focal power. The second lens has a positive focal power. The third lens has a negative focal power. At least one of the sixth lens or the seventh lens has a negative focal power, wherein the effective focal length f1 of the first lens and the effective focal length f2 of the second lens satisfy  $f2 / |f1| < 0.5$ .

No. of Pages : 65 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001693 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BATTERY BOX LOCKING STRUCTURE OF ELECTRIC VEHICLE

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(51) International classification :H01M2/0247  
(31) Priority Document No :107103527  
(32) Priority Date :31/01/2018  
(33) Name of priority country /region :Taiwan  
(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)Kwang Yang Motor Co., Ltd.

Address of Applicant :No. 35, Wan Hsing Street, San Min District, Kaohsiung City, Taiwan

(72)Name of Inventor :

1)CHEN, Yi-Tso

(57) Abstract :

An electric vehicle includes a frame unit and a vehicle body cover unit. The vehicle body cover unit includes a thread board shielding left and right tread tubes of the frame unit between which a receiving space is defined to receive a battery box that receives and holds a battery. The battery box has two sides provided with support shafts. The battery box is rotatable between an open position and a storage position. A locking device is selectively set in releasable engagement with a positioning member provided on the battery box so as to selectively lock the battery box in the storage position. An operation unit is provided for controlling the locking device to engage with or disengage from the positioning member so as to allow the battery box to rotate from the storage position to the open position.



No. of Pages : 38 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001694 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BATTERY BOX OPENING STRUCTURE OF ELECTRIC VEHICLE

(51) International classification :H01M2/0247  
(31) Priority Document No :107103526  
(32) Priority Date :31/01/2018  
(33) Name of priority country/region :Taiwan  
(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)Kwang Yang Motor Co., Ltd.

Address of Applicant :No. 35, Wan Hsing Street, San Min District, Kaohsiung City, Taiwan

(72)Name of Inventor :

1)CHEN, Yi-Tso

(57) Abstract :

An electric vehicle includes a frame unit and a vehicle body cover unit. The frame unit includes tread boards extending toward a rear side of a vehicle body. The tread tubes are arranged pairwise leftward and rightward as a left tread tube and a right tread tube. The vehicle body cover unit includes a thread board shielding the left tread tube and the right tread tube. A battery box that receives and holds a battery is shaft-supported on the frame unit. The battery box has two sides provided with support shafts. The battery box is shaft-supported on the frame unit by the support shafts in a left-right direction. The battery box is rotatable by a drive device about a rotation center defined by the support shafts in a front-rear direction to an open position or a storage position so as to facilitate removal of the battery from the battery box.



No. of Pages : 28 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001696 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BATTERY BOX STRUCTURE OF ELECTRIC VEHICLE

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(51) International classification	:H01M2/0247
(31) Priority Document No	:107103523
(32) Priority Date	:31/01/2018
(33) Name of priority country /region	:Taiwan
(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)Kwang Yang Motor Co., Ltd.

Address of Applicant :No. 35, Wan Hsing Street, San Min  
District, Kaohsiung City, Taiwan

(72)Name of Inventor :

1)CHEN, Yi-Tso

(57) Abstract :

An electric vehicle includes a frame unit and a vehicle body cover unit. The frame unit includes tread boards extending toward a rear side of a vehicle body. The tread tubes are arranged in a left and right pairwise form as a left tread tube and a right tread tube. The vehicle body cover unit includes a thread board shielding the left tread tube and the right tread tube. A battery box that receives and holds a battery is shaft-supported on the frame unit. The battery box has two sides provided with support shafts. The battery box is shaft-supported on the frame unit by the support shafts in a left-right direction. The battery box is rotatable about a rotation center defined by the support shafts in a front-rear direction to an open position or a storage position so as to facilitate removal of the battery from the battery box.



No. of Pages : 37 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001697 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : STRUCTURE OF ELECTRIC VEHICLE

---

(51) International classification	:H01M2/0247	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:107103530	<b>1)Kwang Yang Motor Co., Ltd.</b>
(32) Priority Date	:31/01/2018	Address of Applicant :No. 35, Wan Hsing Street, San Min
(33) Name of priority country /region	:Taiwan	District, Kaohsiung City, Taiwan
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)CHEN, Yi-Tso</b>
(87) International Publication No	: NA	<b>2)KE, Shiow-Pyng</b>
(61) Patent of Addition to Application Number	:NA	<b>3)SU, Tai-Yuan</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

---

(57) Abstract :

An electric vehicle includes a frame unit and a vehicle body cover unit. The frame unit includes tread tubes extending toward a rear side and arranged pairwise as a left tread tube and a right tread tube. The vehicle body cover unit includes a tread board that shields the left tread tube and the right tread tube. The frame unit is provided with a battery box that receives and holds therein a battery and the frame unit is provided thereon with a side stand. The electric vehicle is provided with an electric connection mechanism on the vehicle body at one side thereof opposite to the side stand for replenishing the battery with external electric power so that a drawback that the electric vehicle tips over when replenishment of electric power is being made to the battery is prevented to thereby improve utilization of the electric vehicle.



No. of Pages : 30 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001698 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BATTERY BOX STRUCTURE OF ELECTRIC VEHICLE

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(51) International classification :B60L3/0046  
(31) Priority Document No :107103524  
(32) Priority Date :31/01/2018  
(33) Name of priority country /region :Taiwan  
(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)Kwang Yang Motor Co., Ltd.

Address of Applicant :No. 35, Wan Hsing Street, San Min District, Kaohsiung City, Taiwan

(72)Name of Inventor :

1)CHEN, Yi-Tso

(57) Abstract :

An electric vehicle includes a frame unit and a vehicle body cover unit. The frame unit includes tread tubes extending toward a rear side of a vehicle body. The tread tubes are arranged in a left and right pairwise form as a left tread tube and a right tread tube, and a first cross tube and a second cross tube connected to the tread tubes. The vehicle body cover unit includes a thread board shielding the left and right tread tubes. A battery box that receives and holds a battery is shaft-supported on the frame unit. The battery box is shaft-supported on the frame unit by support shafts in a vehicle body front-rear direction. The battery box is rotatable about a rotation center defined by the support shafts in a vehicle body left-right direction to an open position to facilitate removal of the battery from the battery box.



No. of Pages : 34 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/12/2017

(21) Application No.201711043396 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUTOMATIC BRAKDOWN SOLUTION

(51) International classification

:D06F58/22

(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 :

**1)RAJU KASHAYAP**

Address of Applicant :340, GALLI NO-2, TAHIRPUR,  
DILSHAD GARDEN JHilmil, EAST DELHI-110095, INDIA

Delhi India

(72)Name of Inventor :

**1)RAJU KASHAYAP**

(57) Abstract :

Within a ball or ball like water or a fizz switch, at least 10 amperes, or all of these fitting structure or body size in the body, according to the size of the lid, after fitting of them will work on the wires of the common meter After fitting in the tank lid, Somersibles will be turned on when filling the life time tank. And if it gets worse, its cost of repairing will be from Rs 15 to Rs 50

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/03/2019

(21) Application No.201912010004 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INTRAVENOUS CATHETER APPARATUS

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(51) International classification	:A61M25/0606
(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	:2897/DEL/2010
Filed on	:06/12/2010

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(71)**Name of Applicant :**

**1)POLY MEDICURE LIMITED**

Address of Applicant :Plot No. 105, Sector 59, HSIIDC  
Industrial Area, Faridabad, Haryana“ 121 004, INDIA Haryana  
India

(72)**Name of Inventor :**

**1)RISHI BAID**

(57) Abstract :

An intravenous catheter apparatus comprising: a tubular catheter (10) having a proximal end and a distal end (16); a needle (12) defining an axial direction and having a needle shaft (22) and a needle tip (14) at a distal end of the needle shaft (22); said needle shaft (22) extending through said tubular catheter (10) such that said needle tip (14) of said needle (12) protrudes from said distal end (16) of said tubular catheter (10); and characterized in that said needle shaft (22) comprising an engagement means (26) adapted to engage with a needle guard slidably arranged on said needle shaft (22) in order to prevent said needle guard from sliding off said needle tip (14), said needle shaft (22) is provided with a lateral opening (28) arranged after said engagement means (26) distally from said needle tip (14) such that said lateral opening (28) is covered by said tubular catheter (10) wherein the lateral opening (28) and engagement means (26) has a geometrical shape/dimension smaller than the dimension of a bent distal end section of a needle guard.



No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :01/01/2019

(21) Application No.201914000068 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MANUFACTURING METHOD AND MANUFACTURING APPARATUS FOR CAFFEINE-LESS BLACK TEA

(51) International classification	:A23F3/36	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:2018-014585	<b>1)TEA SOLUTIONS, HARA OFFICE INC.</b> Address of Applicant :510, 18-15, TAIHEI 1-CHOME, SUMIDA-KU TOKYO 130-0012 JAPAN Japan
(32) Priority Date	:31/01/2018	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:Japan	<b>1)Yukihiko HARA</b>
(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 :

The present invention provides a manufacturing method and a manufacturing apparatus for caffeine-less black tea, concerning caffeine reducing treatment in a black tea manufacturing process. A manufacturing method for caffeine-less black tea includes performing, between a fermenting step and a last drying step in a black tea manufacturing process, caffeine reducing treatment for reducing caffeine concentration by spraying a hot water shower on fermented tea leaves to reduce the caffeine concentration and manufacture black tea. A manufacturing facility for caffeine-less black tea includes a withering facility that withers plucked raw tea leaves, an apparatus that rolls the withered tea leaves, a fermenting facility that ferments the rolled tea leaves, a caffeine reducing treatment facility that reduces caffeine content in the fermented tea leaves with a hot water shower, and a drying facility that dries caffeine-reduced fermented tea leaves.



No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/01/2019

(21) Application No.201914000408 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRICITY SUPPLY SYSTEM OF DRIVEN ELEMENT OF VEHICLE

(51) International classification	:B60R16/03	(71)Name of Applicant :
(31) Priority Document No	:107103290	1)KWANG YANG MOTOR CO., LTD.
(32) Priority Date	:30/01/2018	Address of Applicant :No.35, WANSING ST., SANMIN DISTRICT, KAOHSIUNG CITY 807, TAIWAN
(33) Name of priority country /region	:Taiwan	(72)Name of Inventor :
(86) International Application No	:NA	1)TENG, Hsin Liang
Filing Date	:NA	2)CHENG, Jen Chieh
(87) 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 electricity supply system of a driven element of a vehicle includes: a drive unit, where the drive unit drives a driven element to move; a controller, used to control the drive unit; a plurality of electricity storages, where at least one of the plurality of electricity storages supplies electricity to the drive unit, to drive the driven element to move; and the plurality of electricity storages includes a low-power electricity storage, a regular electricity storage, and a removable electricity storage; and a pluggable charging unit, where the pluggable charging unit charges the removable electricity storage, the regular electricity storage, and the low-power electricity storage.



No. of Pages : 29 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/01/2019

(21) Application No.201914001742 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HIGH-PRESSURE PORT FOR A HIGH-PRESSURE FUEL PUMP OF A FUEL INJECTION SYSTEM, AND HIGH-PRESSURE FUEL PUMP

(51) International classification	:F02M39/00	(71) <b>Name of Applicant :</b> <b>1)CPT GROUP GmbH</b> Address of Applicant :Vahrenwalder Strae, 9 - 30165 Hannover - GERMANY Germany
(31) Priority Document No	:DE 10 2018 201 279.2	(72) <b>Name of Inventor :</b> <b>1)SCHELLER ; MAX</b>
(32) Priority Date	:29/01/2018	
(33) Name of priority country	:Germany	
(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 relates to a high-pressure port (22) for a high-pressure fuel pump (18), which has an outlet valve (34) having an outlet valve element (38) and a pressure-limiting valve (36) having a pressure-limiting valve element (40), wherein the outlet valve element (38) forms a pressure-limiting valve seat (56) for the outlet valve element (38). The invention also relates to a high-pressure fuel pump (18) which has such a high-pressure port (22).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/01/2019

(21) Application No.201914002086 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : AIR CONDITIONING SYSTEM

(51) International classification	:F24F13/00
(31) Priority Document No	:2018-16360
(32) Priority Date	:01/02/2018
(33) Name of priority country	:Japan
(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

(71)Name of Applicant :

1)KIMURA KOHKI CO., LTD.

Address of Applicant :A-23, UEMACHI, CHUO-KU  
OSAKA-SHI, OSAKA 540-0005 JAPAN Japan

(72)Name of Inventor :

1)KIMURA, Keiichi

2)MORITA, Mitsuo

3)ISHIDA, Takayuki

4)GOTO, Kazuya

5)SATO, Hidekazu

(57) Abstract :

An air conditioning system includes: an air conditioner (1) configured to supply air-conditioning air; and an air conditioner control device (2) configured to control the air conditioner (1). The air conditioner (1) includes: an outside air passage (8), through which outside air flows; a return air passage (9), through which return air flows; an outside air heat exchanger (10); a return air heat exchanger (11); an outside air vaporizing humidifier (12) configured to humidify the outside air by utilizing evaporation of water; and a return air vaporizing humidifier (13) configured to humidify the return air by utilizing evaporation of water. The air conditioner control device (2) includes a first vaporizing cooler (31) configured to operate at least one of the humidifiers (12,13) to perform vaporization cooling of the air-conditioning air while preventing the air-conditioning air from exchanging heat with a heat exchange medium.



No. of Pages : 38 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :18/01/2019

(21) Application No.201914002322 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HIGH EFFICIENCY CENTRIFUGAL IMPELLER

(51) International classification	:F04D 29/42	(71)Name of Applicant : <b>1)CARRIER CORPORATION</b> Address of Applicant :17900 Beeline Highway, Jupiter, Florida 33478, U.S.A.
(31) Priority Document No	:62/623,298	
(32) Priority Date	:29/01/2018	
(33) Name of priority country	:U.S.A.	(72)Name of Inventor : <b>1)SISHTLA, Vishnu M.</b> <b>2)CHEN, Jing</b>
(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 balancing weight mountable within a balance hole of a rotary component includes a cylindrical body having a desired weight. An opening is formed in a portion of the body to define a hollow passageway and a mechanism couples the cylindrical body within an interior of the balance hole.



No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2019

(21) Application No.201914002491 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND ASSEMBLY FOR FASTENING A MULTIPLICITY OF COMPONENTS OF THE SAME TYPE

(51) International classification	:F16B5/02
(31) Priority Document No	:18153876.0
(32) Priority Date	:29/01/2018
(33) Name of priority country	:EPO
(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

(71)Name of Applicant :

1)Siemens Aktiengesellschaft

Address of Applicant :Werner-von-Siemens-Strae 1, 80333  
M¼nchen, Germany, Germany

(72)Name of Inventor :

1)Eidenberger, Robert

(57) Abstract :

In order for a multiplicity of components (TSO, TSI) of the same type to be fastened by bracing by means of dissimilar caulking pieces (ST0f ST1, ST2), a first component (TSI) by an actuator (AK) is braced in a force-fitting manner according to the invention in relation to a first caulking piece (ST1). A first bracing parameter (VP1) herein is measured by a first sensor (SI) during the bracing procedure. A second caulking piece (ST2) is then selected so as to depend on the first bracing parameter (VPI)f a second component by the actuator (AK) being braced in a force-fitting manner in relation to said second caulking piece (ST2).



No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/01/2019

(21) Application No.201914002509 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POWER TRANSMISSION APPARATUS

(51) International classification	:F16H37/04	(71)Name of Applicant :
(31) Priority Document No	:2018-015367	<b>1)TOYOTA JIDOSHA KABUSHIKI KAISHA</b> Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(32) Priority Date	:31/01/2018	(72)Name of Inventor :
(33) Name of priority country	:Japan	<b>1)Hirotsugu YOSHINO</b> <b>2)Hideaki KOMADA</b> <b>3)Yosuke SUZUKI</b> <b>4)Takahito ENDO</b>
(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 power transmission apparatus includes a first meshing engagement mechanism that selectively couples a first rotational section and a second rotational section; and a second meshing engagement mechanism that selectively couples a third rotational section and a fourth rotational section. The first meshing engagement mechanism includes a first movable member (37) provided with third meshing teeth (38) that mesh with first meshing teeth (32) provided on one of the first and the second rotational sections. The second meshing engagement mechanism includes a second movable member (42) provided with fourth meshing teeth (43) that mesh with second meshing teeth (41) provided on one of the third and the fourth rotational sections. At least a portion of a first movable region (L1) of the third meshing teeth (38) and at least a portion of a second movable region (L2) of the fourth meshing teeth (43) overlap with each other in a radial direction with respect to a rotational axis.



No. of Pages : 41 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/07/2016

(21) Application No.201611024690 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRIC BREAKER BRIDGE

(51) International classification	:H01H33/14	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)DEVI SINGH RAJPOOT</b>
(32) Priority Date	:NA	Address of Applicant :VILL-KANKUWA, THANA-
(33) Name of priority country	:NA	MAHOBKANTH, TH. KULPAHAR, DISTT. MAHOBIA, U.P.
(86) International Application No	:NA	210429, INDIA Uttar Pradesh India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)DEVI SINGH RAJPOOT</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A cult two hinge Traveling along the way Power of free Roshan will be the whole city Since this invention is an unconventional energy source, That is the renewal of renewable energy is a source. It is only a power source that is 100% efficient in providing clean energy without any fuel and without any weather condition. Since the vehicle reaches the dynamic stage by the energy received from the fuel, and this device turns the kinetic energy of the vehicles into mechanical energy and then into the power energy. Therefore, it does not require any type of fuel, hence it does not cause any pollution of any kind. Because of this, this tool can prove to be the most useful in the future. Because in the coming time there will be the secret of such devices which are not available for pollution.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :19/01/2017

(21) Application No.201711002043 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PORTABLE WASHING MACHINE-CUM-TABLE FAN

(51) International classification	:D06F7/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)Srivastava Vibhor</b>
(32) Priority Date	:NA	Address of Applicant :A-1607,Sector-1,LDA Colony, Kanpur Road, Lucknow, UP Uttar Pradesh India
(33) Name of priority country	:NA	<b>2)Sharma Arvind Kumar</b>
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Srivastava Vibhor</b>
(87) International Publication No	: NA	<b>2)Sharma Arvind Kumar</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A PORTABLE ELECTRICAL DEVICE FOR WASHING 5CLOTHES IN ANY WATER CONTAINER/BUCKET OF SUITABLE SIZE. THIS EASES THE MANUAL EFFORTS AND LABOR REQUIRED WHEN ONLY A FEW (5-7) CLOTHES HAVE TO BE WASHED ON A DAILY BASIS. THE INVENTION IS INDEPENDENT OF A WATER CONTAINER AND HENCE 10CAN ADAPT TO ANY BUCKET. THIS ALSO MAKES THE DEVICE LIGHT WEIGHT, SMALL AND THUS PORTABLE. IT CONSUMES LOW POWER AND MINIMIZES WASTAGE OF WATER. THE INVENTION MAKES USE OF A WATERPROOF BRUSHLESS DC MOTOR. THE INVENTION CAN ALSO 15ADAPT TO WORK AS A TABLE FAN FOR ROOM COOLING BY FIXING OTHER ATTACHMENTS SUCH AS FAN BLADE.

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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914002831 A

(19) INDIA

(22) Date of filing of Application :23/01/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : SWITCHED RELUCTANCE MOTOR, SADDLE TYPE VEHICLE, AND POWER GENERATING DEVICE

(51) International classification	:H02K1/246	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:2018-012853	<b>1)SUZUKI MOTOR CORPORATION</b> Address of Applicant :300, Takatsuka-cho, Minami-ku, Hamamatsu-shi, Shizuoka, 432-8611, Japan Japan
(32) Priority Date	:29/01/2018	
(33) Name of priority country	:Japan	(72) <b>Name of Inventor :</b>
(86) International Application No Filing Date	:NA :NA	<b>1)Junzo UEDA</b>
(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 :

There is provided a switched reluctance motor (11). A disc plate (12) includes a disc-like non-magnetic member (13) configured to rotate integrally with a rotary member, and at least four magnetic members (15) disposed on an outer periphery part of the non-magnetic member (13) at a predetermined interval in a circumferential direction of the non-magnetic member (13). At least three magnetic-field forming units (21, 22, 23) are fixed to a support member rotatably supporting the rotary member, with a fitting member (33) interposed therebetween, and disposed on an outer circumferential side of the disc plate (12), apart from the disc plate, at an interval different from the predetermined interval in a circumferential direction of the disc plate (12). Each of the magnetic-field forming units (21, 22, 23) has a coil winding member (25) formed of a soft magnetic material, and extending from one side of the outer periphery part of the disc plate (12) in an axial direction thereof to the other side of the outer periphery part of the disc plate (12) in the axial direction thereof via an outside of the disc plate (12) in a radial direction thereof; and main coils (27, 28) wound on the coil winding member (25). When drive currents are applied to the main coils (27, 28), a driving magnetic field which penetrates the outer periphery part of the disc plate (12) in the axial direction of the disc plate (12) is formed, and by the driving magnetic field, each of the magnetic members (15) is attracted, whereby the disc plate (12) rotates.



No. of Pages : 36 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/01/2019

(21) Application No.201914003293 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SEATBELT PRETENSIONING RETRACTOR ASSEMBLY

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(51) International classification	:B60R22/4628	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/881325	<b>1)AUTOLIV ASP, INC</b>
(32) Priority Date	:26/01/2018	Address of Applicant :3350 Airport Road, Ogden, UT 84405
(33) Name of priority country	:U.S.A.	USA. U.S.A.
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)Bin Wang</b>
(87) International Publication No	: NA	<b>2)Richard William Koning</b>
(61) Patent of Addition to Application Number	:NA	<b>3)Jon E. Burrow</b>
Filing Date	:NA	<b>4)Christopher D. Hall</b>
(62) Divisional to Application Number	:NA	<b>5)Ken Kohlndorfer</b>
Filing Date	:NA	

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(57) Abstract :

A seatbelt pretensioning retractor assembly for use in a passenger vehicle is provided. The pretensioning assembly includes a one-piece tread head pinion including a ring portion having a plurality of teeth and a pair of flanges on each side of the teeth. The tread head pinion is formed as a single piece and includes a shaft extending from a side and a bearing portion extending from a second side. A bending element mounting portion extends from the bearing portion. The one-piece tread head pinion is attached to a spindle via a torsion bar, and the spindle bears against the bearing portion when the spindle rotates relative to the tread head pinion. The one-piece tread head pinion may include a staking cavity extending into the bearing portion with a staking wall that is deformable toward a digressive bending element inserted into the staking cavity.



No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201914003411 A

(19) INDIA

(22) Date of filing of Application :28/01/2019

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WATER PUMP FIXING STRUCTURE

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(51) International classification	:F01P5/10
(31) Priority Document No	:2018-013634
(32) Priority Date	:30/01/2018
(33) Name of priority country	:Japan
(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

(71)Name of Applicant :

1)SUZUKI MOTOR CORPORATION

Address of Applicant :300, Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka 4328611 Japan. Japan

(72)Name of Inventor :

1)Shinichi YAMADA

(57) Abstract :

A water pump fixing structure according to the present invention comprises: a valve operating mechanism 7 that drives an intake valve and an exhaust valve; a cylinder head 4 that supports the valve operating mechanism 7; a head cover that covers the cylinder head 4 and the valve operating mechanism 7; and a water pump 9 driven by the valve operating mechanism 7, wherein the cylinder head 4 includes a side wall 25 having an arcuate cutout surface 25a formed by cutting out a mating surface 4b mating with the head cover, and an opposing wall 26 formed with an arcuate opposing surface 26a opposing the cutout surface 25a and provided integrally with the sidewall 25, and the water pump 9 is fixed to the cylinder head 4 as being fitted in a circular water pump 9 support hole formed by the cutout surface 25a and the opposing surface 26a.



No. of Pages : 32 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2019

(21) Application No.201914003469 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ANTI-BACTERIAL AQUEOUS INK COMPOSITIONS COMPRISING WATER SOLUBLE SODIO-SULFONATED POLYESTER

(51) International classification	:C09D11/30	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/886,381	<b>1)Xerox Corporation</b>
(32) Priority Date	:01/02/2018	Address of Applicant :201 Merritt 7 Norwalk, Connecticut
(33) Name of priority country	:U.S.A.	06851-1056, United States of America U.S.A.
(86) International Application No Filing Date	:NA :NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)Naveen Chopra</b>
(61) Patent of Addition to Application Number Filing Date	:NA :NA	<b>2)Guerino G. Sacripante</b>
(62) Divisional to Application Number Filing Date	:NA	<b>3)Valerie M. Farrugia</b>

(57) Abstract :

A composite including a sodium sulfonated polyester matrix; wherein the sodium sulfonated polyester has a degree of sulfonation of at least about 3.5 mol percent; and a plurality of silver nanoparticles dispersed within the matrix. An aqueous ink composition including water; an optional co-solvent; an optional colorant; and a composite comprising a sodium sulfonated polyester matrix; wherein the sodium sulfonated polyester has a degree of sulfonation of at least about 3.5 mol percent; and a plurality of silver nanoparticles dispersed within the matrix. A method including heating a sodium sulfonated polyester resin in water, wherein the sodium sulfonated polyester has a degree of sulfonation of at least about 3.5 mol percent; adding a solution a silver (I) ion to the heated resin in water to form a mixture; optionally, adding a reducing agent to the mixture; forming an emulsion of composite particles comprising a sodium sulfonated polyester matrix and a plurality of silver nanoparticles disposed within the sodium sulfonated polyester matrix.



No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2019

(21) Application No.201914003476 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : VARIABLE FORCE TENSIONER WITH SECONDARY PISTON RATCHET CLIP

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(51) International classification

:F16H7/0848

(31) Priority Document No

:62/624,241

(32) Priority Date

:31/01/2018

(33) Name of priority country

:U.S.A.

(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 order to prevent noise, a ratchet clip and grooves for the ratchet clip to engage are added to the second piston, such that the second piston cannot hit the bottom of the second bore housing. The second piston is prevented from hitting the bottom of the second bore housing by the ratchet clip engaging the ratchet grooves on the outer circumference of the second piston.



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

(71)Name of Applicant :

**1)BorgWarner Inc.**

Address of Applicant :3850 Hamlin Road Auburn Hills,  
Michigan 48326, United States of America U.S.A.

(72)Name of Inventor :

**1)Keith B. Cobb**

**2)Kevin B. Todd**

**3)Robert G. Williamson**

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2019

(21) Application No.201914003562 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DISPLAY HOLDER

(51) International classification	:A47F7/00
(31) Priority Document No	:2018-016778
(32) Priority Date	:01/02/2018
(33) Name of priority country	:Japan
(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

(71)Name of Applicant :

**1)TOYOTA JIDOSHA KABUSHIKI KAISHA**

Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken,  
471-8571, Japan Japan

(72)Name of Inventor :

**1)Takako YAMADA**

**2)Yasuhisa FUJIWARA**

**3)Kuniaki HASEGAWA**

**4)Yoshinari MAEDA**

**5)Yukinori KAWAMURA**

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(57) Abstract :

A display holder (20) includes a display mounting stand (21). The display mounting stand includes a holder, a rail, an arm (24), a first gear (G1), a second gear (G2), and a third gear (G3). The second gear and the third gear are located between the arm and a first linear moving part (23). The second gear is coaxially coupled to the first gear through a hole extending through the first linear moving part (23). The third gear meshes with the second gear and a second rack (24R) so as to interlock movement in one direction of the rail relative to the holder with movement in the one direction of the arm relative to the rail. A first rack (22R) is located on a side wall extending in the one direction of the first support part. The second rack (24R) is located on a side wall extending in the one direction of the arm.



No. of Pages : 24 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :29/01/2019

(21) Application No.201914003568 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DISPLAY HOLDER

(51) International classification	:F21V17/06	(71)Name of Applicant :
(31) Priority Document No	:2018-016779	<b>1)TOYOTA JIDOSHA KABUSHIKI KAISHA</b> Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(32) Priority Date	:01/02/2018	(72)Name of Inventor :
(33) Name of priority country	:Japan	<b>1)Takako YAMADA</b> <b>2)Yasuhisa FUJIWARA</b> <b>3)Kuniaki HASEGAWA</b> <b>4)Yoshinari MAEDA</b> <b>5)Yukinori KAWAMURA</b>
(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 display holder includes a display mounting stand (20) that includes a pair of upper and lower holding parts (30, 50, 60) configured to hold a display in a stand-up posture therebetween. Each of the holding parts has a cut-out (33, 54, 64) in a portion of the holding part. An accommodating part (10) includes an aperture (11) through which the display mounting stand passes, and which is filled with one of the holding parts when the display mounting stand is accommodated. A portion of the aperture includes a projection (12) projecting inward of the aperture. The projection located at a position through which the cut-outs (33, 54, 64) pass while the display mounting stand is in the laid-down posture. The projection fills the cut-out (33, 54) of one of the holding parts when the display mounting stand is accommodated.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2019

(21) Application No.201914003628 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEFLECTOR SHEAVE BRACKET FOR OFFSET BEDPLATE

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(51) International classification	:B66B15/04
(31) Priority Document No	:15/884,042
(32) Priority Date	:30/01/2018
(33) Name of priority country	:U.S.A.
(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)OTIS ELEVATOR COMPANY**

Address of Applicant :One Carrier Place, Farmington,  
Connecticut 06032 U.S.A.

(72)Name of Inventor :

**1)PIERRE, Bruce St.**

**2)SWAYBILL, Bruce P.**

(57) Abstract :

A deflector sheave mounting bracket for mounting a plurality of individual deflector sheaves of an elevator system includes a top plate, a bottom plate, and a plurality of support plates connected at a first end to the top plate and connected at a second, opposite end to the bottom plate. A plurality of openings for receiving the plurality of deflector sheaves is defined between pairs of adjacent support plates of the plurality of support plates. At least one opening of the plurality of openings is vertically offset and horizontally offset from another of the plurality of openings.



No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2019

(21) Application No.201914003669 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : EXHAUST EMISSION CONTROL DEVICE

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(51) International classification	:f01n3/00
(31) Priority Document No	:2018-016090
(32) Priority Date	:01/02/2018
(33) Name of priority country	:Japan
(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

(71)Name of Applicant :

**1)SUZUKI MOTOR CORPORATION**

Address of Applicant :300, Takatsuka-cho, Minami-ku,  
Hamamatsu-shi, Shizuoka, 432-8611 Japan Japan

(72)Name of Inventor :

**1)Kazumasa SUEHIRO**

(57) Abstract :

There is provided an exhaust emission control device. A collecting filter is configured to collect soot discharged from an engine. A control device is configured to control a fuel injection device and an ignition device. The control device performs filter regeneration facilitation control for halting fuel injection and/or ignition at a predetermined time interval in a regeneration facilitation range of a control map defined on the basis of engine speed and engine load.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/01/2019

(21) Application No.201914003703 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BI-FUNCTIONAL LIGHT MODULE WITH COMMON ILLUMINATED SURFACE

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(51) International classification

:G02B

(31) Priority Document No

:1850804

(32) Priority Date

:31/01/2018

(33) Name of priority country

:France

(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) Abstract :

The invention relates to a light module (2), notably for a motor vehicle, comprising a first reflecting surface (12), of the elliptical type, with a first focus (f1) and a second focus (f2); a second reflecting surface (18), of the parabolic type, with a focus corresponding to the second focus (f2) of the first reflecting surface (12); light rays emitted by a first light source (24) located at the first focus (f1) of the first reflecting surface (12) being reflected by the first and second reflecting surfaces (12, 18) to form a first light beam; and a third reflecting surface (20) adjacent to the second focus (fz) of the first reflecting surface (12) and configured to reflect, towards the second reflecting surface (18), light rays emitted by a second light source (28), in order to form a second light beam.



No. of Pages : 16 No. of Claims : 15

(71)Name of Applicant :

**1)VALEO VISION**

Address of Applicant :34, rue Saint Andre, 93012 BOBIGNY Cedex, France France

(72)Name of Inventor :

**1)LAMINETTE Maxime**

**2)DOHA Jean-François**

**3)GIRAUD Sylvain**

**4)FLOC'H Lionel**

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/07/2016

(21) Application No.201611023621 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SHATRUGHAN

(51) International classification

:B22D41/12

(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 :

**1)VIVEK MISHRA**

Address of Applicant :VILLAGE, BITTONI, POST  
POWAYAN SHAHJAHANPUR, U.P.-242401, INDIA Uttar  
Pradesh India

(72)Name of Inventor :

**1)VIVEK MISHRA**

(57) Abstract :

Shatrughan Bamfer will be protected from the accident in front. The direction of force generated from the front collision will change. The force will be directly on the lower road instead of the vehicle. Wheel Stopper will stop four wheels without breaking it during the accident.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :14/07/2016

(21) Application No.201611024091 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NAVEEN AVAM NAVIKARNIYE AKSHAYURJA PAR AADHARIT SANYANTRA LAGHOO JAL VIDHUT URJA SANYANTRA.

(51) International classification	:F03B13/00	(71) <b>Name of Applicant :</b> <b>1)KRISHAN PAL YADAV</b> Address of Applicant :HOUSE NO-567/154 ANAND NAGAR, ALAMBAGH, LUKHNOW, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	(72) <b>Name of Inventor :</b>
(87) International Publication No	: NA	<b>1)KRISHAN PAL YADAV</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

It is a simple and inexpensive system on hydro power. It is a simple and cheap method to win, it is so powerful and important that it can be achieved by establishing a local method, which has beneficial results. Sea water is an effective solution for obtaining large amounts of electricity.



No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :02/01/2017

(21) Application No.201711000053 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRICAL GENERATION WITHOUT ANY FULE

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(51) International classification	:H02K1/00	(71) <b>Name of Applicant :</b> <b>1)DEVENDER SINGH</b> Address of Applicant :HOUSE NO.-V-970, GALLI NO. 8, SANJAY COLONY, NARELA, DELHI-110040,INDIA Delhi India
(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	

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(57) Abstract :

Many parts of the falling weight in the submitted project are made by inserting a single load and on a common ratchet placed on the last end of the lag, several multiplied pressure shaft is applied. Produce GEAR with the same power shaft receives the desired RPM.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015887 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NEW STRIGOLACTONE ANALOGS AND THEIR USAGE IN PLANT CONTROL

(51) International classification :C07D307/60A01N43/08  
(31) Priority Document No :62/400506  
(32) Priority Date :27/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2017/055877  
    Filing Date :27/09/2017  
(87) International Publication No :WO 2018/060865  
(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)KING ABDULLAH UNIVERSITY OF SCIENCE AND TECHNOLOGY

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(72)Name of Inventor :

1)AL-BABILI, Salim

2)ASAMI, Tadao

3)OHTA, Tsuyoshi

(57) Abstract :

A strigolactone analog-based composition comprising at least one compound represented by: (I) wherein Ra Rb Rc Rf Re and Rz are selected. The compositions can be used in for example plant growth regulation and weed control including controlling the germination of parasitic root plants inhibiting rice tillering and triggering leaf senescence.



No. of Pages : 71 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015888 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : INTRAMEDULLARY NAILING SYSTEM OF VARIABLE ANGLE TO TREAT FEMUR FRACTURES

(51) International classification :A61B17/15A61B17/16A61B17/74  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/ES2016/000110  
Filing Date :10/10/2016  
(87) International Publication No :WO 2018/069554  
(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)**FERRERO MANZANAL, Francisco**

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Cartagena Spain

2)**MURCIA ASENSIO, Antonio**

(72)Name of Inventor :

1)**FERRERO MANZANAL, Francisco**

2)**MURCIA ASENSIO, Antonio**

(57) Abstract :

The cephalomedelfary nailing system of the invention can be used to solve three main problems namely: reducing fractures improving assembly biomechanics such that the load axis is as favorable as possible for the fracture line and preventing femoral neck collapse as well as offset and limb length loss hence avoiding the possibility of reduced abductor power. The system is based on a specific screw channel geometry and the placement of an additional locking screw allowing the nail to turn through 360 $\circ$  and facilitating nail Insertion through the screw.



No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015889 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : EMISSION CONTROL DURING CATALYST REGENERATION

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(51) International classification :F02D41/02F01N9/00F02D41/06  
(31) Priority Document No :62/404537  
(32) Priority Date :05/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/055258  
Filing Date :05/10/2017  
(87) International Publication No:WO 2018/067774  
(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)MONSANTO TECHNOLOGY LLC**

Address of Applicant :800 North Lindbergh Boulevard St.  
Louis, Missouri 63167 U.S.A.

(72)**Name of Inventor :**

**1)WAN, Kam-To**

(57) Abstract :

Catalyst regeneration processes that include measures for controlling emissions generated during the regeneration are described. The present invention further relates to catalytic processes for producing various chlorinated aromatic compounds that include provisions for controlling emissions during catalyst regeneration.

No. of Pages : 14 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015890 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NOVEL METHOD FOR PRODUCING HIGH-CARBON MATERIALS AND HIGH-CARBON MATERIAL PRODUCED

(51) International classification :D01F9/16D01F9/17C04B35/83  
(31) Priority Document No :FR1660536  
(32) Priority Date :28/10/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/052949  
    Filing Date :26/10/2017  
(87) International Publication No :WO 2018/078287  
(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)ARKEMA FRANCE

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(72)Name of Inventor :

1)KORZHENKO, Alexander

2)MERCADER, Celia

(57) Abstract :

The invention relates to a method (1) for producing a high-carbon material (2) characterised in that it comprises the combination (100) of a structured precursor (10) comprising a fibre or a group of fibres and a non-structured precursor (15) in the form of a fluid said fluid having a viscosity of less than 45 000 MPa.s-1 at the temperature at which the combination step is carried out and comprising at least one organic compound which is cyclical or aromatic in the melted state or in solution with a mass concentration lower than or equal to 65% in such a way as to obtain a combined precursor (20) corresponding to the structured precursor (10) covered with the non-structured precursor (15) said method also comprising the following steps: a step of thermal and dimensional stabilisation (200) of the combined precursor (20) in such a way as to produce a fibre or a group of fibres covered with a cyclical or aromatic organic compound deposit (30) and a step of carbonisation (300) of the fibre or the group of fibres covered with a cyclical or aromatic organic compound deposit (30) in such a way as to produce a high-carbon material (2).



No. of Pages : 25 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/03/2019

(21) Application No.201917008904 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : APPARATUS AND METHOD FOR GRAVITATIONAL SEPARATION OF THE PHASES OF A TWO PHASE LIQUID

(51) International classification :B01D17/02B01D17/12B01D21/00  
(31) Priority Document No :2956764  
(32) Priority Date :31/01/2017  
(33) Name of priority country :Canada  
(86) International Application No :PCT/EP2018/052018  
Filing Date :26/01/2018  
(87) International Publication No :WO 2018/141655  
(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)SUEZ GROUPE

Address of Applicant :Tour CB21 16 place de l'Iris 92040 Paris La D©fense France

(72)Name of Inventor :

1)LESSARD, Hugo

(57) Abstract :

Disclosed is an apparatus for the gravitational separation of the first and second liquid phases of a two phase liquid containing predominantly a continuous first liquid phase with a dispersed second liquid phase having a lower specific gravity than the first liquid. The apparatus comprises a tank defining an interior chamber. A feed inlet introduces the two 5 phase liquid into the lower portion of the chamber. The upper portion of the chamber has an upward flow zone through which the two phase liquid rises, with the dispersed second liquid rising more than the first liquid and being separated therefrom due to the second liquid's lower specific gravity. The second liquid forms a floating layer and a conduit directs separated second liquid from the floating layer to a second liquid outlet.



No. of Pages : 16 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016085 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MOBILE TELECOMMUNICATIONS SYSTEM ENTITY FOR TRANSMITTING SYSTEM INFORMATION IN A 5G NETWORK

(51) International classification	:H04W72/12H04W48/10
(31) Priority Document No	:16196249.3
(32) Priority Date	:28/10/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/077531
Filing Date	:26/10/2017
(87) International Publication No	:WO 2018/078060
(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)SONY CORPORATION**

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108-0075 Japan

(72)**Name of Inventor :**

**1)WEI, Yuxin**

**2)MARTIN, Brian Alexander**

**3)SHARMA, Vivek**

**4)WAKABAYASHI, Hideji**

**5)TSUDA, Shinichiro**

---

(57) Abstract :

A mobile telecommunications system entity for a mobile telecommunications system has at least one entity which serves at least one user equipment. The mobile telecommunications system entity has circuitry which is configured to transmit scheduling information for on-demand system information which can be requested by the at least one user equipment. (Fig. 1)



No. of Pages : 23 No. of Claims : 42

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016086 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IN-WHEEL MOTOR DRIVE DEVICE

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(51) International classification	:B60K7/00F16H57/021
(31) Priority Document No	:2016-202470
(32) Priority Date	:14/10/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2016/082716
Filing Date	:02/11/2016
(87) International Publication No	:WO 2018/070055
(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)NTN CORPORATION

Address of Applicant :3-17, Kyomachibori 1-chome, Nishi-ku,  
Osaka-shi, Osaka 5500003 Japan

(72)Name of Inventor :

1)TAIKOU Shinya

2)TAMURA Shiro

3)UOZUMI Tomohisa

---

(57) Abstract :

Provided is an in-wheel motor drive device 21 comprising an electric motor section A a speed reducer section B and a bearing section C for a wheel. The in-wheel motor drive device 21 is provided with a casing 22 and the speed reducer section B has a speed reduction structure comprising parallel shaft gears. The in-wheel motor drive device 21 is characterized in that: the parallel shaft gears are constituted of one or more intermediate shafts S1 provided with an input-side intermediate gear 31 and an output-side intermediate gear 32 and of an output shaft 36 provided with a final output gear 35; the opposite ends of the intermediate shafts S1 and the opposite ends of the output shaft 36 are rotatably supported by rolling bearings 44 45 48 49; and among the rolling bearings 44 45 48 49 the rolling bearing 44 located adjacent to the input-side intermediate gear 31 and/or the rolling bearing 48 located adjacent to the final output gear 35 is disposed in the inner diameter-side recess 33 47 in the adjacent gear 31 35.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016087 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : REFRIGERANT AMOUNT DETERMINATION METHOD AND REFRIGERANT AMOUNT DETERMINATION DEVICE

(51) International classification	:F25B49/02F25B5/02	(71) <b>Name of Applicant :</b> <b>1)DAIKIN INDUSTRIES, LTD.</b> Address of Applicant :Umeda Center Building, 4-12, Nakazaki-Nishi 2-Chome, Kita-ku, Osaka-shi, Osaka 5308323 Japan
(31) Priority Document No	:2016-193142	
(32) Priority Date	:30/09/2016	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2017/035480	
Filing Date	:29/09/2017	
(87) International Publication No	:WO 2018/062485	
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b> <b>1)YAMADA, Takuro</b> <b>2)NAKAGAWA, Yuusuke</b> <b>3)HONDA, Masahiro</b> <b>4)OKA, Yuusuke</b> <b>5)SASAYAMA, Hiroki</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Provided is a refrigerant amount determination method and refrigerant amount determination device capable of ascertaining an appropriate refrigerant filling amount according to the length of refrigerant connection piping in a refrigeration device having a refrigerant circuit in which a gas-liquid two-phase refrigerant flows in liquid-side refrigerant connection piping. This method determines the amount of refrigerant to be filled in a refrigeration device comprising a refrigerant circuit (10) having connected therein: a compressor (21); an outdoor heat exchanger (22) which functions as a condenser; an outdoor expansion valve (28); indoor heat exchangers (41a 41b) which function as evaporators; liquid-side refrigerant connection piping (5) which sends to the indoor heat exchangers (41a 41b) refrigerant decompressed at the outdoor expansion valve (28) after passing through the outdoor heat exchanger (22); and gas-side refrigerant connection piping (6) which sends to an intake side of the compressor (21) refrigerant that has passed through the indoor heat exchangers (41a 41b). The amount of refrigerant to be filled in the refrigerant circuit (10) is determined such that the greater the length of the liquid-side refrigerant communication piping (5) the greater the amount of refrigerant per unit length of the liquid-side refrigerant connection piping (5).



No. of Pages : 38 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015892 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DRAINAGE DEVICE AND METHOD FOR DRAINING THE AQUEOUS HUMOUR OF THE EYEBALL

(51) International classification	:A61F9/007	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:102016000098246	<b>1)FERENTINI, Gabriele Ubaldo</b> Address of Applicant :Via Pestalozzi, 22 20143 Milano Italy
(32) Priority Date	:30/09/2016	<b>2)FERENTINI, Fabio</b>
(33) Name of priority country	:Italy	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/IB2017/055951	<b>1)FERENTINI, Gabriele Ubaldo</b>
Filing Date	:28/09/2017	<b>2)FERENTINI, Fabio</b>
(87) International Publication No	:WO 2018/060912	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A drainage device for draining the aqueous humor present in the anterior chamber of the eyeball comprises a drainage tube (10) extending axially along a tube axis between a distal end (10") and a proximal end (10"). The distal and proximal ends are at least partially open and are beveled in the same direction. A support flange (30) extends from the proximal end (10") of the drainage tube (10) and comprises a plate-shaped portion (32) having an upper surface (32") and a lower surface (32"). The proximal end (10") of the drainage tube (10) is sloped so as to make its opening face the upper surface (32") of the plate-shaped portion.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015907 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PISTON VALVE-SEALING STRUCTURE AND PISTON VALVE FLUID CONTROL METHOD

(51) International classification	:F16K1/34F16K1/44	(71) <b>Name of Applicant :</b> <b>1)ICHIMARU-GIKEN CO., LTD.</b> Address of Applicant :601, Oaza Tsunemochi, Chikugo-shi, Fukuoka 8330016 Japan
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/JP2016/079913	(72) <b>Name of Inventor :</b> <b>1)ICHIMARU Hironobu</b>
Filing Date	:07/10/2016	
(87) International Publication No	:WO 2018/066121	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The purpose of the present invention is to improve the durability of a valve plug sealing structure. A three-way valve (1) which is an example of a piston valve-sealing structure that is an application of the present invention comprises a valve box (2) a valve stem (3) and a valve plug (4). The valve stem (3) is a metal rod-shaped member that reciprocates vertically in a known piston structure (not shown). For the valve plug (4) an upper guide washer (21) is installed on the valve stem (3) adjacent to an upper disc ring (19). The outer diameter of the upper guide washer (21) portion is formed to be slightly smaller than the internal diameter of a flat part (12) of a first valve seat (11). A lower guide washer (22) is installed on the valve stem (3) adjacent to a lower disc ring (20). The outer diameter of the lower guide washer (22) portion is formed to be slightly smaller than the internal diameter of a flat part (16) of a second valve seat (15).



No. of Pages : 20 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015908 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BREAST TREATMENT DEVICE

(51) International classification :A61F2/12A61L27/36A61F2/00  
(31) Priority Document No :62/403344  
(32) Priority Date :03/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/054712  
    Filing Date :02/10/2017  
(87) International Publication No :WO 2018/067433  
(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)BARERE, Aaron**

**2)JANKIEWICZ, Antoni**

**3)BACHRACH, Nathaniel**

---

(57) Abstract :

The present disclosure provides devices and systems for treating a breast. A system (30) includes a low-density implant (10) wherein the implant comprises a material that does not allow fluid accumulation within the implant and an acellular tissue matrix composition (20) wherein the low-density implant and acellular tissue matrix are configured to allow implantation of the low-density implant and acellular tissue matrix composition within a breast site.



No. of Pages : 15 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015912 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WELLBORE COMPLETION APPARATUS AND METHODS UTILIZING EXPANDABLE INVERTED SEALS

(51) International classification	:E21B43/12E21B43/02F16J15/16
(31) Priority Document No	:15/289430
(32) Priority Date	:10/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/052186
Filing Date	:19/09/2017
(87) International Publication No	:WO 2018/071140
(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)BAKER HUGHES, A GE COMPANY, LLC

Address of Applicant :17021 Aldine Westfield Houston, Texas 77073 U.S.A.

(72) **Name of Inventor :**

1)ALLEN, Jason A.

2)O'BRIEN, Robert S.

(57) Abstract :

An apparatus for use in a wellbore is disclosed that in one non-limiting embodiment includes a housing including a first location having a first inside dimension and a second location having a second inside dimension that is larger than the first inside dimension and a seal assembly placed with a sliding fit at the first location wherein the seal assembly includes a seal body and an inverted seal along an inside of the seal body and wherein the seal assembly is movable from the first location to the second location and expandable into the second location when the seal assembly is positioned at the second location.



No. of Pages : 9 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015915 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A SELF-COILING HOLLOW FIBRE MEMBRANE

(51) International classification :B01D63/02B01D67/00B01D69/08  
(31) Priority Document No :16191999.8  
(32) Priority Date :01/10/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/074922  
Filing Date :30/09/2017  
(87) International Publication No :WO 2018/060510  
(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 :Blyry Business and Commercial Park Athlone, Co. Westmeath N37 CK06 Ireland

(72)Name of Inventor :

1)SYRON, Eoin  
2)SEMMENS, Michael  
3)WHELAN, Malcolm  
4)GEANEY, John  
5)COOMBES, Nigel  
6)BYRNE, Wayne  
7)HEFFERNAN, Barry

(57) Abstract :

A hollow fibre membrane having a coiled a hemihelix a helical or an undulated native form in which the membrane can be stretched by up to 4-times its original length with no plastic deformation and wherein the native form of the membrane is produced by the asymmetric flow of liquid polymer through an opening of a die or nozzle.



No. of Pages : 25 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016088 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ELECTRICAL APPARATUS COMPRISING A LOCKING DEVICE FOR AN ATTACHMENT RAIL

(51) International classification	:H02B1/052
(31) Priority Document No	:1660283
(32) Priority Date	:24/10/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/076969
Filing Date	:23/10/2017
(87) International Publication No	:WO 2018/077786
(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)MERSEN FRANCE SB SAS

Address of Applicant :15 rue Jacques Vaucanson 69720  
SAINT-BONNET-DE-MURE France

(72)Name of Inventor :

1)AUBERT, Laurent

2)SOUMILLON, Olivier

---

(57) Abstract :

This electrical apparatus (1) includes a locking device (16) for locking on an attachment rail (2) comprising: a tab (160) that is moveable along a first axis (X1) between a locking position and an unlocking position; a deformable blade (161 162) which connects the tab to a central portion (10) of the casing and which exerts a resilient return force on the tab. The tab (160) comprises a locking member (164) arranged on a side face of the tab projecting along a second axis (Y1) perpendicular to the first axis and the electrical apparatus comprises on an inner face of the cover a housing the locking member being movable between a retained position inside the housing and a released position outside the housing.



No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016089 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND DEFENCE SYSTEM FOR COMBATING THREATS

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(51) International classification :F41G3/14F41H13/00F41H11/02  
(31) Priority Document No :10 2016 121 698.4  
(32) Priority Date :11/11/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/077695  
Filing Date :27/10/2017  
(87) International Publication No:WO 2018/086919  
(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)RHEINMETALL WAFFE MUNITION GMBH

Address of Applicant :Heinrich-Ehrhardt-Str. 2 29345 Unterlüneburg  
Germany

(72)Name of Inventor :

1)JUNG, Markus

2)GRAF, Alexander

(57) Abstract :

It is proposed to make a threat (2) better visible for a defensive measure (3). In this context the threat (2) should be imaged more intensely for the defensive measure (3). For the purposes of more effective imaging provision is made for the threat (2) to emit a stronger IR signature and thus be able to stand out sufficiently against the background for the defensive measure (3). The stronger IR signature is caused by heating a surface (9) of the threat (2) which is realized by a laser weapons system (7). The defensive measure (3) can better detect this heating and has an IR seeker head to this end.



No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016090 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : CATALYST COMPRISING SMALL 10-RING ZEOLITE CRYSTALLITES AND A METHOD FOR PRODUCING HYDROCARBONS BY REACTION OF OXYGENATES OVER SAID CATALYST.

(51) International classification	:B01J29/70B01J35/02C01B39/48	(71) <b>Name of Applicant :</b> <b>1)HALDOR TOPSE A/S</b> Address of Applicant :Haldor Tops,es All© 1 2800 Kgs. Lyngby Denmark
(31) Priority Document No	:PA 2016 00578	
(32) Priority Date	:30/09/2016	
(33) Name of priority country	:Denmark	
(86) International Application No	:PCT/EP2017/074662	(72) <b>Name of Inventor :</b>
Filing Date	:28/09/2017	<b>1)BEATO, Pablo</b> <b>2)SVELLE, Stian</b> <b>3)ROJO GAMA, Daniel</b> <b>4)MOLINO, Andrea</b> <b>5)LUKASZUK, Katarzyna Anna</b> <b>6)SKISTAD, Wegard</b>
(87) International Publication No	:WO 2018/060349	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A catalyst material comprises 10-ring zeolite crystallites with one-dimensional non-intersecting channels such as TON (ZSM-22) and MTT (ZSM-23) wherein the crystallites have an average length of less than 150 nm. The catalysts are useful in a method for producing hydrocarbons by reaction of oxygenates over said catalysts.



No. of Pages : 10 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016092 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : ELECTRICAL INSULATION SYSTEM BASED ON EPOXY RESINS FOR GENERATORS AND MOTORS

(51) International classification	:H01B3/04	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:16196684.1	<b>1)HUNTSMAN ADVANCED MATERIALS LICENSING (SWITZERLAND) GMBH</b>
(32) Priority Date	:01/11/2016	Address of Applicant :Klybeckstrasse 200 4057 Basel
(33) Name of priority country	:EPO	Switzerland
(86) International Application No	:PCT/EP2017/076838	<b>2)ISOVOLTA AG</b>
Filing Date	:20/10/2017	<b>(72)Name of Inventor :</b>
(87) International Publication No	:WO 2018/082938	<b>1)BEISELE, Christian</b>
(61) Patent of Addition to Application Number	:NA	<b>2)BAER, Daniel</b>
Filing Date	:NA	<b>3)STECHER, Harald</b>
(62) Divisional to Application Number	:NA	<b>4)BRASCH, Melanie</b>
Filing Date	:NA	

(57) Abstract :

Disclosed is an anhydride-free insulation system for insulating an electrical conductor or a coil of conductors comprising: (a) a liquid epoxy resin formulation comprising at least 80% by weight based on the liquid epoxy resin bath formulation of bisphenol A diglycidyl ether (b) a mica tape comprising a mica paper adhered by means of a binder to a support (c) an imidazole compound of the formula (I) wherein R1 R2 and R3 are individually selected from hydrogen branched or unbranched C1-C4-alkyl phenyl and benzyl provided that at least one of R1 and R2 is hydrogen.

No. of Pages : 28 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016098 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD TO PRODUCE FUNCTIONALIZED ETHYLENE-BASED POLYMERS

---

(51) International classification	:B29B9/06C08F255/02
(31) Priority Document No	:62/406981
(32) Priority Date	:12/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056090
Filing Date	:11/10/2017
(87) International Publication No	:WO 2018/071507
(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)DOW GLOBAL TECHNOLOGIES LLC**

Address of Applicant :2040 Dow Center Midland, MI 48674

U.S.A.

(72)Name of Inventor :

**1)BAWISKAR, Santosh S.**

**2)JOHNSON, Gregory E.**

(57) Abstract :

A process to form afunctionalized ethylene-based polymer" from a first composition comprising an ethylene-based polymer and at least one polar compound and at least one peroxide said process comprising at least the following: a) thermally treating the first composition in at least one extruder comprising at least one barrel to form the functionalized ethylene-based polymer; b) extruding the functionalized ethylene-based polymer in melt form to form an extrudate; c) cooling the extrudate; and d) pelletizing the extrudate; and wherein theefficiency of the peroxide consumption after the thermal treatment is = 91 wt% within the at least one extruder; and wherein thenormalized feed rate" at which the process is run is = 0.0018 (lbs/hr)/(mm)<sup>3</sup>; and wherein for step c) after the extrudate exits the extruder and before the extrudate is pelletized the extrudate is cooled in a cooling medium to a pelletization temperature T<sub>pelin</sub>°C) =the crystallization temperature T<sub>c</sub> (in°C) of the functionalized ethylene-based polymer.

No. of Pages : 33 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015916 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DETERGENT BARS

(51) International classification :C11D3/22C11D3/37C11D17/00  
(31) Priority Document No :201611033456  
(32) Priority Date :30/09/2016  
(33) Name of priority country :India  
(86) International Application No:PCT/US2017/053152  
    Filing Date :25/09/2017  
(87) International Publication No :WO 2018/063953  
(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)**DOW GLOBAL TECHNOLOGIES LLC**

Address of Applicant :2040 Dow Center Midland, MI 48674  
U.S.A.

(72)Name of Inventor :

1)**NAD, Saugata**

2)**RAO, Ravi**

3)**KRASNANSKY, Robert**

---

(57) Abstract :

A detergent bar comprising from 0.01 to 1 wt% polyethylene glycol having a molecular weight of at least 100000 and at least one of:

(a) from 0.01 to 5 wt% polyacrylic acid having a molecular weight from 1000 to 20000; (b) from 0.01 to 1 wt% hydroxypropyl methylcellulose; and (c) from 0.01 to 1 wt% hydroxyethyl cellulose.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015917 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : RECOMBINANT VIRUS REPLICON SYSTEMS AND USES THEREOF

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(51) International classification	:C12N15/86
(31) Priority Document No	:62/409228
(32) Priority Date	:17/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/054928
Filing Date	:03/10/2017
(87) International Publication No	:WO 2018/075235
(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)SYNTHETIC GENOMICS, INC.**

Address of Applicant :11149 North Torrey Pines Road La Jolla, CA 92037 U.S.A.

(72)Name of Inventor :

**1)KAMRUD, Kurt, Iver**

(57) Abstract :

The present disclosure generally relates to viral-based expression systems suitable for the production of molecules of interest. The disclosure relates to nucleic acid constructs such as expression vectors containing a modified replicon RNA which includes a modified 5'-untranslated region (5' -UTR) and optionally at least some of its original viral sequence encoding structural proteins having been deleted. Also disclosed are methods for producing polypeptides of interest.



No. of Pages : 45 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015918 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : LIQUID MIXING SYSTEM WITH VERTICALLY ADJUSTABLE MIXING ELEMENT AND METHOD OF USE

(51) International classification :B01F7/00B01F15/00C12M1/00  
(31) Priority Document No :62/415949  
(32) Priority Date :01/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/059335  
    Filing Date :31/10/2017  
(87) International Publication No :WO 2018/085283  
(61) Patent of Addition to Application Number :NA  
    Application Number :NA  
    Filing Date :NA  
(62) Divisional to Application Number :NA  
    Filing Date :NA

(71)Name of Applicant :

1)LIFE TECHNOLOGIES CORPORATION

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(72)Name of Inventor :

1)HURD, Jeffery C.

2)JONES, Nephi D.

3)LEE, Jacob D.

(57) Abstract :

A liquid mixing system (10) includes a support housing (14) at least partially bounding a compartment (28). A mount (190) is secured to the support housing (14). A drive motor assembly (15) is configured to engage a drive shaft (17) for moving the drive shaft (17) within the compartment (28) of the support housing (14). A four bar linkage system (250) extends between the mount (190) and the drive motor assembly (15) the four bar linkage system (250) being movable between a first position wherein the drive motor assembly (15) is disposed at a first elevation and a second position wherein the drive motor assembly (15) is disposed at a second elevation that is different from the first elevation.



No. of Pages : 34 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015924 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ADJUVANTS FOR AGROCHEMICAL FORMULATIONS

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(51) International classification :A01N25/30A01N31/06A01N43/50  
(31) Priority Document No :1621375.3  
(32) Priority Date :15/12/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2017/082260  
Filing Date :11/12/2017  
(87) International Publication No :WO 2018/108830  
(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)SYNGENTA PARTICIPATIONS AG

Address of Applicant :Schwarzwaldallee 215 4058 Basel Switzerland

(72)Name of Inventor :

1)BELL, Gordon, Alastair

2)CASTAGNINI, Flavio

(57) Abstract :

The present invention relates to an aqueous formulation comprising an agrochemical at a concentration of up to 45% w/w; a non-ionic surfactant with a cloud point of from 35°C to 55°C at a concentration of up to 60% w/w; an ethoxylated or propoxylated sorbitan ester at a concentration from 1% to 40% w/w; an alkyl polyglucoside propylene glycol glycerol or a glycol ether or two or more of these compounds at a concentration from 1% to 40% w/w; and water at a concentration of at least 1% w/w. The formulation provides low and high temperature stability.

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015925 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPOSITION FOR ORGANIC ELECTRONIC ELEMENT ENCAPSULANT AND ENCAPSULANT FORMED USING SAME

(51) International classification :H01L51/00H01L51/52G03F7/028  
(31) Priority Document No :10-2016-0167678  
(32) Priority Date :09/12/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/014226  
Filing Date :06/12/2017  
(87) International Publication No :WO 2018/106011  
(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)MOMENTIVE PERFORMANCE MATERIALS KOREA CO., LTD**

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(72)**Name of Inventor :**

- 1)YU, Sun**
- 2)KIM, Nan Soo**
- 3)JEONG, Minjae**
- 4)LEE, Jang Hee**

(57) Abstract :

A composition for an encapsulant according to an embodiment of the present invention comprises: 1) a first copolymer comprising a first unit represented by chemical formula 1 above a second unit represented by chemical formula 2 above and a third unit represented by chemical formula 3 above; 2) a second copolymer comprising a second unit represented by chemical formula 2 above and a third unit represented by chemical formula 3 above; 3) at least one photo-initiator; and 4) a compound capable of dissolving the photo-initiator therein.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015928 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPOSITION FOR ORGANIC ELECTRONIC ELEMENT ENCAPSULANT AND ENCAPSULANT FORMED USING SAME

(51) International classification :H01L51/00H01L51/52H01L51/44  
(31) Priority Document No :10-2016-0162213  
(32) Priority Date :30/11/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/013701  
Filing Date :28/11/2017  
(87) International Publication No :WO 2018/101706  
(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)YU, Sun  
2)KIM, Nan Soo  
3)JEONG, Minjae**

(57) Abstract :

The present invention relates to a composition for an organic electronic element encapsulant and an encapsulant formed using the same. The composition for an encapsulant according to the present invention comprises: 1) a first copolymer comprising a first unit represented by chemical formula 1 above a second unit represented by chemical formula 2 above and a third unit represented by chemical formula 3 above; 2) a silicone urethane methacrylate-based polymer comprising the second unit represented by chemical formula 2 above as a main unit; and 3) at least one photo-initiator.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016100 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHODS AND DEVICES FOR TRANSMITTING/RECEIVING SCHEDULING COMMANDS

(51) International classification

:H04W72/04

(31) Priority Document No

:PCT/CN2016/107296

(32) Priority Date

:25/11/2016

(33) Name of priority country

:China

(86) International Application No

:PCT/CN2017/112596

Filing Date

:23/11/2017

(87) International Publication No

:WO 2018/095365

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

**1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)**

Address of Applicant :SE-164 83 Stockholm Sweden

(72)Name of Inventor :

**1)ZHU, Huaisong**

**2)LU, Qianxi**

**3)ZHANG, Zhan**

**4)WANG, Jianfeng**

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(57) Abstract :

The present disclosure provides a method (200) in an access device for transmitting scheduling commands. The method (200) includes: transmitting (210) a scheduling command for scheduling a downlink data transmission in a first subframe where the downlink data transmission occurs; and transmitting (220) a replica of the scheduling command in each of one or more further subframes different from the first subframe.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016103 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : MANUFACTURING METHOD FOR ABSORBENT ARTICLE

(51) International classification :A61F13/15A61F13/494B65H39/16  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/JP2016/088550  
Filing Date :22/12/2016  
(87) International Publication No :WO 2017/065320  
(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)UNICHARM CORPORATION

Address of Applicant :182, Shimobun, Kinsei-cho,  
Shikokuchuo-shi, Ehime 7990111 Japan

(72)Name of Inventor :

1)SUZUKI, Yuichi

(57) Abstract :

The present invention prevents bonding problems between the edges of a top sheet and the edges of a pair of side sheets in the manufacture of an absorbent article having a flap member on both sides of the top sheet. This manufacturing method involves: a step for using the mutually facing inner edges (LTS3 LTS3) of continuous side sheets (SSa SSb) as a basis to position the continuous side sheets; a step for using the center (LTS1) of a continuous top sheet (P11) as a basis to position the continuous top sheet; a step for when bonding the continuous side sheets to the continuous top sheet forming first adhesion portions (303X 303X) in side sheet regions (AS AS) on the continuous side sheets or in top sheet regions (AT AT) on the continuous top sheet such that the side sheet regions and the top sheet regions are bonded via the first adhesion portions; and a step for bonding the top sheet regions and the side sheet regions with the first adhesion portions and forming extending sections (225 225) that extend further toward both outer sides on the continuous top sheet than the first adhesion portions.



No. of Pages : 32 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016106 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMAGE DISPLAY APPARATUS MOBILE DEVICE AND METHODS OF OPERATING THE SAME

(51) International classification :H04M1/725H04N5/232H04N5/262  
(31) Priority Document No :10-2016-0142155  
(32) Priority Date :28/10/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/011843  
Filing Date :25/10/2017  
(87) International Publication No :WO 2018/080165  
(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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Suwon-si, Gyeonggi-do 16677 Republic of Korea

(72)Name of Inventor :

1)KIM, Young-il  
2)YANG, Kwan-sik  
3)JANG, Jeong-rok  
4)CHOI, Kil-soo

(57) Abstract :

A mobile device is provided. The mobile device may include a communication interface; a display; a memory configured to store one or more instructions; and at least one processor configured to execute the one or more instructions stored in the memory to: control the communication interface to communicate with an image display apparatus; control a viewpoint of a 360-degree image based on an input; and control the communication interface to transmit to the image display apparatus at least one among an image corresponding to the viewpoint of the 360-degree image and viewpoint control information corresponding to the viewpoint of the 360-degree image.



No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016110 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR TREATING BIOMASS AND DEVICE FOR TREATING BIOMASS

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(51) International classification :D21C1/02D21B1/22D21B1/34  
(31) Priority Document No :16202908.6  
(32) Priority Date :08/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/081916  
    Filing Date :07/12/2017  
(87) International Publication No :WO 2018/104484  
(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)VALMET AB

Address of Applicant :851 94 Sundsvall Sweden

(72)Name of Inventor :

1)LAMBERT, Francois

(57) Abstract :

The invention relates to a method for treating biomass (1). In a step (S10) of the method the biomass (1) and an amount of water (2) is fed into a first reactor unit (10) such that the biomass (1) is impregnated using the amount of water (2) while the biomass (1) is transferred through the first reactor unit (10) by a conveyor means (11). In another step (S20) the impregnated biomass (22) is transferred from the first reactor unit (10) to a separation unit (20) in which at least a part (21) of the amount of water (2) used for impregnation can be separated from the impregnated biomass (22). In another step (S30) the impregnated biomass (22) is transferred from the separation unit (20) into a second reactor unit (30) in which the impregnated biomass (22) is subjected to a predetermined pressure (S30). The invention further relates to the use of the method for treating non-wood material as well as to a device for treating biomass (1).



No. of Pages : 19 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015929 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

(51) International classification :H01M10/052H01M2/02H01M2/12  
(31) Priority Document No :2016-225080  
(32) Priority Date :18/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/041536  
Filing Date :17/11/2017  
(87) International Publication No :WO 2018/092895  
(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)TOSHIBA INFRASTRUCTURE SYSTEMS &  
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(72)Name of Inventor :

1)NAMBA, Kazuhiro

2)YAMAMOTO, Dai

3)YAJIMA, Akira

(57) Abstract :

One embodiment of the present invention provides a nonaqueous electrolyte secondary battery. This nonaqueous electrolyte secondary battery is provided with an outer casing member a negative electrode a positive electrode and a nonaqueous electrolyte. The outer casing member is provided with a gas releasing structure. The negative electrode is provided with a negative electrode mixture layer. The outer casing member contains the negative electrode the positive electrode and the nonaqueous electrolyte. The negative electrode mixture layer contains a titanium-containing oxide and Mn. The abundance ratios RTi RMn RA and RB as determined from the X-ray photoelectron spectrum that is obtained by X-ray photoelectron spectroscopy of the negative electrode mixture layer satisfy the following relational expressions.  $0.01 = RMn/RTi = 0.2$  (1)  $3 = RA/RMn = 50$  (2)  $0.5 = RA/RB = 5$  (3)



No. of Pages : 78 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015930 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR CONTROLLING A WIND TURBINE AND ASSOCIATED WIND TURBINE

(51) International classification :F03D7/04F03D7/02F03D17/00  
(31) Priority Document No :10 2016 121 961.4  
(32) Priority Date :15/11/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/079300  
    Filing Date :15/11/2017  
(87) International Publication No :WO 2018/091519  
(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)WOBBEN PROPERTIES GMBH**

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(72)Name of Inventor :

**1)DE BOER, Wolfgang**

(57) Abstract :

The present invention relates to a method for controlling a wind turbine (100) to an associated wind turbine (100) and to a wind farm having a plurality of wind turbines (100). The method comprises: providing a wind speed (350) and an inflow direction (320) which are determined by a wind measurement apparatus of the wind turbine (100); providing a correction value (330) of the inflow direction (320) on the basis of the wind speed (350); carrying out a method for learning the correction value (330) of the inflow direction (320) on the basis of the wind speed. The learning method comprises a plurality of optimization steps (200) wherein execution of the optimization steps depends on the optimization steps which have already been carried out for the wind speed provided. The invention enables improved wind tracking.



No. of Pages : 13 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015931 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : DISCONTINUOUS RECEPTION IN A WIRELESS DEVICE AND WIRELESS NETWORK

(51) International classification	:H04W72/12H04W52/02
(31) Priority Document No	:62/399381
(32) Priority Date	:24/09/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/053293
Filing Date	:25/09/2017
(87) International Publication No	:WO 2018/058056
(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)Ofinno, LLC

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(72)Name of Inventor :

1)DINAN, Esmael

2)BABAEI, Alireza

(57) Abstract :

A wireless device receives a first downlink control information (DCI). The first DCI comprises: a first trigger field indicating that the first DCI is triggered in response to a second DCI indicating a second trigger; and a field indicating a validation duration for receiving the second DCI via a cell. A discontinuous reception (DRX) process determines that a medium access control (MAC) entity is not in an Active Time. The MAC entity during at least a portion of the validation duration monitors a control channel for the second trigger on the cell even if the MAC entity is not in the Active Time.



No. of Pages : 56 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015932 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR CONTROLLING A WIND TURBINE

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(51) International classification	:H02J3/38
(31) Priority Document No	:10 2016 122 581.9
(32) Priority Date	:23/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/080182
Filing Date	:23/11/2017
(87) International Publication No	:WO 2018/096028
(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)WOBBEN PROPERTIES GMBH**

Address of Applicant :Borsigstrae 26 26607 Aurich Germany

(72)Name of Inventor :

**1)KRUSE, Marcel**

(57) Abstract :

The invention relates to a method for controlling a generator of electrical energy connected to a grid connection point of an electrical supply grid comprising the following steps: regularly feeding electrical reactive power and electrical active power into the electrical supply grid wherein the generator is operated at a first operating point at which the electrical generator generates electrical reactive power and electrical active power first interrupting or modifying the feed of electrical reactive power and/or electrical active power into the electrical supply grid when a fault in the electrical supply grid or a fault with the feed into the electrical supply grid is present or indicated restoring the regular feed of electrical reactive power and/or electrical active power into the electrical supply grid wherein the generator performs the restoration at a second operating point or is run up to this second operating point at which the electrical generator generates and feeds electrical reactive power and/or electrical active power and suppressing the restoration of the feed of electrical reactive power and/or electrical active power into the electrical supply grid in such a manner that the electrical generator ceases feeding the electrical reactive power and/or the electrical active power for a shut-down period if an interruption has again occurred within a predetermined meter time interval or suppressing the feed of electrical reactive power and/or electrical active power into the electrical supply grid in such a manner that the electrical generator ceases feeding the electrical reactive power and/or electrical active power for a shut-down period if any change to the feed has recurred within a predetermined meter time interval.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016111 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR TREATING BIOMASS

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(51) International classification	:D21C1/00D21C3/00D21C7/00
(31) Priority Document No	:16202942.5
(32) Priority Date	:08/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/081930
Filing Date	:07/12/2017
(87) International Publication No	:WO 2018/104490
(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)VALMET AB**

Address of Applicant :851 94 Sundsvall Sweden

(72)Name of Inventor :

**1)LAMBERT, Francois**

(57) Abstract :

The invention relates to a method for treating biomass (2). In a step (S10) biomass (2) and an impregnation liquid are fed into a first reactor unit (10) such that the biomass (2) is impregnated with the impregnation liquid while the biomass (2) is transferred through the first reactor unit (10) by a conveyor means (11). In another step (S20) the impregnated biomass (2a) is transferred from the first reactor unit (10) to a separation unit (25) wherein at least a part of the impregnation liquid is separated from the impregnated biomass (2a) within the separation unit. In a step (S30) the separated impregnation liquid is discharged from the separation unit (25) such that a first part (26a) of the impregnation liquid is recirculated back to the first reactor unit (10). The invention further relates to a system for treating biomass (2).



No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016112 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR IMPREGNATING BIOMASS AND DEVICE FOR IMPREGNATING BIOMASS

(51) International classification	:D21C1/00D21C3/00D21C7/00
(31) Priority Document No	:16202930.0
(32) Priority Date	:08/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/081929
Filing Date	:07/12/2017
(87) International Publication No	:WO 2018/104489
(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)VALMET AB

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(72)Name of Inventor :

1)AVERHEIM, Andreas

2)GRUNDSTR-M, Per

3)L-FSTR-M, Anders

(57) Abstract :

The invention relates to a method for impregnating biomass (10). In a step (S100) of the method a reactor unit (11) is fed with biomass (10) by means of a plug screw (12). In another step (S200) the reactor unit (11) is at least partially filled up to a predetermined fill level (13) with a reactant (18) such that a reaction between the fed biomass (10) and the reactant (18) takes place in order to obtain an impregnated biomass. In another step (S300) the impregnated biomass (10) is discharged from the reactor unit (11) for further processing (S300). The invention further relates to a device (1) for impregnating biomass (10).



No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016115 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OPTICAL FLUID SENSORS FOR CROSS CONTAMINATION CONTROL SYSTEMS

(51) International classification :B67D7/34G01N33/28G01N21/85  
(31) Priority Document No :15/291178  
(32) Priority Date :12/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056137  
Filing Date :11/10/2017  
(87) International Publication No :WO 2018/071539  
(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)KNAPPCO LLC

Address of Applicant :4304 MATTOX ROAD KANSAS CITY, MISSOURI 64150 U.S.A.

(72)Name of Inventor :

1)BJORNEBO, Erik Paul

2)BLAIR, Jeffrey Joseph

3)DUDLEY, Mark William

4)HENDERSON, Richard Lee

(57) Abstract :

An optical fluid sensor (OFS) is disclosed that includes a body defining a chamber and having one or more apertures to allow a fluid to enter the chamber a light source optically coupled to the chamber and configured to emit light into the chamber and a detector optically coupled to the chamber and configured to receive light from the chamber. The light source may emit IR visible and UV light into the chamber and the detector may measure an intensity of one or more wavelengths of IR or visible light received by the detector. When fluid is disposed within the chamber the light emitted by the light source may pass into and through the fluid disposed in the chamber before being received by the detector. A crossover protection system is also disclosed that includes an OFS for determining a transported liquid type.



No. of Pages : 64 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016117 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYPROPYLENE COMPOSITION

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(51) International classification :C08K5/32C08K5/3435C08K5/3492  
(31) Priority Document No :16197913.3  
(32) Priority Date :09/11/2016  
(33) Name of priority country:EPO  
(86) International Application No :PCT/EP2017/078448  
Filing Date :07/11/2017  
(87) International Publication No :WO 2018/087077  
  
(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)BOREALIS AG

Address of Applicant :IZD Tower Wagramer Str. 17-19 1220 Vienna Austria

(72)Name of Inventor :

1)BERNREITNER, Klaus

2)SANDHOLZER, Martina

3)HELLSTR-M, Stefan

4)BROEDERS, Bert

(57) Abstract :

The present invention relates to a polymer composition to a use of the polymer composition for producing an article to an article comprising the polymer composition preferably to an article which comprises a layer element comprising at least one layer which comprises the polymer composition.

No. of Pages : 33 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016120 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INSTANT UPLINK ACCESS WITHOUT ALWAYS ON FEEDBACK

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(51) International classification	:H04L1/18H04L1/16	(71) <b>Name of Applicant :</b> <b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b> Address of Applicant :SE-164 83 SE-164 83 Stockholm Sweden
(31) Priority Document No	:62/412901	
(32) Priority Date	:26/10/2016	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/IB2017/056630	(72) <b>Name of Inventor :</b>
Filing Date	:25/10/2017	<b>1)DUDDA, Torsten</b>
(87) International Publication No	:WO 2018/078547	<b>2)ARSHAD, Malik Wahaj</b>
(61) Patent of Addition to Application Number	:NA	<b>3)KARAKI, Reem</b>
Filing Date	:NA	<b>4)WIKSTR-M, Gustav</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

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(57) Abstract :

According to certain embodiments a method is disclosed for use in a wireless device. The method comprises transmitting uplink data to a network node. The uplink data is transmitted according to a semi-persistent scheduling (SPS) configuration obtained from the network node. The uplink data is transmitted without transmitting padding when no data is available for transmission. The method further comprises retransmitting the uplink data to the network node until receiving an indication to transmit new uplink data. The indication is received from the network node via a control channel.



No. of Pages : 33 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015933 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : REDUCING ORDERED GROWTH IN SOFT-MAGNETIC FE-CO ALLOYS

---

(51) International classification	:C21D6/00C21D8/04C21D8/12
(31) Priority Document No	:62/410926
(32) Priority Date	:21/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/057576
Filing Date	:20/10/2017
(87) International Publication No	:WO 2018/075882
(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)CRS HOLDINGS, INC.

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Wilmington, DE 19801 U.S.A.

(72)Name of Inventor :

1)FITTERLING, Eric, M.

(57) Abstract :

A process for making an article of manufacture from elongated strip of a soft-magnetic Fe-Co alloy is disclosed. The process includes a prefabrication annealing step in which the elongated strip is annealed before it is fabricated into parts. The prefabrication annealing step is carried out at a temperature that is greater than the ordering temperature of the alloy. The process further includes the step of cooling the alloy from the annealing temperature at a rate that is selected to cause substantial transformation of the disordered phase of the soft- magnetic Fe-Co alloy to an ordered phase thereof. An article of manufacture made by using the process is also disclosed.



No. of Pages : 12 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015934 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONTROL DEVICE TERMINAL DEVICE AND DEVICE CONTROL SYSTEM

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(51) International classification :H04W84/18H04L12/28H04Q9/00  
(31) Priority Document No :2016-218063  
(32) Priority Date :08/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/033081  
Filing Date :13/09/2017  
(87) International Publication No :WO 2018/088021  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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SOLUTIONS CORPORATION

(72)Name of Inventor :

1)TASHIRO Taichi

2)INAMURA Hiroyuki

3)IIDA Yasutaka

4)ASAZUMA Tomohiro

(57) Abstract :

A control device according to one embodiment of the present invention has a first wireless communication unit a second wireless communication unit a relay unit and a proxy response unit. The first wireless communication unit wirelessly communicates with a terminal device. The second wireless communication unit wirelessly communicates with another control device via a mesh network. The relay unit relays to the other control device a control message transmitted from the terminal device with a control device other than the control device itself as a destination. When the control message is received directly from the terminal device not via the other control device the proxy response unit transmits to the terminal device a first reception response with respect to the control message in accordance with the reception of the control message and transmits a second reception response indicating that the control message is received by the control device that is the destination to the terminal device in accordance with a request from the terminal device.



No. of Pages : 36 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015936 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : INFORMATION TRANSMISSION METHOD TERMINAL APPARATUS AND NETWORK APPARATUS

(51) International classification	:H04W72/04	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	1)GUANGDONG OPPO MOBILE
(32) Priority Date	:NA	TELECOMMUNICATIONS CORP., LTD.
(33) Name of priority country	:NA	Address of Applicant :No.18, Haibin Road, Wusha, Chang'an
(86) International Application No	:PCT/CN2016/108017	Dongguan, Guangdong 523860 China
Filing Date	:30/11/2016	(72) <b>Name of Inventor :</b>
(87) International Publication No	:WO 2018/098683	1)LIN, Yanan
(61) Patent of Addition to Application Number	:NA	2)XU, Hua
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed in embodiments of the present invention are an information transmission method network apparatus and terminal apparatus. The method comprises: a network apparatus sending within a time-domain scheduling unit and by means of a control resource area to a terminal apparatus downlink control information wherein the control resource area comprises multiple types of control resource areas different types of control resource areas are used to send different types of downlink control information and a first type of control resource areas among the multiple types of control resource areas comprise a portion of frequency domain resources pre-configured or semi-statically configured on all orthogonal frequency division multiplexing (OFDM) symbols in the time-domain scheduling unit. The method network apparatus and terminal apparatus in the embodiments of the present invention enable transmission of multiple types of downlink control information and the design of the first type of control resource areas can meet requirements of transmitting a downlink control channel of a low-latency service.



No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015937 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : USER EQUIPMENTS BASE STATIONS AND METHODS

(51) International classification	:H04W52/14H04W16/14H04W52/38
(31) Priority Document No	:62/416064
(32) Priority Date	:01/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/059068
Filing Date	:30/10/2017
(87) International Publication No	:WO 2018/085204
(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)FG INNOVATION COMPANY LIMITED

(72)Name of Inventor :

1)NOGAMI, Toshizo

2)YIN, Zhanping

(57) Abstract :

A user equipment (UE) is described. The UE may include a physical downlink control channel (PDCCH) receiver that is configured to detect multiple PDCCHs in a subframe i-K the multiple PDCCHs including a first PDCCH. The UE may also include a physical uplink shared channel (PUSCH) transmitter that is configured to transmit multiple PUSCHs the multiple PUSCHs being transmitted in a license-assisted access (LAA) cell the multiple PUSCHs including a PUSCH which is scheduled by the first PDCCH the PUSCH being transmitted in a subframe i. A transmit power of the PUSCH may be derived using a value indicated by a transmit power control (TPC) command field which is included in the first PDCCH.



No. of Pages : 159 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016263 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A TWO-PART DEVICE FOR T-CELL RECEPTOR SYNTHESIS AND STABLE GENOMIC INTEGRATION TO TCR-PRESENTING CELLS

(51) International classification	:C12N15/10	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:PA 2016 70875	<b>1)GENOVIE AB</b> Address of Applicant :–stra Vittusgatan 36 371 33 Karlskrona Sweden
(32) Priority Date	:07/11/2016	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:Denmark	<b>1)JARVIS, Reagan Micheal</b> <b>2)HILL, Ryan Edward</b> <b>3)PASE, Luke Benjamin</b>
(86) International Application No Filing Date	:PCT/EP2017/078378 :07/11/2017	
(87) International Publication No	:WO 2018/083318	
(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 two-part device wherein a first part is a multicomponent TCR ORF reconstitution and engineering system (TORES) and a second part is a multicomponent engineered TCR-presenting cell system (eTPCS).



No. of Pages : 143 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917016270 A

(19) INDIA

(22) Date of filing of Application :24/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : INTEGRATED PRODUCTION SYSTEM AND METHOD FOR GREEN RECOVERING AND REGENERATING WASTE RUBBER

(51) International classification	:B29B17/04B02C7/08	(71) <b>Name of Applicant :</b> <b>1)ANHUI GVG NEW MATERIAL CO., LTD</b> Address of Applicant :No. 8, Huo Lishan Road Yushan Economic Development Zone Ma'anshan, Anhui 243000 China
(31) Priority Document No	:201611068732.X	
(32) Priority Date	:29/11/2016	
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2017/096702	(72) <b>Name of Inventor :</b>
Filing Date	:10/08/2017	<b>1)GE, Jiugan</b>
(87) International Publication No	:WO 2018/099130	<b>2)LI, Guang</b>
(61) Patent of Addition to Application Number	:NA	<b>3)TANG, Fan</b>
Filing Date	:NA	<b>4)RUI, Guisheng</b>
(62) Divisional to Application Number	:NA	<b>5)WANG, Ping</b>
Filing Date	:NA	<b>6)JIANG, Shuijin</b>
		<b>7)FEI, Dazhuang</b>

(57) Abstract :

The invention relates to an integrated production system and method for green recovering and regenerating waste rubber. The system comprises a feeding and plasticizing device a pan-mill type waste rubber recovery reactor a cyclone separator a cooling mixing filtering device a granulation packaging device and the method may achieve a continuous clean whole production process from the waste rubber particles feeding to the packaging and warehousing of the generated rubber finished product by a first stage of conveying plasticizing a second stage of desulfurizing by a pan-mill type waste rubber recovery reactor a third stage of cooling mixing filtering and a four stage of granulation packaging without using any chemical additives. The equipment is of a simple structure and is arranged from top to bottom thereby occupying a small floor space and achieves a unified management by a PLC control system. The entire production system is fully enclosed and energy-saving and environmental-friendly. No any chemical additive is added in the production process the obtained products are green and environmental-friendly and thus the industrialization prospect is broad.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016272 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYPROPYLENE COMPOSITION HAVING LOW FOGGING

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(51) International classification :C08K3/00C08K5/00C08L23/12  
(31) Priority Document No :PCT/CN2016/000573  
(32) Priority Date :17/10/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/106290  
    Filing Date :16/10/2017  
(87) International Publication No :WO 2018/072666  
(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 :No. 338, Gangwen Road, Fengxian District Shanghai 201413 China

(72)Name of Inventor :

**1)ZHOU, Xin  
2)ZHU, Jianglei  
3)CHEN, Shih Ping**

---

(57) Abstract :

The present invention relates to a polypropylene composition (PC) comprising - one or more polypropylenes (P) - 0.05 to 5.0 wt. % based on the total weight of the polypropylene composition (PC) of one or more additives (A) whereby - each of the additives (A) has a melting temperature determined by DSC of 100 or more; and - the polypropylene composition (PC) is free from additives having a melting temperature determined by DSC below 100 a method for the production thereof an article made from said composition and the use of additives having a melting temperature determined by DSC of 100 or more for reducing the haze of a polypropylene composition (PC) comprising one or more polypropylenes (P).

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016274 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ACCESS CONTROL POLICY SYNCHRONIZATION FOR SERVICE LAYER

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(51) International classification	:H04L29/06
(31) Priority Document No	:62/401623
(32) Priority Date	:29/09/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/054255
Filing Date	:29/09/2017
(87) International Publication No	:WO 2018/064455
(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)WANG, Chonggang**

**2)LI, Hongkun**

**3)LI, Xu**

**4)SEED, Dale, N.**

**5)LY, Quang**

**6)MLADIN, Catalina, Mihaela**

---

(57) Abstract :

Methods systems and apparatus in a service layer environment may create update or delete access control policy triples whenever an access control policy (ACP) resource is created updated or deleted. In addition methods address potentially frequent and unnecessary ACP triple management.



No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016275 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DISPLAY DEVICE DISPLAY MODULE ELECTRONIC DEVICE AND METHOD FOR MANUFACTURING THE DISPLAY DEVICE

(51) International classification :G02F1/1368G02F1/1333G02F1/1343  
(31) Priority Document No :2016-219157  
(32) Priority Date :09/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/IB2017/056803  
Filing Date :02/11/2017  
(87) International Publication No :WO 2018/087631  
(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 :**  
**1)YAMAZAKI, Shunpei**

(57) Abstract :

A liquid crystal display device having a high aperture ratio is provided. A liquid crystal display device with low power consumption is provided. A display device includes a liquid crystal element a transistor a scan line and a signal line. The liquid crystal element includes a pixel electrode a liquid crystal layer and a common electrode. Each of the scan line and the signal line is electrically connected to the transistor. Each of the scan line and the signal line includes a metal layer. The transistor is electrically connected to the pixel electrode. The transistor includes a first region connected to the pixel electrode. The pixel electrode the common electrode and the first region have a function of transmitting visible light. The visible light passes through the first region and the liquid crystal element and is emitted to the outside of the display device.



No. of Pages : 118 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :21/04/2017

(21) Application No.201717014275 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PESTICIDE FORMULATIONS HAVING PHYSICAL MODE OF ACTION

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(51) International classification	:A01N25/30
(31) Priority Document No	:PCT/US2015/055578
(32) Priority Date	:14/10/2015
(33) Name of priority country	:U.S.A.
(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)SWIETOSLAWSKI, Janusz**

**2)WIECZOREK, Wojciech**

**3)LISZKA, Dawid**

---

(57) Abstract :

The invention relates to pesticidal compositions comprising trisiloxane surfactants and a matrix-forming agent, which compositions are capable of controlling pests and pathogens using a physical mode of action. Accordingly, in one aspect, the present disclosure provides a pesticidal composition for controlling pests and pathogens with a physical mode of action. The composition comprises trisiloxane surfactants and matrix-forming agents. The composition may form a gel matrix or a film matrix. The trisiloxane surfactants may be selected from the group consisting of Silwet L-77, Silwet 408, Break-Thru S-240, and Silibase 2848. The matrix-forming agents of a pesticidal composition are selected from the group consisting of chitosan salts and sol-gel precursors.

No. of Pages : 41 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2019

(21) Application No.201917015788 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONNECTING DEVICE LOAD-BEARING ARRANGEMENT AND METHOD FOR CONNECTING AN OVERHEAD CONDUCTOR RAIL TO AT LEAST ONE LOAD-BEARING CABLE

(51) International classification :H02G7/12B60M1/23B60M1/30  
(31) Priority Document No :10 2016 220 953.1  
(32) Priority Date :25/10/2016  
(33) Name of priority country :Germany  
(86) International Application No:PCT/EP2017/074175  
    Filing Date :25/09/2017  
(87) International Publication No :WO 2018/077551  
(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)JUNG, Frederik

2)MIELSCH, Florian

(57) Abstract :

The invention relates to a connecting device (5) for connecting an overhead conductor rail (2) to at least one load-bearing cable (4) comprising at least one overhead conductor rail apparatus (8) which is designed to be connected to the overhead conductor rail (2) and comprising at least one load-bearing cable apparatus (9) which is designed to be connected to the at least one load-bearing cable (4). In order to allow a structurally simple load-bearing arrangement for overhead conductor rails it is provided according to the invention that the load-bearing cable apparatus (9) is designed for movement of the load-bearing cable (4) relative to the load-bearing cable apparatus (9) in a longitudinal direction (34) of the load-bearing cable. The invention further relates to a load-bearing arrangement (1) for an overhead conductor rail (2) and to a method for connection of an overhead conductor rail (2).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :20/04/2019

(21) Application No.201917015789 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND CONTROLLER FOR CONTROLLING A SWITCH VALVE

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(51) International classification :F02D41/20F02M63/00F02D41/38  
(31) Priority Document No :10 2016 219 890.4  
(32) Priority Date :12/10/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/061640  
Filing Date :15/05/2017  
(87) International Publication No :WO 2018/068905  
(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)CHIA, Tet Kong Brian

2)KRAFT, Thomas

3)BODENSTEINER, Andreas

4)SASSLER, Walter

(57) Abstract :

The invention relates to a method for controlling a switch valve (16). A constant voltage (UC1) is applied to an actuator (22) until a closure element (36) actuated by the actuator (22) is moved and the application of the constant voltage (UC1) is then immediately terminated and a pulsed voltage (UPuls1) is applied to the actuator (22). The invention additionally relates to a controller (40) which is suitable for carrying out the method.



No. of Pages : 16 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015824 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUSTENITIC HEAT-RESISTANT ALLOY AND WELDING JOINT USING SAME

(51) International classification:C22C38/00B23K35/30C22C19/05  
(31) Priority Document No :2016-195683  
(32) Priority Date :03/10/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/036022  
Filing Date :03/10/2017  
(87) International Publication No :WO 2018/066573  
(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)KURIHARA, Shinnosuke  
2)SEMBA, Hiroyuki  
3)OKADA, Hirokazu  
4)HIGUCHI, Junichi  
5)TANAKA, Katsuki  
6)OSUKI, Takahiro**

(57) Abstract :

An austenitic heat-resistant alloy having a chemical composition containing in mass% 0.04-0.18% of C 1.5% or less of Si 2.0% or less of Mn 0.020% or less of P 0.030% or less of S 0.10% or less of Cu 20.0-30.0% of Ni 21.0-24.0% of Cr 1.0-2.0% of Mo 0.10-0.40% of Nb 0.20% or less of Ti 0.05% or less of Al 0.10-0.35% of N and 0.0015-0.005% of B the remaining portion being Fe and impurities wherein [P+6B=0.040] is satisfied.

No. of Pages : 23 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015839 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OPTOMETRY DEVICE

(51) International classification	:A61B3/032
(31) Priority Document No	:16306224.3
(32) Priority Date	:22/09/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/073817
Filing Date	:20/09/2017
(87) International Publication No	:WO 2018/054997
(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)NAUCHE, Michel

2)BOUTINON, Stophane

(57) Abstract :

An optometry device for testing an individual's eye (E) comprises an imaging module (10) adapted to produce a first image at a variable distance for the individual's eye (E) a beam splitter (26) arranged to combine the first image and a second image for the individual's eye (E) and a screen (22) facing the beam splitter (26). A mirror (24) is arranged in combination with the screen (22) to produce the second image to be visible by the individual's eye via the beam splitter (26).



No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION (21) Application No.201917015938 A

(19) INDIA

(22) Date of filing of Application :22/04/2019 (43) Publication Date : 02/08/2019

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(54) Title of the invention : ANTI-CANCER AGENTS AND PREPARATION THEREOF

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(51)  
International :A61K39/395A61K31/517A61K31/  
1 337  
classification  
n  
(31)  
Priority :62/398783  
Document No  
(32)  
Priority :23/09/2016  
Date  
(33) Name  
of priority :U.S.A.  
country  
(86)  
International  
1 Application :PCT/US2017/052967  
No :22/09/2017  
Filing Date  
(87)  
International  
1 :WO 2018/057897  
Publication No  
(61) Patent of Addition  
to :NA  
Application :NA  
Number  
Filing Date  
(62)  
Divisional  
to :NA  
Application :NA  
Number  
Filing Date

---

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No. of Pages : 60 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015943 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BIOLOGICALLY MEDIATED PRECIPITATION OF CARBONATES FOR USE IN OILFIELD APPLICATIONS

(51) International classification :C09K8/467C09K8/80C09K8/514  
(31) Priority Document No :62/401987  
(32) Priority Date :30/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/053991  
Filing Date :28/09/2017  
(87) International Publication No :WO 2018/064320  
(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)VORDERBRUGGEN, Mark A.

2)ARMSTRONG, Charles D.

3)WILSON, Michael Brendt

4)BRANNON, Harold Dean

(57) Abstract :

A method of enhancing carbonate precipitation in a downhole environment comprises introducing into the downhole environment a treatment composition comprising: a carbonate producing agent comprising a microbe an enzyme or a combination comprising at least one of the foregoing and a substrate comprising N-oxyurea semicarbazide -dioxyurea or a combination comprising at least one of the foregoing. An organic feedstock and a geobacter can also be used to treating a wellbore or a subterranean formation. Encapsulated carbonate producing agent such as encapsulated bacterial spores are used to form self-healing cemented structure in a downhole environment.

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015951 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CORRUGATED FUEL ELECTRODE

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(51) International classification :H01M8/1006C25B11/03  
(31) Priority Document No :62/410852  
(32) Priority Date :21/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/057552  
    Filing Date :20/10/2017  
(87) International Publication No :WO 2018/075870  
(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 :

1)HAYES, Joel, Ryan

2)KRISHNAN, Ramkumar

3)TRIMBLE, Todd

4)ANDERSON, Clifford

(57) Abstract :

A fuel electrode incorporates a first and second corrugated portion that are attached to each other at offset angles respect to their corrugation axis and therefore reinforce each other. A first corrugated portion may extend orthogonally with respect to a second corrugated portion. The first and second corrugated portions may be formed from metal wire and may therefore have a very high volumetric void fraction and a high surface area to volume ratio (sa/vol). In addition the strands of the wire may be selected to enable high conductivity to the current collectors while maximizing the sa/vol. In addition the shape of the corrugation including the period distance amplitude and geometry may be selected with respect to the stiffness requirements and electrochemical cell application factors. The first and second corrugated portions may be calendared or crushed to reduce thickness of the fuel electrode.



No. of Pages : 26 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015954 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HEAT SINK CONNECTOR PIN AND ASSEMBLY

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(51) International classification	:H01L23/40H01L23/367
(31) Priority Document No	:15/362064
(32) Priority Date	:28/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/063367
Filing Date	:28/11/2017
(87) International Publication No	:WO 2018/098456
(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 :**

**1)LAMBERT, Donald, L.**

(57) Abstract :

A heat sink connector pin includes a pin assembly with linkage that provides the movement of a pin head or cap in a downward movement to cause multiple movable fingers at an opposing end of the pin to mechanically move from a retracted position that allows insertion of the heat sink connector pin through an opening in the substrate such as a through-hole to move to an outward extended position so that the multiple fingers engage or grasp a bottom surface of the substrate. In one example the movable fingers are rotatably connected to share a same rotational axis with each other. In one example the pin assembly includes a sleeve adapted to receive the shaft structure and is adapted to engage with the pin head. The sleeve includes a substrate stop surface adapted to contact a top surface of the substrate during insertion of the pin through the substrate.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015970 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : RAILROAD SECTION CENTRALIZED ELECTRONIC INTERLOCKING DEVICE

(51) International classification	:B61L27/00B61L19/06
(31) Priority Document No	:2016-213112
(32) Priority Date	:31/10/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/039129
Filing Date	:30/10/2017
(87) International Publication No	:WO 2018/079777
(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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**3)TAKANO, Motomu**

**4)SHIMADA, Masanobu**

(57) Abstract :

According to the present invention field devices (40) are disposed in each of jurisdiction ranges (ST1-STn) in each station in a railroad section and one or more jurisdiction ranges (M11-M22) between the stations. The field devices disposed in the jurisdiction ranges between the stations are for example a block signal device and a track circuit related thereto. Electronic terminals (30) are disposed to correspond to the jurisdiction ranges of each of the stations and the jurisdiction ranges between the stations and the field devices (40) present in the jurisdiction ranges of each electronic terminal are connected to the corresponding electronic terminals. An electronic interlocking logic unit (10) and a plurality of electronic terminals (30) are connected in a fail-safe transmission network (20) for transmitting various types of data. The electronic interlocking logic unit (10) intensively manages an interlocking function of all railroad sections by the same interlocking logic as that within one station section and remotely controls the field devices in all railroad sections through the transmission network and the electronic terminals. Therefore a route of a railroad vehicle can be safely secured with respect to all railroad sections including sections between stations and efficient train operation can be achieved.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016276 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SEMANTIC QUERY OVER DISTRIBUTED SEMANTIC DESCRIPTORS

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(51) International classification	:G06F17/30
(31) Priority Document No	:62/401640
(32) Priority Date	:29/09/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/054230
Filing Date	:29/09/2017
(87) International Publication No	:WO 2018/064442
(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 :

**1)LI, Xu**

**2)WANG, Chonggang**

**3)LY, Quang**

**4)SEED, Dale**

(57) Abstract :

Currently there is no existing solution for semantic query processing directly over distributed semantic descriptors (e.g. oneM2M <semanticDescriptor> resources). Discussed herein are multiple applications for semantic query over distributed semantic descriptors. In a first exemplary method semantic query is considered when information is stored in a single semantic descriptor. In a second exemplary method semantic query is considered when information that is requested or otherwise needed is not stored in semantic descriptors. In a third exemplary method semantic query is considered when information is distributed in different but related semantic descriptors. In a fourth exemplary method semantic query is considered when information is distributed in different and unrelated or peer semantic descriptors. In a fifth method there may be indirect querying of information from targeted resources by leveraging existing semantic resource discovery mechanisms.



No. of Pages : 68 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016277 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHODS SYSTEM AND MEDIA FOR PAIRING DEVICES TO COMPLETE A TASK USING AN APPLICATION REQUEST

(51) International classification :G06F9/54G06F15/16H04W8/00  
(31) Priority Document No :15/291023  
(32) Priority Date :11/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/055972  
Filing Date :10/10/2017  
(87) International Publication No:WO 2018/071438  
(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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U.S.A.

(72)**Name of Inventor :**

**1)PHAM, Thien, Van**

(57) Abstract :

Methods systems and media for pairing devices for completing tasks are provided. In some embodiments the method comprises: identifying at a first user device an indication of a task to be completed; transmitting by the first user device to a server information indicating the task to be completed and identifying information corresponding to the first user device; determining whether a predetermined duration of time has elapsed; in response to determining that the predetermined duration of time has elapsed transmitting from the first user device to the server a request to determine whether the task has been completed by a second user device; and in response to receiving from the server an indication that the task has been completed by the second user device retrieving data corresponding to the task from the server.



No. of Pages : 13 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016278 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PHARMACEUTICAL PREPARATION CONVEYING DEVICE AND PHARMACEUTICAL PREPARATION PRINTING DEVICE

(51) International classification	:B65G15/14B65G21/14
(31) Priority Document No	:2016-232089
(32) Priority Date	:30/11/2016
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2017/040075 :07/11/2017
(87) International Publication No	:WO 2018/100980
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)**Name of Inventor :**

**1)MATSUYAMA Tomokazu**

**2)KONISHI Yoshihisa**

**3)FUJITA kenji**

**4)YAGYU Motohiro**

(57) Abstract :

[Problem] To provide a pharmaceutical preparation conveying device capable of easily ensuring wide exposed areas of solid pharmaceutical preparations that are being conveyed. [Solution] A pharmaceutical preparation conveying device 10 is provided with: a first pulley 11 and a second pulley 12; and a plurality of endless-strip-shaped conveyor belts 13 14 that are looped around the first pulley 11 and the second pulley 12. The plurality of conveyor belts 13 14 are disposed so as to be capable of sandwiching solid pharmaceutical preparations between one-side faces thereof.



No. of Pages : 20 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016279 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ENABLING SEMANTIC MASHUP IN INTERNET OF THINGS

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(51) International classification :G06F17/30H04W4/00  
(31) Priority Document No :62/401461  
(32) Priority Date :29/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/054274  
    Filing Date :29/09/2017  
(87) International Publication No :WO 2018/064464  
(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)SUN, Xiang  
2)WANG, Chonggang  
3)LI, Xu  
4)LY, Quang  
5)SEED, Dale, N.  
6)LI, Hongkun

---

(57) Abstract :

A new semantic mashup architecture with modular design can comprise separate Semantic Mashup Profiles (SMPs) Virtual Semantic Mashup Resources (VSMRs) and Semantic Mashup Results (SMRSs). This kind of modular design greatly improves the reusability of SMPs VSMRs and SMRSs. In addition this new mashup architecture leverages semantics during each mashup process which increases the interoperability. Moreover this new architecture essentially realizes new Semantic Mashup Service (SMS) at the service layer and consequently improves system efficiency.



No. of Pages : 111 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016281 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR MANUFACTURING SEMICONDUCTOR DEVICE

(51) International classification :H01L21/02G09F9/00G09F9/30  
(31) Priority Document No :2016-215737  
(32) Priority Date :03/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/IB2017/056606  
    Filing Date :25/10/2017  
(87) International Publication No :WO 2018/083568  
(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)KATAYAMA, Masahiro**

(57) Abstract :

A semiconductor device is manufactured with high mass productivity at low cost. Yield in a manufacturing process of the semiconductor device is improved. An island-shaped metal oxide layer is formed over a substrate a resin layer is formed over the metal oxide layer to cover an end portion of the metal oxide layer and the metal oxide layer and the resin layer are separated by light irradiation. After forming the resin layer and before the light irradiation an insulating layer is formed over the resin layer. For example the resin layer is formed in an island shape and the insulating layer is formed to cover an end portion of the resin layer. In the case where an adhesive layer is formed over the resin layer the adhesive layer is preferably formed to be located inward from the end portion of the metal oxide layer.



No. of Pages : 83 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917016126 A

(19) INDIA

(22) Date of filing of Application :23/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : BARN DOOR PRIVACY LOCK

(51) International classification :E05B15/00E05B3/00E05B9/08  
(31) Priority Document No :62/412682  
(32) Priority Date :25/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058341  
    Filing Date :25/10/2017  
(87) International Publication No :WO 2018/081299  
(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)CHENG, Qianyan

Address of Applicant :6 Wayne Court Sacramento, CA 95829  
U.S.A.

(72)Name of Inventor :

1)CHENG, Qianyan

(57) Abstract :

A locking system includes a lockcase which can be embedded within a recess in a jamb of a doorway. A barn door mounted outside of the doorway can be locked in the closed position by actuation of a lock mechanism within the lockcase. The handle interacts with the lockcase causing a bolt to be translated out of the lockcase and into a strike in the barn door. The strike preferably passes entirely through the barn door the strike including an outer entry which can be accessed via a key to push back the bolt and defeat the lock for emergency access. Cover plates and handles of different types can be provided for optimal performance. Lock mechanisms within the lockcase convert handle actuation into bolt translation between a collapsed orientation and a deployed orientation for locking the barn door.



No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016128 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NOVEL CD47 MONOCLONAL ANTIBODIES AND USES THEREOF

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(51) International classification :A61K39/395A61P35/00C07K14/705  
(31) Priority Document No :PCT/CN2016/102720  
(32) Priority Date :20/10/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/US2017/057535  
Filing Date :20/10/2017  
(87) International Publication No :WO 2018/075857  
(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)WANG, Zhengyi

2)FANG, Lei

3)GUO, Bingshi

4)ZANG, Jingwu

---

(57) Abstract :

The present invention provides novel CD47 antibodies or immunologically active fragments thereof that have low immunogenicity in humans and cause low or no level of red blood cell depletion or hemagglutination as well as pharmaceutical compositions containing such antibodies that can be used for treatment diseases mediated by CD47 or inhibition of phagocytosis or platelet aggregation.



No. of Pages : 37 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016136 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROCESS FOR ASSEMBLY OF MOTOR-GENERATORS

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(51) International classification	:	H02K15/08H02K1/06
(31) Priority Document No	:	62/401792
(32) Priority Date	:	29/09/2016
(33) Name of priority country	:	U.S.A.
(86) International Application No	:	PCT/US2017/054080
Filing Date	:	28/09/2017
(87) International Publication No	:	WO 2018/064370
(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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US. U.S.A.

2)RODGERS, Timothy, S.

(72)Name of Inventor :

1)GABRYS, Christopher, W.

2)RODGERS, Timothy, S.

(57) Abstract :

A process for assembling a brushless motor-generator includes assembling a rotor formed from two spaced apart rotor portions having magnetic poles that drive magnetic flux circumferentially through the rotor portions and back and forth across an armature airgap formed between the rotor portions. An air core armature is formed by coating a substantially nonmagnetic armature form with a tacky adhesive layer and winding armature windings into a winding pattern onto the substantially nonmagnetic form using wire made of multiple individually insulated conductor strands that are electrically connected in parallel but are electrically insulated from each other along their length when located inside the armature airgap wherein the strands of said wire are diametrically held together by an outer serve. The winding of the armature form includes sequentially applying pressure to sections of said wire against the tacky adhesive layer.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016142 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FILTER ELEMENT WITH TORSION LOCK AND ASSEMBLY

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(51) International classification	:B01D35/30
(31) Priority Document No	:62/403608
(32) Priority Date	:03/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/054717
Filing Date	:02/10/2017
(87) International Publication No	:WO 2018/067437
(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)ROOKEY, Ralle
- 2)PRIBANIC, Justin R.
- 3)MOORE, Jonathan D.
- 4)DOWNS, Kevin B.
- 5)DUB%, Wayne J.
- 6)MERRITT, Steven J.

(57) Abstract :

A liquid filter in the form of a filter element or a filter cartridge provides torsion locking relative to a filter head when the housing of such filter is threaded onto a filter head. Many embodiments employ a filter that includes a nipple portion at a top end with the torsion lock detent provided outboard of the nipple portion or integrated into the nipple portion. Many embodiments employ a simplified shoulder transition region at the top end of a torsion locked filter element. Valve actuation and/or filter differentiation is used in some embodiments. Different torsion locking arrangements deformable thread profiles and other liquid filter features are disclosed.



No. of Pages : 112 No. of Claims : 305

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016143 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONVERSION OF MIXTURES OF C2-C8 OLEFINS TO JET FUEL AND/OR DIESEL FUEL IN HIGH YIELD FROM BIO-BASED ALCOHOLS

(51) International classification :C07C2/24C07C2/12C07C5/03  
(31) Priority Document No :62/408476  
(32) Priority Date :14/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056793  
    Filing Date :16/10/2017  
(87) International Publication No :WO 2018/071905  
(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)GEVO, INC.**

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(72)**Name of Inventor :**

**1)SMITH, Jonathan O.**

**2)SJODIN, Madeline**

**3)VAILLANCOURT, Austin**

**4)STARKEY, Paul**

**5)DONEN, Steve**

**6)SHEBOWICH, Michelle**

(57) Abstract :

The present disclosure provides methods and materials for oligomerization of lower olefins (e.g. C2-C8) to transportations fuels including diesel and/or jet fuel. The oligomerization employs in certain embodiments tungstated zirconium catalysts. Surprisingly the oligomerizations proceed smoothly in high yields and exhibit little to no sensitivity to the presence of significant amounts of oxygenates (e.g. water lower alcohols such as C2-C8 alcohols) in the feed stream. Accordingly the present disclosure is uniquely suited to the production of fuels derived from biobased alcohols wherein olefins produced from such bio-based alcohols typically contain high levels of oxygenates.

No. of Pages : 19 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015971 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BIOSYNTHETIC DEVICES

(51) International classification:A61L27/60C12N5/071A61L27/54  
(31) Priority Document No :2016904516  
(32) Priority Date :04/11/2016  
(33) Name of priority country :Australia  
(86) International Application No :PCT/AU2017/051211  
Filing Date :03/11/2017  
(87) International Publication No :WO 2018/081866  
(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)ELASTAGEN PTY LTD

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(72)Name of Inventor :

1)WEISS, Anthony Steven

2)MITHIEUX, Suzanne Marie

(57) Abstract :

This invention provides a method for producing a device having elastic fiber arranged thereon. The method includes maintaining a cell culture including cells (for example fibroblasts) cell medium and tropoelastin in conditions enabling the cells to form elastic fiber from the tropoelastin and contacting a device with the cell culture to enable elastic fiber formed by the cells to be deposited onto the device thereby producing a device having elastic fibers arranged thereon.



No. of Pages : 33 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917015972 A

(19) INDIA

(22) Date of filing of Application :22/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : OPTIMIZATION OF BROADCAST MESSAGING FOR LOW-ENERGY DEVICES  
COMMUNICATING WITH A NODE ON A TIME-SLOTTED CHANNEL HOPPING NETWORK

(51) International classification	:H04W52/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/348308	<b>1)LANDIS+GYR INNOVATIONS, INC.</b>
(32) Priority Date	:10/11/2016	Address of Applicant :30000 Mill Creek Avenue Suite 100 Alpharetta, Georgia 30022 U.S.A.
(33) Name of priority country	:U.S.A.	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/US2017/059239	<b>1)HANLEY, James Patrick</b>
Filing Date	:31/10/2017	<b>2)PRAKASH, Vidya</b>
(87) International Publication No	:WO 2018/089227	<b>3)HETT, Christopher Scott</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Systems and methods optimize broadcast transmissions from a parent device operating on a time-slotted channel hopping (TSCH) network to one or more low-energy endpoint devices connected and synchronized to the communications of the TSCH parent device. As part of a Receiver Initiated Transmit (RIT) communication process the TSCH parent device receives a check-in communication from a connected low-energy endpoint device during a wake state of a wake/sleep cycle of the low-energy endpoint device. In response to the check-in message the TSCH parent device transmits an acknowledgment message identifying a broadcast timeslot during which the TSCH parent device will broadcast stored broadcast messages. During the identified timeslot the TSCH parent device broadcasts stored broadcast messages to any connected low-energy endpoint devices that are tuned in to the corresponding frequency channel according to the TSCH protocol.



No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015973 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HARD COATING AND MEMBER COATED WITH HARD COATING

(51) International classification	:C23C14/06
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2016/081647
Filing Date	:25/10/2016
(87) International Publication No	:WO 2018/078731
(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)OSG CORPORATION

Address of Applicant :22, Honnogahara 3-chome, Toyokawa-shi, Aichi 4420005 Japan

(72)Name of Inventor :

1)SAKURAI Masatoshi

2)WANG Mei

(57) Abstract :

Provided is a hard coating 24 which is coated on the surface of a tool substrate and in which an A layer 34 a B layer 36 and a nanoscale alternating layer 40 are alternately laminated to a film thickness of 0.5-20μm by physical vapor deposition wherein the nanoscale alternating layer 40 is obtained by alternately laminating a C layer 39 and a nanoscale A layer 37 or nanoscale B layer 38 to nano-order thicknesses the nanoscale A layer 37 or nanoscale B layer 38 having the same composition as the A layer 34 or B layer 36. The A layer 34 has a compositional formula of (AlaTibCrcad)N and a thickness of 0.5-1000 nm the B layer 36 has a compositional formula of (AleTifCrgb)CXN1-X and a thickness of 0.5-1000 nm the nanoscale alternating layer 40 has a thickness of 1-1000 nm the C layer 39 has a compositional formula of [AliCrj(SiC)kl]CYN1-Y and the C layer 39 and the nanoscale A layer 37 or nanoscale B layer have a thickness of 0.5-500 nm.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015983 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : BEACON

(51) International classification :H04W84/18H04W4/04H04W52/46  
(31) Priority Document No :2016-208690  
(32) Priority Date :25/10/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/037540  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/079342  
(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)MARUTA, Hajime

2)OHYAMA, Takeshi

3)FUJISHIMA, Shingo

(57) Abstract :

The objective of the present invention is to control a beacon in a mesh beacon. A system contains a plurality of beacons which are capable of communicating with one another within a prescribed radio wave reaching distance and which transmit and receive prescribed signals each of the plurality of beacons being disposed within the radio wave reaching distance of at least one other beacon and a control device capable of communicating with at least one of the plurality of beacons. Each beacon is provided with: a receiving means for receiving a signal including a setting change instruction sent from the control device; a setting means for changing the setting value of a prescribed item in the device on the basis of the setting change instruction; and a transmitting means for transmitting a signal including information based on the setting value changed by the setting means to the control device.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016145 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ACOUSTIC LENS AND APPLICATIONS THEREOF

(51) International classification :A61B8/00G10K11/02G10K11/162  
(31) Priority Document No :62/433275  
(32) Priority Date :13/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/066124  
Filing Date :13/12/2017  
(87) International Publication No :WO 2018/112042  
(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)ALIE, Susan, A.

2)ZAHORIAN, Jaime, Scott

3)MCNULTY, Christopher, Thomas

4)CRISTMAN, Paul, Francis

(57) Abstract :

The disclosed embodiments relate to a portable ultrasound device. Specifically the disclosed embodiments relate to an acoustic lens positioned at an ultrasound probe. The acoustic lens may be configured for impedance matching and signal attenuation. In one embodiment ultrasound signal attenuation is provided by forming an acoustic lens as a solid admixture of signal attenuating particles in a polymer matrix.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016146 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ASSEMBLY AND METHOD FOR SEALING A BUNDLE OF WIRES

(51) International classification :H02G15/013H01B7/285B60R16/02  
(31) Priority Document No :15/282670  
(32) Priority Date :30/09/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/053971  
Filing Date :28/09/2017  
(87) International Publication No :WO 2018/064309  
(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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3)BHARADWAJ, Kavitha

4)GAO, Ting

5)POLOSKY, Quentin, F.

6)CERVANTES, Henry, Paul S.

(57) Abstract :

A sealing assembly (100) for sealing a bundle of wires (305) includes a first (105a) formed of a sealant material a second sheet (107) disposed above the first sheet and a third sheet (105b) disposed above the second sheet formed of the sealant material. The second sheet includes a thermally conductive material. When the bundle of wires is overlaid on the assembly in a first direction and the assembly is wrapped in a second direction that is generally perpendicular to the first to thereby surround the wires the second sheet facilitates enhanced thermal energy distribution of applied heat throughout the assembly to thereby more uniformly melt the sealant material and thereby fill voids between the wires.



No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016149 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FILTER ELEMENT

(51) International classification :B01D36/00B01D39/16B01D29/11  
(31) Priority Document No :10 2016 013 166.7  
(32) Priority Date :04/11/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/001201  
Filing Date :11/10/2017  
(87) International Publication No :WO 2018/082799  
(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)HEGMANN, Martin

2)SCHUNK, Andreas

(57) Abstract :

The invention relates to a filter element (3) designed as a replacement element of which the filter medium (59) which is formed as a hollow body and extends between two closure parts in particular in the form of end caps (13 19) is pleated with individual filter folds (66) characterized in that the filter medium (59) comprises a filter material (61) made of cellulose.



No. of Pages : 12 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016157 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : CONVEYING DEVICE CONSISTING OF A PLURALITY OF CONVEYOR-BELT SEGMENTS LINED UP ADJACENT TO EACH OTHER

(51) International classification :B65G17/06B66B23/10B65G17/08  
(31) Priority Document No :A51017/2016  
(32) Priority Date :08/11/2016  
(33) Name of priority country :Austria  
(86) International Application No :PCT/EP2017/077173  
Filing Date :24/10/2017  
(87) International Publication No :WO 2018/086875  
(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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Wolfurt Austria

(72)Name of Inventor :

1)VLAS • K, Pavel

2)DRENCKO, Jiri

(57) Abstract :

The invention relates to a segment (1) or to a strip (2) for a segment (1) of a conveying device having at least one end face (3 4) which faces a segment (1) adjoining the segment (1) or faces a strip (2) on an adjoining segment (1) optionally a rear side (10) and parallel ribs (6) which extend on a top side (5) of the segment (1) or of the strip (2) in the conveying direction (7). An end region (8) of the ribs (6) is beveled in the region of the end face (3 4).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016158 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HIGH-STRENGTH GALVANIZED STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C22C38/06C22C38/60C21D9/46
(31) Priority Document No	:2016-253302
(32) Priority Date	:27/12/2016
(33) Name of priority country	Japan
(86) International Application No	:PCT/JP2017/046839
Filing Date	:27/12/2017
(87) International Publication No	:WO 2018/124157
(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)NAKAGAITO Tatsuya**

**3)IKEDA Gosuke**

**4)YOSHITOMI Hiromi**

(57) Abstract :

Provided are a high-strength galvanized steel sheet that can ameliorate shear end cracking and a method for manufacturing the same. The high-strength galvanized steel sheet is characterized by comprising a base steel sheet and a zinc coating layer formed on the base steel sheet the base steel sheet including a specific component composition and a steel structure comprising bainite which has no ferrite or carbide at an area ratio of 0-65% bainite which has martensite and a carbide at an area ratio of 35-100% and retained austenite at an area ratio of 0-15% with the amount of diffusible hydrogen in the steel sheet being at most 0.00008% (including 0%) in terms of mass% wherein the density of gaps that split the entire thickness of the zinc coating layer in a sheet thickness cross section perpendicular to the rolling direction of the zinc coating layer being at most 10 per mm.



No. of Pages : 43 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015985 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : CARRIER TRANSMISSION METHOD BASE STATION USER EQUIPMENT AND SYSTEM

(51) International classification	:H04W72/04
(31) Priority Document No	:201610966093.2
(32) Priority Date	:04/11/2016
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2017/104548
Filing Date	:29/09/2017
(87) International Publication No	:WO 2018/082423
(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)HUAWEI TECHNOLOGIES CO., LTD.

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(72)Name of Inventor :

1)ZHOU, Guohua

2)TANG, Zhenfei

3)ZHAO, Yueying

4)TANG, Hao

5)ZHANG, Peng

6)WEI, Dongdong

(57) Abstract :

The present invention relates to the technical field of wireless communications. Provided are a carrier transmission method a base station a user equipment and a system. The method comprises: a base station sending a second carrier wherein the second carrier at least partially shares the same resource area with a first carrier and the resource area comprises a plurality of resource units; the first carrier and the second carrier occupying different resource units; and the base station sending blank resource unit indication information to a user equipment receiving the second carrier wherein the blank resource unit indication information is used for indicating the position of a resource unit occupied by the first carrier in the shared resource area. By means of the solution provided in the embodiment the utilization ratio of a communication system resource is improved and interference between carriers is avoided.



No. of Pages : 26 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015986 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SWITCHING FROM ONE OFDM MODE TO ANOTHER

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(51) International classification	:	H04L1/00H04L27/26
(31) Priority Document No	:	NA
(32) Priority Date	:	NA
(33) Name of priority country	:	NA
(86) International Application No	:	PCT/EP2016/076141
Filing Date	:	28/10/2016
(87) International Publication No	:	WO 2018/077432
(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)HUAWEI TECHNOLOGIES CO., LTD.

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Bantian Longgang District Shenzhen, Guangdong 518129 China

(72)Name of Inventor :

1)GONG, Xitao

2)GONG, Xitao

3)LONG, Yi

4)GUO, Zhiheng

5)SCHELLMANN, Malte

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(57) Abstract :

A communication terminal for communicating with a base device by frequency and/or time division multiplexing the terminal being configured to transmit and/or receive signals to and/or from the base device using any of a plurality of numerology types the communication terminal being configured to: communicate with the base device using a default one of the numerology types and thereby receive a configuration word from the base device; determine in dependence on the default one of the numerology types and the configuration word a secondary numerology type; and subsequently communicate with the base device using the secondary numerology type when the second numerology type is activated.



No. of Pages : 17 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015988 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A MEDICAL TUBE STORAGE SYSTEM

(51) International classification	:A61M25/02
(31) Priority Document No	:1617001.1
(32) Priority Date	:06/10/2016
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2017/053028
Filing Date	:06/10/2017
(87) International Publication No	:WO 2018/065784
(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)TOOKIE LIMITED**

Address of Applicant :89 South Ferry Quay Liverpool  
Merseyside L3 4EW U.K.

(72)Name of Inventor :

**1)TOOKE, Stephen**

(57) Abstract :

A medical tube holder (10) comprising a vest (12) having at least one sealable pocket (30) located on the vest. The inside of the pocket is provided with at least one tube retaining devices (40) into which the end of a medical tube may be releasably retained.



No. of Pages : 11 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015989 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FOLDABLE VIRTUAL REALITY DEVICE

(51) International classification	:G06F1/16G02B27/01G06T19/00
(31) Priority Document No	:10-2016-0121606
(32) Priority Date	:22/09/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/010468
Filing Date	:22/09/2017
(87) International Publication No	:WO 2018/056749
(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)MIN, Sang Kyu

Address of Applicant :29, Nakseongdaeyeok 14ga-gil, Gwanak-gu, Seoul 08797 Republic of Korea

(72)Name of Inventor :

1)MIN, Sang Kyu

(57) Abstract :

A foldable virtual reality device comprises: a main body which includes a display; and a switching body which is rotatably mounted at one side of the main body to switch while being in close contact with a front and a rear surface of the main body and which includes a screen member and an ocular plate mounted at the screen member wherein while being in close contact with one surface of the main body at which the display is formed the screen member moves the ocular plate to form a close contact state or a separate state in which the ocular plate comes into a close contact with the display or maintains a predetermined distance to the display respectively whereby when the ocular plate is in the separate state the device can implement a virtual reality function through the display.



No. of Pages : 158 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016009 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : STACKING-TYPE STATOR USING MULTI-LAYERED SUBSTRATE AND IN-CAR SENSOR USING SAME

(51) International classification	:H02K1/14H02K3/52H02K3/26
(31) Priority Document No	:10-2016-0140112
(32) Priority Date	:26/10/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/011842
Filing Date	:25/10/2017
(87) International Publication No	:WO 2018/080164
(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)AMOTECH CO., LTD.

Address of Applicant :5B/L-1Lot Namdonggongdan, 380, Namdongseo-ro Namdong-gu Incheon 21629 Republic of Korea

(72)Name of Inventor :

1)KIM, Byung Soo

2)KIM, Jin Gwan

3)LEE, Hong Geun

(57) Abstract :

The present invention relates to a stacking-type stator using a multi-layered substrate and an in-car sensor using the same the stator being capable of obtaining maximum torque generation in opposing rotors. The stacking-type stator of the present invention comprises: the multi-layered substrate; a plurality of coil patterns patterned in a spiral shape so as to form a plurality of turns on each substrate of the multi-layered substrate and connected to each other through a through-hole; a hall sensor disposed on the multi-layered substrate and disposed at the position displaced from a boundary of a rotor magnetic pole when the rotor is in an initial state so as to detect the magnetic pole of the rotor; and a dead point preventing yoke for setting the position of the rotor such that the position of the hall sensor is set at the position displaced from the magnetic boundary of the rotor when the rotor is in an initial state wherein the spiral coil patterns include: a plurality of radial pattern parts respectively arranged along the radial direction; and a plurality of inner and outer connecting pattern parts for connecting the plurality of radial pattern parts to each other wherein the coil patterns form a stator coil for a single-phase motor.



No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016329 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : APPARATUS FOR TISSUE REMOVAL

(51) International classification	:A61F9/007A61B17/32	(71)Name of Applicant :
(31) Priority Document No	:PCT/IL2016/051063	<b>1)SANOCULIS LTD.</b>
(32) Priority Date	:27/09/2016	Address of Applicant :8 Hakfar St. 5552589 Kiryat Ono Israel
(33) Name of priority country	:Israel	<b>2)TEL HASHOMER MEDICAL RESEARCH INFRASTRUCTURE AND SERVICES LTD.</b>
(86) International Application No	:PCT/IL2016/051063	(72)Name of Inventor :
Filing Date	:27/09/2016	<b>1)LAVI, Gilad</b>
(87) International Publication No	:WO 2018/060983	<b>2)GLOVINSKY, Yoseph</b>
(61) Patent of Addition to Application Number	:NA	<b>3)SHMUKLER, Vadim</b>
Filing Date	:NA	<b>4)ISRAELI, Nir</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An apparatus for use in tissue removal from a body organ is presented. The apparatus comprises a hand-held probe device a rotating motor device and a connection assembly configured for removably interconnecting between the hand-held probe device and the rotating motor device. The hand-held probe device is disposable and comprises a housing having proximal and distal ends a rotatable cutting tool extending distally from the distal end of the housing and being configured for cutting and removing tissue during rotation and a transmission assembly passing inside the housing between the proximal and distal ends and being configured for transmitting rotational power to the rotatable cutting tool. The connection assembly is configured for engaging between the rotating motor device and the transmission assembly to thereby controllably rotate the cutting tool and remove tissue. In some embodiments the apparatus includes a control unit for controlling operation of the apparatus the control unit comprises an activation mechanism for activating the rotatable cutting tool and a controller configured for operating the activation mechanism to generate a single fixed activation signal of a known intensity and duration during a predetermined time interval thereby restricting operation of the cutting tool during the time interval to the single activation signal only.



No. of Pages : 17 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016330 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : FILTER MODULE FOR GRAVITY-TYPE WATER PURIFIER AND GRAVITY-TYPE WATER PURIFIER INCLUDING SAME

(51) International classification :B01D63/08B01D35/00B01D35/30  
(31) Priority Document No :10-2016-0141188  
(32) Priority Date :27/10/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/011970  
Filing Date :27/10/2017  
(87) International Publication No :WO 2018/080219  
(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)AMOGREENTECH CO., LTD.

Address of Applicant :91, Gimpo-daero 1950beon-gil, Tongjin-eup, Gimpo-si, Gyeonggi-do 10014 Republic of Korea

(72)Name of Inventor :

1)HAN, Kyung Gu

(57) Abstract :

Provided is a filter module for a gravity-type water purifier. The filter module for a gravity-type water purifier according to an exemplary embodiment of the present invention includes: a plurality of filter members which are plate shaped and which are fixed to each other via one or more fastening bars while arranged spaced apart from each other in parallel having gaps therebetween; and a common water collecting member coupled to the respective water collecting holes formed in the filter members and in which filtered water produced from the filter members is collected.



No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016339 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METAL RECOVERY PROCESS

(51) International classification	:C22B3/18C02F1/28B01J20/22
(31) Priority Document No	:725785
(32) Priority Date	:31/10/2016
(33) Name of priority country	:New Zealand
(86) International Application No	:PCT/NZ2017/050142
Filing Date	:31/10/2017
(87) International Publication No	:WO 2018/080326
(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)MINT INNOVATION LIMITED**

Address of Applicant :24 Balfour Road Parnell Auckland 1052  
New Zealand

(72)Name of Inventor :

**1)BARKER, Will**

**2)CRUSH, Oliver**

(57) Abstract :

The invention relates to a process for recovering metals from aqueous solutions or solid feedstocks such as ores and waste. In particular the invention relates to a method of recovering a target metals using a microorganism.



No. of Pages : 42 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016342 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONCEALING INFORMATION PRESENT WITHIN NUCLEIC ACIDS

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(51) International classification :C40B70/00C40B50/06C40B50/16  
(31) Priority Document No :62/411998  
(32) Priority Date :24/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058076  
Filing Date :24/10/2017  
(87) International Publication No :WO 2018/081113  
(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)GENEINFOSEC, INC.

Address of Applicant :1630 30th St. Boulder, CO 80301 U.S.A.

(72)Name of Inventor :

1)SAWAYA, Sterling

(57) Abstract :

Methods related to concealment of genetic information present within nucleic acid sequences wherein individual nucleic acid molecules are barcoded. In some embodiments barcoding occurs before after or during enrichment. Barcoded nucleic acids are then combined with control barcoded nucleic acids. Different methods are provided for barcoding and pooling to conceal different types of genetic information present within nucleic acids.



No. of Pages : 25 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016343 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BIASING MEMBERS FOR VALVE ASSEMBLY

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(51) International classification :F16K3/02F16K3/18F16K3/312  
(31) Priority Document No :62/414427  
(32) Priority Date :28/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058708  
    Filing Date :27/10/2017  
(87) International Publication No :WO 2018/081526  
(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)ADVANCED VALVE TECHNOLOGIES, INC.

Address of Applicant :800 Busse Road Elk Grove Village, IL  
60007 U.S.A.

(72)Name of Inventor :

1)MURPHY, Kevin, P.

2)MURPHY, Michael, S.

3)MURPHY, Colin, P.

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(57) Abstract :

A valve assembly may include a valve having an upper valve surface and a lower valve surface. The valve may be movable in a slot in a housing between an open position and a closed position and the slot may have an upper slot surface and a lower slot surface. The valve assembly may include a biasing member movably positioned within the housing that may be configured to urge the valve toward one of the upper slot surface and the lower slot surface.



No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015855 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SYSTEMS AND METHODS FOR MAKING THICK GAUGE ALUMINUM ALLOY ARTICLES

(51) International classification :B21B1/46B22D11/00B22D11/06  
(31) Priority Document No :62/413740  
(32) Priority Date :27/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/053720  
Filing Date :27/09/2017  
(87) International Publication No :WO 2018/080706  
(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)NOVELIS INC.

Address of Applicant :3560 Lenox Road, Suite 2000 Atlanta, Georgia 30326 U.S.A.

(72)Name of Inventor :

1)FELBERBAUM, Milan  
2)BASSI, Corrado  
3)DAS, Sazol Kumar  
4)BARKER, Simon  
5)PIROTEALA, Tudor  
6)TALLA, Rajasekhar

(57) Abstract :

Provided herein are systems and methods for producing thick gauge aluminum alloy articles such as plates shates slabs sheet plates or the like. A method for producing thick gauge aluminum alloy articles can include continuously casting an aluminum alloy article and hot or warm rolling the aluminum alloy article. Also provided herein is a continuous casting system for producing thick gauge aluminum alloy articles. The disclosed thick gauge aluminum alloy articles can be provided in any suitable temper.



No. of Pages : 28 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015856 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PROCESS FOR THE PREPARATION OF (3S4S)-TETRAHYDROFURAN-3-YL 4-ISOPROPYL-67-DIHYDRO-3H-IMIDAZO[45-C]PYRIDINE-5(4H)-CARBOXYLATE

(51) International classification :C07D471/04C07C59/50C07C309/04  
(31) Priority Document No :1618029.1  
(32) Priority Date :25/10/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2017/053218  
Filing Date :25/10/2017  
(87) International Publication No :WO 2018/078363  
(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)BENEVOLENTAI CAMBRIDGE LIMITED**

Address of Applicant :4-8 Maple Street London W1T 5HD U.K.

(72)Name of Inventor :

**1)HORGAN, Anne**

**2)HAGLUND, Olof**

**3)PATIENT, Lee**

**4)SAVORY, Edward**

**5)HIGGINBOTTOM, Michael**

**6)ASHWOOD, Michael**

(57) Abstract :

The invention relates to an improved process for the synthesis of (3S4S)-tetrahydrofuran-3-yl 4-isopropyl-67-dihydro-3H-imidazo[45-C]pyridine-5(4H)-carboxylate and pharmaceutically acceptable salts thereof such as the methanesulphonic acid salt.

No. of Pages : 18 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015859 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND PROCESS

(51) International classification :B64D37/16B67D7/34B64D37/32  
(31) Priority Document No :1616123.4  
(32) Priority Date :22/09/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2017/073799  
Filing Date :20/09/2017  
(87) International Publication No :WO 2018/054987  
(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)AIR BP LIMITED**

Address of Applicant :Chertsey Road Sunbury on Thames Middlesex TW16 7BP U.K.

(72)Name of Inventor :

**1)DUBENSKI, Paul,Jerzy**

(57) Abstract :

A refuelling system suitable for use with an overwing fuelled aircraft comprising: (b) a stored fuel grade identification means for identifying the fuel grade stored in the fuel storage vessel and available type(s) of delivery of the fuel to the aircraft; (d) an aircraft fuel grade identification means being attached to or forming part of an overwing fuelled aircraft wherein said aircraft fuel grade identification means represents the fuel grade requirement of the aircraft and is readable from the exterior of the aircraft; (g) a transmission and receiving system which enables information regarding the fuel grade that had previously been supplied to the aircraft having the aircraft registration number inputted into the computer interface and the type of delivery of fuel which may be used by said aircraft to be retrieved from a remote database; (i) an automated cross-check system which is configured to retrieve the fuel grades identified by the fuel identification means in (b) retrieve the fuel grade identified in (d) from the hand-held device retrieve the type(s) of delivery of fuel identified by the fuel identification means in (b) and by the system of element (g) and the previous fuel grade supplied to the aircraft identified by the system in element (g) which can generate a positive response signal if all of the fuel grades identified are compatible with each other and the type(s) of delivery of fuel to the aircraft are compatible

No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015861 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR PREPARING PHENYLALANINE COMPOUND

(51) International classification :C07D209/86C07C229/36  
(31) Priority Document No :201610855107.3  
(32) Priority Date :27/09/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/103618  
    Filing Date :27/09/2017  
(87) International Publication No :WO 2018/059427  
(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)SHENZHEN CHIPSCREEN BIOSCIENCES CO., LTD.**  
Address of Applicant :2-601606 BIO-Incubator, Gaoxin C, 1st Ave., Hi-Tech Industrial Park Nanshan District Shenzhen, Guangdong 518057 China

(72)Name of Inventor :

**1)LU, Xianping  
2)LI, Zhibin  
3)WANG, Xianghui**

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(57) Abstract :

Disclosed is a method for preparing 2-(2-(4-fluorobenzoyl)phenylamino)-3-(4-(2-(9H-carbazol-9-yl)ethoxy)phenyl)propanoic acid. In the method 9-carbazole ethanol mesylate and methyl 2-[2-(4-fluorobenzoyl)phenyl]amino]-3-(4-hydroxyphenyl)propionate are used as starting materials and subjected to condensation hydrolysis and acidification to obtain the target compound. The preparation method of the present invention is suitable for industrial production and the target compound has a high purity.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015865 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MYCOBACTERIUM TUBERCULOSIS PROTEINS IN DIAGNOSTIC ASSAYS AND DEVICES FOR TUBERCULOSIS DETECTION AND DIAGNOSIS

(51) International classification :G01N33/543G01N33/569G01N33/53  
(31) Priority Document No :62/398213  
(32) Priority Date :22/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/063154  
Filing Date :22/11/2017  
(87) International Publication No :WO 2018/068064  
(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)PACE DIAGNOSTICS, INC

Address of Applicant :2119 South Myrtle Ave. Monrovia, California 91016 U.S.A.

(72)Name of Inventor :

1)NGUYEN, Hiep-Hoa, T.

(57) Abstract :

The present invention provides a method of detecting antibodies in a sample from a subject wherein the antibodies bind to epitopes of Mycobacterium tuberculosis antigens comprising contacting the sample with two or more isolated polypeptides or antigenic fragments or variants thereof wherein the polypeptides comprise polypeptides selected from the group consisting of SEQ ID NOS: 1 3 5 7 9 11 13 and 15; and detecting formation of antibody-peptide complexes comprising said isolated polypeptides or antigenic fragments or variants thereof wherein formation of said complexes is indicative of the presence of the antibodies to epitopes of Mycobacterium tuberculosis antigens in said sample.



No. of Pages : 51 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016159 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MACHINE WITH A SYSTEM FOR AXIAL BLOCKING OF THE SHAFT

(51) International classification	:H02K5/173
(31) Priority Document No	:1660317
(32) Priority Date	:25/10/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/077278
Filing Date	:25/10/2017
(87) International Publication No	:WO 2018/077934
(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)MOTEURS LEROY-SOMER**

Address of Applicant :Boulevard Marcellin Leroy CS 10015  
16915 ANGOULEME CEDEX 9 France

(72)Name of Inventor :

**1)GAUTHIER, Pascal**

**2)BEYNAUD, Pascal**

(57) Abstract :

The present invention concerns a rotary machine (1) comprising: - at least one bearing mount (20); - at least one bearing (10) carried by the bearing mount (20) the bearing comprising inner (11) and outer (12) races and rolling elements (13) between the races; - a shaft (2) engaged in the bearing axially blocked relative to the inner race; - a pushrod cover (30) arranged on one side of the bearing having a surface (31) opposite the bearing and having on its radially outer edge a bead of material (33) in contact with the outer race (12); - at least one push element (40) moveable transversely to the axis of rotation (X) of the shaft (2) in order to exert a pressure on said surface (31) of the push rod cover in order to press it against the outer race (12) and axially block said outer race.



No. of Pages : 8 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016161 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HYDROGEN SULFIDE RELEASING POLYMER COMPOUNDS

(51) International classification	:A61K31/105A61K31/728A61K31/795
(31) Priority Document No	:16197625.3
(32) Priority Date	:07/11/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/078421
Filing Date	:07/11/2017
(87) International Publication No	:WO 2018/083326
(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)CROMA-PHARMA GESELLSCHAFT M.B.H.

Address of Applicant :Industriezeile 6 2100 Leobendorf Austria

(72)Name of Inventor :

1)PRINZ, Martin

2)HOFFER, Martin

(57) Abstract :

The invention provides a hydrogen sulfide releasing polymer compound having a polysaccharide backbone wherein the compound has at least two substructures and wherein said substructures are capable of releasing hydrogen sulfide by thiol activation as well as uses thereof. Additionally a method of treatment and prevention of a skin condition an ocular disease or osteoarthritis is provided.



No. of Pages : 31 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016162 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : REFINER DISC SEGMENT

(51) International classification :D21D1/30B02C7/12B29C64/00  
(31) Priority Document No :20 2017 100 135.0  
(32) Priority Date :12/01/2017  
(33) Name of priority country :Germany  
(86) International Application No:PCT/EP2017/081679  
    Filing Date :06/12/2017  
(87) International Publication No :WO 2018/130346  
(61) Patent of Addition to :NA  
Application Number :NA  
    Filing Date :NA  
(62) Divisional to Application :NA  
Number :NA  
    Filing Date :NA

(71)Name of Applicant :

**1)VALMET AB**

Address of Applicant :851 94 Sundsvall Sweden

(72)Name of Inventor :

**1)HEDLUND, Christer**

(57) Abstract :

A disc-type refiner segment and a production method thereof are provided for refining lignocellulosic material comprising providing production data of the disc-type refiner segment; supplying the production data to a 3D printer; 3D printing a pattern of the disc-type refiner segment; using the pattern of the disc-type refiner segment to generate a mold of the disc-type refiner segment; and molding or casting the disc-type refiner segment using the mold.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016165 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FEEDER

(51) International classification	:B65G65/30F16L11/04
(31) Priority Document No	:15/333652
(32) Priority Date	:25/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/057448
Filing Date	:19/10/2017
(87) International Publication No	:WO 2018/080899
(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)REC SILICON INC**

Address of Applicant :3322 Road N Ne Moses Lake, WA  
98837 U.S.A.

(72)Name of Inventor :

**1)GEERTSEN, Robert, J.**

(57) Abstract :

A feeder operable to convey a divided solids material comprises a conduit and an actuator. The conduit has a hollow body with a length a first end a second end opposite the first end and a displaceable body segment defined along at least a portion of the length. The displaceable body segment has at least a first fixable location positionable at a first fixed location. The actuator is positioned to apply force to the conduit and is controllable to cause selected flow of divided solids material in a feed direction extending generally from the first end to the second end. Methods are also disclosed.



No. of Pages : 22 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016170 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LSD1 INHIBITORS AND MEDICAL USES THEREOF

(51) International classification	:C07D221/20C07D205/12A61P35/00
(31) Priority Document No	:62/413166
(32) Priority Date	:26/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/058405
Filing Date	:26/10/2017
(87) International Publication No	:WO 2018/081343
(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)CONSTELLATION PHARMACEUTICALS, INC.

Address of Applicant :215 First Street Suite 200 Cambridge, MA 02142 U.S.A.

(72)Name of Inventor :

1)BRUCELLE, Francois

2)GEHLING, Victor, S.

3)KHANNA, Avinash

(57) Abstract :

Provided are novel compounds of Formula (I or Ia'): and pharmaceutically acceptable salts thereof which are useful for treating a variety of diseases disorders or conditions associated with LSD1. Also provided are pharmaceutical compositions comprising the novel compounds of Formula (I or Ia') pharmaceutically acceptable salts thereof and methods for their use in treating one or more diseases disorders or conditions associated with LSD1.



No. of Pages : 57 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016171 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : USE OF BETA-CATENIN AS A BIOMARKER FOR TREATING CANCERS USING ANTI-DKK-1 ANTIBODY

(51) International classification :A61K39/395A61K31/337C07K16/18  
(31) Priority Document No :62/413198  
(32) Priority Date :26/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058555  
Filing Date :26/10/2017  
(87) International Publication No :WO 2018/081437  
(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)LEAP THERAPEUTICS, INC.

Address of Applicant :47 Thorndike Street, Suite B1-1 Cambridge, MA 02141 U.S.A.

(72)Name of Inventor :

1)KAGEY, Michael, H.

2)SIRARD, Cynthia, A.

(57) Abstract :

A method of treating a cancer in a subject in need thereof is disclosed. The cancer can be an esophageal cancer a uterine cancer a liver cancer or a cholangiocarcinoma. The method comprises administering to the subject an effective amount of an anti-Dkk-1 antibody or antigen binding-fragment thereof wherein the subject is determined to have a constitutively activating mutation of the beta-catenin protein.



No. of Pages : 29 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016344 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYACETAL RESIN COMPOSITION AND SLIDING MEMBER

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(51) International classification :C08L59/00C08L23/08C08L23/16  
(31) Priority Document No :2016-253599  
(32) Priority Date :27/12/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/046049  
Filing Date :21/12/2017  
(87) International Publication No :WO 2018/123834  
(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)OILES CORPORATION**

Address of Applicant :2-70, Kounan 1-chome, Minato-ku,  
Tokyo 1080075 Japan

(72)Name of Inventor :

**1)SAITO, Aoi**

**2)MIYASAKA, Kingo**

(57) Abstract :

A polyacetal resin composition which comprises a polyacetal resin as a main component and further contains 1.5-7 mass% ethylene/propylene/diene rubber 0.5-3 mass% saponified ethylene/vinyl acetate copolymer and 0.05-0.3 mass% ethylene/a-olefin copolymer.

No. of Pages : 33 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917016345 A

(19) INDIA

(22) Date of filing of Application :24/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : POTASSIUM TITANATE POWDER METHOD FOR PRODUCING SAME FRICTION MODIFIER RESIN COMPOSITION FRICTION MATERIAL AND FRICTION MEMBER

(51) International classification	:C01G23/00F16D69/02
(31) Priority Document No	:2016-241259
(32) Priority Date	:13/12/2016
(33) Name of priority country	:Japan
(86) International Application No Filing Date	:PCT/JP2017/043434 :04/12/2017
(87) International Publication No	:WO 2018/110341
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)Name of Applicant :

1)OTSUKA CHEMICAL CO., LTD.

Address of Applicant :2-27, Otedori 3-chome, Chuo-ku,  
Osaka-shi, Osaka 5400021 Japan

(72)Name of Inventor :

1)HIOKI, Toshifumi

2)MORI, Hiroyoshi

3)ITO, Yasuhito

(57) Abstract :

Provided is a potassium titanate powder capable of imparting exceptional friction characteristics when used in a friction material while avoiding safety and health concerns. A powder configured from columnar potassium titanate particles having an average long diameter of 30μm or greater an average short diameter of 10μm or greater and an aspect ratio of 1.5 or greater the columnar potassium titanate particles being characterized by being represented by the compositional formula K<sub>2</sub>Ti<sub>n</sub>O<sub>2n+1</sub> (in the formula n = 5.5-6.5).



No. of Pages : 60 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016347 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : CORE FORMING DEVICE AND CORE FORMING METHOD

(51) International classification	:B22C5/04B22C13/12B22C13/16
(31) Priority Document No	:2016-213525
(32) Priority Date	:31/10/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/IB2017/001338
Filing Date	:13/10/2017
(87) International Publication No	:WO 2018/078437
(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)TOYOTA JIDOSHA KABUSHIKI KAISHA**

Address of Applicant :1,Toyota-cho, Toyota-shi, Aichi-ken  
471-8571 Japan

**2)SINTOKOGIO, LTD.**

(72)Name of Inventor :

**1)OKUMURA, Katsutoshi**

**2)WATANABE, Hirotune**

**3)IZUMI, Shogo**

**4)KURITA, Hirotaka**

**5)YAMAMOTO, Katsushige**

(57) Abstract :

A core forming device is equipped with a kneading tank in which raw materials of a core are kneaded a raw material supply unit that supplies the raw materials to the kneading tank a mold that accommodates a kneaded material including the raw materials kneaded in the kneading tank and that forms the core a piston that injects the kneaded material into the mold a position sensor that detects a position of the piston and a control unit that controls a supply amount of the raw materials supplied to the kneading tank from the raw material supply unit. The control unit determines the supply amount of the raw materials based on a difference between the position of the piston upon completion of injection and a reference position of the piston.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016348 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : LOW-VISCOSITY ANTIGEN BINDING PROTEINS AND METHODS OF MAKING THEM

(51) International classification :C07K16/28G01N11/00C07K16/00  
(31) Priority Document No :62/401770  
(32) Priority Date :29/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/053967  
Filing Date :28/09/2017  
(87) International Publication No :WO 2018/064307  
(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)AMGEN INC.

Address of Applicant :One Amgen Center Drive Thousand Oaks, California 91320 U.S.A.

(72)Name of Inventor :

1)HUh, Joon

2)STEVENSON, Riki

3)BONDARENKO, Pavel

4)NICHOLS, Andrew

5)REN, Da

6)AGRAWAL, Neeraj Jagdish

7)SMITH, Richard

(57) Abstract :

The present invention concerns a method for preparing antigen binding proteins with reduced viscosity. The method proceeds by replacing residues in high viscosity variable domain subfamilies with residues in correlating low viscosity subfamilies. The method further comprises substituting residues in the Fc domain with residues associated with low viscosity and adding charged residues to the C-terminus of the Fc domain. The present invention further concerns antigen binding proteins produced by this method.



No. of Pages : 51 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016349 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SCREW CONVEYOR TO CONVEY POWDERY MATERIAL IN PARTICULAR CEMENT OR THE LIKE

(51) International classification	:B65G33/14B65G33/26	(71) <b>Name of Applicant :</b> <b>1)WAMGROUP S.P.A.</b> Address of Applicant :Strada degli Schiocchi, 12 41100 Modena Italy
(31) Priority Document No	:102016000097907	
(32) Priority Date	:29/09/2016	
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2017/056026	(72) <b>Name of Inventor :</b> <b>1)MARCHESINI, Vainer</b>
Filing Date	:29/09/2017	
(87) International Publication No	:WO 2018/060955	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A screw conveyor (100) to convey powdery material in particular cement. The screw conveyor (100) comprises: - a transfer screw (70); and - a trough (80) containing the transfer screw (70); the trough (80) being provided with an inlet section (81) and an outlet section (82) of the powdery material. The screw conveyor (100) is characterized in that the screw comprises : - at least a first screw portion (TSEC) having a first law of continuous variation of the pitches of the screw (70) which can be graphically represented by means of a first function having in at least one stretch a first derivative other than zero; and - at least a second screw portion (TSEC) having a second law of continuous variation of the pitches of the screw (70) which can be graphically represented by a second function having in at least one stretch a first derivative other than zero. The first law of continuous variation of the pitches (PTC) is different from the second law of continuous variation of the pitches (PTC).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016015 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR AIR-QUENCHING AN ELONGATED HOLLOW GLASS BODY COMPRISING AN AXIAL BORE

(51) International classification	:C03B27/06A61M5/30	(71) <b>Name of Applicant :</b> <b>1)CROSSJECT</b> Address of Applicant :6 rue Pauline Kergomard ZAC Parc Mazen Sully 21000 DIJON France
(31) Priority Document No	:16/61064	
(32) Priority Date	:15/11/2016	
(33) Name of priority country	:France	
(86) International Application No	:PCT/FR2017/053036	(72) <b>Name of Inventor :</b>
Filing Date	:07/11/2017	<b>1)AURIEL, Christophe</b>
(87) International Publication No	:WO 2018/091798	<b>2)VIGOT, Xavier</b>
(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 method for air-quenching a hollow glass body (2) elongated along a main axis and comprising a wall having an outer surface (10) and an inner surface (12) formed by a bore extending vertically along the main axis; said method uses air jet nozzles (22 28) directed towards the surfaces and is characterized in that it simultaneously blasts jets of air through outer nozzles (22) distributed across the outer surface (10) and also above the axial bore blasts an inner jet of air defining in a transverse plane a ring having a hollow centre (68).



No. of Pages : 8 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016034 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INK JET INKS HAVING IR-ABSORBING DYE

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(51) International classification	:C09D11/328C09D11/102C09B67/22
(31) Priority Document No	:16196265.9
(32) Priority Date	:28/10/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/076054
Filing Date	:12/10/2017
(87) International Publication No	:WO 2018/077626
(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)AGFA NV

Address of Applicant :Septestraat 27 2640 Mortsel Belgium

(72)Name of Inventor :

1)LOCCUFIER, Johan

2)BERTELS, Ellen

(57) Abstract :

An ink jet ink comprising water a water-soluble organic solvent a resin and an anionic heptamethine cyanine dye comprising a substituted or unsubstituted five or six ring in the heptamethine chain the dye having a maximum absorption between 800 and 1200 nm to increase drying speed and improve image quality when dried with NIR or CIR dryers.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016040 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THREE-DIMENSIONAL 3D KNITTED FABRIC AND METHOD OF MANUFACTURING SAME

(51) International classification	:D04B39/00A41D13/00
(31) Priority Document No	:20161884
(32) Priority Date	:28/11/2016
(33) Name of priority country	:Norway
(86) International Application No	:PCT/NO2017/050306
Filing Date	:28/11/2017
(87) International Publication No	:WO 2018/097737
(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)GRANBERG AS

Address of Applicant :Bjoavegen 1442 5584 Bjoa Norway

(72)Name of Inventor :

1)URBELIS, Virginijus

(57) Abstract :

A three-dimensional 3D knitted fabric knitted by a double-bed weft-knitting machine and method of manufacturing same the knitted 3D fabric comprises a top layer (1) a bottom layer (2) and an intermediate layer (3) wherein the top layer (1) and the bottom layer (2) are joined together by cross-yarns (7) constituting the intermediate layer (3) and wherein at least the top layer (1) comprises two-folded cut-resistant yarns (4 5).



No. of Pages : 27 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016041 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SILICONE COMPOSITION HAVING EXCELLENT HEAT DISSIPATION PROPERTIES

(51) International classification :C08L83/04C08K3/36C08K3/22  
(31) Priority Document No :10-2016-0154665  
(32) Priority Date :21/11/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No:PCT/KR2017/010010  
    Filing Date :12/09/2017  
(87) International Publication No :WO 2018/093030  
(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)KCC CORPORATION

Address of Applicant :344, Sapyeong-daero, Seocho-gu, Seoul  
06608 Republic of Korea

(72)Name of Inventor :

1)YOO, Il Hyuck

2)LEE, Jang Min

(57) Abstract :

The present invention relates to a silicone composition having excellent heat dissipation properties and being applicable to an electronic product and the like.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016042 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LENS MOVING MECHANISM

(51) International classification	:G02B7/02G03B21/14
(31) Priority Document No	:2016-213674
(32) Priority Date	:31/10/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/038737
Filing Date	:26/10/2017
(87) International Publication No	:WO 2018/079667
(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)THK CO., LTD.**

Address of Applicant :2-12-10, Shibaura, Minato-ku, Tokyo  
1088506 Japan

(72)Name of Inventor :

**1)HIROTA Jun**

**2)SHIMAMURA Marie**

**3)TATSUZUKI Hirokazu**

**4)FUKUSHIMA Hajime**

(57) Abstract :

This lens moving mechanism is equipped with a lens mount to which a lens for projecting light is mounted a guide unit that supports the lens mount while guiding the lens mount in three orthogonal axis directions including the optical axis of the light and a frame unit to which the guide unit is fixed. The guide unit is equipped with a plurality of linear-motion guide devices each equipped with a track rail that is fixed to the frame unit and a slider block that moves along the track rail. A plurality of the track rails are disposed coaxially on the frame unit.



No. of Pages : 30 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016043 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : LENS MOVING MECHANISM

(51) International classification :G02B7/02G02B7/04G03B21/14  
(31) Priority Document No :2016-213675  
(32) Priority Date :31/10/2016  
(33) Name of priority country :Japan  
(86) International Application No:PCT/JP2017/038729  
    Filing Date :26/10/2017  
(87) International Publication No :WO 2018/079663  
(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)THK CO., LTD.

Address of Applicant :2-12-10, Shibaura, Minato-ku, Tokyo  
1088506 Japan

(72)Name of Inventor :

1)HIROTA Jun

2)SHIMAMURA Marie

3)FUKUSHIMA Hajime

(57) Abstract :

This lens moving mechanism is equipped with a first lens guiding unit that guides a lens mount to which a lens for projecting light is mounted in two orthogonal axis directions from among three orthogonal axis directions that include the optical axis direction of the light. The first lens guiding unit is equipped with a first track rail and a second track rail disposed intersecting along the two orthogonal axis directions and one or a plurality of slider blocks mounted to both or either of the first track rail and the second track rail in a manner enabling relative movement therebetween. The one or plurality of slider blocks are disposed on an intersecting portion of the first track rail and the second track rail in one axis direction perpendicular to the two orthogonal axis directions or are disposed such that at least a portion of each overlap in the one axis direction.



No. of Pages : 31 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016176 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SEALING GASKET WITH CORRUGATED INSERT FOR SEALING RESTRAINED OR NON-RESTRAINED PLASTIC PIPELINES

(51) International classification :B29C45/14F16J15/02F16L17/02  
(31) Priority Document No :62/402352  
(32) Priority Date :30/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/051969  
Filing Date :18/09/2017  
(87) International Publication No :WO 2018/063838  
(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)S & B TECHNICAL PRODUCTS, INC.

Address of Applicant :1300 East Berry Street Fort Worth, TX 76119 U.S.A.

(72)Name of Inventor :

1)QUESADA, Guido

(57) Abstract :

A pipe sealing gasket is shown which is designed to be received within a raceway provided within a socket end of a female bell plastic pipe end which is assembled with a mating male spigot pipe end to form a plastic pipe joint. The raceway in the female bell plastic pipe end is preformed during manufacture and the gasket is installed thereafter. The gasket has a rubber body portion which is reinforced by a hard corrugated ring-shaped insert. The hard corrugated ring-shaped insert acts to prevent extrusion of the gasket during a variety of pressure conditions as well as preventing displacement during field assembly.



No. of Pages : 17 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016183 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THERMOPLASTIC COMPOSITION MOLDED PART MADE THEREOF AND USE THEREOF IN AUTOMOTIVE AND E&E APPLICATIONS

(51) International classification :C08L77/06C08G69/26C08K7/14  
(31) Priority Document No :16202807.0  
(32) Priority Date :08/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/081964  
Filing Date :08/12/2017  
(87) International Publication No :WO 2018/104503  
(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)DSM IP ASSETS B.V.

Address of Applicant :Het Overloon 1 6411 TE HEERLEN Netherlands

(72)Name of Inventor :

1)RULKENS, Rudy

(57) Abstract :

The invention relates to a thermoplastic composition comprising (A) a semi-aromatic copolyamide comprising repeat units derived from diamine consisting primarily of tetramethylene diamine and hexamethylene diamine or pentamethylene diamine and hexamethylene diamine and dicarboxylic acid consisting primarily of terephthalic acid having a VN of at least 100 mL/g; and (B) a reinforcing agent. The invention also relates to a plastic part made of the thermoplastic composition. The invention further relates to an automotive vehicle comprising a structural part made of the thermoplastic composition and to an electrical assembly comprising a plastic component made of the thermoplastic composition.

No. of Pages : 15 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016196 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MOBILE DEVICE FOR PROVIDING EXERCISE CONTENTS AND WEARABLE DEVICE CONNECTED THEREWITH

(51) International classification :A63B21/00A63B71/06A63B24/00  
(31) Priority Document No :10-2016-0157362  
(32) Priority Date :24/11/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/012593  
Filing Date :08/11/2017  
(87) International Publication No :WO 2018/097514  
(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)KIM, Jeong Yun

2)KONG, Ji Young

3)KIM, Sang Mi

4)KIM, Hyung

5)GU, Heum Mo

6)LIM, Jin Mook

(57) Abstract :

An electronic device includes a display a communication circuit wirelessly communicating with a wearable device a memory storing contents associated with exercise and a processor electrically connected with the display the communication circuit and the memory. The processor is configured to obtain information about an exercise program including a first section and a second section to output contents corresponding to the first section on the display and if data associated with the first section that is obtained from the wearable device satisfies a specified condition associated with the first section to output contents corresponding to the second section on the display.



No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016197 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CHEMFET ARRAY

(51) International classification	:G01N27/414
(31) Priority Document No	:1618749.4
(32) Priority Date	:07/11/2016
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2017/053304
Filing Date	:02/11/2017
(87) International Publication No	:WO 2018/083479
(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)DNAE DIAGNOSTICS LIMITED**

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(72)Name of Inventor :

**1)GARNER, David Michael**

**2)MOHTASHEMI, Darya**

**3)POON, Tuck Weng**

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(57) Abstract :

An array of pixels wherein each pixel comprises: a CHEMFET sensor; and a sigma delta ADC.



No. of Pages : 8 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016198 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR ISOMERIZING ORGANIC COMPOUND AND METHOD FOR PRODUCING ISOMER OF ORGANIC COMPOUND

(51) International classification :C07C17/358C07C19/10C07B61/00  
(31) Priority Document No :2016-214247  
(32) Priority Date :01/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/038957  
Filing Date :27/10/2017  
(87) International Publication No :WO 2018/084089  
(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)AGC INC.

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(72)Name of Inventor :

1)YAMADA Taku

2)SUZUKI Yusuke

3)KASAGAWA Mitsugu

(57) Abstract :

A useful evaluation method which enables the highly efficient production of partially fluorinated alumina having a good catalytic activity is discovered and an organic compound isomerization method whereby it becomes possible to improve a conversion rate in a desired isomerization reaction is provided. A method for isomerizing an organic compound comprising the steps of: selecting alumina having an acid amount of 0.10 to 0.25 mmol/g inclusive as calculated from an ammonia desorption amount at a desorption temperature of 300°C or higher by a temperature-programmed ammonia desorption method; fluorinating the selected alumina with a fluorinating agent to produce partially fluorinated alumina; and isomerizing an organic compound having two or more carbon atoms with the partially fluorinated alumina wherein the organic compound has such a structure that at least one fluorine atom is bonded to at least one of adjacent two carbon atoms and at least one atom selected from a chlorine atom and a hydrogen atom is bonded to the other of the adjacent two carbon atoms.



No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016044 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LENS MOVING MECHANISM

(51) International classification :G02B7/04G02B7/02G03B21/14  
(31) Priority Document No :2016-213673  
(32) Priority Date :31/10/2016  
(33) Name of priority country :Japan  
(86) International Application No:PCT/JP2017/038722  
    Filing Date :26/10/2017  
(87) International Publication No :WO 2018/079660  
(61) Patent of Addition to Application Number :NA  
    Application Number :NA  
    Filing Date :NA  
(62) Divisional to Application Number :NA  
    Filing Date :NA

(71)Name of Applicant :

1)THK CO., LTD.

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1088506 Japan

(72)Name of Inventor :

1)HIROTA Jun

2)SHIMAMURA Marie

3)FUKUSHIMA Hajime

(57) Abstract :

This lens moving mechanism is equipped with a guide unit that supports a lens mount to which a lens for projecting light is mounted while guiding the lens mount in three orthogonal axis directions including the optical axis direction of the light and a base member that supports a saddle guiding portion of the guide unit and is fixed to a projector body. The saddle guiding portion is equipped with first linear-motion guide devices that are fixed to the base member and guide the lens mount in a direction orthogonal to the optical axis said direction perpendicularly intersecting the optical axis direction of the light.



No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016047 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DEVICE FOR ENHANCING FUEL EFFICIENCY

(51) International classification	:F02M29/02F02M29/06
(31) Priority Document No	:10-2016-0125776
(32) Priority Date	:29/09/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/010725
Filing Date	:27/09/2017
(87) International Publication No	:WO 2018/062849
(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)PARK, Jong Pyo

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(72)Name of Inventor :

1)PARK, Jong Pyo

(57) Abstract :

The present invention relates to a device for enhancing fuel efficiency. To this end the present invention comprises: a first casing in which first and second rotary crushing parts are assembled at both ends of an inner central first injection hole and a fuel inlet is assembled at one side; a connector assembled on the other side of the first casing and having a second injection hole formed at the center thereof; a second casing assembled on the other side of the connector and having a fuel discharge outlet assembled to a discharge hole on the other side; and a fuel guiding means assembled inside the second casing and having first second third and fourth guiding pipes and first and second rotary guiding pipes for pulverizing and atomizing fuel and transferring the fuel to the other side. Due to the above feature the present invention can maximize energy efficiency by further atomizing various fuels injected into an engine such as gasoline light oil heavy oil kerosene etc. compared to prior art so that the fuel is completely combusted. As a result the present invention can greatly improve the quality and reliability of the device for enhancing fuel efficiency thereby satisfying various needs of user consumers and providing a good image.



No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016059 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYURETHANE RESIN FOR INK JET INK

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(51) International classification :C09D11/00C09D11/10C09D11/30  
(31) Priority Document No :16196224.6  
(32) Priority Date :28/10/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/076002  
Filing Date :12/10/2017  
(87) International Publication No :WO 2018/077624  
(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)AGFA NV

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(72)Name of Inventor :

1)VAN AERT, Hubertus

2)BERTELS, Ellen

3)LOCCUFIER, Johan

(57) Abstract :

A polyurethane resin having an anionic group and a polyalkylene oxide in a side chain thereof wherein the polyurethane resin is obtainable by reacting a polyester polyol a polyether diol a polyol containing an anionic group and a polyisocyanate and wherein the polyester polyol is obtained by reacting an aromatic polycarboxylic acid and a polyol. The polyurethane resin can be used as binder in an ink jet ink and provides excellent scratch and solvent resistance of printed images.

No. of Pages : 44 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016070 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CORRODIBLE DOWNHOLE ARTICLE

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(51) International classification :E21B33/12C22C23/06E21B34/06  
(31) Priority Document No :1700716.2  
(32) Priority Date :16/01/2017  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2018/050039  
Filing Date :09/01/2018  
(87) International Publication No :WO 2018/130816  
(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)**MAGNESIUM ELEKTRON LIMITED**

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(72)Name of Inventor :

1)**WILKS, Timothy**

2)**TURSKI, Mark**

3)**MURPHY, Matthew**

(57) Abstract :

This invention relates to a magnesium alloy suitable for use as a corrodible downhole article. The magnesium alloy comprises: (a) 2-7wt% Gd (b) 0-2wt% Y (c) 0-5.0wt% Nd and (d) at least 80wt% Mg and has an elongation as measured by ASTM B557M-10 of at least 22%. The invention also relates to a downhole tool comprising the magnesium alloy a method for producing a magnesium alloy and a method of hydraulic fracturing comprising the use of a downhole tool comprising the magnesium alloy.



No. of Pages : 10 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016071 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : APPARATUS AND CONTROL METHOD FOR DISPLAYING CONTENT OF PERIPHERAL DEVICE

(51) International classification	:H04N21/436H04N21/422H04N21/4722
(31) Priority Document No	:10-2016-0124192
(32) Priority Date	:27/09/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/009805
Filing Date	:07/09/2017
(87) International Publication No	:WO 2018/062715
(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)LEE, Hae-kwang

2)KIM, Hyung-joon

3)SEOK, Dong-ryun

4)HAHM, Cheul-hee

(57) Abstract :

A display apparatus for controlling a peripheral device and a method thereof are provided. The method may include transmitting to a remote controller a first turn-on signal to turn on the peripheral device; measuring a time interval between a first time when the display apparatus transmits the first turn-on signal to the remote controller and a second time when the display apparatus starts to receive content from the peripheral device in response to the first turn-on signal; and setting the measured time interval as a threshold time to determine whether the content is received from the peripheral device.



No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015867 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PURGE DEVICE FOR A SYSTEM FOR ADMINISTERING MEDICAL TREATMENT FLUIDS

(51) International classification :A61M39/22A61M39/10A61M5/14  
(31) Priority Document No :16/59014  
(32) Priority Date :26/09/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/052498  
Filing Date :19/09/2017  
(87) International Publication No :WO 2018/055274  
(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)DORAN INTERNATIONAL

Address of Applicant :67 chemin Neuf 69780 TOUSSIEU France

(72)Name of Inventor :

1)BUISSON, Philippe

2)FIORE, Brice

(57) Abstract :

This purge device comprises a connection element (3) comprising a plurality of fluid flow channels (12) which each comprise a proximal end (12.1) intended to be connected fluidically to a respective fluid flow conduit (5) of a flow tube (4) and a distal end (12.2) opposite the respective proximal end (12.1) and a plurality of fluid flow openings (15) which are each connected fluidically to a respective fluid flow channel (12); a closure element (16) comprising a fluid evacuation opening (19) and a closure part (21) the closure element (16) being mounted movably with respect to the connection element (3) and being configured to occupy a plurality of closure positions in each of which the closure part (21) closes the distal end (12.2) of a fluid flow channel (12) and the fluid evacuation opening (19) is connected fluidically to the fluid flow opening (15) associated with the fluid flow channel (12) of which the distal end is closed by the closure part (21); and a connection nozzle (22) intended to be connected to a catheter.



No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015876 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR PRODUCING A COMPOSITE PANE FOR A MOTOR VEHICLE

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(51) International classification	:B32B17/10
(31) Priority Document No	:16196251.9
(32) Priority Date	:28/10/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/073927
Filing Date	:21/09/2017
(87) International Publication No	:WO 2018/077547
(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)GILLESSEN, Stephan

2)BAUERLE, Pascal

3)BRIS, Jean Jacques

(57) Abstract :

The invention relates to a method for producing a composite pane (10) for a motor vehicle. The method involves heating the plastic film (16) at least in the region of the LED (18) into a fluid state by means of a heat source positioned on an outer surface of the first pane or the second pane or arranged at a distance from the outer surface of the first pane or the second pane and introducing the LED (18) into the plastic film (16) heated into the fluid state with displacement of a predefined volume (V) of the plastic film (16). After introducing the LED into the plastic film a laminating of the first pane (12) and the second pane (14) occurs with the interposition of the plastic film (16).



No. of Pages : 10 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015881 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : VEHICLE

(51) International classification :B62M25/04B60K31/00B60W30/14  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/JP2016/078505  
Filing Date :27/09/2016  
(87) International Publication No :WO 2018/061095  
(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)HONDA MOTOR CO., LTD.

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(72)Name of Inventor :

1)KANETA Hiroyuki

2)KURATA Hiroshi

3)SAWANO Yoshiaki

(57) Abstract :

The abnormality determination unit (66) of a motorcycle (10) determines the presence or absence of abnormalities in a clutch switch (32) and/or a cruise cancel switch (34) on the basis of the clutch operation signal (Sa) output from the clutch switch (32) and the cruise cancel signal (Sb) output from the cruise cancel switch (34).



No. of Pages : 22 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917015882 A

(19) INDIA

(22) Date of filing of Application :22/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : COUPLED FEW MODE FIBERS AND CORRESPONDING OPTICAL LINK AND OPTICAL SYSTEM

(51) International classification	:G02B6/028	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)DRAKA COMTEQ FRANCE</b>
(32) Priority Date	:NA	Address of Applicant :23 Avenue Aristide Briand 89100 Paron
(33) Name of priority country	:NA	France
(86) International Application No	:PCT/IB2016/001696	(72) <b>Name of Inventor :</b>
Filing Date	:04/11/2016	<b>1)SILLARD, Pierre</b>
(87) International Publication No	:WO 2018/083513	<b>2)MOLIN, Denis</b>
(61) Patent of Addition to Application Number	:NA	<b>3)BIGOT, Marianne</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An optical fiber (10) comprises an optical core (11) and an optical cladding (30 50) surrounding the optical core the optical core having a single a graded-index profile with a =1 a being a non-dimensional parameter that defines the index profile shape of the optical core and the optical core having a maximal refractive index ncoat its center; the optical cladding has at its outer edge a refractive index ncl and comprises a region (12) of depressed refractive index ntrench called a trench with a negative refractive index difference nt = ntrench- ncl with respect to said optical cladding the trench having an outer radius Rtrench - According to embodiments of the disclosure the optical core and cladding are configured to support propagation of at least six spatial modes and at maximum fifty-five spatial modes at an operating wavelength between and including 1460 nm and 1675 nm and the optical core satisfies an ovality criterion between 0.05 and 0.3 when said ovality criterion is measured at a circumference of equal index neq within said core such that neq = neq- ncl is less than 75% of nco = nco- ncl said ovality criterion o being defined by the following equation: 0 = a - b / a + b where a is a length of a semi-major axis of said circumference and b is a length of a semi-minor axis of said circumference.



No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016223 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BEVERAGE COMPOSITION USEFUL IN BEVERAGE CAPSULES

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(51) International classification	:A23F5/26A23F5/40
(31) Priority Document No	:62/438578
(32) Priority Date	:23/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2017/082791
Filing Date	:14/12/2017
(87) International Publication No	:WO 2018/114580
(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)PALZER, Stefan  
2)JUNG, Marie-Laure  
3)SARRAZIN-HORISBERGER, C@line  
4)MAHARAJ, Amrit  
5)NIEDERREITER, Gerhard**

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(57) Abstract :

The present invention relates to beverage compositions useful in beverage capsules and their preparation particularly to beverage compositions comprising roast and ground coffee and dried coffee extract obtained by extracting coffee at a temperature below 60°C. Such capsules are useful for the preparation of coffee beverages in beverage preparation machines.

No. of Pages : 10 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016224 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NON-SOLVATED CRYSTAL PREPARATION METHOD AND APPLICATION THEREOF

(51) International classification :C07D215/233A61K31/47A61P29/00  
(31) Priority Document No :201610856945.2  
(32) Priority Date :27/09/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/103620  
Filing Date :27/09/2017  
(87) International Publication No :WO 2018/059429  
(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)**LU, Xianping**  
2)**LI, Zhibin**

(57) Abstract :

The invention relates to non-solvated crystals A B and C of N-(2-aminophenyl)-6-(7-methoxyquinoline-4-oxy)-1-naphthamide and preparation methods thereof. The invention also relates to pharmaceutical compositions containing the crystals and a use of the crystals in preparation of a medicament for the treatment of a disease associated with abnormal protein kinase activity or abnormal histone deacetylase activity.



No. of Pages : 14 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016234 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SUBSTITUTED PHENYLPROPIONIC ACID ENANTIOMER AND MANUFACTURING METHOD COMPOSITION AND APPLICATION OF SAME

(51) International classification :C07D209/86A61K31/403A61P3/00  
(31) Priority Document No :201610856914.7  
(32) Priority Date :27/09/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/103619  
Filing Date :27/09/2017  
(87) International Publication No :WO 2018/059428  
(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)YU, Jindi  
2)PAN, Desi  
3)SHAN, Song  
4)LI, Zhibin  
5)LU, Xianping

(57) Abstract :

The present invention discloses an enantiomeric compound (-)-2-[(2-(4-fluorobenzoyl)phenyl)amine]-3-[(4-(2-carbazole-ethoxy)phenyl)]propionic acid as represented by formula (I) or a pharmaceutical salt thereof and a manufacturing method of the compound and application of same. The enantiomeric compound demonstrates relatively better activation of RXR/PPAR-RXR/PPAR- and RXR/PPAR-heterodimer expression and sugar reduction in a db/db mouse model compared to a (+)-enantiomer.



No. of Pages : 22 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016236 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FLOOR PANEL AND METHOD FOR MANUFACTURING A FLOOR PANEL

(51) International classification :E04F15/10B32B5/02B32B27/30  
(31) Priority Document No :62/420094  
(32) Priority Date :10/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2017/056856  
Filing Date :03/11/2017  
(87) International Publication No:WO 2018/087638  
(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)VAN VLASSENRODE, Kristof  
2)BRUSSEEL, Paul  
3)VANHULLE, Nick  
4)BOSSUYT, Jochen

(57) Abstract :

Floor panel (1) with a substrate (2) and a decoration (3) provided thereon characterized in that the substrate (2) comprises at least a foamed layer (4) of thermoplastic material and at least a reinforcement layer (8). The invention further also relates to a method for manufacturing such floor panels (1).



No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016237 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR TRANSMITTING INFORMATION TERMINAL DEVICE AND NETWORK DEVICE

(51) International classification	:H04W28/04	(71) <b>Name of Applicant :</b> <b>1)GUANGDONG OPPO MOBILE TELECOMMUNICATIONS CORP., LTD.</b> Address of Applicant :No.18, Haibin Road, Wusha, Chang'an Dongguan, Guangdong 523860 China
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CN2016/113825	
Filing Date	:30/12/2016	
(87) International Publication No	:WO 2018/120159	
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)LIN, Yanan</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a method for transmitting information a terminal device and a network device. The method comprises: a terminal device receives a target channel transmitted by a network device the target channel comprising a broadcast channel or a multicast channel; the terminal device when the reception result of the target information satisfies an agreed condition determines to transmit target information to the network device; the terminal device determines in at least one transmission resource a target transmission resource for use in transmitting the target information; and the terminal device transmits the target information to the network device on the target transmission resource the target information transmitted on the target resource being used for indicating the reception result of the target channel to the network device. The network device is capable of acquiring the reception state of a channel thus providing guidance for subsequent channel transmissions on the basis of the current channel reception state and significantly increasing the demodulation performance and transmission efficiency of the channel.



No. of Pages : 44 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016246 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : TETRAHYDROPYRIDINE DERIVATIVES AND THEIR USE AS ANTIBACTERIAL AGENTS

(51) International classification :C07D211/70C07D401/10A61K31/4418  
(31) Priority Document No :62/400694  
(32) Priority Date :28/09/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/KR2017/010896  
Filing Date :28/09/2017  
(87) International Publication No :WO 2018/062924  
(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)**CHOI, Sun-Ho**

2)**IM, Weon-Bin**

3)**CHOI, Sung-Hak**

4)**CHO, Chong-Hwan**

5)**MOON, Ho-Sang**

6)**PARK, Jung-Sang**

7)**LEE, Min-Jung**

8)**SUNG, Hyun-Jung**

9)**MOON, Jun-Hwan**

10)**SONG, Seung-Hyun**

11)**LEE, Hyung-Keun**

12)**CHOI, Ji-Hoon**

13)**PARK, Cheon-Hyoung**

14)**KIM, Yoon-jung**

15)**KIM, Jin-hyuk**

(57) Abstract :

The present disclosure relates to a novel tetrahydropyridine derivative compound a stereoisomer thereof or a pharmaceutically acceptable salt thereof methods for preparing the compounds methods for inhibiting UDP-3-O-(R-3-hydroxymyristoyl)-N-acetylglucosamine deacetylase (LpxC) methods for treating Gram-negative bacterial infections the use of the compounds for the preparation of therapeutic medicaments for treating Gram-negative bacterial infections and pharmaceutical compositions for prevention or treatment of Gram-negative bacterial infections which contain the compounds. The compounds represented by formula I stereoisomers thereof or pharmaceutically acceptable salts thereof according to the present disclosure can exhibit excellent effects on the treatment bacterial infections.

No. of Pages : 87 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016079 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : COMPOSITE PANE AND METHOD FOR MANUFACTURING A COMPOSITE PANE

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(51) International classification	:B32B17/10
(31) Priority Document No	:16196248.5
(32) Priority Date	:28/10/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/073921
Filing Date	:21/09/2017
(87) International Publication No	:WO 2018/077546
(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)GILLESSEN, Stephan

2)BAUERLE, Pascal

3)BRIS, Jean Jacques

(57) Abstract :

The invention relates to a composite pane for a motor vehicle comprising a first pane and a second pane which are laminated with an intermediate plastic film. At least one depression (18) which extends in the direction of the first pane (12) and in which a light emitting diode is arranged is introduced into the plastic film (16); a light emitting side of the light emitting diode faces the first pane.



No. of Pages : 11 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016082 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MULTILAYER STRUCTURES ARTICLES COMPRISING THE SAME AND METHODS OF MAKING MULTILAYER STRUCTURES

(51) International classification :B32B15/08B32B15/085B32B15/20  
(31) Priority Document No :62/406978  
(32) Priority Date :12/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056098  
Filing Date :11/10/2017  
(87) International Publication No :WO 2018/071513  
(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 :2040 Dow Center Midland, MI 48674 U.S.A.

(72)Name of Inventor :

1)HU, Yushan  
2)KUPSCH, Eva-Maria

(57) Abstract :

Embodiments of the present invention relate to multilayer structures packages formed therefrom and methods of preparing multilayer structures. In one aspect a multilayer structure comprises a polyolefin layer which is Layer A a tie layer which is Layer B and a barrier layer which is Layer C each layer having opposing facial surfaces. In some embodiments of the multilayer structure: Layer A has a top facial surface and a bottom facial surface and comprises polypropylene; Layer B has a top facial surface and a bottom facial surface and comprises: a) a crystalline block copolymer composite (CBC) comprising: i) a crystalline ethylene based polymer (CEP) comprising at least 90 mol % polymerized ethylene; ii) an alpha-olefin-based crystalline polymer (CAOP); and iii) a block copolymer comprising (a) a crystalline ethylene block (CEB) comprising at least 90 mol % polymerized ethylene and (b) a crystalline alpha-olefin block (CAOB); b) maleic anhydride grafted polyethylene or maleic anhydride grafted polypropylene; and c) low density polyethylene; and Layer C comprises a metal foil and has a top facial layer and a bottom facial surface the top facial surface of Layer C being in adhering contact with the bottom facial surface of Layer B and the top facial surface of Layer B being in adhering contact with the bottom facial surface of Layer A.



No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :23/04/2019

(21) Application No.201917016084 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : REFRIGERATION DEVICE

(51) International classification	:F25B41/04F24F11/02F25B1/00
(31) Priority Document No	:2016-192560
(32) Priority Date	:30/09/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/035632
Filing Date	:29/09/2017
(87) International Publication No	:WO 2018/062528
(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)YAMADA, Takuro**

**2)NAKAGAWA, Yuusuke**

**3)OKA, Yuusuke**

**4)HONDA, Masahiro**

(57) Abstract :

The present invention inhibits reduced reliability. A refrigeration device for performing a refrigeration cycle in a refrigerant circuit (RC) in an air conditioning system (100) the refrigeration device being provided with an outdoor heat exchanger (20) an indoor heat exchanger (32) a first control valve (41) and second control valve (42) a third control valve (43) and a pressure adjustment unit (44). The first control valve (41) and the second control valve (42) block the flow of refrigerant when completely closed and are disposed on a gas-side refrigerant flow channel (GL). The gas-side refrigerant flow channel (GL) is disposed between the outdoor heat exchanger (20) and the indoor heat exchanger (32). The third control valve (43) blocks the flow of refrigerant when completely closed and is disposed on a liquid-side refrigerant flow channel (LL). The liquid-side refrigerant flow channel (LL) is disposed between the outdoor heat exchanger (20) and the indoor heat exchanger (32). The pressure adjustment unit (44) adjusts the pressure of the refrigerant in an indoor-side refrigerant flow channel (IL). The indoor-side refrigerant flow channel (IL) is disposed between the first control valve (41) and the second control valve (42) or between the third control valve (43) and the indoor heat exchanger (32). The pressure adjustment unit (44) includes a pressure adjustment valve (45). The pressure adjustment valve (45) diverts refrigerant in the indoor-side refrigerant flow channel (IL) to an outdoor-side refrigerant flow channel (OL). The outdoor-side refrigerant flow channel (OL) is disposed between the first control valve (41) and the second control valve (42) or between the third control valve (43) and the outdoor heat exchanger (20).



No. of Pages : 54 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015883 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYNCHRONISER RING

(51) International classification	:F16D23/02F16D23/06	(71)Name of Applicant :
(31) Priority Document No	:10 2016 013 716.9	<b>1)DIEHL METALL STIFTUNG &amp; CO. KG</b>
(32) Priority Date	:17/11/2016	Address of Applicant :Heinrich-Diehl-Str. 9 90552
(33) Name of priority country	:Germany	Rüthenbach Germany
(86) International Application No	:PCT/EP2017/001244	(72)Name of Inventor :
Filing Date	:24/10/2017	<b>1)ERDMANN, Knut</b>
(87) International Publication No	:WO 2018/091125	<b>2)ARBAK, Murat</b>
(61) Patent of Addition to Application Number	:NA	<b>3)D-RNH-FER, Martin</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a synchroniser ring which is made of steel and has a main body (1) having a conical friction surface (2) a toothing (3) and at least one blocking body (4) protruding radially outwards from the main body (1). The blocking body (4) has an engagement section (6) extending in an axial direction. The engagement section (6) has a first edge (11) which runs approximately parallel to a first end face (S1) of the main body (1) and is of a first width (B1) extending in the circumferential direction and two mutually opposite second edges (12) which extend from the first edge (11). According to the invention to improve the durability of the synchroniser ring the second edges (12) have a convex curvature when the engagement section (6) is viewed from above and a second width (B2) which extends in the circumferential direction between the second edges (12) is greater than the first width (B1) at a depth T2 spaced from the first edge (11).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015884 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WIRE HARNESS AND WIRE HARNESS MANUFACTURING METHOD

(51) International classification :H01B7/00H01B13/012  
(31) Priority Document No :2016-220186  
(32) Priority Date :11/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/038177  
    Filing Date :23/10/2017  
(87) International Publication No :WO 2018/088183  
(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)SUMITOMO WIRING SYSTEMS, LTD.  
3)SUMITOMO ELECTRIC INDUSTRIES, LTD.

(72)Name of Inventor :

1)MIZUNO Housei  
2)HIRAI Hiroki  
3)HIGASHIKOZONO Makoto  
4)ISHIDA Hidetoshi  
5)KASUGAI Masakuni

(57) Abstract :

A purpose of the present invention is to provide a technology that can allow one outer packaging member to easily address both a region that is arranged flat and a region that is arranged bent within a wire harness. This wire harness comprises: an outer packaging member that is formed in a sheet shape; at least one electrical wire that is arranged on one main surface side of the outer packaging member; and a sewing thread that stitches the electrical wire to the outer packaging member. One partial region of the outer packaging member along an extension direction of the electrical wire is in a flat condition while at least one other partial region of the outer packaging member along the extension direction of the electrical wire is curved in a direction intersecting the extension direction of the electrical wire.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015885 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SUPERABSORBENT POLYMER AND METHOD FOR PRODUCING SAME

(51) International classification	:C08J3/24C08K3/30C08J3/20
(31) Priority Document No	:10-2016-0141764
(32) Priority Date	:28/10/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/012013
Filing Date	:27/10/2017
(87) International Publication No	:WO 2018/080238
(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)LG CHEM, LTD.

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(72)Name of Inventor :

1)KIM, Su Jin

2)NAM, Dae Woo

3)JANG, Tae Hwan

4)KIM, Jun Kyu

5)SEONG, Bo Hyun

6)JUNG, Seon Jung

7)JEONG, Ji Yoon

---

(57) Abstract :

The present invention relates to a superabsorbent polymer which exhibits more improved liquid permeability while maintaining excellent absorption performance and suppresses aggregation and caking of particles even under high temperature/high humidity conditions and to a method for producing the same. The superabsorbent polymer comprises: a base resin powder comprising a first crosslinked polymer of a water-soluble ethylenically unsaturated monomer having at least partially neutralized acidic groups; and a surface cross-linked layer formed on the base resin powder and comprising a second cross-linked polymer in which the first cross-linked polymer is further cross-linked via a surface cross-linking agent wherein the superabsorbent polymer comprises aluminum sulfate dispersed in the surface cross-linked layer and alumina dispersed on the surface cross-linked layer.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :22/04/2019

(21) Application No.201917015886 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : GAS ANALYSER

(51) International classification :G01N21/76G02B7/00H01L23/34  
(31) Priority Document No :1659486  
(32) Priority Date :03/10/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/052710  
Filing Date :03/10/2017  
(87) International Publication No :WO 2018/065718  
(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)AKIKI, Rony

2)TONNELIER, Thierry

3)ANTHOINE, Pascal

(57) Abstract :

Gas analyser (13) comprising: - a reaction chamber (14) configured to be supplied with gas and to generate photons through chemiluminescence reaction - means for detecting photons emitted in said chamber comprising a photomultiplier (40) of elongated shape - a tube (66) supporting said photomultiplier said photomultiplier being mounted coaxially inside said tube - means (73 76) for cooling said tube preferably by Peltier effect and - a casing (38) defining a housing enclosure (43) for at least one part of the photomultiplier said tube and said cooling means said enclosure being isolated from said reaction chamber characterised in that it further comprises means (50a) for placing said enclosure under at least a partial vacuum said tube being tightly fitted to said photomultiplier such that the latter is conduction-cooled by said cooling means.



No. of Pages : 16 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016248 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR PRODUCING ACRYLIC RUBBER

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(51) International classification :C08F2/24C08F6/22C08F20/18  
(31) Priority Document No :2016-213493  
(32) Priority Date :31/10/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/039179  
    Filing Date :30/10/2017  
(87) International Publication No :WO 2018/079785  
(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)SATO, Susumu

2)MASUDA, Hirofumi

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(57) Abstract :

Provided is a method for producing an acrylic rubber the method being provided with: an emulsion polymerization step for obtaining an emulsified polymer solution by emulsion-polymerizing a monomer in the presence of a nonionic emulsifier and an anionic emulsifier the monomer being a monomer for forming the acrylic rubber; and a coagulation step for obtaining a water-containing crumb rubber by adding a coagulating agent to the emulsified polymer solution to be coagulated. According to the present invention a method for producing an acrylic rubber may be provided wherein the occurrence of the contamination of a polymerization device during polymerization can be suitably suppressed and the occurrence of mutual adhesion of water-containing crumb rubbers can be effectively prevented.

No. of Pages : 51 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016251 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHODS DEVICES AND STREAM TO PROVIDE INDICATION OF MAPPING OF OMNIDIRECTIONAL IMAGES

(51) International classification :H04N19/70H04N19/46G06T17/10  
(31) Priority Document No :16306265.6  
(32) Priority Date :30/09/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/074658  
Filing Date :28/09/2017  
(87) International Publication No :WO 2018/060347  
(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)LELEANNEC, Fabrice

2)GALPIN, Franck

3)RATH, Gagan

(57) Abstract :

Methods apparatus or systems for encoding and decoding sequence of images using mapping indication of an omnidirectional video into a 2D video are disclosed. The images to encode are omnidirectional images. According to different embodiments the mapping indication comprises a first item representative of the type of surface used for the mapping belonging to a group comprising at least one of an equirectangular mapping a cube mapping or a pyramid mapping. The indication is used to drive the encoding decoding or rendering process.



No. of Pages : 36 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016253 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF ETHYLENICALLY UNSATURATED CARBOXYLIC ACID ESTERS AND A CATALYST THEREFOR

(51) International classification	:C07C67/343C07C69/54
(31) Priority Document No	:1617534.1
(32) Priority Date	:14/10/2016
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/GB2017/053075 :11/10/2017
(87) International Publication No	:WO 2018/069702
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

(71)**Name of Applicant :**

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Address of Applicant :Cassel Works New Road Billingham TS23 1LE U.K.

(72)**Name of Inventor :**

**1)EASTHAM, Graham Ronald**

**2)IGGO, Jonathan Ainsley**

**3)BEAUMONT, Michael**

(57) Abstract :

A process for the production of an ethylenically unsaturated carboxylic acid ester preferably an a ethylenically unsaturated carboxylic acid ester is described. The process takes place by the reaction of formaldehyde or a suitable source thereof with a carboxylic acid ester in the presence of a basic metal methyl carbonate co-reactant wherein the process produces a second basic metal salt and wherein the process includes the step of contacting the second basic metal salt with: a)carbon dioxide (CO<sub>2</sub>) and optionally methanol and/or b)dimethyl carbonate to regenerate the basic metal methyl carbonate co-reactant. The invention includes use of carbon dioxide and/or dimethyl carbonate to regenerate a basic metal methyl carbonate.



No. of Pages : 35 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016254 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SEPARATOR FOR BATTERY TO WHICH FUNCTIONAL BINDER IS APPLIED AND ELECTROCHEMICAL DEVICE APPLYING SAME

(51) International classification :H01M2/16H01M10/42H01M2/14  
(31) Priority Document No :10-2017-0002219  
(32) Priority Date :06/01/2017  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2018/000309  
Filing Date :05/01/2018  
(87) International Publication No :WO 2018/128484  
(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 :

1)NAM, Kwan Woo

2)YOON, Su Jin

3)KWON, Hye Jin

4)KIM, Chan Jong

5)LEE, Je An

(57) Abstract :

The present invention relates to: a functional binder in a separator that comprises a porous polyolefin substrate and an organic-inorganic composite porous coating layer which includes a mixture of a binder compound with inorganic particles formed on at least one surface of the substrate; and a separator comprising the same wherein the functional binder can increase adhesion between a binder and an inorganic material and between a substrate and a binder while pre-empting an internal short-circuit through a self-healing function for partial damage of the separator improve adhesion of the separator to a cathode and an anode and respond to elution of a cathode material transition metal. In the binder according to the present invention the proportion of the hydroxyl group in each molecule is 10% by weight or more.



No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016255 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A METHOD AND A SYSTEM FOR PRODUCING GLYCOLIC ACID AND/OR GLYCOLATE

(51) International classification :C07C51/235C07C51/285C07C59/06  
(31) Priority Document No :PA 2016 00728  
(32) Priority Date :24/11/2016  
(33) Name of priority country :Denmark  
(86) International Application No :PCT/EP2017/080065  
    Filing Date :22/11/2017  
(87) International Publication No :WO 2018/095973  
(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 :**

1) OSMUNDSEN, Christian Mrup  
2) TAARNING, Esben

(57) Abstract :

A method and a system for producing glycolic acid and/or glycolate from sustainable resources.

No. of Pages : 16 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016256 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A THERMOCHEMICAL REACTOR SYSTEM FOR A TEMPERATURE SWING CYCLIC PROCESS WITH INTEGRATED HEAT RECOVERY AND A METHOD FOR OPERATING THE SAME

(51) International classification :B01J8/06B01J19/24B22F9/30  
(31) Priority Document No :16194074.7  
(32) Priority Date :17/10/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/075804  
    Filing Date :10/10/2017  
(87) International Publication No :WO 2018/073049  
(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 :

1)STEINFELD, Aldo

2)FURLER, Philipp

3)HASELBACHER, Andreas

4)GEISSBHOLER, Lukas

(57) Abstract :

The present invention relates to a thermochemical reactor system for a temperature swing cyclic process with integrated heat recovery comprising at least two modules wherein each module comprises at least one chemical reaction zone (CRZ) and at least one thermal energy storage unit (TES) wherein the at least two modules are operationally connected for at least one heat transfer fluid (HTF) for transporting heat between the two modules wherein each chemical reaction zone (CRZ) comprises at least one reacting material that undergoes in a reversible manner an endothermic reaction at temperature Tendo and an exothermic reaction at temperature Texo wherein Tendo and Texo differ from each other wherein the at least one reacting material is provided in at least one encapsulation within each of the chemical reaction zones (CRZ) such that a contact of the reacting material and the at least one heat transfer fluid is avoided. The present invention relates further to a method for operating such a reactor system.



No. of Pages : 33 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917016257 A

(19) INDIA

(22) Date of filing of Application :24/04/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : AIR-CONDITIONING APPARATUS

(51) International classification	:F25B1/00F24F11/02F25B5/00
(31) Priority Document No	:2016-192557
(32) Priority Date	:30/09/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/034761
Filing Date	:26/09/2017
(87) International Publication No	:WO 2018/062188
(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 :

1)YAMADA, Takuro

2)NAKAGAWA, Yuusuke

3)HONDA, Masahiro

4)OKA, Yuusuke

(57) Abstract :

An air-conditioning apparatus provided with a liquid pressure adjustment expansion valve for decompressing refrigerant so that the refrigerant flowing in a liquid refrigerant connection pipe to an outdoor liquid refrigerant pipe connecting the liquid-side end of an outdoor heat exchanger and the liquid refrigerant connection pipe reaches a gas-liquid two-phase state wherein two-phase delivery of the refrigerant is performed effectively while an increase in the discharge temperature of a compressor is suppressed. A liquid injection pipe (46) for branching a portion of the refrigerant flowing in the outdoor liquid refrigerant pipe (34) and sending the refrigerant to the compressor (21) is connected to the portion of the outdoor liquid refrigerant pipe (34) closer to the outdoor heat exchanger (23) than to the liquid pressure adjustment expansion valve (26).



No. of Pages : 53 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016258 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEVICE WITH BUILT-IN ACTIVE FILTER

(51) International classification :H02M1/12H02J3/01H02M7/12  
(31) Priority Document No :2016-239707  
(32) Priority Date :09/12/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/044217  
    Filing Date :08/12/2017  
(87) International Publication No :WO 2018/105737  
(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 :

1)KONO Masaki  
2)KAWASHIMA Reiji  
3)FUJITA Takayuki

(57) Abstract :

A device with a built-in active filter has the built-in active filter device (4) and is connected to an AC power supply (3) wherein the active filter device (4) is configured so as to operate on the basis of a detection value detected by a load information detection unit (5) for detecting load information of the AC power supply (3) at the outside of the device with the built-in active filter.



No. of Pages : 67 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016259 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ENHANCED BROADBAND OPERATION OF AN ACTIVE MIXER

---

(51) International classification	:H04B1/26
(31) Priority Document No	:62/430774
(32) Priority Date	:06/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/064740
Filing Date	:05/12/2017
(87) International Publication No	:WO 2018/106708
(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 :

**1)YU, Xinmin**

**2)GATHMAN, Timothy, Donald**

**3)LEUNG, Lai, Kan**

---

(57) Abstract :

Methods systems and devices for wireless communication are described for enhanced broadband operation of an active mixer. In an example an apparatus may include an active mixer that converts between radio frequency (RF) signals and intermediate frequency (IF) signals based at least in part on an alternating current (AC) local oscillator (LO) signal wherein a direct current (DC) current generated within the active mixer is dependent in part on a bias voltage and the AC LO signal. The apparatus may include a mixer biasing circuit that generates the bias voltage for the active mixer a magnitude of the bias voltage having an inverse relationship to an amplitude of the AC LO signal.



No. of Pages : 37 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/08/2016

(21) Application No.201611026615 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MAGTRANSCHAIR: A MODULAR ROBOT THAT CAN CHANGE ITS SHAPE AS PER NEED AND CAN MOVE ON ANY TERRAIN AND ON ANY TYPE AND SIZE OF STAIRS OR OBSTACLE

(51) International classification	:B60B15/025
(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

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(72)**Name of Inventor :**

**1)Tejinder Singh**

(57) Abstract :

The present inventionMagTransChairrelates to an invention of a modular robot which can move on multiple terrains like road, off-road, snow, sand etc. Also it can move on any type and size of stairs or obstacles. The robot will be made of interactions of one primary part called MagTransRods. The interaction of this primary part will produce necessary configurations and movements required by the robot

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :27/12/2018

(21) Application No.201817049478 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SECURITY CONTEXT HANDLING IN 5G DURING IDLE MODE

(51) International classification :H04W12/04H04W36/14H04W60/02  
(31) Priority Document No :62/452267  
(32) Priority Date :30/01/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2018/052154  
Filing Date :29/01/2018  
(87) International Publication No :WO 2018/138348  
(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 :

1)BEN HENDA, Noamen

2)JOST, Christine

3)NORRMAN, Karl

4)WIFVESSON, Monica

(57) Abstract :

The present disclosure relates to methods and apparatus for flexible security context management during AMF changes. One aspect of the disclosure is a mechanism for achieving backward security during AMF changes in idle mode. Instead of passing the current NAS key to the target AMF the source AMF derives a new NAS key provides the new NAS key to the target AMF along with a key change indication indicating that the NAS key has changed. The target AMF sends the key change indication to the user equipment.



No. of Pages : 29 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018271 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MEASUREMENT CONFIGURATION FOR ACTIVE MODE MOBILITY MEASUREMENTS

(51) International classification	:H04W36/00
(31) Priority Document No	:62/421695
(32) Priority Date	:14/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2017/057106
Filing Date	:14/11/2017
(87) International Publication No	:WO 2018/087735
(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 :

1)DA SILVA, Icaro L. J.

2)REIAL, Andres

(57) Abstract :

According to some embodiments, a method for use in a wireless device of performing radio resource management (RRM) measurements for mobility in a wireless network comprises obtaining a measurement configuration for measuring mobility signals in connected mode. The measurement configuration includes a reference signal type. The reference signal type indicates a particular type of reference signal of a plurality of possible reference signal types (e.g., PSS, SSS, DMRS, CSI-RS). The method further comprises configuring the wireless device to measure a reference signal of the indicated type; receiving the reference signal of the indicated type; and measuring the reference signal according to the measurement configuration.



No. of Pages : 36 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018279 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : USE OF VOLATILE COMPOSITIONS TO LIMIT OR ELIMINATE PERCEPTION OF FECAL MALODOUR

(51) International classification :A61L9/013A61L9/04A61L9/14  
(31) Priority Document No :62/424072  
(32) Priority Date :18/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/079665  
    Filing Date :17/11/2017  
(87) International Publication No :WO 2018/091686  
(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)ROGERS, Matthew

3)MARR, Gary

4)VUILLEUMIER, Christine

5)SMITH, Ben

6)CHAPUIS, Christian

7)STARKENMANN, Christian

8)CHAPPUIS, Charles

9)O'LEARY, Nicholas

(57) Abstract :

The present disclosure relates to the field of malodour counteraction. More particularly, it concerns the use of volatile compositions to limit, decrease or eliminate the perception of fecal malodour. Such compositions include a malodour antagonist system associated with perfuming ingredients performing as malodour counteractant, in a combination that significantly reduces the perception of fecal malodour. Such compositions, their use in combination with delivery systems and their applications in consumer products are objects of the present disclosure.



No. of Pages : 72 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018280 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : USER TERMINAL AND RADIO COMMUNICATIONS METHOD

(51) International classification :H04W72/04H04L27/26H04W28/06  
(31) Priority Document No :2016-214704  
(32) Priority Date :01/11/2016  
(33) Name of priority country:Japan  
(86) International Application No :PCT/JP2017/039286  
Filing Date :31/10/2017  
(87) International Publication No :WO 2018/084137  
(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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Tokyo 1006150 Japan

(72)Name of Inventor :

1)TAKEDA, Kazuki  
2)MATSUMURA, Yuki  
3)TAKEDA, Kazuaki  
4)NAGATA, Satoshi  
5)WANG, Lihui

(57) Abstract :

In order to appropriately transmit uplink control information (UCI) in future wireless communications systems, this user terminal comprises: a transmission unit that sends uplink control information (UCI) by using at least one among a plurality of slots having different UL period time lengths; and a control unit that controls transmission of the UCI. The control unit controls the uplink (UL) control channel used for transmission of the UCI, on the basis of an explicit instruction from a wireless base station or an implicit determination by a user terminal.



No. of Pages : 85 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/07/2018

(21) Application No.201814025435 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FORMWORK

(51) International classification	:E04B1/2604	(71) <b>Name of Applicant :</b> <b>1)Steadiform Holdings Pty Ltd</b> Address of Applicant :20 Beltana Road, Pialligo ACT 2609, Australia Australia
(31) Priority Document No	:AU 2018200694	
(32) Priority Date	:30/01/2018	
(33) Name of priority country	:Australia	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)Elias Joseph Taleb</b>
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 building formwork module for use in a modular formwork system, the module comprising a first wall spaced away from a second wall, the first and second walls being connected by at least one web extending between the first and second walls, the first and second walls and said at least one web defining a channel extending over at least a part of a longitudinal length of the module, the channel adapted to accommodate fill material during use, the web further comprising at least two apertures spaced apart across the web in between the first and second walls such that during use one or more transverse reinforcing members can be positioned in between reinforcing members received in the spaced apart apertures thereby limiting movement of the transverse reinforcing member therebetween during use, and wherein the formwork module further comprises a first connecting mechanism for facilitating connection of the formwork module to an adjacently positioned formwork module, the first connecting mechanism comprising a projection extending substantially outwardly from the first wall and/or the second wall from a point spaced inwardly from a lateral end of the first wall and/or the second wall, the projection being adapted to engage with a notch located on the first wall and/or second wall of the adjacently positioned formwork module, thereby positionally locking the formwork module with the adjacently positioned module.



No. of Pages : 49 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018687 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONTAINER CAP WITH CONDITIONAL INDICATION AND LOCKING MECHANISM

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(51) International classification	:A61J7/04E05B47/00
(31) Priority Document No	:62/412339
(32) Priority Date	:25/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2017/001422
Filing Date	:25/10/2017
(87) International Publication No	:WO 2018/078441
(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 :

**1)BENTKOVSKI, Yakov**

(57) Abstract :

An assembly for controlling access to contents of a container includes a cap configured to close the container when mounted thereon; a plurality of sensors configured to sense environmental, physical and/or temporal conditions on the cap; and a processor configured to process data from one or more of the sensors based upon the sensed environmental, physical and/or temporal conditions and configured to provide an indication to a user of recommended access to the container. In certain embodiments, the assembly also includes an electromechanical locking unit configured to selectively lock the cap onto the container and to unlock the cap from the container to allow access to the container, and the processor is configured to unlock the electromechanical locking unit to allow the cap to be detached from the container upon fulfillment of one or more predetermined environmental, physical and/or temporal conditions.

No. of Pages : 19 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018688 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BRAKING DEVICE FOR MOTORCYCLIST GEAR AND SIMILAR

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(51) International classification	:A41D13/015A41D27/12
(31) Priority Document No	:U201600712
(32) Priority Date	:20/10/2016
(33) Name of priority country	:Spain
(86) International Application No	:PCT/ES2017/000117
Filing Date	:27/09/2017
(87) International Publication No	:WO 2018/073464
(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 :

**1)MARTINEZ SANTANO, David**

(57) Abstract :

The invention relates to a device consisting of a rubber strip or similar that can be multiply inserted into any protective garment, for example overalls, jackets and trousers made from leather, Cordura® or any other manufactured material, gloves boots and even helmets, the strip being non-slip and disposed on a cushioned or stiff base for attachment/integration into the garment in question. Using this structure, the rubber strips, owing to their elasticity and adherence, resist the sliding of the motorcyclist, thereby considerably reducing the speed at which the motorcyclist moves until coming to a stop. (ES) The device consists of a rubber band or the like, implantable multiply any protective garment, whether monkeys, jackets, pants, both skin sane or any material that is manufactured, gloves, boots and even helmets band has a non-slip character, which is disposed on a cushioned or rigid base for attachment / integration into the garment in question. From this structure, the rubber bands, by its own elastic and tacky nature oppose the sliding of the rider, thus achieving a significant reduction in the speed of movement thereof until it reaches its stop



No. of Pages : 7 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018289 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WATER-BASED ADHESIVE PATCH

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(51) International classification :A61K31/192A61K9/70A61K47/18  
(31) Priority Document No :2016-201134  
(32) Priority Date :12/10/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/036780  
Filing Date :11/10/2017  
(87) International Publication No :WO 2018/070406  
(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 :

1)SHIRAI, Sadanobu

2)INAZUKI, Masahiro

---

(57) Abstract :

The present invention provides a water-based adhesive patch which can stably contain only one of the optical isomers, S- and R-isomers, of a drug in a relatively high concentration over a long period and which has excellent tackiness and shape retentivity and, despite this, enables the drug to highly permeate the skin. Specifically, the present invention provides a water-based adhesive patch including a plaster which contains only one of the optical isomers of a drug as an active ingredient.



No. of Pages : 52 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018291 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : STABLE IMMOBILIZED AMINE SORBENTS FOR REE AND HEAVY METAL RECOVERY FROM LIQUID SOURCES

(51) International classification	:B01D53/56
(31) Priority Document No	:62/407124
(32) Priority Date	:12/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056421
Filing Date	:12/10/2017
(87) International Publication No	:WO 2018/071730
(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 :**

**1)GRAY, McMahan, L.**

**2)KAIL, Brian, W.**

**3)WILLFONG, Walter, C.**

**4)WANG, Qiuming**

---

(57) Abstract :

Materials, methods of making, and methods of using a stable and regenerable immobilized amine sorbents for rare earth element and heavy metal recovery from liquid sources. Embodiments of the invention relate to the novel combination of different polyamines, primarily polyethylenimine Mw=800 (PEI800), and an epoxysilane, namely 2-(3,4-epoxycyclohexyl)ethyltrimethoxsilane (ECTMS), covalently immobilizing the REE and heavy metal-adsorbing amine sites within low cost, porous silica particles.



No. of Pages : 36 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018293 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR DETECTING MATERIAL INHOMOGENEITIES

(51) International classification :G01N29/04G01N23/18G01N29/11  
(31) Priority Document No :10 2016 221 730.5  
(32) Priority Date :07/11/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/073862  
Filing Date :21/09/2017  
(87) International Publication No :WO 2018/082841  
(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)VIANELLO, Alessandro

2)ANGST, Marcel

3)LOUISON, Bastien

(57) Abstract :

A method (100) for detecting a marker (7), which indicates an inhomogeneity (2a) in the material (2) of a workpiece (1), in a signal (6) with which the workpiece (1) responds and/or has responded to a receiver (4) in response to interrogation radiation (5) made of soundwaves (5a), electromagnetic radiation (5b) and/or ionizing radiation (5c) from a transmitter (3), wherein the marker (7) is evaluated (120) from a component (6a) of the signal (6) that, in the case of rotating and/or pivoting (110) of the workpiece (1) and/or the transmitter (3) and/or the receiver (4) through an angle, changes with the angle. An apparatus for detecting an inhomogeneity (2a) in the material (2) of a workpiece (1), comprising a transmitter (3) for interrogation radiation (5) and a receiver (4) for a signal (6) with which the workpiece (1) has responded to the interrogation radiation (5), wherein means are provided, said means being embodied to carry out a method according to the invention. An associated computer program product.



No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018296 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR SENDING RANDOM ACCESS PREAMBLE SEQUENCE, DEVICE, AND SYSTEM

(51) International classification	:H04L27/26
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2016/103403
Filing Date	:26/10/2016
(87) International Publication No	:WO 2018/076207
(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)GUO, Zhiheng**

**3)WU, Qiang**

**4)CHENG, Xingqing**

(57) Abstract :

The present application relates to the field of mobile communications, and in particular to the random access technology in a wireless communication system. Provided are a method, device and system for sending a random access preamble sequence. In the solution, a terminal device acquires a cyclic shift value fulfilling a high-speed moving scenario, and sending a random access preamble sequence corresponding to the cyclic shift value. Since the effect brought in a high-speed moving scenario is taken into consideration when a random access preamble sequence is determined, in the high-speed scenario, the interference between terminal devices is avoided.



No. of Pages : 48 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/05/2019

(21) Application No.201917018297 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : POSITIONING INFORMATION TRANSMISSION METHOD RELATED DEVICE AND SYSTEM

(51) International classification	:H04W64/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2016/104791
Filing Date	:04/11/2016
(87) International Publication No	:WO 2018/082075
(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)XUE, Jiantao**

**2)WANG, Kailong**

**3)GAO, Yuan**

**4)HAN, Jing**

**5)WANG, Yueqi**

(57) Abstract :

Disclosed in embodiments of the present invention are a positioning information transmission method, a related device, and a system. The positioning information transmission method comprises: determining an uplink subframe for carrying an uplink signal; determining a downlink subframe for carrying a downlink signal; determining first measurement information, the first measurement information comprising a deference between an uplink signal reception time and a downlink signal sending time, or the first measurement information comprising a deference between a downlink signal reception time and an uplink signal sending time; determining second measurement information, the second measurement information being used for indicating a difference between the uplink subframe and the downlink subframe; and sending the first measurement information and the second measurement information to a positioning server, so that the positioning server positions a terminal device. By using the embodiments of the present invention, the positioning precision can be improved.



No. of Pages : 47 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018693 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND METHOD FOR ACTIVE COOLING OF A GRATE BAR FOR AN INCINERATOR OF A WASTE-TO-ENERGY PLANT

(51) International classification	:F23H3/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/358442	<b>1)GENERAL ELECTRIC TECHNOLOGY GMBH</b>
(32) Priority Date	:22/11/2016	Address of Applicant :Brown Boveri Strasse 7 5400 Baden Switzerland
(33) Name of priority country	:U.S.A.	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/EP2017/079728	<b>1)DUNNU, Gregory</b>
Filing Date	:20/11/2017	
(87) International Publication No	:WO 2018/095843	
(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 grate bar of an incinerator of solid materials is provided includes a feed grate having a plurality of grate bars, at least one of the grate bars including a body having a top surface, a bottom surface, a first end and a second end, a first aperture in the body and a second aperture in the body, and an internal passageway defined within the body and fluidly connecting the first aperture to the second aperture, the first aperture arranged to receive a gas therethrough into the body, and the second aperture arranged to provide an egress for the gas out of the body. The cooling system further includes a manifold duct fluidly coupled to the second aperture for receiving the gas from the second aperture. The gas is independent of the primary combustion air of the incinerator.



No. of Pages : 14 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018698 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TURBOMACHINE BUCKET WITH RADIAL SUPPORT, SHIM AND RELATED TURBOMACHINE ROTOR

(51) International classification	:F01D5/30F01D5/32	(71) <b>Name of Applicant :</b> <b>1)GENERAL ELECTRIC COMPANY</b> Address of Applicant :1 River Road Schenectady, NY 12345 U.S.A.
(31) Priority Document No	:15/355818	
(32) Priority Date	:18/11/2016	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2017/055349	(72) <b>Name of Inventor :</b>
Filing Date	:05/10/2017	<b>1)BURDGICK, Steven, Sebastian</b>
(87) International Publication No	:WO 2018/093473	<b>2)FARINEAU, Thomas, Joseph</b>
(61) Patent of Addition to Application Number	:NA	<b>3)LIGOS, John, James</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Various aspects include a turbomachine bucket (20), such as a steam turbine bucket, a corresponding shim (52) and a related turbine rotor. The steam turbine bucket includes a blade (22) having a first end, and a second end opposite the first end, a tip at the first end of the blade and a base (30) at the second end. The base may include a dovetail (32) for complementing a corresponding dovetail slot in a steam turbine rotor, the dovetail having a body (38), a plurality of projections (40) extending from the body in opposing directions for complementing a plurality of recesses in the corresponding dovetail slot and a shim locking slot (42) extending through the body along the opposing directions, the shim locking slot being open at a bottom surface (46) of the body and sized to engage the shim.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018707 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM, METHOD AND APPARATUS FOR PRESERVING AND CAPPING TUBES

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(51) International classification :B29C65/00B29C63/42F16L58/02  
(31) Priority Document No :15/331017  
(32) Priority Date :21/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/076737  
Filing Date :19/10/2017  
(87) International Publication No :WO 2018/073357  
(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)KONOPACKI, Ronald Francis

2)FERRY, Allan Gunn

(57) Abstract :

A system for preserving and capping tubes includes a compressed air reservoir for storing compressed air, a preservative reservoir containing a supply of a preservative, a nozzle in fluid communication with the compressed air reservoir and the preservative reservoir for injecting the preservative into the interior of a tube, and a capping device configured to insert a cap onto the end of the tube.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018709 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SYSTEM AND METHOD FOR ADDITIVELY MANUFACTURING BOILER TUBES

(51) International classification :B23K9/04B23K9/167B23K9/173  
(31) Priority Document No :15/331046  
(32) Priority Date :21/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/076742  
Filing Date :19/10/2017  
(87) International Publication No :WO 2018/073358  
(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)GENERAL ELECTRIC TECHNOLOGY GMBH

Address of Applicant :Brown Boveri Strasse 7 5400 Baden Switzerland

(72)Name of Inventor :

1)KONOPACKI, Ronald Francis

2)GILSTON, Philip Frederick

3)LI, Xiaoling

(57) Abstract :

A method of manufacturing a tube is provided. The method includes: selecting a core pipe having a thickness that is initially less than a desired thickness of the tube; and building-up an outer layer over an exterior surface of the core pipe via additive manufacturing so as to increase the thickness of the core pipe such that the thickness of the core pipe is equal to the desired thickness of the tube.



No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018712 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TRANSSEPTAL INSERTION DEVICE

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(51) International classification :A61B17/00A61B17/34A61M1/10  
(31) Priority Document No :62/409448  
(32) Priority Date :18/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056843  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/075426  
(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)MAINI, Brijeshwar S.

Address of Applicant :6401 S. Flagler Dr. West Palm Beach, Florida 33405 U.S.A.

(72)Name of Inventor :

1)MAINI, Brijeshwar S.

(57) Abstract :

A transseptal insertion device is provided including device housing, a pusher slidably disposed in the device housing and a guide element extending from the pusher. The device housing is configured to be inserted into the right atrium of a patient's heart and the guide element can then be advanced from the device housing and against the cardiac septum to facilitate stable puncturing of the cardiac septum by a needle carried by a catheter inserted through the device housing, to provide access to the left atrium. The guide element can be formed as a webbing or ring. The pusher and/or guide element can optionally be inflatable.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/11/2017

(21) Application No.201711040013 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LOTUS YARN AND PRODUCTS THEREOF

(51) International classification	:D02G3/04	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)RITU PANDEY</b>
(32) Priority Date	:NA	Address of Applicant :17 Chanakyapuri, New PAC Lines, Kanpur-208015, Uttar Pradesh, India Uttar Pradesh India
(33) Name of priority country	:NA	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)RITU PANDEY</b>
Filing Date	:NA	<b>2)MUKESH KUMAR SINHA</b>
(87) 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 lotus yarn and products thereof. More particularly, the present invention relates to a natural yarn from natural fiber preferably, lotus fiber extracted from lotus peduncle, its preparation process and products useful in textile industry wherein, a yarn comprising: fibers extracted from lotus peduncle wherein said fiber a) having length in range of about 12 cm and 140 cm; b) fineness in range of about 2.7 microns and 5 microns; c) said lotus fiber yield of 68.75%; d) average moisture content of 11.3%; e) breaking strength in range of about 0.94 g and 6.88 g; f) said fiber tenacity in range of about 5.13 g/tex and 24.84 g/tex; h) dry breaking strength of about 297.2 g; elongation percent of 10.26% and g) low elongation in range of about 1.3% and 2.7%.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/02/2019

(21) Application No.201917004947 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND DEVICE FOR REQUESTING SYSTEM INFORMATION

(51) International classification :H04W74/08H04W48/14  
(31) Priority Document No :62/453469  
(32) Priority Date :01/02/2017  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/KR2018/001308  
    Filing Date :31/01/2018  
(87) International Publication No :WO 2018/143656  
(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)KIM, Sangwon

2)LEE, Youngdae

3)LEE, Jaewook

(57) Abstract :

A method by which a terminal requests system information in a wireless communication system and a device supporting same are provided. The method can include: a step for transmitting, to a base station, a random access preamble for requesting system information; a step for receiving, from the base station, a random access response that only includes a random access preamble identifier (RAPID) corresponding to the transmitted random access preamble; and a step for deeming a random access procedure completed.



No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018835 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MULTI-FACTOR CONTROL OF EAR STIMULATION

(51) International classification :A61N2/00A61N2/02A61N1/36  
(31) Priority Document No :15/291358  
(32) Priority Date :12/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056279  
    Filing Date :12/10/2017  
(87) International Publication No :WO 2018/071630  
(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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1)GOODALL, Eleanor V.

2)HYDE, Roderick A.

3)ISHIKAWA, Muriel Y.

4)KITZAN, Melanie K.

5)LEUTHARDT, Eric C.

6)MALAMUD, Mark A.

7)MALASKA, Stephen L.

8)MYHRVOLD, Nathan P.

9)SCHEID, Brittany

10)SHARADIN, Katherine E.

11)SWEENEY, Elizabeth A.

12)TEGREENE, Clarence T.

13)WHITMER, Charles

14)WOOD, Lowell L., Jr.

15)WOOD, Victoria Y. H.

(57) Abstract :

An ear stimulation device and systems and related methods for controlling an ear stimulation device with a personal computing device are described. The ear stimulation device system can be controlled based on analysis of an image of a user of the personal computing device captured with a camera associated with a personal computing device. One or more parameter is determined from the processed image, including, but not limited, to user identity, emotion, physiological condition, or placement of a stimulator earpiece, and control of the ear stimulation device is based thereon. In another aspect, an ear stimulation device is controlled in response to determination of electrical contact of an electrode in a stimulator earpiece with an ear of a user of the personal computing device. In other aspects, multiple factors, including a mood of the user, a user control input, and a secondary factor input are used in controlling the ear stimulation device. Secondary factors include, a variety of factors relating to or influencing the state of the user, including but not limited to, environmental conditions, sleep, diet, or various activities of the user. In an aspect, a correlation module correlates mood of the user to other factors, and control of stimulation is based thereon. In various aspects, the system is also responsive to inputs from sensors or computing networks. In an aspect, the earpiece delivers an audio output such as music from an audio player.



No. of Pages : 143 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018838 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SELF GENERATED PROTECTIVE ATMOSPHERE FOR LIQUID METALS

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(51) International classification	:B22F9/08B22D1/00B22F9/10
(31) Priority Document No	:62/409192
(32) Priority Date	:17/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/050108
Filing Date	:05/09/2017
(87) International Publication No	:WO 2018/075152
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(71)Name of Applicant :

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(72)Name of Inventor :

1)BOISVERT, Mathieu

2)L'ESPERANCE, Gilles

3)BEAULIEU, Philippe

4)CHRISTOPHERSON, Denis, B.

---

(57) Abstract :

An improved method of manufacturing a cast part by sand casting, permanent mold casting, investment casting, lost foam casting, die casting, or centrifugal casting, or a powder metal material by water, gas, plasma, ultrasonic, or rotating disk atomization is provided. The method includes adding at least one additive to a melted metal material before or during the casting or atomization process. The at least one additive forms a protective gas atmosphere surrounding the melted metal material which is at least three times greater than the volume of melt to be treated. The protective atmosphere prevents introduction or re-introduction of contaminants, such as sulfur (S) and oxygen (O<sub>2</sub>), into the material. The cast parts or atomized particles produced include at least one of the following advantages: less internal pores, less internal oxides, median circularity of at least 0.60, median roundness of at least 0.60 and increased sphericity of microstructural phases and/or constituents.



No. of Pages : 24 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018713 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM, METHOD AND APPARATUS FOR MANUFACTURING BOILER TUBES

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(51) International classification :B23K26/00B08B7/00B23K26/361  
(31) Priority Document No :15/335867  
(32) Priority Date :27/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/051721  
Filing Date :15/09/2017  
(87) International Publication No :WO 2018/080655  
(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)GENERAL ELECTRIC COMPANY

Address of Applicant :1 River Road Schenectady, NY 12345 U.S.A.

(72)Name of Inventor :

1)KONOPACKI, Ronald, Francis

(57) Abstract :

A method for manufacturing boiler tubes includes the steps of removing end caps from a plurality of tubes, the plurality of tubes including at least a first tube and a second tube, cleaning an outer surface of the first tube and the second tube, forming a weld preparation on an upstream end of the first tube, forming a weld preparation on a downstream end of the second tube, welding the upstream end of the first tube to the downstream end of the second tube to form a butt weld, to produce a long tube, and with an automated device, measuring a parameter of at least the first tube and the second tube. The steps of removing the end caps, cleaning the outer surface of the tubes, forming the weld preparations, welding the first tube to the second tube, and measuring the parameter are performed autonomously.



No. of Pages : 20 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018720 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ROD OR TUBE LIFTING APPARATUS

(51) International classification :E21B19/06E21B19/18E21B17/046  
(31) Priority Document No :2016904168  
(32) Priority Date :14/10/2016  
(33) Name of priority country :Australia  
(86) International Application No :PCT/AU2017/051112  
Filing Date :13/10/2017  
(87) International Publication No :WO 2018/068099  
(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)HESELTINE, Hylton Andrew

(57) Abstract :

Disclosed is an apparatus for connecting to a tube or a rod in a longitudinal axial direction of the tube or rod. The tube or rod is used in the assembly of a tube or rod string. The apparatus comprises an engagement member adapted to engage with an engagement portion located at an end of the tube or rod. The apparatus also comprises an abutment member associated with the engagement member. The abutment member is adapted to abut an abutment portion of the tube or rod. The apparatus is adapted such that, when the engagement member is engaged with the engagement portion and the abutment member abuts the abutment portion, the abutment member can apply a locking force to the abutment portion in the axial direction of the tube or rod, being a force that secures the engagement member to the engagement portion such that the tube or rod can be lifted and moved.



No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018732 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : THE RESISTANCE METHOD

(51) International classification	:F22B1/30C25B15/02F22B3/00
(31) Priority Document No	:15/291093
(32) Priority Date	:12/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/000099
Filing Date	:12/12/2017
(87) International Publication No	:WO 2018/093404
(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)COBB, John, Arthur

Address of Applicant :7 Preyer Court Greensboro, NC 27405  
U.S.A.

(72)Name of Inventor :

1)COBB, John, Arthur

(57) Abstract :

The Resistance Method is a process for the conditioning of an electric current to subject it to manipulated resistance levels to cause a effect on the solution or substance as the current passes through. The method has two basic functions. One is to condition the electric current. This takes place during the series of steps that manipulate the frequency, voltage, and amps to provide a combination suitable to your setpoints. The other is to manipulate the resistance of a solution or substance. This is done by manipulating the atmospheric pressure, ph, salinity, and temperature of the solution of substance. This all takes place in a reactor. The reactor provides a isolated enclosed environment for the reactions to take place. The method also utilizes an electronic control system. The electronic control system simultaneously measures and manipulates the variables of the process, thereby creating an environment in the reactor that either increases or decreases the amount of resistance the electric current is subjected to.



No. of Pages : 10 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018734 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DATA TRANSMISSION METHOD USER EQUIPMENT AND NETWORK DEVICE

(51) International classification :H04B7/06H04B7/04H04L27/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No:PCT/CN2016/104475  
    Filing Date :03/11/2016  
(87) International Publication No :WO 2018/081990  
(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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Dongguan, Guangdong 523860 China

(72)**Name of Inventor :**

**1)YANG, Ning  
2)XU, Hua  
3)TANG, Hai**

(57) Abstract :

Provided are a data transmission method, a user equipment and a network device. The method comprises: a user equipment (UE) uses a first uplink transmission waveform on a first beam to send data to a network device; the UE receives a first indication message sent by the network device, the first indication message being used for indicating an uplink transmission waveform corresponding to at least one beam; the UE uses a second uplink transmission waveform on a second beam from among the at least one beam to send data to the network device, the second uplink transmission waveform being the uplink transmission waveform corresponding to the second beam indicated in the first indication message. The present invention enables a UE to transmit data on different beams via more suitable uplink transmission waveforms, thereby obtaining a better uplink coverage range and better uplink transmission quality, and improving uplink transmission performance.



No. of Pages : 26 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019042 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : (AZA)INDOLE-, BENZOTHIOPHENE-, AND BENZOFURAN-3-SULFONAMIDES

(51) International classification :C07D401/12C07D405/12C07D407/12  
(31) Priority Document No :16207137.7  
(32) Priority Date :28/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/084602  
Filing Date :27/12/2017  
(87) International Publication No :WO 2018/122232  
(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)PEGURIER, C©cile

3)DELIGNY, Michael Louis Robert

4)EL-TAYEB, Ali

5)HOCKEMEYER, Joerg

6)LEDECQ, Marie

7)MERCIER, Joël

8)PROVINS, Laurent

9)BOSHTA, Nader M.

10)BHATTARAI, Sanjay

11)NAMASIVAYAM, Vigneshwaran

12)FUNKE, Mario

13)SCHWACH, Lukas

14)GOLLOS, Sabrina

15)VON LAUFENBERG, Daniel

16)BARR%, Ana's

(57) Abstract :

Disclosed are sulfonamide compounds with GPR17 modulating properties, which are useful for treating or preventing a variety of CNS and other diseases, in particular for preventing and treating myelinating diseases or disorders.



No. of Pages : 441 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019043 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : TRANSDERMAL THERAPEUTIC SYSTEM CONTAINING ASENAPINE AND POLYSILOXANE OR POLYISOBUTYLENE

(51) International classification :A61K9/70A61K31/407A61P25/18  
(31) Priority Document No :16205502.4  
(32) Priority Date :20/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/083640  
Filing Date :19/12/2017  
(87) International Publication No :WO 2018/115010  
(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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2)RIETSCHER, Ren©

3)EIFLER, Ren©

4)BOURQUAIN, Olga

(57) Abstract :

The present invention relates to a transdermal therapeutic system (TTS) for the transdermal administration of asenapine comprising a self-adhesive layer structure comprising a therapeutically effective amount of asenapine, said self-adhesive layer structure comprising: A) a backing layer; B) an asenapine-containing layer comprising: 1. asenapine in the form of the free base; and 2. a polymer selected from the group consisting of polysiloxanes and polyisobutylenes in an amount of more than 50 % by weight based on the total weight of the asenapine-containing layer; and C) optionally an additional skin contact layer.



No. of Pages : 79 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019046 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CURING AGENT FOR CURING A POLYMER RESIN

(51) International classification :C04B26/18C04B40/00C04B24/00  
(31) Priority Document No :1662155  
(32) Priority Date :08/12/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/EP2017/082045  
Filing Date :08/12/2017  
(87) International Publication No :WO 2018/130351  
(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)ARKEMA FRANCE

Address of Applicant :420 rue d'Estienne d'Orves 92700 COLOMBES France

(72)Name of Inventor :

1)JI, Bin

(57) Abstract :

A curing agent comprising methyl isobutyl ketone peroxide and at least one peroxide.



No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019048 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AAV CAPSID DESIGNS

(51) International classification	:C12N15/861C07K14/005C07K14/015
(31) Priority Document No	:62/408022
(32) Priority Date	:13/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056614
Filing Date	:13/10/2017
(87) International Publication No	:WO 2018/071831
(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)GAO, Guangping

2)XU, Guangchao

3)TAI, Phillip

4)WEI, Yuquan

5)LUO, Li

(57) Abstract :

The disclosure in some aspects relates to recombinant adeno-associated viruses having distinct tissue targeting capabilities. In some aspects, the disclosure relates to gene transfer methods using the recombinant adeno-associated viruses. In some aspects, the disclosure relates to isolated AAV capsid proteins and isolated nucleic acids encoding the same.



No. of Pages : 68 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019050 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND APPARATUS FOR UPDATING SYSTEM

(51) International classification :H04W48/10H04W48/14  
(31) Priority Document No :201610981660.1  
(32) Priority Date :04/11/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/109384  
    Filing Date :03/11/2017  
(87) International Publication No :WO 2018/082671  
(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)HUAWEI TECHNOLOGIES CO., LTD.

Address of Applicant :Huawei Administration Building  
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(72)Name of Inventor :

1)GENG, Tingting

2)LIU, Yalin

3)ZENG, Qinghai

4)LOU, Chong

(57) Abstract :

A method and an apparatus for updating a system, the method comprising: a terminal receiving indication information sent by a first network device; the indication information indicating whether the system information of an ultra-cell at which the first network device is located is identical; and the terminal determining, according to the indication information, whether to update the system information. According to the method provided by the embodiments of the present application, the indication information received by the terminal, which is sent by the first network device, is used for indicating whether the system information of the ultra-cell at which the first network device is located is identical, therefore the terminal can determine, according to the indication information, whether to update the system information. In the case where the ultra-cell has at least one piece of system information, the terminal can update the system information according to the indication information in a timely manner, thereby increasing the success rate of the terminal initially accessing the network



No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019063 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LUBRICANT ADDITIVE COMPOSITIONS COMPRISING PHOSPHOROUS CONTAINING COMPOUNDS AND USES THEREOF

(51) International classification :C10M135/10C10N30/06C10M163/00  
(31) Priority Document No :15/339868  
(32) Priority Date :31/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/059343  
Filing Date :31/10/2017  
(87) International Publication No :WO 2018/081810  
(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)AFTON CHEMICAL CORPORATION

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(72)Name of Inventor :

1)EDWARDS, David

2)DURBIN, Kristine

3)MCCOVICK, Robert, E.

(57) Abstract :

The invention relates to lubricant additive compositions and lubricant compositions each comprising thiophosphates and thiophosphate derivatives thereof, alone or in combination, useful as antiwear additive components, methods for making and using the same, including methods of lubricating machines and machine parts and methods of extending the useful life of elastomeric seal components of such machines.

No. of Pages : 45 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917018736 A

(19) INDIA

(22) Date of filing of Application :10/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : PROCESS FOR MAKING POLYACRYLONITRILE FIBERS

(51) International classification	:C08L33/20D01F8/08
(31) Priority Document No	:62/425323
(32) Priority Date	:22/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/062524
Filing Date	:20/11/2017
(87) International Publication No	:WO 2018/098072
(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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P. O. Box 2915 Wilmington, Delaware 19805 U.S.A.

(72)Name of Inventor :

- 1)ADELMAN, Douglas J.
- 2)BEHABTU, Natnael
- 3)BRIEGEL, Alicia C.
- 4)JOHNSON, Ross S.
- 5)LENGES, Christian Peter
- 6)OPPER, Kathleen
- 7)WEGO, Andreas, J<sup>1/4</sup>rgen
- 8)HERBERT, Christian

(57) Abstract :

A process is disclosed herein comprising the steps: a) contacting an esterifying agent and a polysaccharide in the presence of a first solvent and suitable reaction conditions for a reaction time sufficient to form a product comprising a polysaccharide ester composition, the polysaccharide ester composition comprising a polysaccharide ester having a degree of substitution of about 0.001 to about 3; wherein the esterifying agent comprises an acyl halide, a phosphoryl halide, a carboxylic acid anhydride, a haloformic acid ester, a carbonic acid ester, or a vinyl ester; and the ratio of esterifying agent to polysaccharide is in the range of about 0.001:1 to about 3:1 on a molar equivalent basis; b) combining the product obtained in step a) with polyacrylonitrile; and c) spinning fibers.



No. of Pages : 62 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018737 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PARTIAL SURVIVABILITY FOR MULTI-CARRIER AND MULTI-MODULE OPTICAL INTERFACES

(51) International classification	:H04J3/16H04J3/14	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/290653	<b>1)CIENA CORPORATION</b>
(32) Priority Date	:11/10/2016	Address of Applicant :7035 Ridge Road Hanover, MD 21076
(33) Name of priority country	:U.S.A.	U.S.A.
(86) International Application No	:PCT/US2017/055028	(72) <b>Name of Inventor :</b>
Filing Date	:04/10/2017	<b>1)IBACH, Trevor John</b>
(87) International Publication No	:WO 2018/071240	<b>2)AMARSI, Rahim</b>
(61) Patent of Addition to Application Number	:NA	<b>3)GAREAU, Sebastien</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Partial survivability systems and methods implemented in a node in an Optical Transport Unit Cn (OTUCn) network include, subsequent to an optical carrier (Optical Tributary Signal (OTSi)) failure of a plurality of optical carriers, determining which Optical Data Unit k (ODUk) services in an OTUCn associated with the OTSi are affected; signaling a partial failure for the OTUCn and a failure only for the affected ODUk services; adjusting overhead associated with the OTUCn based on the OTSi failure; and applying actions to the affected ODUk services subsequent to the OTSi failure. The signaling of the partial failure can include signaling one or more of a partial Alarm Indication Signal (P-AIS), a partial Backward Defect Indication (P-BDI), and a partial Server Signal Fail (P-SSF) for the OTUCn, and the signaling the failure can include signaling one or more of AIS, BDI, and SSF only for the affected ODUk services.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018741 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AQUEOUS GRAVURE INK

(51) International classification	:C09D11/033C09D11/037
(31) Priority Document No	:2016-221864
(32) Priority Date	:14/11/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/040808
Filing Date	:13/11/2017
(87) International Publication No	:WO 2018/088560
(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)KAO CORPORATION**

Address of Applicant :14-10, Nihonbashi Kayabacho 1-chome,  
Chuo-ku, Tokyo 1038210 Japan

(72)Name of Inventor :

**1)WATANABE, Kazuki**

**2)MIZUSHIMA, Ryuma**

**3)SATO, Takahiro**

**4)UEDA, Yasufumi**

(57) Abstract :

The present invention pertains to an aqueous gravure ink containing a pigment, a polymer, a water-soluble organic solvent, a surfactant, and water, wherein the water-soluble organic solvent contains a glycol ether having a boiling point of 100-260°C, the content of the glycol ether in the ink is 1-10 mass%, the total amount of the water soluble organic solvent in the ink is 15 mass% or less, the surfactant contains an acetylene glycol-based surfactant, and the content of water is 50-70 mass%.

No. of Pages : 60 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018742 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WALL CONSTRUCTION SYSTEM FOR BUILDING HOUSES HAVING DRY CONSTRUCTION COMPOSITE COLUMNS OF STRUCTURAL STEEL AND CONCRETE

(51) International classification :E04B1/16E04B2/72E04B2/74  
(31) Priority Document No :10 2016 012 398.2  
(32) Priority Date :17/10/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/DE2017/000354  
    Filing Date :16/10/2017  
(87) International Publication No :WO 2018/072777  
(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)SCHURIG, Burkhart

Address of Applicant :Teichmühle 1 01561 Lampertswalde Germany

(72)Name of Inventor :

1)SCHURIG, Burkhart

(57) Abstract :

Composite columns permit high loads on small cross-sections. To ensure the functional connection, the steel sections have to be comparatively thick. This is incompatible with the use of dry construction technology using very small metal sheet thicknesses. Joining the in-filling wall members of exterior walls, usually brick or insulating elements, to a composite column is labour-intensive. The new wall construction system is designed to ensure structurally stable walls with a minimum of materials, simplify assembly and permit immediate dry lining. 2.2. Thin sheet steel sections (3) are arranged as composite columns in the modular grid perpendicularly in the wall plane and such that they engage the in-filling wall elements (8), have multiple lateral openings (5) for pourable concrete across their full height, and on the outermost part of the inner side have even locating surfaces (4) for building boards. Transverse to the wall the in-filling wall elements have undercuts and closely hug the steel section. Once the formwork for the connecting concrete slab (14) for the ceiling support has been established, the concrete for the support and slab are poured simultaneously to storey height. The poured concrete interlockingly ensures the functional connection with the steel sheet sections (3), which are anchored in the drywall locating surfaces (4) and at the same time secures the wall elements (8) to the composite columns (1). 2.3. This construction system makes it possible to produce outer and inner walls for buildings with predominantly solid ceilings at low cost and with clear separation of the different building trades, and further allows ready assembly of such walls by two people.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019067 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : TREATING METHOD AND TREATING APPARATUS FOR UNSATURATED HYDROCARBON

(51) International classification :C07C7/08B01D3/40C07C11/167  
(31) Priority Document No :2016-226163  
(32) Priority Date :21/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/041722  
Filing Date :20/11/2017  
(87) International Publication No :WO 2018/092910  
(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)TOHOKU UNIVERSITY

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Miyagi 9808577 Japan

2)ZEON CORPORATION

(72)Name of Inventor :

1)SHIRAI Yasuyuki

2)TAKEDA Iwao

(57) Abstract :

The purpose of the present invention is to provide a method for treating an unsaturated hydrocarbon, the method being capable of effectively treating the unsaturated hydrocarbon for a long period of time. This method for treating unsaturated hydrocarbon comprises a step of treating a composition containing the unsaturated hydrocarbon by using at least one piece of equipment selected from the group consisting of a distillation tower, a heat exchanger, a reactor, a pump, a pipe, and a valve. In the piece of equipment, at least one of members in contact with the composition is a member having a film including at least one among a metal oxide and a semi-metal oxide.



No. of Pages : 26 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019068 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HIGH EFFICIENCY DOUBLE SUCTION IMPELLER

(51) International classification	:F04D1/00F04D29/22
(31) Priority Document No	:102016000111763
(32) Priority Date	:07/11/2016
(33) Name of priority country	:Italy
(86) International Application No	:PCT/EP2017/078356
Filing Date	:06/11/2017
(87) International Publication No	:WO 2018/083306
(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)NUOVO PIGNONE TECNOLOGIE - S.R.L.

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(72)Name of Inventor :

1)BERGAMINI, Lorenzo

2)TORRESI, Marco

3)CAPURSO, Tommaso

(57) Abstract :

A new double suction impeller, in particular for centrifugal pumps and hydraulic power recovery turbines, wherein the flow-path arrangement has inter-blade channels 21, 24 intersecting each other at the impeller's outer diameter and having a variable cross section shape so that the equivalent number of blades 13 is doubled with respect to a conventional configuration obtained by the coupling of two single suction impellers and a better control over the velocity of the flow within the inter-blade channel is achieved.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019069 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SEMI-CRYSTALLINE POLYOLEFIN-BASED ADDITIVE MASTERBATCHCOMPOSITION

(51) International classification	:C08J3/22C08K3/01
(31) Priority Document No	:62/416415
(32) Priority Date	:02/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/059228
Filing Date	:31/10/2017
(87) International Publication No	:WO 2018/085241
(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)LI, Dachao**

**2)PATEL, Rajen M.**

**3)PERSON, Timothy J.**

**4)COGEN, Jeffrey M.**

**5)CHAUDHARY, Bharat I.**

**6)CARONIA, Paul J.**

---

(57) Abstract :

An additive masterbatch composition comprising a semi-crystalline polyolefin carrier resin and an additive package comprising a product of a reaction of an acidic condensation catalyst and a secondary diarylamine. A moisture-curable polyolefin composition comprising the additive masterbatch composition and a (hydrolyzable silyl group)-functional polyolefin prepolymer. A method of making the compositions; a moisture-cured polyolefin composition prepared therefrom; a manufactured article comprising or made from the formulation; and a method of using the manufactured article.

No. of Pages : 25 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019078 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MICROFLUIDIC DEVICE, MICROFLUIDIC SYSTEM AND METHOD FOR THE ISOLATION OF PARTICLES

(51) International classification	:B01L3/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:102016000104612	<b>1)MENARINI SILICON BIOSYSTEMS S.P.A.</b>
(32) Priority Date	:18/10/2016	Address of Applicant :Via Giuseppe Di Vittorio, 21 B/3 40013 Castel Maggiore Italy
(33) Name of priority country	:Italy	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/IB2017/056481	<b>1)MEDORO, Gianni</b>
Filing Date	:18/10/2017	<b>2)CALANCA, Alex</b>
(87) International Publication No	:WO 2018/073767	<b>3)MANARESI, Nicol<sup>2</sup></b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A microfluidic device (2) for the isolation of particles of at least one specific type of a sample (C1) is described. The microfluidic device (2) comprises: a first inlet (4) adapted to receive a sample (C1) comprising the particles of the specific type, at least part of a separation group comprising a separation unit (5), which comprises a main chamber (6) and a recovery chamber (7) and being adapted to receive the sample (C1) and to transfer at least part of the particles of the specific type from the main chamber (6) to the recovery chamber (7) in a selective manner with respect to further particles of the sample (C1), a first outlet (8) which is designed to allow the particles of the specific type to be collected outside of the device and a second outlet (10) adapted to allow at least a portion (C3) of the sample to flow out of the main chamber (6) and out of the microfluidic device (2).



No. of Pages : 22 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019079 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MICROFLUIDIC SYSTEM

(51) International classification	:B01L3/00
(31) Priority Document No	:102016000104601
(32) Priority Date	:18/10/2016
(33) Name of priority country	:Italy
(86) International Application No	:PCT/IB2017/056473
Filing Date	:18/10/2017
(87) International Publication No	:WO 2018/073760
(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 :Via Giuseppe di Vittorio, 21B/3 40013  
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(72)Name of Inventor :

1)MEDORO, Gianni

2)CALANCA, Alex

(57) Abstract :

A microfluidic system (1) for the isolation of particles of at least one given type belonging to a sample and comprising a separation unit (3), which is designed to transfer the particles of given type from a main chamber (4) to a recovery chamber (5) in a substantially selective manner with respect to further particles of the sample; at least one first reservoir (6), which is designed to contain a liquid and is fluidically connected to the separation unit (3); and a regulating assembly (13), which comprises at least a first regulating device (14) having a first heat transfer element (15) arranged at the first reservoir (6) to adjust the temperature of the first reservoir (6), in particular to absorb heat from the reservoir (6).



No. of Pages : 18 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018839 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR TESTING THE ELECTROMAGNETIC COMPATIBILITY OF A RADAR DETECTOR WITH AT LEAST ONE ONBOARD PULSE SIGNAL TRANSMITTER

(51) International classification	:G01S7/02
(31) Priority Document No	:16 01603
(32) Priority Date	:10/11/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/078670
Filing Date	:08/11/2017
(87) International Publication No	:WO 2018/087186
(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)TALES**

Address of Applicant :Tour Carpe Diem Place des Corolles  
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**(72)Name of Inventor :**

**1)JAHAN, Daniel**

**2)QUELLEC, Jean-Michel**

**3)ARTIS, Jean-Paul**

**4)CHRISTIEN, Daniel**

**(57) Abstract :**

The invention relates to a method for testing the electromagnetic compatibility of a radar detector (4) with at least one onboard pulse signal transmitter, wherein said radar detector (4) and each onboard transmitter are part of the same platform, by means of eliminating the onboard component in the signals received by said radar detector (4), where the onboard component corresponds to the mix of the direct component and the reflected component onboard, said method comprising a training phase allowing the detected pulses to be divided into classes, grouping together the pulses for which at least two characteristics have a common range of values, and a phase of eliminating the pulses that belong to the selected classes.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018840 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FREE GRAPHITE CONTAINING POWDERS

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(51) International classification	:B22F9/08C22C33/02
(31) Priority Document No	:62/409244
(32) Priority Date	:17/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056895
Filing Date	:17/10/2017
(87) International Publication No	:WO 2018/075460
(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)ECOLE POLYTECHNIQUE**

(72)Name of Inventor :

**1)BOISVERT, Mathieu**

**2)L'ESPERANCE, Gilles**

**3)BEAULIEU, Philippe**

**4)CHRISTOPHERSON, Denis, B., Jr.**

(57) Abstract :

An improved atomized powder metal material containing an increased amount of free graphite after heat treatment and/or sintering is provided. The powder metal material is typically a ferrous alloy and includes carbon in an amount of 1.0 wt. % to 6.5 wt. % and silicon in an amount of 0.1 wt. % to 6.0 wt. %, based on the total weight of the powder metal material. The powder metal material can also include various other alloying elements, for example at least one of nickel (Ni), cobalt (Co), copper (Cu), tin (Sn), aluminum (Al), sulfur (S), phosphorous (P), boron (B), nitrogen (N), chromium (Cr), manganese (Mn), molybdenum (Mo), vanadium (V), niobium (Nb), tungsten (W), titanium (Ti), tantalum (Ta) zirconium (Zr), zinc (Zn), strontium (Sr), calcium (Ca), barium (Ba) magnesium (Mg), lithium (Li), sodium (Na), and potassium (K).



No. of Pages : 23 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018841 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : OSMOTIC MEMBRANE

(51) International classification :B01D61/02B01D69/10B01D69/12  
(31) Priority Document No :62/410170  
(32) Priority Date :19/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/057186  
Filing Date :18/10/2017  
(87) International Publication No :WO 2018/075637  
(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)GRADIANT CORPORATION**

Address of Applicant :225 Wildwood Avenue Woburn,  
Massachusetts 01801 U.S.A.

(72)Name of Inventor :

**1)GOVINDAN, Prakash**

**2)CHOONG, Looh Tchuin**

(57) Abstract :

An osmotic membrane comprises an active layer and a composite support layer. The active layer selectively allows passage of water molecules but rejects at least some dissolved ions. The composite support layer includes a side that is bonded to the active layer and comprises an electrospun-fiber sub-layer and a phase-inversion sub-layer.



No. of Pages : 23 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018842 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR TESTING THE ELECTROMAGNETIC COMPATIBILITY OF A RADAR DETECTOR WITH AT LEAST ONE ONBOARD PULSE SIGNAL TRANSMITTER

(51) International classification	:G01S7/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:1601605	<b>1)TALES</b>
(32) Priority Date	:10/11/2016	Address of Applicant :Tour Carpe Diem Place des Corolles Esplanade Nord 92400 COURBEVOIE France
(33) Name of priority country	:France	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/EP2017/078930	<b>1)JAHAN, Daniel</b>
Filing Date	:10/11/2017	<b>2)QUELLEC, Jean-Michel</b>
(87) International Publication No	:WO 2018/087313	<b>3)ARTIS, Jean-Paul</b>
(61) Patent of Addition to Application Number	:NA	<b>4)CHRISTIEN, Daniel</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention relates to a method for testing the electromagnetic compatibility of a radar detector (4) with at least one onboard pulse signal transmitter (2), wherein said radar detector (4) and each onboard transmitter (2) are part of the same platform, by means of eliminating the onboard component in the signals received by said radar detector (4), where the onboard component corresponds to the mix of the direct component and the reflected component onboard, said method comprising a training phase allowing the detected pulses to be divided into classes, grouping together the pulses for which at least two characteristics have a common range of values, and a phase of eliminating the pulses that belong to the selected classes.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018843 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : METHOD FOR TESTING THE ELECTROMAGNETIC COMPATIBILITY OF A RADAR DETECTOR WITH AT LEAST ONE ONBOARD PULSE SIGNAL TRANSMITTER

(51) International classification	:G01S7/02
(31) Priority Document No	:16/01604
(32) Priority Date	:10/11/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/078901
Filing Date	:10/11/2017
(87) International Publication No	:WO 2018/087299
(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)TALES**

Address of Applicant :Tour Carpe Diem Place des Corolles  
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(72)**Name of Inventor :**

**1)JAHAN, Daniel**

**2)QUELLEC, Jean-Michel**

**3)ARTIS, Jean-Paul**

**4)CHRISTIEN, Daniel**

---

(57) Abstract :

The invention relates to a method for testing the electromagnetic compatibility of a radar detector (4) with at least one onboard pulse signal transmitter, wherein said radar detector (4) and each onboard transmitter are part of the same platform, by means of eliminating the external echo component in the signals received by the radar detector (4), said method comprising a training phase allowing the detected pulses to be divided into classes, grouping together the pulses for which at least two characteristics have a common range of values, and a phase of eliminating the pulses that belong to the selected classes.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :28/12/2018

(21) Application No.201817049639 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : A DISPOSABLE LID FOR BEVERAGE CONTAINERS

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(51) International classification	:B65D43/02
(31) Priority Document No	:1750119-8
(32) Priority Date	:08/02/2017
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/SE2018/050071
Filing Date	:31/01/2018
(87) International Publication No	:WO 2018/147783
(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)UNICUP SCANDINAVIA AB

Address of Applicant :Blomstergränd 47 141 44 Huddinge  
Sweden

(72)Name of Inventor :

1)L-FHOLM, Hkan Johan

2)BENDIX, Lars

(57) Abstract :

The invention relates to a disposable lid (100) for containers with beverages especially hot beverages such as coffee and tea comprising an open part 130 where a compartment (145) is created enabling a person to drink directly from the top of the container (200) and where the compartment is limited by a floor (140). One embodiment includes an integrated filter with narrow slits to hinder particles such as coffee grains or tea leaves to enter the mouth of the consumer of the beverage. Another embodiment comprises an arrangement to slow down the beverage flow to enter the drinking compartment and optionally including a cooling surface for the beverage. The lid (100) may be provided with an auxiliary lid to be attached to reduce the risk for spill to a minimum.



No. of Pages : 20 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018655 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ANCHOR FOR A SHIP

(51) International classification :F24F13/10F24F13/24F24F13/02  
(31) Priority Document No :10-2016-0132294  
(32) Priority Date :12/10/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/011239  
Filing Date :12/10/2017  
(87) International Publication No:WO 2018/070798  
(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)SEO, Dae Wan**

Address of Applicant :(Sanggal-dong,  
Geumhwa Village Jugong Greenvill) 408-dog 102-ho, 10,  
Geumhwa-ro 58beon-gil, Giheung-gu Yongin-si Gyeonggi-do  
17072 Republic of Korea

(72)**Name of Inventor :**

**1)SEO, Dae Wan**

(57) Abstract :

The present invention relates to a duct damper comprising: a hollow housing provided inside the duct so as to enable ventilation; a blocking plate provided in the housing and opening and closing the hollow; a fastener detachably fixing the blocking plate to the housing; and shape maintaining members respectively provided on the sides of the blocking plate so as to respectively maintain half of the shape formed by the blocking plate. According to the present invention, even if both sides of the blocking plate are bent with a center bar as an axis, since the shape maintaining members half and half support the both sides of the blocking plate, respectively, so as to maintain the shape, vibrations are not generated at either side of the blocking plate, thereby preventing noise.



No. of Pages : 24 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018656 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AUDIOMETER

(51) International classification	:A61B5/12
(31) Priority Document No	:2016-203063
(32) Priority Date	:14/10/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/036143
Filing Date	:04/10/2017
(87) International Publication No	:WO 2018/070320
(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)RION CO., LTD.**

Address of Applicant :20-41, Higashimotomachi 3-chome,  
Kokubunji-shi, Tokyo 1858533 Japan

(72)Name of Inventor :

**1)HAMANAKA, Ryoichi**

**2)SATO, Kaori**

---

(57) Abstract :

Provided is an audiometer which is provided with a body unit and a plurality of sets of headphone units and response operation units. The body unit supplies an examination sound output command to the headphone units, causes the headphone units to output the examination sound, and acquires information on an operation by a subject from the response operation units by performing wireless communication with the headphone units and also performing wireless communication with the response operation units independently of the wireless communication with the headphone units. Using a time-division multiplexing scheme, the body unit performs the wireless communications respectively with the plurality of sets of headphone units and response operation units.



No. of Pages : 36 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018657 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ISOQUINOLIDINOBOZODIAZEPINE (IQB)-1(CHLOROMETHYL)-2,3-DIHYDRO-1H-BENZO[E]INDOLE (CBI) DIMERS

(51) International classification :A61K47/62A61K47/64C07D403/14  
(31) Priority Document No :62/406077  
(32) Priority Date :10/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/055994  
Filing Date :10/10/2017  
(87) International Publication No :WO 2018/071455  
(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)CELLERANT THERAPEUTICS, INC.

Address of Applicant :1561 Industrial Road San Carlos, California 94070 U.S.A.

(72)Name of Inventor :

1)JUNUTULA, Jagath R.  
2)SMITH, Sean W.  
3)BORKIN, Dmitry  
4)DEGRADO, Sylvia  
5)GHONE, Sanjeevani

(57) Abstract :

Provided herein are isoquinolidinobenzodiazepine (IQB)-1(chloromethyl)-2,3-dihydro-1H-benzo[e]indole (CBI) dimers, antibody-drug conjugates comprising them and methods of use for killing cells and treating disease.



No. of Pages : 89 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018658 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMPROVEMENTS TO METHODS FOR ALIGNING INERTIAL NAVIGATION SYSTEMS

(51) International classification	:G01C25/00
(31) Priority Document No	:1659806
(32) Priority Date	:11/10/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/075547
Filing Date	:06/10/2017
(87) International Publication No	:WO 2018/069191
(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)SAFRAN ELECTRONICS & DEFENSE

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BOULOGNE-BILLANCOURT France

(72)Name of Inventor :

1)DEMANGE, Jean Luc

(57) Abstract :

The invention relates to a method for aligning an inertial navigation system borne by a static or quasi-static carrier, wherein: a plurality of alignment processes that are dimensioned for a plurality of amplitudes of movements of the carrier are implemented simultaneously with different alignment observation durations; a minimum observation duration that corresponds to the alignment observation duration for which the consistency of the alignment information obtained by means of alignment processes dimensioned for a given movement amplitude of the carrier is determined; and the alignment information is determined depending on alignment information determined for this minimum observation duration. The invention also relates to an associated inertial navigation system.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018752 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DETECTION SYSTEM

(51) International classification	:B07C5/36B07B1/42B07C5/34
(31) Priority Document No	:16196333.5
(32) Priority Date	:28/10/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/077656
Filing Date	:27/10/2017
(87) International Publication No	:WO 2018/078125
(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)METSO SWEDEN AB

Address of Applicant :Box 132 231 22 Trelleborg Sweden

(72)Name of Inventor :

1)LARSSON, Claes

(57) Abstract :

The invention relates to a detection system in a screening device (1) for screening material, e.g. aggregate, ore or similar, comprising at least one screening decks (2), the at least one screening deck (2) having a screening surface comprising one or more screening modules (4). The system comprises a sensor (5) arranged at or near at least one screening deck of the screening device (2). The sensor (5) is arranged such that it can detect objects present leaving the at least one screening deck (2). The invention also relates to a method for detection of objects in a screening device, and use of the detection system.



No. of Pages : 14 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018753 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INKJET PRINT HEAD DEVICE AND A METHOD AND SYSTEM FOR DETECTING INK LEAKAGE

(51) International classification	:B41J2/08B41J2/085B41J2/09
(31) Priority Document No	:16206946.2
(32) Priority Date	:27/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/078851
Filing Date	:10/11/2017
(87) International Publication No	:WO 2018/121909
(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)SICPA HOLDING SA**

Address of Applicant :Avenue de Florissant 41 1008 Prilly Switzerland

(72) **Name of Inventor :**

**1)M LACHMANAN, Jayakanthan**

(57) Abstract :

The present invention relates to an inkjet print head device for continuous inkjet printing, comprising a transducer; a charge electrode; a deflection plate; a gutter; and a holster; provided that the holster is receiving at least the aforementioned components, wherein the holster comprises an opening for a dedicated outlet for the ink in a printing mode, and wherein the holster further comprises an ink leakage detection area. Further the invention relates to a method and a system for detecting ink leakage in a print head.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018757 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPOSITE CERAMIC MATERIALS ARTICLES AND METHOD OF MANUFACTURE

(51) International classification :B01D46/24C04B35/626C04B35/185  
(31) Priority Document No :62/420403  
(32) Priority Date :10/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/060797  
Filing Date :09/11/2017  
(87) International Publication No :WO 2018/089596  
(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 :1 Riverfront Plaza Corning, New York 14831 U.S.A.

(72)Name of Inventor :

1)VILENO, Elizabeth Marie  
2)SARMA, Huthavahana Kuchibhotla  
3)WHEATON, Bryan Ray

(57) Abstract :

Composite ceramic materials are disclosed herein which comprise two or more crystalline phases, wherein a first crystalline phase comprises a first refractory material having a first melting point, and a second crystalline phase comprises a second refractory material having a second melting point which is lower than the first melting point, and the second crystalline phase comprises large domain sizes of the second refractory material. Articles comprising such a composite ceramic material, such as honeycomb bodies, catalytic substrates, and particulate filters, are also disclosed herein, in addition to methods of manufacture thereof.



No. of Pages : 24 No. of Claims : 140

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018758 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEMS AND METHODS FOR VACUUM COOLING A BEVERAGE

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(51) International classification :F25B27/00F25B17/08F25B49/04  
(31) Priority Document No :62/413665  
(32) Priority Date :27/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058259  
Filing Date :25/10/2017  
(87) International Publication No :WO 2018/081249  
(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 COCA-COLA COMPANY

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(72)Name of Inventor :

1)ROEKENS, Jurgen

2)DESSING, Jacobus, P. M.

3)IZENSON, Michael, Gary

(57) Abstract :

A system may include a beverage compartment with a beverage positioned therein, a wetted material disposed about the beverage, at least one sorption cartridge, and a vacuum pump. The sorption cartridge may be in communication with the beverage compartment, and the vacuum pump may be in communication with the sorption cartridge to create a vacuum in the sorption cartridge and the beverage compartment, causing water to evaporate from the wetted material and be captured by the sorption cartridge, thereby lowering the temperature of the wetted material and in turn cooling the beverage. In some instances, the sorption cartridge may be detached from the vacuum pump and the beverage compartment to discharge the captured water therein by way of solar energy. In other instances, the sorption cartridge may be in communication with a heater assembly to blow heated air through the sorption cartridge to discharge the captured water therein.



No. of Pages : 21 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018759 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : FIBER COATINGS WITH LOW MODULUS AND HIGH CRITICAL STRESS

(51) International classification :C08G18/48C03C25/326C08G18/67  
(31) Priority Document No :62/419154  
(32) Priority Date :08/11/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/060112  
Filing Date :06/11/2017  
(87) International Publication No :WO 2018/089290  
(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)CHEN, Yangbin**

**2)CHIEN, Ching-Kee**

**3)DEROSA, Michael Edward**

**4)KOUZMINA, Inna Igorevna**

**5)TANDON, Pushkar**

**6)TANDON, Ruchi**

(57) Abstract :

Fiber coatings with low Young's modulus, high tear strength, and/or high critical stress are realized with coating compositions that include an oligomeric material formed from an isocyanate, a hydroxy acrylate compound and a polyol. The oligomeric material includes a polyether urethane acrylate and a di-adduct compound. The reaction mixture used to form the oligomeric material includes a molar ratio of isocyanate:hydroxy acrylate:polyol of n:m:p, where when p is 2, n is in the range from 3.0 to 5.0 and m is in the range from 1.50n - 3 to 2.50n - 5. Control of the n:m:p ratio leads to compositions that, when cured, provide coatings and cured products having high critical stress, high tear strength, and a high ratio of tear strength to Young's modulus.



No. of Pages : 60 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :30/12/2017

(21) Application No.201711047439 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR MONITORING EMOTIONS

---

(51) International classification	:G10L17/26	(71) <b>Name of Applicant :</b> <b>1)KaHa Pte Ltd</b> Address of Applicant :81 Ayer Rajah Crescent, #02-42, Singapore (139967) Singapore
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)Sudheendra Shantharam</b>
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 and system for monitoring emotions of a user is provided. The method includes the steps of: monitoring at least one physiological parameter of the user when the user is in a normal condition to determine a threshold value of the at least one physiological parameter of the user; monitoring voice profile and speech pattern of the user when the user is in the normal condition to determine a normal voice profile and identify a normal speech pattern of the user respectively; generating normal face profile of the user, wherein the normal face profile comprises a plurality of emotions-based characteristics of the face; determining a current value of the at least one physiological parameter, a current voice profile and a current speech pattern of the user, and a current face profile of the user using at least one image capturing and voice processing device; computing an emotional index of the user using the current value and the threshold value of the at least one physiological parameter, the current voice profile and the current speech pattern of the user with the normal voice profile and normal speech pattern of the user respectively, the current face profile with the normal face profile; and identifying at least one emotion of the user based on the emotional index.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019281 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ANTI-MET ANTIBODIES, BISPECIFIC ANTIGEN BINDING MOLECULES THAT BIND MET, AND METHODS OF USE THEREOF

(51) International classification	:C07K16/28A61K47/68	(71) <b>Name of Applicant :</b> <b>1)REGENERON PHARMACEUTICALS, INC</b> Address of Applicant :777 Old Saw Mill River Road Tarrytown, New York 10591-6707 U.S.A.
(31) Priority Document No	:62/423068	
(32) Priority Date	:16/11/2016	
(33) Name of priority country	:U.S.A.	
(86) International Application No Filing Date	:PCT/US2017/061757 :15/11/2017	
(87) International Publication No	:WO 2018/093866	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided herein are antibodies and bispecific antigen-binding molecules that bind MET and methods of use thereof. The bispecific antigen-binding molecules comprise a first and a second antigen-binding domain, wherein the first and second antigen-binding domains bind to two different (preferably non-overlapping) epitopes of the extracellular domain of human MET. The bispecific antigen-binding molecules are capable of blocking the interaction between human MET and its ligand HGF. The bispecific antigen-binding molecules can exhibit minimal or no MET agonist activity, e.g., as compared to monovalent antigen-binding molecules that comprise only one of the antigen-binding domains of the bispecific molecule, which tend to exert unwanted MET agonist activity. Also included are antibody-drug conjugates (ADCs) comprising the antibodies or bispecific antigen-binding molecules provided herein linked to a cytotoxic agent, radionuclide, or other moiety, as well as methods of treating cancer in a subject by administering to the subject a bispecific antigen-binding molecule or an ADC thereof.



No. of Pages : 114 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019282 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHODS OF TREATING LIVER DISORDERS OR LIPID DISORDERS WITH A THR-BETA AGONIST

(51) International classification :A61K31/53A61P1/16A61P3/06  
(31) Priority Document No :62/409833  
(32) Priority Date :18/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/057203  
    Filing Date :18/10/2017  
(87) International Publication No :WO 2018/075650  
(61) Patent of Addition to :NA  
Application Number :NA  
    Filing Date :NA  
(62) Divisional to Application :NA  
Number :NA  
    Filing Date :NA

(71)Name of Applicant :

1)MADRIGAL PHARMACEUTICALS, INC.

Address of Applicant :200 Barr Harbor Drive, Suite 400 West Conshohocken, PA 19428 U.S.A.

(72)Name of Inventor :

1)TAUB, Rebecca

(57) Abstract :

The present invention provides a method for treating a liver disorder or lipid disorder in a subject in need thereof with 2-(3,5-dichloro-4-((5-isopropyl-6-oxo-1,6-dihydropyridazin-3- yl)oxy)phenyl)-3,5-dioxo-2,3,4,5-tetrahydro-1,2,4-triazine-6-carbonitrile, a stereoisomer, a salt thereof, or a morphic form thereof.



No. of Pages : 44 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019283 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ANTI-IL1-RAP ANTIBODIES

(51) International classification	:C07K16/00C07K16/28
(31) Priority Document No	:62/408807
(32) Priority Date	:16/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056808
Filing Date	:16/10/2017
(87) International Publication No	:WO 2018/071910
(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)JIANG, Ying Ping

2)JUNUTULA, Jagath R.

3)PRESTA, Leonard G.

(57) Abstract :

Provided herein are antibodies specific for IL1-RAP.



No. of Pages : 90 No. of Claims : 84

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019287 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CATALYSTS

(51) International classification :C07F7/08C08F4/649C08F10/06  
(31) Priority Document No :16199646.7  
(32) Priority Date :18/11/2016  
(33) Name of priority country :EPO  
(86) International Application No:PCT/EP2017/079662  
    Filing Date :17/11/2017  
(87) International Publication No :WO 2018/091684  
(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)BOREALIS AG**

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(72)**Name of Inventor :**

**1)AJELLAL, Noureddine**

**2)RESCONI, Luigi**

**3)IZMER, Vyatcheslav V.**

**4)KONONOVICh, Dmitry S.**

**5)VOSKOBOYNIKOV, Alexander Z.**

**6)VIRKKUNEN, Ville**

---

(57) Abstract :

A complex of formula (I) wherein M is zirconium or hafnium; each X independently is a sigma ligand; L is a divalent bridge selected from -R"2C-, -R"2C-CR"2-, -R"2Si-, -R"2Si-SiR"2-, -R"2Ge-, wherein each R" is independently a hydrogen atom or a C1-C20-hydrocarbyl group optionally containing one or more silicon atoms or heteroatoms of Group 14-16 of the periodic table or fluorine atoms, and optionally two R" groups taken together can form a ring; R2 and R2" are each independently a C1-C20 hydrocarbyl group, -OC1- hydrocarbyl group or -SC1-20 hydrocarbyl group; R5 is a -OC1-20 hydrocarbyl group or -SC1-20 hydrocarbyl group, said R5 group being optionally substituted by one or more halo groups; R5" is hydrogen or a C1-20 hydrocarbyl group; -OC1-20 hydrocarbyl group or -SC1-20 hydrocarbyl group; said C1-20 hydrocarbyl group being optionally substituted by one or more halo groups; R6 and R6" are each independently a C1-20 hydrocarbyl group; -OC1-20 hydrocarbyl group or -SC1-20 hydrocarbyl group; each R1 and R1" are independently -CH2Rx wherein Rx are each independently H, or a C1-20 hydrocarbyl group, optionally containing heteroatoms.

No. of Pages : 121 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018846 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HIGH POWER DENSITY INSULATED EXHAUST HEATING SYSTEM

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(51) International classification :F01N5/02F23G7/00F01N3/027  
(31) Priority Document No :62/415042  
(32) Priority Date :31/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/020530  
    Filing Date :02/03/2017  
(87) International Publication No :WO 2018/080578  
(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)WATLOW ELECTRIC MANUFACTURING COMPANY**  
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Louis,Missouri 63146 U.S.A.  
(72)**Name of Inventor :**  
**1)EVERLY, Mark, D.**  
**2)OHSE, Jeremy**  
**3)CULBERTSON, David, P.**  
**4)WILLIAMS, Richard, T.**  
**5)JAMBOR, George**  
**6)WILSON, Jacob**

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(57) Abstract :

A heating apparatus for an exhaust gas system, or a fluid flow system, is provided by the present disclosure. The heating apparatus has a container body and includes at least one heater element and a support member disposed inside the container body and configured for restricting movement of the at least one heater element in the container body. The support member defines a tortuous geometry and flanks opposed sides of the at least one insulated heater element along a majority of a length of the at least one insulated heater element, wherein the support member increases heat transfer from the at least one heater element to an exhaust gas flowing through the container body.



No. of Pages : 13 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018847 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR ADJUSTING A FUEL/AIR RATIO OF AN INTERNAL COMBUSTION ENGINE

(51) International classification	:F02D41/14F02D41/02
(31) Priority Document No	:10 2016 222 108.6
(32) Priority Date	:10/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/077478
Filing Date	:26/10/2017
(87) International Publication No	:WO 2018/086906
(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 :Postfach 30 02 20 70442 Stuttgart  
Germany

(72)Name of Inventor :

**1)WEHMEIER, Kersten**

**2)PFEIL, Michael**

**3)FEY, Michael**

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(57) Abstract :

The invention relates to a method for adjusting a fuel/air ratio of an internal combustion engine (10), comprising a catalyst volume (26) with a first catalyst partial volume (26.1) and a second catalyst partial volume (26.2). The second catalyst partial volume (26.2) is arranged downstream from the first catalyst partial volume (26.1). An actual filling level of an exhaust gas constituent in the catalyst volume (26) is calculated from operating parameters of the internal combustion engine (10) and the exhaust system (14) using a computing model, and is adjusted to a nominal value by modifying the fuel/air ratio. The adjustment is carried out first for the second catalyst partial volume (26.2) and only later for the first catalyst partial volume (26.1).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018851 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PIPETTE AND METHOD FOR ADJUSTING A VOLUME OF A PIPETTE TO BE PIPETTED

(51) International classification	:B01L3/02
(31) Priority Document No	:10 2016 121 813.8
(32) Priority Date	:14/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/001141
Filing Date	:25/09/2017
(87) International Publication No	:WO 2018/086720
(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)IKA - WERKE GMBH & CO. KG

Address of Applicant :Janke und Kunkel Strasse 10 79219  
Staufen Germany

(72)Name of Inventor :

1)D-BELE, Philip

(57) Abstract :

The invention relates to pipettes (1) and a method for adjusting a volume of a pipette to be pipetted in order to improve the handling of a pipette. In the pipette (1) according to the invention, the actuating element (7) for actuating the dropping mechanism (6) for dropping a pipette tip forms a feedthrough (9) for the pipetting button (3). An actuating surface (10) of the actuating element (7) is thus enlarged such that in particular the operation of the dropping mechanism (6) of the pipette (1) is simplified and particularly convenient. Furthermore, according to the invention, the actuating element (7) is coupled to the volume adjustment mechanism (11) of the pipette and the adjustment of the volume to be pipetted by means of the pipette (1) is carried out by means of a movement of the actuating element (7).



No. of Pages : 19 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018852 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MANUAL METERING DEVICE AND MANUAL METERING DEVICE ARRANGEMENT

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(51) International classification	:B01L3/02
(31) Priority Document No	:102016121817.0
(32) Priority Date	:14/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/001306
Filing Date	:10/11/2017
(87) International Publication No	:WO 2018/086741
(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)SCHROER, Erhard

2)D-BELE, Philip

(57) Abstract :

In order to be able to adapt a manual metering device (1), particularly a pipette (2), to different sized hand measurements, the present manual metering device (1) is proposed which comprises a main body (3) to which at least one handle (5) or replacement handle can be or is secured in a detachable manner. Adaptation of the manual metering device (1) to users with different sized hands can occur by removing the handle (5) or by changing the handle (5) and replacing the handle (5) with a handle (5) having different dimensions.



No. of Pages : 11 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018873 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ON-LINE INPUT AND QUIT CONTROL METHOD AND DEVICE FOR VOLTAGE-SOURCE CONVERTER UNIT

(51) International classification	:H02J3/36	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:201611059115.3	<b>1)NR ELECTRIC CO., LTD</b> Address of Applicant :No. 69 Suyuan Avenue, Jiangning Nanjing, Jiangsu 211102 China
(32) Priority Date	:25/11/2016	<b>2)NR ENGINEERING CO., LTD</b>
(33) Name of priority country	:China	(72) <b>Name of Inventor :</b>
(86) International Application No Filing Date	:PCT/CN2017/112844 :24/11/2017	<b>1)LU, Jiang</b> <b>2)LU, Yu</b> <b>3)DONG, Yunlong</b> <b>4)WANG, Nannan</b> <b>5)WANG, Yongping</b> <b>6)ZHAO, Wenqiang</b> <b>7)TIAN, Jie</b> <b>8)LI, Haiying</b>
(87) International Publication No	:WO 2018/095405	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Provided is an on-line input and quit control method for a voltage-source converter unit. The method achieves the on-line input of a voltage-source converter unit by means of performing steps, such as charging control, unlocking transfer control and operation adjustment control, on a voltage-source converter to be input, and achieves the on-line quitting of the voltage-source converter unit by means of performing steps, such as direct-current voltage reduction control, bypass transfer control and converter locking control, on a voltage-source converter to be quit. Correspondingly, provided is an on-line input and quit control device for a voltage-source converter unit, which can achieve the on-line steady input and quitting of a voltage-source converter in a series-type hybrid direct-current power transmission system or a series-type flexible direct-current power transmission system, without affecting the normal and stable operation of other already running converters.



No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018760 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IN-WHEEL MOTOR DRIVE DEVICE

(51) International classification	:B60K7/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:2016-213119	<b>1)NTN CORPORATION</b>
(32) Priority Date	:31/10/2016	Address of Applicant :3-17, Kyomachibori 1-chome, Nishi-ku, Osaka-shi, Osaka 5500003 Japan
(33) Name of priority country	:Japan	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/JP2016/084734	<b>1)TAMURA Shiro</b>
Filing Date	:24/11/2016	<b>2)SUZUKI Minoru</b>
(87) International Publication No	:WO 2018/078890	<b>3)TAIKOU Shinya</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An in-wheel motor drive device (21) is composed of an electric motor part (A), a decelerator part (B), and a wheel bearing part (C), and is provided with a casing (22), wherein the decelerator part (B) has a structure for decelerating by means of a parallel shaft gear. This in-wheel motor drive device is characterized in that: the parallel shaft gear is composed of an input shaft (30a) that is connected to the electric motor part (A) and is provided with an input gear (30), one or more intermediate shafts (S1, S1") each of which are provided with an input side intermediate gear (31) and an output side intermediate gear (32), and an output shaft (36, 36") which is provided with a final output gear (35, 35") and is connected to the wheel bearing part (C); respective both end portions of the input shaft (30a), the intermediate shafts (S1, S1"), and the output shaft (36, 36") are rotatably supported by rolling bearings (42, 43, 44, 45, 48, 49); and, among two rolling bearings (45, 49) supporting the outboard side of the output shaft (35, 35") and the intermediate shafts (S1, S1") and two rolling bearings (44, 48) supporting the inboard side of the output shaft (35, 35") and the intermediate shafts (S1, S1"), at least two rolling bearings on one side are disposed at positions such that bearing widths thereof do not overlap with each other in the axial direction.



No. of Pages : 23 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018762 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MULTIPLE PHASE SHIFTER FOR ELECTROMAGNETIC WAVES OPERATING IN PARTICULAR IN A THREE-DIMENSIONAL MANNER

(51) International classification :H01Q1/24H01Q17/00H04B1/3827  
(31) Priority Document No :1659752  
(32) Priority Date :10/10/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/052777  
Filing Date :10/10/2017  
(87) International Publication No :WO 2018/069631  
(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)FRANCO GARCIA, Abel

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(72)Name of Inventor :

1)FRANCO GARCIA, Abel

(57) Abstract :

A multiple phase shifter for electromagnetic waves, having a plurality of phase-shifting modules (1, 2) each comprising at least two homothetic loops (3, 4, 5, 6), electrically insulated from each other and connected together by two distinct interloop electrical connection elements (7, 8, 9, 10) at a first opening (11, 12) in each of said loops (3, 4, 5, 6), comprising phase-shifting modules (1, 2) electrically connected to at least one other phase-shifting module (2, 1) by two intermodule connection elements (13, 14) electrically connecting one loop (4, 5) of each module (1, 2) at a second opening (15, 16). The phase-shifting modules (1, 2) are arranged in a plurality of groups (20, 21, 22, 23, 24, 25; 20", 21", 22", 23"; 30, 31, 32, 40, 41, 42) of phase-shifting modules (1, 2), each group (20, 21, 22, 23, 24, 25; 20", 21", 22", 23"; 30, 31, 32, 40, 41, 42) comprising at least two homothetic, concentric, interconnected phase-shifting modules (1, 2), at least the outer loop (17) of each group comprising intergroup connecting means consisting of at least one pair of intergroup connection elements (18, 19; 18", 19") arranged at a first opening in said loop (17).



No. of Pages : 10 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018768 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ENGINEERED ARTIFICIAL ANTIGEN PRESENTING CELLS FOR TUMOR INFILTRATING LYMPHOCYTE EXPANSION

(51) International classification	:C12N5/0784C12N5/078C12N5/0783
(31) Priority Document No	:62/415274
(32) Priority Date	:31/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/059271
Filing Date	:31/10/2017
(87) International Publication No	:WO 2018/081789
(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)VEERAPATHRAN, Anand

2)GOKULDASS, Aishwarya

3)RABINOVICH, Brian

4)LOTZE, Michael, T.

(57) Abstract :

In some embodiments, compositions and methods relating to isolated artificial antigen presenting cells (aAPCs) are disclosed, including aAPCs comprising a myeloid cell transduced with one or more viral vectors, such as a MOLM-14 or a EM-3 myeloid cell, wherein the myeloid cell endogenously expresses HLA-A/B/C, ICOS-L, and CD58, and wherein the one or more viral vectors comprise a nucleic acid encoding CD86 and a nucleic acid encoding 4-IBBL and/or OX40L and transduce the myeloid cell to express CD86 and 4-IBBL and/or OX40L proteins. In some embodiments, methods of expanding tumor infiltrating lymphocytes (TILs) with aAPCs and methods of treating cancers using TILs after expansion with aAPCs are also disclosed.



No. of Pages : 163 No. of Claims : 99

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018659 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : POSITIVE ELECTRODE ACTIVE MATERIAL PARTICLE AND MANUFACTURING METHOD OF  
POSITIVE ELECTRODE ACTIVE MATERIAL PARTICLE

(51) International classification :H01M4/525C01G51/00C01G53/00  
(31) Priority Document No :2016-200835  
(32) Priority Date :12/10/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/IB2017/056168  
Filing Date :06/10/2017  
(87) International Publication No :WO 2018/069799  
(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)MOMMA, Yohei**  
**3)TSURUTA, Ayae**  
**4)TAKAHASHI, Masahiro**  
**5)MIKAMI, Mayumi**  
**6)KAWAKAMI, Takahiro**

(57) Abstract :

Provided is a positive electrode active material which suppresses a reduction in capacity due to charge and discharge cycles when used in a lithium ion secondary battery. A covering layer is formed by segregation on a superficial portion of the positive electrode active material. The positive electrode active material includes a first region and a second region. The first region exists in an inner portion of the positive electrode active material. The second region exists in a superficial portion of the positive electrode active material and part of the inner portion thereof. The first region includes lithium, a transition metal, and oxygen. The second region includes magnesium, fluorine, and oxygen.



No. of Pages : 86 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :09/05/2019

(21) Application No.201917018666 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : RANDOM ACCESS CHANNEL DESIGN METHODS AND APPARATUS

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(51) International classification	:H04W74/08
(31) Priority Document No	:62/416929
(32) Priority Date	:03/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CN2017/109247
Filing Date	:03/11/2017
(87) International Publication No	:WO 2018/082639
(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)LIN, Yicheng**

**2)BALIGH, Mohammadhadi**

**3)VILAIPORNSAWAI, Usa**

**4)AU, Kelvin Kar Kin**

**5)FARMANBAR, Hamidreza**

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(57) Abstract :

In response to receiving a random access channel message from a User Equipment (UE), a network element in a communication network may initiate a random access procedure, for example. The random access channel message includes multiple sequences, such as a first sequence associated with a group of UEs that includes the UE and a second sequence associated with the UE, and may be in any one of multiple different message formats. The random access procedure could include respective search stages for each of the multiple sequences. Power control for random access message transmission is also implemented by the UE in some embodiments.



No. of Pages : 70 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018675 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ENHANCEMENT OF MSC IMMUNOMODULATORY PROPERTIES BY TREPROSTINIL

(51) International classification :A61K35/28C12N5/0789A61P9/00  
(31) Priority Document No :62/411950  
(32) Priority Date :24/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/057863  
Filing Date :23/10/2017  
(87) International Publication No :WO 2018/080990  
(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 :1040 Spring Street Silver Spring, Maryland 20910 U.S.A.

(72)Name of Inventor :

1)ILAGAN, Roger Marquez

2)HOGAN, Sarah

3)CHEADLE, John B.

(57) Abstract :

Provided are methods for treating or preventing vasculopathy comprising administering to a subject in need thereof, a composition comprising a mesenchymal stem cell (MSC), or a part of a culture medium that has been in contact with the MSC and comprises one or more components of the MSC, or an exosome derived from the MSC. Pharmaceutical compositions suitable for such treatment is also provided.



No. of Pages : 31 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018676 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : EXTRACT OF ANIGOZANTHOS FLAVIDUS FOR COSMETIC USE

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(51) International classification :A61Q19/08A61K8/97A61K8/9783  
(31) Priority Document No :16/60038  
(32) Priority Date :17/10/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/IB2017/056370  
Filing Date :13/10/2017  
(87) International Publication No :WO 2018/073714  
(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)INTERNATIONAL FLAVORS & FRAGRANCES INC  
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(72)Name of Inventor :  
1)ATTIA, Joan  
2)SHORTT, Martin Peter  
3)BEGIN-LAVALLEE, ValOrie  
4)LOING, Estelle

(57) Abstract :

The invention relates to the use of an extract of Anigozanthos flavidus as an anti-aging agent, in particular in order to reduce the appearance of fine lines and wrinkles and to lift, smooth, tone, restructure or reshape the skin.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018678 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DOWNLINK INFORMATION TRANSMISSION METHOD APPARATUS AND DEVICE

(51) International classification :H04W72/04H04L5/00H04L1/00  
(31) Priority Document No :201610965310.6  
(32) Priority Date :04/11/2016  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2017/103991  
Filing Date :28/09/2017  
(87) International Publication No:WO 2018/082419  
(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)HUAWEI TECHNOLOGIES CO., LTD.

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(72)Name of Inventor :

1)MA, Ruixiang

2)LYU, Yongxia

(57) Abstract :

The present application provides a downlink information transmission method, apparatus and device. The method comprises: encode information into a plurality of transmission blocks, determine a time frequency resource for transmitting each transmission block, and send downlink resource indication information to a user equipment, the downlink resource indication information indicating a time frequency resource position occupied by an Mth transmission block; send a corresponding transmission block on each time frequency resource; the user equipment receives the transmission block according to the downlink transmission indication information and decode the transmission block to obtain the information. Downlink resource indication information merely indicates a resource for one transmission block, and a terminal device is able to determine time frequency resource positions of other transmission blocks according to positions parameters of the other transmission blocks and receive and decode the other transmission blocks. By bearing same information bits by means of multiple transmission blocks, transmission reliability can be effectively improved, there is no need to prompt about time frequency resources for each transmission block, and the downlink control signaling consumption can be effectively reduced.



No. of Pages : 55 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018874 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : UNIVERSAL PUBLIC TRANSPORT AND UTILITIES DISTRIBUTION SYSTEM

(51) International classification	:B61B1/00B61B3/00E01C1/00
(31) Priority Document No	:NC2016/0003999
(32) Priority Date	:10/11/2016
(33) Name of priority country	:COLOMBIA
(86) International Application No	:PCT/CO2017/000009
Filing Date	:03/11/2017
(87) International Publication No	:WO 2018/086636
(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)SUAREZ AJO, David Williams**

Address of Applicant :Carrera 25 No. 66-44. Apto: 602. Barrio Siete de Agosto. Bogota, DC. Codigo Postal: 111221

COLOMBIA

(72)Name of Inventor :

**1)SUAREZ AJO, David Williams**

(57) Abstract :

The invention relates to a free-standing, overhead metal structure of the suspension bridge type, in which the main platform is designed over three levels. The upper level is intended for the passage of motor vehicles. The intermediate level is intended for the transportation, transmission and distribution of all existing public utilities, as well as other possible services. The lower level is intended for an urban public transport system. Owing to its free-standing overhead design, the system of the invention can be built in cities following the layout of existing roads.



No. of Pages : 12 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018875 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONNECTION MANAGEMENT METHOD AND APPARATUS AND COMPUTER STORAGE MEDIUM

(51) International classification

:H04W36/00

(31) Priority Document No

:201610889291.3

(32) Priority Date

:11/10/2016

(33) Name of priority country

:China

(86) International Application No

:PCT/CN2017/105778

Filing Date

:11/10/2017

(87) International Publication No

:WO 2018/068738

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

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CORPORATION**

(72)Name of Inventor :

**1)SUN, Tao  
2)WANG, Dan  
3)CAI, Hui**

---

(57) Abstract :

Disclosed are a connection management method and apparatus, and a computer storage medium. The method comprises: detecting relevant information about a terminal device; and based on the relevant information about the terminal device, determining whether to adjust the type of a connection path between the terminal device and a first forwarding plane, wherein the type of the connection path between the terminal device and the first forwarding plane at least comprises: a first-type path being a connection path directly established, by means of an access network, between the terminal device and the first forwarding plane, and a second-type path being a connection path established, by means of the access network via a second forwarding plane, between the terminal device and the first forwarding plane.



No. of Pages : 37 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018884 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : TERMINAL DEVICE SCHEDULING METHOD NETWORK DEVICE AND TERMINAL DEVICE

(51) International classification	:H04W72/04
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2016/105471
Filing Date	:11/11/2016
(87) International Publication No	:WO 2018/086064
(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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Dongguan, Guangdong 523860 China

(72)Name of Inventor :

- 1)TANG, Hai
- 2)YANG, Ning
- 3)XU, Hua

(57) Abstract :

Embodiments of the present invention provide a terminal device scheduling method, a network device, and a terminal device. The method comprises: a network device determines first configuration information, the first configuration information being used for instructing a terminal device to perform execution to pre-schedule a time-domain resource and a frequency-domain resource used by a service; and the network device sends the first configuration information to the terminal device. By means of the terminal device scheduling method provided in the embodiment of the present invention, the terminal device can be more flexibly scheduled.



No. of Pages : 63 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018889 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ADAPTER FOR PIVOTING A LENS

(51) International classification :G03B5/06G03B5/08G03B17/00  
(31) Priority Document No :10 2016 121 646.1  
(32) Priority Date :11/11/2016  
(33) Name of priority country :Germany  
(86) International Application No:PCT/EP2017/078649  
    Filing Date :08/11/2017  
(87) International Publication No :WO 2018/087170  
(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)JOS. SCHNEIDER OPTISCHE WERKE GMBH

Address of Applicant :Ringstrae 132 55543 Bad Kreuznach Germany

(72)Name of Inventor :

1)SCHOTTNER, Michael

2)HTSCH, Stefan

---

(57) Abstract :

The invention relates to an adapter (10) for pivoting a lens relative to an image sensor in a camera housing coupled by means of the adapter (10), comprising a lens-side supporting ring (20) and a housing-side supporting ring (30), which are mounted in sliding fashion relative to one another by correspondingly cylindrically curved sliding surfaces (22, 32) facing one another, the virtual cylinder axis (Z) of the cylindrical curvature of the sliding surfaces (22, 32) lying in a plane of the image sensor. The invention is characterized in that a transmission lever (50) pivotable about a lever axis (H) aligned parallel to the virtual cylinder axis (Z) is mounted on the lens-side supporting ring (20), the first lever arm (51) of which transmission lever (50) extends in a circumferential direction on the lens side of the lever axis (H) and, via a helical groove (61) and a coupling body (511) engaging into the latter, is coupled to a concentric adjusting ring (42) mounted rotatably on the lens-side supporting ring (20) and the second lever arm (52) of which transmission lever (50) extends in an axial direction on the housing side and is supported on an anchor structure (70) fixed to the housing-side supporting ring (30).



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019288 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROCESS FOR PRODUCING BTX FROM A C5-C12 HYDROCARBON MIXTURE

(51) International classification :C10G47/18B01J37/08B01J37/02  
(31) Priority Document No :16194126.5  
(32) Priority Date :17/10/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/IB2017/056442  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/073743  
(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)GHOSH, Ashim Kumar

2)KHANMAMEDOVA, Alla

3)STEVENSON, Scott A.

(57) Abstract :

The invention relates to a method for preparing a hydrocracking catalyst comprising: (i) providing a shaped body comprising a zeolite and a binder, wherein the shaped body has been obtained by shaping, calcination and cooling, wherein the zeolite is ZSM-5 having a silica (SiO<sub>2</sub>) to alumina (Al<sub>2</sub>O<sub>3</sub>) molar ratio of 25-75; (ii) optionally drying the shaped body at a temperature of 100-300°C for a period of at least 1 hour; (iii) depositing a hydrogenation metal on the shaped body by an impregnation for a period of at most 2 hours such that the amount of the hydrogenation metal is 0.010-0.30 wt% with respect to the total catalyst; (iv) optionally rinsing the metal deposited shaped body with water; and (v) heat-treating the metal deposited shaped body in air at a temperature of 250-300°C for a period of 1-5 hours; wherein the catalyst comprises a total of less than 0.05 wt% sodium and cesium.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019309 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : FIXATION OF A BATTERY MODULE IN A BATTERY MODULE COMPARTMENT OF AN ENERGY STORAGE SYSTEM

(51) International classification :H01M2/10H01M10/052B60K1/04  
(31) Priority Document No :62/414247  
(32) Priority Date :28/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058850  
Filing Date :27/10/2017  
(87) International Publication No :WO 2018/081622  
(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)INEVIT LLC

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(72)Name of Inventor :

1)FEES, Heiner  
2)TRACK, Andreas  
3)EICHHORN, Alexander  
4)MAISCH, Ralf  
5)DAMASKE, Jrg

(57) Abstract :

In an embodiment, an expansion component (e.g., expanding foam element, inflatable pad, a pneumatic or hydraulic mechanism, etc.) is arranged inside of a battery module compartment (e.g., on a bottom interior surface of the battery module compartment). A battery module is inserted into the battery module component and is fixated, or secured, within the battery module compartment at least in part based upon the expanding component which starts to expand or continues to expand after the insertion. In a further embodiment, the battery module may be removed from the battery module compartment after a contraction function (e.g., collapse of the foam element, deflation of the inflatable pad, etc.) of the expansion component is initiated.



No. of Pages : 24 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917019310 A

(19) INDIA

(22) Date of filing of Application :15/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : LIQUID COOLANT LEAK PROTECTION FOR BATTERY MODULE OF AN ENERGY STORAGE SYSTEM

(51) International classification :H01M10/63H01M10/6568H01M10/6557  
(31) Priority Document No :62/414254  
(32) Priority Date :28/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No Filing Date :PCT/US2017/058862 :27/10/2017  
(87) International Publication No :WO 2018/081631  
(61) Patent of Addition to Application Number Filing Date :NA :NA  
(62) Divisional to Application Number Filing Date :NA :NA

(71)Name of Applicant :

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(72)Name of Inventor :

1)FEES, Heiner

2)TRACK, Andreas

3)EICHHORN, Alexander

4)MAISCH, Ralf

5)DAMASKE, Jrg

(57) Abstract :

In an embodiment, a cooling manifold for cooling battery modules in a battery housing of an electric vehicle is configured with a predetermined leak component arranged at a defined section of the cooling manifold that is outside of the battery housing. In response to crash forces, the predetermined leak component is configured to cause the liquid coolant to leak out of the defined section of the cooling manifold (e.g., to avoid flooding of the battery housing). In a further embodiment, a controller determines a pressure differential between inlet and outlet sides of a cooling tube of a battery module. A valve is configured to selectively shut off a flow of liquid coolant through the cooling tube based at least in part on whether the determined differential exceeds the threshold (e.g., indicative of a leak condition inside the battery module).



No. of Pages : 23 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019312 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A NOVEL CRYSTALLINE FORM OF OXAMYL, A PROCESS FOR ITS PREPARATION AND USE OF THE SAME

(51) International classification	:C07C323/47A01N47/10
(31) Priority Document No	:2016265996
(32) Priority Date	:29/11/2016
(33) Name of priority country	:Australia
(86) International Application No	:PCT/CN2017/107090
Filing Date	:20/10/2017
(87) International Publication No	:WO 2018/099203
(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)JIANGSU ROTAM CHEMISTRY CO., LTD.

Address of Applicant :No. 88 Rotam Road, ETDZ Kunshan, Jiangsu 215301 China

(72)Name of Inventor :

1)BRISTOW, James, Timothy

(57) Abstract :

The present invention describes a crystalline form of oxamyl of formula (I), a crystal preparation process, the analyses of the crystal through various analytical methods and using the crystalline form to prepare a stable agrochemical formulation. The invention also describes the use of various solvents towards the crystalline form preparation conditions.



No. of Pages : 22 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019313 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ACYLATED GLP-1/GLP-2 DUAL AGONISTS

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(51) International classification :C07K14/605A61K38/26  
(31) Priority Document No :PA201600757  
(32) Priority Date :09/12/2016  
(33) Name of priority country :Denmark  
(86) International Application No :PCT/EP2017/082290  
    Filing Date :11/12/2017  
(87) International Publication No :WO 2018/104561  
(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)DUE LARSEN, Bjarne

2)GRIFFIN, Jonathan

3)GIEHM, Lise

4)EDWARDS, Alistair Vincent Gordon

(57) Abstract :

The invention relates to compounds having agonist activity at the GLP-1 (glucagon-like-peptide 1) and GLP-2 (glucagon-like peptide 2) receptors. The compounds find use, inter alia, in the prophylaxis or treatment of intestinal damage and dysfunction, regulation of body weight, and prophylaxis or treatment of metabolic dysfunction.

No. of Pages : 81 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018769 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IL15/IL15RA HETERODIMERIC FC-FUSION PROTEINS

(51) International classification :C07K14/54C07K14/715C07K19/00  
(31) Priority Document No :62/408655  
(32) Priority Date :14/10/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/056829  
Filing Date :16/10/2017  
(87) International Publication No :WO 2018/071919  
(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 :

1)BERNETT, Matthew  
2)RASHID, Rumana  
3)DESJARLAIS, John  
4)VARMA, Rajat  
5)BONZON, Christine

(57) Abstract :

The present disclosure is directed to several IL15/IL15R $\alpha$  heterodimeric Fc fusion proteins.



No. of Pages : 97 No. of Claims : 81

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018770 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : BISPECIFIC HETERO DIMERIC FUSION PROTEINS CONTAINING IL-15/IL-15RALPHA FC-FUSION PROTEINS AND PD-1 ANTIBODY FRAGMENTS

(51) International classification :C07K14/54C07K14/715C07K16/28  
(31) Priority Document No :62/408655  
(32) Priority Date :14/10/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/056826  
Filing Date :16/10/2017  
(87) International Publication No :WO 2018/071918  
(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)DESJARLAIS, John  
4)VARMA, Rajat  
5)BONZON, Christine

(57) Abstract :

The present disclosure is directed to bispecific heterodimeric Fc fusion proteins comprising an IL-15/IL-15R $\alpha$  Fc-fusion protein and a PD-1 antibody fragment-Fc fusion protein.



No. of Pages : 114 No. of Claims : 57

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018773 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ALL-SOLID STATE LI ION BATTERIES COMPRISING MECHANICALLY FLEXIBLE CERAMIC ELECTROLYTES AND MANUFACTURING METHODS FOR THE SAME

(51) International classification :H01M10/0525H01M10/056H01M10/0562  
(31) Priority Document No :62/419423  
(32) Priority Date :08/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/060546  
Filing Date :08/11/2017  
(87) International Publication No :WO 2018/089430  
(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)FISKER INC.

Address of Applicant :1580 Francisco Street, Ste. B Los Angeles, CA 90501 U.S.A.

(72)Name of Inventor :

1)ALBANO, Fabio

(57) Abstract :

An all solid-state Li-ion battery having a mechanically flexible, ceramic, solid-state electrolyte having a lithium-conducting oxide composition selected from the group consisting of perovskite-type oxides, NASICON-structured lithium electrolytes, and garnet-type structures containing transition metal oxides. In particular, the garnet cubic lithiumlanthanum zirconium oxide (c-LLZO), c-LLZO-LSCO composite and varous lithium ion conducting sulfides are disclosed.



No. of Pages : 31 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018775 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SECURE INJECTION NEEDLE

(51) International classification	:A61M5/32A61B5/153
(31) Priority Document No	:201610993369.6
(32) Priority Date	:11/11/2016
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2016/110122
Filing Date	:15/12/2016
(87) International Publication No	:WO 2018/086192
(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)WANG, Xingguo**

(57) Abstract :

A secure injection needle. An injection needle (1) consists of a needle hub (101) and a needle tube (102). The needle hub (101) is connected to a secure protective sleeve (2) by means of a flexible folding mechanism (4). Two symmetrical needle hub hooks (103) are provided on a side wall of the needle hub (101). Two symmetrical sleeve hooks (203) are provided in a hollow cavity of the secure protective sleeve (2). The two sleeve hooks (203) are engaged with the two needle hub hooks (103). Sleeve hook stop blocks (204) are provided on outer sides of the two sleeve hooks (203). By using the two needle hub hooks (103) provided on the side wall of the needle hub (101) and the two sleeve hooks (203) provided in the cavity of a secure protective sleeve (2), the injection needle achieves easy and convenient snap-fitting between the sleeve hooks (203) and the needle hub hooks (103); the required thrust is only about 0.5 N, so that a single-hand operation can be achieved. By further providing the sleeve hook stop blocks (204) on the outer sides of the sleeve hooks (203), disengagement between the sleeve hooks (203) and the needle hub hooks (103) can be effectively prevented.



No. of Pages : 13 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018778 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND SYSTEM FOR STORING AND ACCESSING BIOINFORMATICS DATA

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(51) International classification :G06F19/28G06F19/22  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/EP2016/074301  
    Filing Date :11/10/2016  
(87) International Publication No :WO 2018/068828  
(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)RENZI, Daniele

2)ZOIA, Giorgio

---

(57) Abstract :

Method and system for storing and accessing genomic data. Genomic sequencing data are partitioned into access units of different types based on the predictability of the contained data. Access units are classified in different types and the structuring enables selective access and selective processing of genomic data.



No. of Pages : 28 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018782 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : PRINTING METHOD

(51) International classification	:G06F3/12
(31) Priority Document No	:16203963.0
(32) Priority Date	:14/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/079443
Filing Date	:16/11/2017
(87) International Publication No	:WO 2018/108434
(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)COLORFIT GBR

(72)Name of Inventor :

1)DAUTH, Frank

2)STEITZ, Rolf-Michael

3)UNKEL, Markus

---

(57) Abstract :

The present invention is related to a printing method, comprising the steps of providing in relation to data of a print job to be carried out at least one prediction for print data for at least one selection of print parameters using at least one set of sample print data (S107), and optionally adjusting at least one print parameter to provide a prediction which comes sufficiently close to the data of the print job (S109). The present invention is furthermore related to a software product for performing the method of the present invention, and to the use of said software product for determining printing parameters for a printing method.



No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917019314 A

(19) INDIA

(22) Date of filing of Application :15/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPACT HEAD-UP DISPLAY THAT INCLUDES A FLAT LENS WITH A STRUCTURED PATTERN

(51) International classification	:G02B27/01	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)SAAB AB</b> Address of Applicant :581 88 Linköping Sweden
(32) Priority Date	:NA	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:NA	<b>1)ZANDBERG, Johan</b> <b>2)HOLMBERG, Anna-Karin</b> <b>3)ANDERSSON, Stefan</b>
(86) International Application No	:PCT/SE2016/051171	
Filing Date	:25/11/2016	
(87) International Publication No	:WO 2018/097774	
(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 head-up-display (100), HUD. The HUD is arranged to project an image to at least one eye (180) of a user of the HUD. The HUD comprises an image source (130). The image source can be arranged to provide the image to be projected via a curved image plane. The HUD further comprises an optical component (160). The optical component comprises at least one free-form surface (161).The optical component (160) is arranged in an optical path between the image source (130) and the intended position of said at least one eye (180) of the user of the HUD. The HUD further comprises a flat lens (150) which comprises a structured lens pattern (510) on at least one of its surfaces (152).The structured lens pattern (510) has a feature (511, 512, 513,) size in the order of 10 µm up to 10 mm. The flat lens (150) is arranged in the optical path between the image source (130) and the intended position of said at least one eye (180) of the user of the HUD. The HUD further comprises a combiner (140). At least one surface (141, 142) of the combiner (140) is a free-form surface. The combiner (140) is arranged in the optical path between the optical component(160) and the intended position of said at least one eye (180) of the user of the HUD. The present invention also relates to an airborne vehicle(10), such as an airplane.



No. of Pages : 16 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019324 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPOSITION AND METHOD FOR MAKING PICOCRYSTALLINE ARTIFICIAL BORANE ATOMS

(51) International classification	:C01B35/00C01B35/10	(71) <b>Name of Applicant :</b> <b>1)SEMINUCLEAR, INC.</b> Address of Applicant :P. O. Box 261237 Plano, TX 75026 U.S.A.
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/US2016/063933	(72) <b>Name of Inventor :</b> <b>1)CURRAN, Patrick</b>
Filing Date	:29/11/2016	
(87) International Publication No	:WO 2018/101905	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Materials containing picocrystalline quantum dots that form artificial atoms are disclosed. The picocrystalline quantum dots (in the form of boron icosahedra with a nearly-symmetrical nuclear configuration) can replace corner silicon atoms in a structure that demonstrates both short range and long-range order as determined by x-ray diffraction of actual samples. A novel class of boron-rich compositions that self-assemble from boron, silicon, hydrogen and, optionally, oxygen is also disclosed. The preferred stoichiometric range for the compositions is  $(B_{12}H_w)_x Si_y Oz$  with  $3 \leq w \leq 5$ ,  $2 \leq x \leq 4$ ,  $2 \leq y \leq 5$  and  $0 \leq z \leq 3$ . By varying oxygen content and the presence or absence of a significant impurity such as gold, unique electrical devices can be constructed that improve upon and are compatible with current semiconductor technology.



No. of Pages : 80 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019325 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD AND MASK FOR MANUFACTURING A WATERMARKED PAPER METHOD FOR MANUFACTURING THE OBTAINED WATERMARKED PAPER MASK AND METHOD FOR AUTHENTICATING THE WATERMARKED PAPER

(51) International classification	:D21F1/44
(31) Priority Document No	:1661873
(32) Priority Date	:02/12/2016
(33) Name of priority country	:France
(86) International Application No Filing Date	:PCT/EP2017/081175 :01/12/2017
(87) International Publication No	:WO 2018/100150
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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1)OBERTHUR FIDUCIAIRE SAS

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France

(72)Name of Inventor :

1)THIERRY, Yvan  
2)MALLOL, St©phane

(57) Abstract :

Method for manufacturing a security paper, including the step consisting in: - producing a watermark using a mask (10) attached to a wire of a paper machine, the mask including a network of elements for forming light areas (18) on the watermark connected by linking elements (15), said light areas being arranged like the pixels of a raster image, said linking elements being fined enough that at least some of said elements for forming light areas (18) result in the formation of pixels of the raster image appearing to the naked eye in transmitted light as isolated pixels.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019326 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DISPENSING DEVICE FOR DISPENSING LIQUIDS OR FLUIDS

(51) International classification	:B05B11/00B65D83/30
(31) Priority Document No	:102016000123591
(32) Priority Date	:06/12/2016
(33) Name of priority country	:Italy
(86) International Application No	:PCT/IB2017/057406
Filing Date	:27/11/2017
(87) International Publication No	:WO 2018/104821
(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)SANTAGIULIANA, Evans

(57) Abstract :

The invention is a dispensing device (1) suited to dispense a liquid or a fluid held in a container (C), comprising an engagement portion (10) for the mutual engagement of the device (1) and the container (C), drawing and dispensing means (20) suited to draw the fluid or liquid from the container (C) and respectively dispense it, a main operating body (30) suited to operate the drawing and dispensing means (20) through pressure exerted along a pressing direction (P), the main operating body (30) being suited to be moved with respect to the engagement portion (10), when subjected to pressure, between a rest position and an activating position for the operation of the drawing and dispensing means (20), and a dispensing nozzle (40), fixed to the main operating body (30) and provided with a dispensing duct (41) suited to dispense the fluid or liquid, wherein the dispensing nozzle (40) can be switched with respect to the main operating body (30), through a rotary movement, between a dispensing position, in which the dispensing duct (41) is in communication with the inside of the main operating body (30), and a non-dispensing position. This device comprises constraining means (50) suited to prevent the movement of the main operating body (30) along the pressing direction (P) with respect to the engagement portion (10) when the dispensing nozzle (40) is in the non-dispensing position. The invention concerns also a system for dispensing a fluid or a liquid, comprising a container (C) suited to contain the fluid or liquid.



No. of Pages : 14 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018890 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : APPARATUS AND METHODS FOR CONTROLLED ELECTROCHEMICAL SURFACE MODIFICATION

(51) International classification	:C25D5/02H01M4/02G01N27/30
(31) Priority Document No	:62/432376
(32) Priority Date	:09/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/NZ2017/050160 Filing Date :11/12/2017
(87) International Publication No	:WO 2018/106128
(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)MANUFACTURING SYSTEMS LIMITED**

Address of Applicant :PO Box 100471 North Shore 00745 Auckland New Zealand

(72)**Name of Inventor :**

**1)HOSSEINI, Ali**

**2)PARTRIDGE, Ashton**

(57) Abstract :

The invention is directed to a method of focussing charge density (voltage or current) at a functional surface on an electrode array, the method comprising the steps of: a. providing an electrode array comprising: i. a support substrate; ii. at least one surface structure protruding from an upper surface of the support substrate wherein the surface structure includes an electrode layer; iii. a functional surface on the electrode layer, wherein the functional surface is on an upper portion of the at least one surface structure and wherein the functional surface is adapted to contact an active species in a conductive solution; b. exposing the surface structure to the conductive solution comprising an active species, in which a counter electrode is positioned; and c. establishing a current or voltage between the functional surface on the electrode layer and the counter electrode such that the charge density is focussed at the functional surface on the electrode layer. The invention is also directed to electrode arrays that may be used in that method.



No. of Pages : 86 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018891 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DATA PACKET ROUTING IN A REMOTE UNIT

(51) International classification :H04L12/54H04W40/00H04W48/18  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country:NA  
(86) International Application No :PCT/EP2017/052593  
Filing Date :07/02/2017  
(87) International Publication No :WO 2018/145723  
(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)MOTOROLA MOBILITY LLC

Address of Applicant :222 W. Merchandise Mart Plaza, Suite 1800 Chicago, Illinois 60654 U.S.A.

2)SALKINTZIS, Apostolis

(72)Name of Inventor :

1)SALKINTZIS, Apostolis

(57) Abstract :

Apparatuses, methods, and systems are disclosed for data packet routing in a remote unit (105). An apparatus (500) includes a processor (505) that receives (605) a data packet (405) to be transmitted and determines (610) packet routing information for the data packet (405), the packet routing information comprising at least one of: network slice information (320), a continuity type (325), and a data network name (330) for the data packet (405). The processor also determines (615) whether the packet routing information matches a network connection (240) and sends the data packet (405) over a matching network connection, in response to determining that the packet routing information matches a network connection (240). In some embodiments, the apparatus (500) includes a transceiver (525, 530) that communicates with a mobile communication network (130) using at least one network connection of a first connection type (240) associated with network slice information, a continuity type, and a DNN.



No. of Pages : 25 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917018901 A

(19) INDIA

(22) Date of filing of Application :11/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : MICROSTRUCTURED NOZZLE

(51) International classification	:B05B1/02
(31) Priority Document No	:62/418195
(32) Priority Date	:06/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CN2017/109589
Filing Date	:06/11/2017
(87) International Publication No	:WO 2018/082699
(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)MICROBASE TECHNOLOGY CORP.**

Address of Applicant :756, Jiadong Rd., Bade Dist. Taoyuan City, Taiwan 33464 China

(72)Name of Inventor :

**1)HSIEH, Shu-Pin**

**2)CHEN, Yi-Tong**

**3)LIN, Yi-Ting**

**4)CHEN, Po-Chuan**

(57) Abstract :

A microstructured passage module (1) for aerosolizer (90) is disclosed. The module (1) includes a plate (10) overlaid by a cover, an entrance (102), an exit (104), a plurality of protrusions (5) and a plurality of pillars (4). The protrusions (5) and pillars (4) project from and are integral parts of the plate (10). Further, the plate (10) can be divided into a first zone proximate to the entrance (102) and a second zone proximate to the exit (104). The protrusions (5) are arranged into parallel rows in a direction from the entrance (102) to the exit (104) and form parallel passages (18) therebetween in the first zone for the liquid to flow along. The protrusions (5) in each column (52) are spaced from one another by tunnels (17). The pillars (4) are interposingly disposed in the second zone and define certain channels (16) therebetween. Moreover, a plurality of pillars (4) further disposed in the passages (18) increase a flow resistance for the liquid flowing through the passages (18)



No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018903 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : APPARATUS FOR PRESSURIZED LIQUID TRANSFUSION

(51) International classification	:A61M11/00B05B11/00
(31) Priority Document No	:62/418195
(32) Priority Date	:06/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CN2017/109590
Filing Date	:06/11/2017
(87) International Publication No	:WO 2018/082700
(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 :756, Jiadong Rd., Bade Dist. Taoyuan City, Taiwan 33464 China

(72)Name of Inventor :

1)HSIEH, Shu-Pin

2)CHEN, Yi-Tong

3)LIN, Yi-Ting

4)CHEN, Po-Chuan

5)SHEN, Chiu-Ju

(57) Abstract :

An apparatus suitable for pressurized liquid transfusion is disclosed. The apparatus includes a nozzle assembly (214) enclosed by the combination of a casing (212) and a check nut (202). The nozzle assembly (214) includes an elastomeric ring (206) and a nozzle (208) received by the combination of a cap (210) and a receptacle (204). The elastomeric ring (206) surrounds the nozzle (208) and a proper seal is created there between. The dimension of the internal contour of the elastomeric ring (206) is a bit smaller than the nozzle (208). The elastomeric ring (206) is stretched so as to receive the nozzle (208). Additional processing may be applied to the elastomeric ring (206) to achieve a different type of proper seal. Pressurized liquid passes through the apparatus so as to be transfused. The aforementioned seal serves to avoid leakage or pressure loss at the apparatus so as to avoid undesired aerosolization effects of an aerosolizer (10) the apparatus is installed in.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018783 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : KNEE JOINT

(51) International classification	:A61F2/64A61F2/70
(31) Priority Document No	:2016-219496
(32) Priority Date	:10/11/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/031190
Filing Date	:30/08/2017
(87) International Publication No	:WO 2018/087997
(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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Tokyo 1138654 Japan

(72)Name of Inventor :

1)SUN, Xiaojun

2)INABA, Masayuki

3)OKADA, Kei

4)ASANO, Yuki

(57) Abstract :

The present invention provides a small and light knee joint that has good energy efficiency and is able to move in a wider movement range. The present invention also provides a comparatively cheap, active knee joint. A drive unit 1 moves a driven member 21. An elastic member 22 is disposed between the driven member 21 and a linear motion unit 23. The linear motion member 23 elastically moves via the elastic member 22 in at least one direction as the driven member 21 moves. A crank mechanism 3 converts linear motion of the linear member 23 to rotational motion, thereby allowing the knee joint to bend and straighten.



No. of Pages : 23 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018793 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : REFRIGERANT, HEATTRANSFER COMPOSITIONS, METHODS, AND SYSTEMS

(51) International classification	:C09K5/04
(31) Priority Document No	:62/445800
(32) Priority Date	:13/01/2017
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2018/013647
Filing Date	:12/01/2018
(87) International Publication No	:WO 2018/132757
(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)CLOSE, Joshua

2)SETHI, Ankit

3)YANA MOTTA, Samuel, F.

4)PETERSEN, Michael

5)POTTKER, Gustavo

6)VOGL, Ronald, Peter

(57) Abstract :

Disclosed are refrigerants, and heat transfer compositions, heat transfer systems and heat transfer methods containing such refrigerants, wherein the refrigerant comprises at least about 97% by weight of the following three components (a) - (c) and the following fourth component if present: (a) trans-1 -chloro-3,3,3-trifluoropropene (HFCO-1233zd(E)), (b) trans-1,3,3,3-tetrafluoropropene (HFO-1234ze(E)), (c) trifluoroiodomethane (CF3I), and. (d) 1,1,1,2,3,3, 3-heptafluoropropane (HFC-227ea).



No. of Pages : 113 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018800 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHODS AND APPARATUS FOR AUTHORIZING AUTOMATED TELLER MACHINE TRANSACTIONS USING BIOMETRIC DATA

(51) International classification	:G07F19/00G06Q20/40
(31) Priority Document No	:10201609117T
(32) Priority Date	:01/11/2016
(33) Name of priority country	:Singapore
(86) International Application No	:PCT/US2017/055708
Filing Date	:09/10/2017
(87) International Publication No	:WO 2018/084998
(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)MASTERCARD INTERNATIONAL INCORPORATED**

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(72)**Name of Inventor :**

**1)SHARMA, Piyush**

**2)RODRIGUES, Elson**

(57) Abstract :

A method in an automated teller machine of processing a transaction is disclosed. The method comprises: receiving inputs indicating an account identifier and a unique personal identifier of a customer; sensing biometric data of the customer using a biometric sensor; receiving a transaction indication indicating a transaction; and generating a transaction authorization request, the transaction authorization request comprising the account identifier, the unique personal identifier of the customer, the biometric data of the customer and the transaction indication.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018808 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PHOSPHOROUS CONTAINING COMPOUNDS AND USES THEREOF

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(51) International classification :C10M135/10C10N30/06C10M163/00  
(31) Priority Document No :62/415492  
(32) Priority Date :31/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/059388  
Filing Date :31/10/2017  
(87) International Publication No :WO 2018/081822  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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(71)Name of Applicant :

1)AFTON CHEMICAL CORPORATION

Address of Applicant :500 Spring Street Richmond, VA 23219 U.S.A.

(72)Name of Inventor :

1)EDWARDS, David

(57) Abstract :

The invention relates to phosphorous-containing compounds useful as antiwear additive components, lubricant additive compositions and lubricant compositions each comprising such compounds, methods for making and using the same, including methods of lubricating machines and machine parts and methods of extending the useful life of elastomeric seal components of such machines.

No. of Pages : 54 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018810 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : DRINKING-WATER SUPPLY DEVICE AND METHOD FOR CONTROLLING SAME

(51) International classification	:B67D1/07B67D1/12B67D1/08
(31) Priority Document No	:10-2016-0167575
(32) Priority Date	:09/12/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/014452
Filing Date	:11/12/2017
(87) International Publication No	:WO 2018/106083
(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)YU, Kiwon**

**2)KIM, Youngjin**

**3)BAEK, Kowoon**

**4)OH, Kyungsoo**

(57) Abstract :

The present invention provides a method for controlling a drinking-water supply device, the method comprising: a first step of connecting a guide pipe of a case separated from a cabinet to the cabinet to form a channel through which water moves from the case to the cabinet; a second step of supplying the cabinet with hot water heated by a second hot water module included in the case; and a third step of supplying the cabinet with water which has not passed through the second hot water module included in the case, wherein a first hot water module, included in the cabinet, for heating water is not driven in the second step and the third step.



No. of Pages : 18 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018811 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DRINKING-WATER SUPPLY DEVICE AND METHOD FOR CONTROLLING SAME

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(51) International classification :B67D1/07B67D1/12B67D1/08  
(31) Priority Document No :10-2016-0167574  
(32) Priority Date :09/12/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/014454  
    Filing Date :11/12/2017  
(87) International Publication No :WO 2018/106084  
(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)YU, Kiwon

2)KIM, Youngjin

3)OH, Kyungsoo

---

(57) Abstract :

The present invention provides a method for controlling a drinking-water supply device, the method comprising: a first step of connecting a guide pipe of a case separable from a cabinet to the cabinet to form a channel through which water moves from the case to the cabinet; a second step of supplying the cabinet with sterile water electrolyzed by an electrolytic module included in the case; and a third step of supplying the cabinet with water which has not passed through the electrolytic module included in the case, wherein the sterilization water and the water are supplied to the cabinet from the case via the guide pipe in the second step and the third step.



No. of Pages : 19 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/05/2019

(21) Application No.201917018916 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TREATMENT OF MELT FOR ATOMIZATION TECHNOLOGY

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(51) International classification	:B22F9/08B22F1/00C21C1/02
(31) Priority Document No	:15/295733
(32) Priority Date	:17/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/056736
Filing Date	:16/10/2017
(87) International Publication No	:WO 2018/075380
(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)L'ESPERANCE, Gilles**

**2)BOISVERT, Mathieu**

**3)CHRISTOPHERSON, Denis B., Jr.**

**4)BEAULIEU, Philippe**

---

(57) Abstract :

An improved method of manufacturing a powder metal material by water, gas, plasma, or rotating disk atomization is provided. The method includes adding at least one additive to a melted metal material before or during the atomization process. The at least one additive forms a protective gas atmosphere surrounding the melted metal material which is at least three times greater than the volume of melt to be treated. The protective atmosphere prevents introduction or re-introduction of contaminants, such as sulfur (S) and oxygen (O<sub>2</sub>), into the material. The atomized particles produced include at least one of the following advantages: median circularity of at least 0.60, median roundness of at least 0.60, less internal pores, less internal oxides, and an increased sphericity of the microstructural phases and/or constituents.



No. of Pages : 33 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018934 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ANTI-TIM-3 ANTIBODIES FOR COMBINATION WITH ANTI-PD-1 ANTIBODIES

(51) International classification :C07K16/28A61P35/00A61K39/00  
(31) Priority Document No :62/431480  
(32) Priority Date :08/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/064480  
Filing Date :04/12/2017  
(87) International Publication No :WO 2018/106588  
(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)INNOVENT BIOLOGICS (SUZHOU) CO. LTD.

(72)Name of Inventor :

1)LI, Yiwen

2)ZHANG, Yi

(57) Abstract :

The present invention relates to antibodies that bind human T-cell immunoglobulin- and mucin-domain-containing protein-3 (Tim-3), and may be useful for treating solid and hematological tumors in combination with anti-human PD-1 antibodies, chemotherapy, and ionizing radiation.

No. of Pages : 67 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018946 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SIDE CHANNEL COMPRESSOR HAVING A SEAL ASSEMBLY

(51) International classification	:F04D23/00F04D29/08F04D29/62
(31) Priority Document No	:10 2016 222 430.1
(32) Priority Date	:15/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/079013 :13/11/2017
(87) International Publication No	:WO 2018/091397
(61) Patent of Addition to Application Number	:NA :NA
Filing Date	
(62) Divisional to Application Number	:NA :NA
Filing Date	

(71)Name of Applicant :

1)GARDNER DENVER DEUTSCHLAND GMBH

Address of Applicant :Industriestrasse 26 97616 Bad Neustadt Germany

(72)Name of Inventor :

1)RJABCHENKO, Evgenij

2)GANS, Manuela

(57) Abstract :

The invention relates to a side channel compressor for sealing a gas, comprising a housing (3) and at least one impeller (2), which is arranged in the housing and can be rotationally driven about a central axis (4). The side channel compressor further comprises at least one seal assembly (38) arranged in the housing (3) having at least one sealing device (47), which seals at least one gap (59) between the housing (3) and the at least one impeller (2) and forces the same radially outwards with respect to the central axis (4) in order to keep the at least one gap (59) small. The at least one seal assembly (38) further comprises at least one sealing device holding unit (46), which axially fixes the at least one sealing device (47) in place with respect to the central axis (4) and is provided with at least one holding main body (48).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018954 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COLLAGEN AND COLLAGEN LIKE PEPTIDE BASED HYDROGELS, CORNEAL IMPLANTS, FILLER GLUE AND USES THEREOF

(51) International classification :A61K38/39A61L27/52A61L27/24  
(31) Priority Document No :62/407650  
(32) Priority Date :13/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2017/056342  
Filing Date :13/10/2017  
(87) International Publication No :WO 2018/069873  
(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 :L V Prasad Eye Institute (LVPEI), Kallam Anji Reddy Campus, L V Prasad Marg, Banjara Hills Hyderabad, Telangana 500034 Telangana India

(72)Name of Inventor :

1)GRIFFITH, May

2)SAMANTA, Ayan

3)JANGAMREDDY, Jaganmohan Reddy

(57) Abstract :

The present invention provides for collagen and collagen like peptide based hydrogels, corneal implants, filler glue and uses thereof. The invention represents an advancement in the field of hydrogels, corneal implants, filler glue based on collagen and collagen like peptides. The invention discloses collagen and novel collagen like peptides crosslinked with DMTMM and their use in preparation of hydrogel, corneal implant and filler glue which are highly efficacious and robust as compared to existing corneal implants. Further, the invention relates to method of treating corneal defects and diseases.



No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018962 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR PRODUCING SUSPENDED FORM OF GROUND DECELLULARIZED EXTRACELLULAR MATRIX

(51) International classification :A61L27/36A61L15/40A61L26/00  
(31) Priority Document No :2016141560  
(32) Priority Date :24/10/2016  
(33) Name of priority country :Russia  
(86) International Application No :PCT/RU2017/050111  
Filing Date :23/10/2017  
(87) International Publication No :WO 2018/080352  
(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)LIMITED LIABILITY COMPANY NEARMEDIC PLUSâ •

Address of Applicant :ul. Aviakonstruktora Mikoyana, 12  
Moscow, 125252 Russia

(72)Name of Inventor :

1)SAFOYAN, Ashot Agabegovich  
2)SUSLOV, Anatoly Petrovich  
3)NESTERENKO, Vladimir Georgievich  
4)NESTERENKO, Sergei Vladimirovich  
5)KALMYKOVA, Nina Vladimirovna  
6)DEMYANENKO, Ilya Alexandrovich  
7)SOROKIN, Oleg Vladimirovich

(57) Abstract :

The present invention relates to the field of pharmaceutics and medicine, in particular, to a method for producing a suspended form of ground decellularized extracellular matrix with size-controlled structural components, the suspended form not requiring pre-hydration, and to a product produced by this method, for stimulation of reparative regeneration of tissues.



No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018964 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING HEPATITIS, HEPATIC FIBROSIS, AND HEPATIC CIRRHOSIS COMPRISING FUSION PROTEINS

(51) International classification :A61K38/18A61K38/17A61K38/28  
(31) Priority Document No :10-2016-0149866  
(32) Priority Date :10/11/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/012726  
Filing Date :10/11/2017  
(87) International Publication No :WO 2018/088838  
(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)YUHAN CORPORATION

Address of Applicant :74, Noryangjin-ro, Dongjak-gu, Seoul 06927 Republic of Korea

(72)Name of Inventor :

1)HONG, Han Na  
2)KIM, Jun Hwan  
3)CHOI, Hyun Ho  
4)KIM, Dohoon  
5)KIM, Taewang  
6)OH, Se Woong  
7)SONG, Moo Young  
8)KIM, Jong Gyun

(57) Abstract :

The present invention provides a composition for preventing or treating hepatitis, hepatic fibrosis, and hepatic cirrhosis. Specifically, the present invention provides a fusion protein comprising a biologically active protein and an FGF21 mutant protein; and a pharmaceutical composition containing the fusion protein, which is effective for preventing or treating hepatitis, hepatic fibrosis, and hepatic cirrhosis. A pharmaceutical composition of the present invention has the effect of inhibiting proliferation of inflammatory cells and fibroblasts, and thus can be effectively used as a composition for preventing or treating hepatitis, hepatic fibrosis, and hepatic cirrhosis.



No. of Pages : 46 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018965 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : AN APPARATUS AND METHOD FOR COATING PRODUCT

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(51) International classification :A23G3/20A23G3/22A23P20/12  
(31) Priority Document No :1619581.0  
(32) Priority Date :18/11/2016  
(33) Name of priority country :U.K.  
(86) International Application No:PCT/GB2017/053461  
    Filing Date :17/11/2017  
(87) International Publication No :WO 2018/091908  
(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)ISHIDA EUROPE LIMITED**

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(72)**Name of Inventor :**

**1)MEREDITH SUNTER, Adrian**

**2)GEOFFREY POTTER, Andrew**

**3)MICHAEL VINE, Lee**

---

(57) Abstract :

A blending apparatus for coating product in flavouring is provided. The blending apparatus comprises a product dispenser configured to dispense a falling stream of product, a flavouring dispenser configured to dispense a falling stream of flavouring, and a deflection surface. The deflection surface is configured to deflect at least one of the falling stream of product and falling stream of flavouring, thereby bringing the falling stream of product and the falling stream of flavouring together. A method for coating product in flavouring is also provided. The method comprises the steps of dispensing a falling stream of product from a product dispenser, dispensing a falling stream of flavouring from a flavouring dispenser, deflecting the falling stream of product and the falling stream of flavouring using a deflection surface so as to bring the falling stream of product and the falling stream of flavouring together, thereby coating the product in the flavouring.



No. of Pages : 25 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018975 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SPHERICAL CHITIN NANOPARTICLES AND PROCESS FOR PREPARATION THEREOF

(51) International classification :C30B29/60C30B29/58C08B37/08  
(31) Priority Document No :62/409511  
(32) Priority Date :18/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/CA2017/051229  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/072014  
(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)9802622 CANADA INC.

Address of Applicant :C/O Gia Tong VUONG 5689 Chemin Queen Mary Hampstead, Qu©bec H3X 1X5 Canada

(72)Name of Inventor :

1)LUONG, John Ha-Thanh

(57) Abstract :

This disclosure relates to carboxylated spherical crystalline chitin nanoparticles (SChNPs) having an average diameter of about 18-20 nm or less; and a process for producing same from the chitinous material, comprising contacting a chitinous material with an Oxone monopersulfate reagent (Formula (II)).



No. of Pages : 14 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018977 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WT1 TARGETING DNA VACCINE FOR COMBINATION THERAPY

(51) International classification :A61K39/00A61K39/395C07K16/28  
(31) Priority Document No :16197322.7  
(32) Priority Date :04/11/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/078124  
Filing Date :03/11/2017  
(87) International Publication No :WO 2018/083209  
(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)VAXIMM AG

Address of Applicant :Hochbergerstrasse 60c 4057 Basel Switzerland

(72)Name of Inventor :

1)LUBENAU, Heinz

(57) Abstract :

The present invention relates to an attenuated strain of Salmonella comprising at least one copy of a DNA molecule comprising an expression cassette encoding Wilms' Tumor Protein (WT1), for use in the treatment of cancer, wherein the treatment further comprises the administration of at least one checkpoint inhibitor, particularly selected from at least one antibody against PD-1, PD-L1, CTLA-4, IDO, OX-40, GITR, TIM-3, and LAG-3. The present invention further relates to a pharmaceutical composition comprising an attenuated strain of Salmonella comprising at least one copy of a DNA molecule comprising an expression cassette encoding WT1 for use in the treatment of cancer, wherein the treatment further comprises the administration of at least one checkpoint inhibitor, particularly selected from at least one antibody against PD-1, PD-L1, CTLA-4, IDO, OX-40, GITR, TIM-3, and LAG-3.



No. of Pages : 28 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018978 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BIOSYNTHETIC PRODUCTION OF STEVIOLE GLYCOSIDES AND PROCESSES THEREFORE

(51) International classification :A23L2/60A23L27/30C12N1/21  
(31) Priority Document No :62/408179  
(32) Priority Date :14/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No:PCT/US2017/056457  
    Filing Date :13/10/2017  
(87) International Publication No :WO 2018/071744  
(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)CONAGEN INC

Address of Applicant :15 Deangelo Drive Bedford, MA 01730  
U.S.A.

(72)Name of Inventor :

1)MAO, Guohong  
2)VICK, Jacob, Edward  
3)BATTEN, Michael  
4)BYUN, David  
5)LUO, Yang  
6)WU, Yilin  
7)ZHANG, Beihua  
8)YU, Xiaodan

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(57) Abstract :

The present invention relates to the production of steviol glycoside rebaudiosides D4, WB1 and WB2 and the production of rebaudioside M from Reb D4.



No. of Pages : 59 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018817 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CIRCULAR SURGICAL STAPLER WITH ANGULARLY ASYMMETRIC DECK FEATURES

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(51) International classification :A61B17/064A61B17/068A61B17/072  
(31) Priority Document No :15/350624  
(32) Priority Date :14/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/035121  
Filing Date :31/05/2017  
(87) International Publication No :WO 2018/089053  
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, USA, 00969 U.S.A.

(72)Name of Inventor :

1)MILLER, Christopher C.  
2)SHELTON, IV, Frederick E.

---

(57) Abstract :

An apparatus includes a body, a shaft assembly, a stapling head assembly, and an anvil. The stapling head assembly includes a deck member, a plurality of staples, and a driver. The deck member includes a first deck surface, a second deck surface, an outer annular array of staple openings formed through the deck surfaces, an inner annular array of staple openings formed through the deck surfaces, and a plurality of stand-off features extending distally from the second deck surface. The second deck surface is recessed relative to the first deck surface. The driver is operable to drive the staples through the staple openings. The anvil is operable to compress tissue against the deck surface.



No. of Pages : 28 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018818 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CIRCULAR SURGICAL STAPLER WITH RECESSED DECK

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(51) International classification	:A61B17/115
(31) Priority Document No	:15/350513
(32) Priority Date	:14/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/035104
Filing Date	:31/05/2017
(87) International Publication No	:WO 2018/089050
(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)MILLER, Christopher, C.

2)SHELTON, Frederick, E., IV

(57) Abstract :

An apparatus includes a body, a shaft assembly, a stapling head assembly, and an anvil. The stapling head assembly includes a deck member, a plurality of staples, and a driver. The deck member includes a deck surface, an outer annular array of staple openings formed through the deck surface, an inner annular array of staple openings formed through the deck surface, and a plurality of recesses formed in the deck surface. At least a portion of the recesses are positioned between at least some of the staple openings. The driver is operable to drive the staples through the staple openings. The anvil is operable to compress tissue against the deck surface.



No. of Pages : 31 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018819 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : MANUAL METERING DEVICE

(51) International classification	:B01L3/02
(31) Priority Document No	:10 2016 121 814.6
(32) Priority Date	:14/11/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/001162
Filing Date	:02/10/2017
(87) International Publication No	:WO 2018/086721
(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)IKA - WERKE GMBH & CO. KG

Address of Applicant :Janke und Kunkel Strasse 10 79219  
Staufen Germany

(72)Name of Inventor :

1)D-BELE, Philip

(57) Abstract :

In order to be able to provide the user of a manual metering device (1) with different options for adjusting a manual metering device (1), in particular a pipette, the manual metering device (1) according to the invention is proposed, wherein the operating element (5) for operating the volume adjustment mechanism (3) of the manual metering device (1) is formed as two parts and has a display adjustment element (7), connected to the volume display (4) of the manual metering device (1), and the volume adjustment element (8), which is connected to the volume adjustment mechanism (3) of the manual metering device (1). The display adjustment element (7) and volume adjustment element (8) are connected to one another via the releasable coupling (9), such that a volume adjustment leads to a corresponding adjustment of the volume display, and vice versa, as long as the coupling (9) is closed. If the coupling (9) is released, the display adjustment element (7) and the volume adjustment element (8) can be actuated or adjusted independently from one another in order to adjust the manual metering device (1).



No. of Pages : 18 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018820 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMPROVED METHODS FOR ENHANCING ANTIBODY PRODUCTIVITY IN MAMMALIAN CELL CULTURE AND MINIMIZING AGGREGATION DURING DOWNSTREAM, FORMULATION PROCESSES AND STABLE ANTIBODY FORMULATIONS OBTAINED THEREOF

(51) International classification :C07K16/00C07K16/10A61K39/395  
(31) Priority Document No :201621044139  
(32) Priority Date :23/12/2016  
(33) Name of priority country :India  
(86) International Application No :PCT/IB2017/058194  
Filing Date :20/12/2017  
(87) International Publication No :WO 2018/116198  
(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)MHALASAKANT, Dhore Rajeev
- 2)SHANKAR, Pisal Sambhaji
- 3)REDDY, Peddi Reddy Srinivas
- 4)CHAHAR, Singh Digamber
- 5)RAVINDRA, Yeolekar Leena
- 6)SINGH, Chouhan Pankaj
- 7)DATTATRAY, Avalaskar Nikhil

(57) Abstract :

The invention, describes an efficient platform for antibody manufacturing and formulation, that provides i) cell culture process with improved feeding strategy resulting in high antibody titer between 2 gm/L to 5 gm/L; ii) improved purification process showing optimal percentage recovery, high purity monomer content, minimum aggregation/particulate formation, minimum impurity levels; and iii) high concentration stable liquid formulation with optimal osmolality and low viscosity across different temperature excursions and devoid of aggregation. The preferred antibodies include IgG1 monoclonal antibody specific to the Dengue virus epitope in domain III of the E protein and IgG1 monoclonal antibody specific to the rabies virus surface G glycoprotein.



No. of Pages : 57 No. of Claims : 89

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018979 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEVICE FOR MEASURING THE CIRCUMFERENCE OF AN OBJECT

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(51) International classification :G01B21/02G01B3/10A61B5/00  
(31) Priority Document No :2016/5858  
(32) Priority Date :15/11/2016  
(33) Name of priority country :Belgium  
(86) International Application No:PCT/EP2017/079198  
    Filing Date :14/11/2017  
(87) International Publication No :WO 2018/091462  
(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)JUST A NEW HEALTH

Address of Applicant :Rue Auguste Goemans 12 1320  
Beauvechain Belgium

(72)Name of Inventor :

1)HARFOUCHE, Joseph

(57) Abstract :

The present invention relates to a device for measuring an object, comprising a winder of a measurement element arranged to form a loop about said object, which has at least one wall and an exit opening arranged to allow the exit of at least one unwound portion of said measurement element, which is defined between said exit opening and a distal end of said measurement element, which is provided with a connection element that abuts against said exit opening, and a connection means being located at a distance d from said exit opening, characterised in that said connection means is located on said at least one wall, is adjacent to said exit opening, is presented in the form of a protrusion which extends towards said distal end, and is arranged to receive said connection element in a stationary manner.



No. of Pages : 17 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018980 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : CUTTER WITH POSITIVE SEATED ROUND BLADES STICKS FOR BEVEL GEAR CUTTING

(51) International classification

:B23F21/22B23C5/22

(31) Priority Document No

:62/422066

(32) Priority Date

:15/11/2016

(33) Name of priority country

:U.S.A.

(86) International Application No

:PCT/US2017/061479

Filing Date

:14/11/2017

(87) International Publication No

:WO 2018/093755

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

(71)Name of Applicant :

**1)THE GLEASON WORKS**

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22970 Rochester, NY 14692-2970 U.S.A.

(72)Name of Inventor :

**1)STADTFELD, Hermann, J.**

(57) Abstract :

A cutter head (30) having stick blades (82) with a circular (62) or partially circular (72, 92, 102, 112, 122) cross-section wherein the circular part of the cross-section is dominating. The cutter head preferably includes cutter head slots (31) having a five- sided cross-section which will provide a defined positive seating between a clamp block (34) and the surfaces of the slots (35, 36). The stick blades cross-section preferably includes at least one flat section (77, 81, 98, 108, 109 118, 119, 128).



No. of Pages : 16 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018981 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NUTRITIONAL COMPOSITIONS PROVIDING DIETARY MANAGEMENT OF COLIC

(51) International classification :A61K35/745A23L33/00A23L33/135  
(31) Priority Document No :15/350538  
(32) Priority Date :14/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/076797  
Filing Date :19/10/2017  
(87) International Publication No :WO 2018/086843  
(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 :2400 West Lloyd Expressway  
Evansville, Indiana 47721 U.S.A.

2)RECKITT BENCKISER (BRANDS) LIMITED

(72)Name of Inventor :

1)MORELLI, Lorenzo

2)SAGHEDDU, Valeria

3)VAN DAEL, Peter

(57) Abstract :

A method for reducing the incidence of colic in a pediatric subject is presented, the method including administering to a subject a nutritional composition having about 1 x 10<sup>3</sup> to about 1 x 10<sup>12</sup> cfu/100 kcal of LA metabolizing probiotic; up to about 7 g/100 kcal of a fat or lipid; up to about 5 g/100 kcal of a protein or protein equivalent source; about 0.06 g/100 kcal to about 1.5 g/100 kcal of enriched milk product; about 5mg/100 kcal to about 90 mg/100 kcal of a source of long chain polyunsaturated fatty acids; and about 0.015 g/100 kcal to about 1.5 g/100 kcal of a prebiotic composition.



No. of Pages : 69 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018983 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SUBSTITUTED 6-(1H-PYRAZOL-1-YL)PYRIMIDIN-4-AMINE DERIVATIVES AND USES THEREOF

(51) International classification :C07D403/14C07D471/04C07D487/04  
(31) Priority Document No :16193953.3  
(32) Priority Date :14/10/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/075630  
Filing Date :09/10/2017  
(87) International Publication No :WO 2018/069222  
(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)BAYER PHARMA AKTIENGESELLSCHAFT**

**(72)Name of Inventor :**

**1)GIESE, Anja**

**2)KLAR, Jürgen**

**3)EHRMANN, Alexander**

**4)WILLWACHER, Jens**

**5)ENGEL, David**

**6)DIESKAU, Andre Philippe**

**7)KAHNERT, Antje**

**8)GROMOV, Alexey**

**9)SCHMECK, Carsten**

**10)LINDNER, Niels**

**11)MLLER, Thomas**

**12)ANDREEVSKI, Anna Lena**

**13)DREHER, Jan**

**14)COLLINS, Karl**

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**(57) Abstract :**

The present invention covers substituted 6-(1H-pyrazol-1-yl)pyrimidin-4-amine compounds of general formula (I) as described and defined herein, methods of preparing said compounds, intermediate compounds useful for preparing said compounds, pharmaceutical compositions and combinations comprising said compounds, and the use of said compounds for manufacturing pharmaceutical compositions for the treatment or prophylaxis of diseases, in particular for the treatment and/or prophylaxis of cardiovascular and renal diseases, as a sole agent or in combination with other active ingredients.

No. of Pages : 807 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917018998 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM AND METHOD FOR SECURED TAX REFUND FOR CROSS BORDER TRANSACTIONS WITH MOBILE DEVICE WALLET APPLICATION

(51) International classification :G06Q20/36G06Q20/32G06Q20/20  
(31) Priority Document No :15/378801  
(32) Priority Date :14/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058431  
Filing Date :26/10/2017  
(87) International Publication No :WO 2018/111410  
(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)KOHLI, Manoneet

(57) Abstract :

A digital wallet server computer communicates with a digital wallet application program running on a payment-enabled mobile device. The entry of the mobile device into a country that is foreign to the user's country of residence is detected. The server computer receives transaction information regarding VAT- bearing payment account transactions via the wallet application. The total amount of VAT charged to the user during a trip to the foreign country is calculated. The server computer receives an indication of the user's departure from the foreign country and then initiates a payment account credit transaction to refund the total VAT into the user's payment account.



No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019334 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : BATTERY MODULE ENDPLATE WITH SEALED HOLE FOR COOLING TUBE CONNECTION

(51) International classification	:H01M2/10F28F11/00H01M10/6556
(31) Priority Document No	:62/414254
(32) Priority Date	:28/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/058871
Filing Date	:27/10/2017
(87) International Publication No	:WO 2018/081639
(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)INEVIT LLC

Address of Applicant :3303 Scott Blvd. Santa Clara, California 95054 U.S.A.

(72)Name of Inventor :

1)FEES, Heiner

2)TRACK, Andreas

3)EICHHORN, Alexander

(57) Abstract :

An endplate of a battery module is configured with holes through which an inlet and outlet for a cooling tube are arranged. Cooling interfaces between the inlet and outlet and a cooling manifold are arranged outside of a battery module compartment that houses the battery module. In a first embodiment, sealing components separate from the cooling tube are arranged inside the inlet and outlet holes, with each sealing component defining multiple sealing areas (e.g., ring-shaped sealing areas) for sealing a respective hole. In a second embodiment, the cooling tube includes integrated sealing components (e.g., threaded sections of the cooling tube) inside the inlet and outlet holes, with each integrated sealing component defining a single sealing area (e.g., a ring-shaped sealing area) for sealing a respective hole.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019345 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SILICA-BASED SPHERICAL PARTICULATES AND METHODS OF PREPARING THE SAME

(51) International classification :C01B33/18C01B33/193  
(31) Priority Document No :62/423887  
(32) Priority Date :18/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/060402  
    Filing Date :07/11/2017  
(87) International Publication No :WO 2018/093611  
(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)PPG INDUSTRIES OHIO, INC.

Address of Applicant :3800 West 143rd Street Cleveland,  
Ohio 44111 U.S.A.

(72)Name of Inventor :

1)ZHANG, Xiaofeng

2)KOLLAH, Raphael, O.

(57) Abstract :

Spherically-shaped silica can include a precipitated silica powder having a d<sub>50</sub> particle size selected within a range of greater than 20µm and up to 80µm, a di-octyl adipate oil absorption selected within a range of from 150 ml/100g to 500 ml/100g, an average circularity selected within a range of from 0.70 to 1.0, and an angle of repose of less than 30°. A process of preparing spherically-shaped silica powder is also included.



No. of Pages : 28 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019347 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : CONTROLLING WIND TURBINE BASED ON RAIN DROP SIZE

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(51) International classification	:F03D7/02F03D7/04
(31) Priority Document No	:PA 2016 70916
(32) Priority Date	:18/11/2016
(33) Name of priority country	:Denmark
(86) International Application No	:PCT/DK2017/050379
Filing Date	:17/11/2017
(87) International Publication No	:WO 2018/091056
(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)MHI VESTAS OFFSHORE WIND A/S

Address of Applicant :Dusager 4 8200 Aarhus N Denmark

(72)Name of Inventor :

1)FUJIOKA, Hideyasu

(57) Abstract :

There is presented a method (320) for controlling a wind turbine (100), wherein said wind turbine comprises a wind turbine rotor (102) with one or more blades (103), wherein the wind turbine has a rated angular rotation speed (214) of the wind turbine rotor, said method comprising providing (322) an estimated drop size (324) of rain drops impinging on the one or more blades, determining (326) whether an entry criterion for operation according to a reduced mode is fulfilled, wherein said determining is based at least partially on the estimated drop size (324), controlling (328) the wind turbine according to the reduced mode if the entry criterion is fulfilled, wherein in the reduced mode an angular rotation speed of the wind turbine rotor is limited below an angular rotation speed threshold (216), wherein the angular rotation speed threshold is smaller than the rated angular rotation speed of the wind turbine.



No. of Pages : 18 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019356 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : USE OF POLYHYDROXY COMPOUND ASPLASTICIZER FOR POLYVINYL ALCOHOL IN 3D PRINTING PROCESS

(51) International classification :C08L29/04C08K5/053B29C64/106  
(31) Priority Document No :10 2016 220 434.3  
(32) Priority Date :18/10/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/076381  
Filing Date :16/10/2017  
(87) International Publication No :WO 2018/073190  
(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)KUMAKI, Yousuke

2)BAIER, Moritz

(57) Abstract :

The invention is directed to a process of manufacturing a three-dimensional object by - providing a support structure comprising polyvinyl alcohol (PVOH) to - depositing and solidifying a molten thermoplastic polymer on the support structure to form a three-dimensional preform characterized in that the support structure consists of a mixture of polyvinyl alcohol (PVOH) and at most 20 % by weight of at least one plasticizer according to formula (I), (II) or (III): - R1-C(CH2-OH)3 (I); - [R1-C(CH2-OH)2CH2]2O (II); - (R1)C(CH2-OH)2CH2-O-CH2C(CH2-OH)C(R1)CH2-O-CH2 C(CH2-OH)2R1 (III). With R1 = H, CH3, C2H5, C3H7, CH2OH. The support structure can be dissolved to from the three-dimensional object.

No. of Pages : 8 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019365 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYALPHA-1,3-GLUCAN ESTERS AND ARTICLES MADE THEREFROM

(51) International classification	:C08B37/00C08J5/18C08J5/00
(31) Priority Document No	:62/425247
(32) Priority Date	:22/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/062508
Filing Date	:20/11/2017
(87) International Publication No	:WO 2018/098065
(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)BRIEGEL, Alicia, C.

2)JOHNSON, Ross, S.

3)MISHRA, Vindhya

4)OPPER, Kathleen

5)SAXENA, Shalini

(57) Abstract :

The disclosure generally relates to polyalpha-1,3-glucan compositions and articles containing them. In particular interest is comprising polyalpha-1,3-glucan ester derivatives. The polyalpha-1,3-glucan derivatives are useful in thermoprocesses and in particular, injection molding processes.

No. of Pages : 58 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917019001 A

(19) INDIA

(22) Date of filing of Application :13/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : ADJUSTABLE FLOW METER SYSTEM

(51) International classification	:G01F1/40G01F1/50
(31) Priority Document No	:15/336426
(32) Priority Date	:27/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/058724
Filing Date	:27/10/2017
(87) International Publication No	:WO 2018/081536
(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)DANIEL MEASUREMENT AND CONTROL, INC**  
Address of Applicant :11100 Brittmoore Park Drive Houston,  
Texas 77041 U.S.A.

(72)Name of Inventor :

**1)JONES, David, Lelan**

(57) Abstract :

A flow meter assembly having a longitudinal axis includes an upstream member including a first end, a second end, and a fluid passageway extending between the first and second ends, a downstream member including a first end and a second end, and a first throat member including a first end, a second end, and a fluid passageway extending between the first and second ends, wherein the fluid passageway of the first throat member has a minimum diameter that is less than a minimum diameter of the fluid passageway of the upstream member, wherein the first throat member is configured to releasably couple to the upstream member and the downstream member.



No. of Pages : 17 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019007 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ORAL CARE SYSTEM AND METHOD

(51) International classification :A46B15/00A46B9/04A61C17/22  
(31) Priority Document No :15/350223  
(32) Priority Date :14/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/061291  
Filing Date :13/11/2017  
(87) International Publication No :WO 2018/089888  
(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)COLGATE-PALMOLIVE COMPANY**

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(72)Name of Inventor :

**1)GATZEMEYER, John Jacob**

**2)LINTOTT, Andrew Brent**

**3)SMALLMAN, Ian Joseph**

(57) Abstract :

An oral care system may include: an oral care device including: at least one teeth cleaning element; and at least one sensor configured to detect motion of the oral care device during a brushing routine of a user and to generate sensor data corresponding to the detected motion; and a programmable processor configured to: receive the sensor data generated by the at least one sensor; and determine a target brushing time based on the sensor data.



No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019008 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ORAL CARE SYSTEM AND METHOD

(51) International classification	:A46B15/00A46B9/04	(71) <b>Name of Applicant :</b> <b>1)COLGATE-PALMOLIVE COMPANY</b> Address of Applicant :300 Park Avenue New York, New York 10022 U.S.A.
(31) Priority Document No	:15/350266	
(32) Priority Date	:14/11/2016	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2017/061285	(72) <b>Name of Inventor :</b> <b>1)GATZEMEYER, John Jacob</b>
Filing Date	:13/11/2017	
(87) International Publication No	:WO 2018/089886	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In one embodiment, an oral care system may include a toothbrush comprising a physical property, and a programmable processor configured to receive physical property data indicative of the physical property of the toothbrush. The programmable processor may be further configured to determine, based at least in part upon the received physical property data, a suggested brushing routine for a user and/or an evaluation of a brushing session of a user



No. of Pages : 22 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019009 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ORAL CARE SYSTEM AND METHOD

(51) International classification :A46B9/04A46B15/00A61C17/22  
(31) Priority Document No :15/350298  
(32) Priority Date :14/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/061321  
Filing Date :13/11/2017  
(87) International Publication No :WO 2018/089899  
(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)COLGATE-PALMOLIVE COMPANY

Address of Applicant :300 Park Avenue New York, New York 10022 U.S.A.

(72)Name of Inventor :

1)GATZEMEYER, John Jacob

(57) Abstract :

In one embodiment, the invention can be an oral care system that includes a toothbrush; a programmable processor configured to receive oral characteristic data indicative of an oral characteristic of a user; and determine for the user, based at least in part on the oral characteristic data, at least one of a suggested brushing routine and a brushing evaluation for a brushing session.



No. of Pages : 20 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019010 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ORAL CARE SYSTEM AND METHOD

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(51) International classification :A46B9/04A46B15/00A61C17/22  
(31) Priority Document No :15/350285  
(32) Priority Date :14/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/061312  
Filing Date :13/11/2017  
(87) International Publication No :WO 2018/089896  
(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 :300 Park Avenue New York, New York 10022 U.S.A.

(72)Name of Inventor :

1)GATZEMEYER, John Jacob

(57) Abstract :

In one embodiment, the invention can be an oral care system that includes a toothbrush; a user interface configured to receive a brushing goal from a user; and a programmable processor operably coupled to the user interface. The programmable processor can be configured to receive brushing goal data indicative of the brushing goal received by the user interface; and determine, based at least in part on the brushing goal data, at least one of a suggested brushing routine and a brushing evaluation for a brushing session.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/05/2019

(21) Application No.201917019015 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ENHANCED VEHICLE BAD FUEL SENSOR WITH CROWDSOURCING ANALYTICS

(51) International classification :F02D41/00G01S19/01G01F15/16  
(31) Priority Document No :15/332675  
(32) Priority Date :24/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/057955  
Filing Date :24/10/2017  
(87) International Publication No :WO 2018/081034  
(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)ALLSTATE INSURANCE COMPANY

Address of Applicant :2775 Sanders Road, Suite A2  
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(72)Name of Inventor :

1)SLUSAR, Mark

(57) Abstract :

A fuel analysis system is described configured to assist vehicle drivers/users in preventing damage to their vehicles caused by bad fuel. Bad fuel can leave a driver and passengers stranded on the road in need of emergency road side service, and in many instances, results in permanent damage to the vehicle. The disclosed fuel analysis system describes an enhanced bad fuel sensor system that measures a delta in vehicle operation data to identify and in many instances, pre-emptively alert, a user of a vehicle of bad fuel. The fuel analysis system may use crowdsourcing through aggregation of refueling event profile records from a plurality of vehicles' telematics devices to increase the accuracy with which bad fuel is detected.



No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018824 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : JOINING DEVICE AND METHOD FOR JOINING STRIPS TO FORM A TIRE COMPONENT

(51) International classification:B29D30/42B29C65/78B29C65/00  
(31) Priority Document No :2017821  
(32) Priority Date :18/11/2016  
(33) Name of priority country :Netherlands  
(86) International Application No :PCT/NL2017/050704  
Filing Date :02/11/2017  
(87) International Publication No :WO 2018/093248  
(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)VAN TIENHOVEN, Jeroen  
2)ZANDBERGEN, Hugo Bart  
3)OTTO, Cornelis-Jan  
4)VAN ASSENBERGH, Karel Johannes  
5)HAITSMA, Otte  
6)MEIJERS, Pieter Cornelis  
7)NIJLAND, Gerrit Roy

(57) Abstract :

The invention relates to a joining device for joining a trailing end of a first strip to a leading end of a second strip to form a tire component, wherein the joining device comprises a support member with a support surface and a retaining member with a retaining surface for retaining the second strip, wherein the joining device is arranged for positioning the leading end of the second strip in a joining orientation in which said leading end is closer to the support plane than the rest, wherein the joining device comprises a control unit for controlling a relative movement between the support member and the retaining member with a first component in a placement direction to place the leading end of the second strip and a second component in a joining direction to bring the leading end of the second strip into contact with the trailing end of the first strip.



No. of Pages : 24 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018825 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM FOR AND METHOD OF GENERATING AN AUDIO IMAGE

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(51) International classification	:H04S5/00H04S1/00
(31) Priority Document No	:62/410132
(32) Priority Date	:19/10/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2017/056471
Filing Date	:18/10/2017
(87) International Publication No	:WO 2018/073759
(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)AUDIBLE REALITY INC.

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H2R 1Y9 Canada

(72)Name of Inventor :

1)BOERUM, Matthew

2)MARTIN, Bryan

(57) Abstract :

A system for and a method of generating an audio image for use in rendering audio. The method comprises accessing an audio stream; accessing positional information, the positional information comprising a first position, a second position and a third position; and generating an audio image. In some embodiments, generating the audio image comprises generating, based on the audio stream, a first virtual wave front to be perceived by a listener as emanating from the first position; generating, based on the audio stream, a second virtual wave front to be perceived by the listener as emanating from the second position; and generating, based on the audio stream, a third virtual wave front to be perceived by the listener as emanating from the third position.



No. of Pages : 51 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018826 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FORMULATIONS FOR ENTERIC DELIVERY OF THERAPEUTIC AGENTS

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(51) International classification :A61K9/51A61K45/06A61K31/704  
(31) Priority Document No :15/291480  
(32) Priority Date :12/10/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/056320  
Filing Date :12/10/2017  
(87) International Publication No :WO 2018/071655  
(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)CURIRX INC.

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Wilmington, MA 01887 U.S.A.

(72)Name of Inventor :

1)JAVERI, Indu

2)NELLAIAPPAN, Kaliappanadar

(57) Abstract :

Formulations containing pH-sensitive nanoparticles for the enteric delivery of therapeutic agents are provided. The nanoparticles include a pH-sensitive polymer that protects the therapeutic agent against degradation in the stomach and allows it to be released in the small intestine or colon. The nanoparticle formulation is particularly effective at protecting sensitive biotherapeutic agents from degradation when administered orally, and makes it possible to avoid administration of such agents by injection. Also provided are methods for producing the formulations, as well as methods of treating diseases employing the formulations.



No. of Pages : 46 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018827 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LIVER PRODRUGS OF MITOCHONDRIAL PROTON IONOPHORES

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(51) International classification :C07F9/24A61K31/661A61K31/167  
(31) Priority Document No :PA 2016 70919  
(32) Priority Date :18/11/2016  
(33) Name of priority country :Denmark  
(86) International Application No :PCT/EP2017/079548  
Filing Date :17/11/2017  
(87) International Publication No :WO 2018/091633  
(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 :

1)HANSSON, Magnus Joakim

2)ELM%oR, Eskil

3)GREGORY, Matthew Alan

4)MOSS, Steven James

(57) Abstract :

The present invention provides novel liver-targeted prodrugs of mitochondrial proton ionophores. These compounds have utility in medicine including their use in treatment of diseases such as NASH and NAFLD.



No. of Pages : 62 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/05/2019

(21) Application No.201917018828 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR REMOVING ACID COMPONENTS AT HIGH TEMPERATURE IN GASIFICATION POWER GENERATION SYSTEM AND DEVICE THEREFOR

(51) International classification :C10K1/20C10J3/46C10K1/12  
(31) Priority Document No :2016-224971  
(32) Priority Date :18/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/032202  
    Filing Date :07/09/2017  
(87) International Publication No :WO 2018/092391  
(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)HITACHI ZOSEN CORPORATION

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(72)Name of Inventor :

1)SUGIMURA, Eriko

2)HAMA, Toshio

3)SAWADA, Keisuke

4)SHINOOKA, Takuya

(57) Abstract :

[Problem] To provide a method which is for removing acid components at high temperature in a gasification power generation system, which can achieve high desalination and desulfurization performance in a high-temperature range, and which avoids an increase in pressure loss due to a device being clogged with dust and char having tar adhered thereto. [Solution] The method comprises, after a gasification step but before a cyclone processing step, supplying a cyclone upstream additive having desalination and desulfurization functions to a gasification gas by using, as an additive carrier gas, a gas which has been generated in a power generation step and from which heat has been recovered, subjecting a CO<sub>2</sub> absorbent used in a CO<sub>2</sub> absorption and reforming step to CO<sub>2</sub> absorption in a gas temperature range of 450-700°C, and when the amount of absorbed CO<sub>2</sub> reaches saturation, switching the flow of air or oxygen for increasing the temperature of a reforming catalyst layer to an area immediately upstream of a CO<sub>2</sub> absorbent-filled layer, and increasing the temperature of the absorbent-filled layer to a temperature range of 800-950°C, to remove CO<sub>2</sub> from the absorbent.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917019367 A

(19) INDIA

(22) Date of filing of Application :15/05/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : MANUFACTURING METHOD FOR DRIVE PULLEY AND MANUFACTURING SYSTEM THEREFOR ROLLER ASSEMBLY DEVICE PIECE ATTACHMENT DEVICE AND BOSS INSERTION DEVICE

(51) International classification

:F16H9/18F16H55/36

(31) Priority Document No

:NA

(32) Priority Date

:NA

(33) Name of priority country

:NA

(86) International Application No

:PCT/JP2016/080772

Filing Date

:18/10/2016

(87) International Publication No

:WO 2018/073882

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

(71)Name of Applicant :

**1)HONDA MOTOR CO., LTD.**

Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 1078556 Japan

(72)Name of Inventor :

**1)ISHIDO Norihisa**

**2)MATSUMOTO Masahiro**

**3)YASUNAGA Hiroyuki**

(57) Abstract :

The present invention pertains to a manufacturing method for a drive pulley (10) and a manufacturing system (50) therefor. The manufacturing system (50) is configured by including a roller assembly device (200), a piece attachment device (300) and a boss insertion device (400). Each of the devices (200, 300, 400) is arranged on the periphery of a rotating table (52) for transport. A first receptacle (54) for receiving a movable face (12) and a second receptacle (56) for receiving a ramp plate (18) are provided on the rotating table (52) for transport.



No. of Pages : 35 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019368 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PYRIDO[3 4-D]PYRIMIDINE DERIVATIVE AND PHARMACEUTICALLY ACCEPTABLE SALT THEREOF

(51) International classification :C07D471/04A61K31/519A61K31/5377  
(31) Priority Document No :2016-229969  
(32) Priority Date :28/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/042443  
Filing Date :27/11/2017  
(87) International Publication No :WO 2018/097297  
(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)TEIJIN PHARMA LIMITED

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(72)Name of Inventor :

1)MIZUNO, Tsuyoshi  
2)SHIMADA, Tomohiro  
3)UNOKI, Gen  
4)MARUYAMA, Akinobu  
5)SASAKI, Kosuke  
6)YOKOSAKA, Takuya  
7)TAKAHASHI, Hiroshi  
8)HORIE, Kyohei  
9)SAKAI, Yuri

(57) Abstract :

The purpose of the present invention is to provide a compound that has excellent CDK 4/6 inhibitory activity. The present invention is a compound represented by formula (I) or a pharmaceutically acceptable salt of the compound.

No. of Pages : 206 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019369 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ACID COMPOSITION FOR THE TREATMENT OF FATTY ACIDS

(51) International classification :B01J31/02C07C67/03C07C67/08  
(31) Priority Document No :1661483  
(32) Priority Date :25/11/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/053174  
Filing Date :20/11/2017  
(87) International Publication No :WO 2018/096249  
(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)ARKEMA FRANCE**

Address of Applicant :420 rue d'Estienne d'Orves 92700 COLOMBES France

(72)Name of Inventor :

**1)LAFFITTE, Jean-Alex**

**2)MONGUILLO, Bernard**

**3)TAN, Kuan Huwa**

(57) Abstract :

The invention relates to a composition comprising: at least one alkanesulfonic acid of formula R-SO<sub>3</sub>H, in which R is a linear or branched saturated hydrocarbon chain of 1 to 4 carbon atoms, optionally substituted with at least one halogen atom, at least one aryl sulfonic acid, and, optionally, at least one solvent, the proportions thereof being as defined in the description. The invention also relates to the use of the composition in a method for esterifying fatty acids.



No. of Pages : 15 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019370 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SYSTEM FOR SUPPORTING AN ELECTRIC MOTOR ON A CASING METHOD FOR MOUNTING THE MOTOR ON THE CASING AND AUTOMATED GEARBOX

(51) International classification :H02K5/15F16H61/32H02K7/116  
(31) Priority Document No :1661831  
(32) Priority Date :02/12/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/052876  
Filing Date :19/10/2017  
(87) International Publication No :WO 2018/100260  
  
(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)RENAULT S.A.S

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(72)Name of Inventor :

1)DA-SILVA, Paulo

2)GATTIER, Frédéric

3)FERREIRA, Rômulo

(57) Abstract :

The invention relates to a system for supporting an electric motor (2, 3), fixed to the outside of a casing (1), consisting of a part for absorption of forces (4) of the motor on the casing, at a distance from the fixing means (2a, 3a) thereof, characterised in that the force-absorption part (4) is screwed onto the casing (1).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019372 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PARALLEL PROCESS APPARATUS AND PARALLEL PROCESS PROGRAM

(51) International classification :H04L12/28B60R16/023  
(31) Priority Document No :2016-228959  
(32) Priority Date :25/11/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/031399  
    Filing Date :31/08/2017  
(87) International Publication No :WO 2018/096755  
(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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4488661 Japan

(72) **Name of Inventor :**

**1)NAKAMURA, Sho  
2)HARATA, Yuzo  
3)HAYAKAWA, Kazuaki  
4)SATO, Tatsuya  
5)MORITA, Yasuo**

(57) Abstract :

A parallel processing device (3) connecting electronic control units (11a-11c, 12a-12c, 13a-13c, 14a-14c) via buses (7-10) is provided with: a processing request acceptance unit (27) that accepts processing requests for independent applications for the electronic control units; and a processing execution unit (33) that, while a plurality of processing requests are being accepted at the same time, arbitrates the plurality of processing requests being accepted, and performs a plurality of processings corresponding to the plurality of processing requests in parallel.



No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/05/2019

(21) Application No.201917019373 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WIRE COATING MATERIAL COMPOSITION AND INSULATED WIRE

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(51) International classification :H01B3/44C08K5/12C08L27/06  
(31) Priority Document No :2016-232238  
(32) Priority Date :30/11/2016  
(33) Name of priority country :Japan  
(86) International Application No:PCT/JP2017/041216  
    Filing Date :16/11/2017  
(87) International Publication No :WO 2018/101056  
(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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Mie 5108503 Japan  
2)SUMITOMO WIRING SYSTEMS, LTD.  
3)SUMITOMO ELECTRIC INDUSTRIES, LTD.

(72)**Name of Inventor :**

1)FURUKAWA, Toyoki

(57) Abstract :

Provided is a wire coating material composition containing polyvinyl chloride, wherein the polyvinyl chloride is not crosslinked and the composition exhibits superior flexibility and superior resistance against fusing and resistance against heat deformation; and an insulated wire using the wire coating material composition. The wire coating material composition containing polyvinyl chloride also contains a polyester elastomer and 40-80 parts by mass of plasticizer relative to 100 parts by mass of the polyvinyl chloride.



No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :26/09/2016

(21) Application No.201611032785 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INEGAL STRENGTH MAGNES

(51) International classification	:F16G5/16	(71) <b>Name of Applicant :</b> <b>1)VIRENDER SINGH SISODIA</b> Address of Applicant :V.P.O.-BONLI, DIST.-SAWAI MADHOPUR, RAJASTHAN-322023, INDIA Rajasthan India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	(72) <b>Name of Inventor :</b> <b>1)VIRENDER SINGH SISODIA</b>
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 the history of earlier studies and the history of science, we have studied that a magnet consists of two poles and both of its poles have equal and opposite strength. But recent experiments have shown that on both sides of a magnet apparatus, a pole or sky can be formed along with the screw. Generation of a monopole magnet is celebrated when a heavy binding metal rod is done and its attraction is very much in comparison to normal rituals. Practical implementation is being done with high efficiency results. And both poles of this metal are not equal, the power of both the poles is not even equal. The magnet is used by us for everything nowadays. The use of electromagnet is increasingly being used and this magnet already has magnetized power and by getting wrapped in the copper coil and widening the flow, it becomes more powerful in its power.

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :15/07/2017

(21) Application No.201717025202 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SYSTEMS AND METHODS FOR DETERMINING NEUROVASCULAR REACTIVITY TO BRAIN STIMULATION

(51) International classification	:A61N1/00
(31) Priority Document No	:49/KOL/2015
(32) Priority Date	:14/01/2015
(33) Name of priority country	:India
(86) International Application No	:PCT/US2016/013476
Filing Date	:14/01/2016
(87) International Publication No	:WO 2016/115392
(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)NEUROTRIX LLC**

Address of Applicant :2812 Sheephead Court St. Augustine, FL 32092 U.S.A.

(72)**Name of Inventor :**

**1)CHOWDHURY, Shubhajit, Roy**

**2)DUTTA, Anirban**

**3)DAS, Abhijit**

(57) Abstract :

System and methods for stimulating the neurovascular system of the cerebral tissue through optimally placed devices while simultaneously measuring the evoked neuronal and hemodynamic responses also using optimally placed devices is disclosed. Systems and methods for iteratively stimulating the neurovascular system and recording neuronal and hemodynamic responses are also disclosed. Further a method for determining cerebral neurovascular functioning from the combined stimulation and measurement is disclosed for use in diagnosis of neurovascular disorders.



No. of Pages : 28 No. of Claims : 66

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :17/07/2017

(21) Application No.201717025340 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHODS AND APPARATUS FOR PRECODING CONTROL IN A WIRELESS COMMUNICATION NETWORK

(51) International classification	:H04B 7/04	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)</b>
(32) Priority Date	:NA	Address of Applicant :SE-164 83 STOCKHOLM Sweden
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/SE2017/050346	<b>1)FROBERG OLSSON, JONAS</b>
Filing Date	:17/04/2017	<b>2)CIRKIC, MIRSAD</b>
(87) International Publication No	:WO/2018/186777	<b>3)HESSLER, MARTIN</b>
(61) Patent of Addition to Application Number	:NA	<b>4)HESSLER, KRISTINA</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Techniques disclosed herein involve network-side and device-side operations that provide for the advantageous use of a reduced set of precoders within a larger full set of precoders. The reduced set is identified dynamically, based on characteristics of the channel between a radio network node and a wireless device, and the use of a defined mapping function that maps the reduced set of precoders within the larger full set to a reduced set of index values. Reporting precoders from the reduced set offers significant reductions in signaling overhead because of the smaller size of the index values used to index the reduced set, while simultaneously offering the ability to choose from precoders matched to current channel conditions.

No. of Pages : 45 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/12/2018

(21) Application No.201814046601 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHODS AND SYSTEMS FOR ESA METROLOGY

(51) International classification	:H01Q 21/22	(71)Name of Applicant : <b>1)Rockwell Collins, Inc.</b> Address of Applicant :400 Collins Road NE, M/S 124-323, Cedar Rapids, Iowa 52498, U.S.A. U.S.A.
(31) Priority Document No	:15/885362	
(32) Priority Date	:31/01/2018	
(33) Name of priority country	:U.S.A.	(72)Name of Inventor : <b>1)Paulsen, Lee M.</b> <b>2)Jensen, Dana J.</b> <b>3)Gillett, Joel T.</b> <b>4)Hill, Adrian A.</b> <b>5)McBryde, Connor C.</b>
(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 :

Methods and Systems for testing phased antenna arrays include positioning a phased antenna array and a probe antenna at relative positions with respect to each other where one of them can operate as the transmitter and the other as the receiver. The transmitter can radiate a plurality of electromagnetic waves sequentially while the phased antenna array is steered or configured differently for each radiated electromagnetic. The receiver can receive, responsive to each radiated electromagnetic wave, a corresponding receive radio frequency (RF) signal. A processor can determine one or more performance parameters of the phased antenna array using the receive RF signals.



No. of Pages : 56 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/06/2019

(21) Application No.201917022231 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SEMICONDUCTOR COOLING ARRANGEMENT

(51) International classification :H01L23/44H01L23/367H01L25/11  
(31) Priority Document No :1701486.1  
(32) Priority Date :30/01/2017  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2018/050260  
Filing Date :30/01/2018  
(87) International Publication No :WO 2018/138532  
(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)HART, Simon David

2)WOOLMER, Tim

3)MALAM, Christopher Stuart

4)LAW, Graham

5)BUMPUS, Francesca Bernardine

(57) Abstract :

The present invention relates to a semiconductor cooling arrangement for cooling semiconductor devices, such as power semiconductors. The semiconductor cooling arrangement comprises one or more semiconductor assemblies located in a chamber within a housing. The housing comprises inlet and outlet ports for receiving and outputting a cooling medium. The chamber is flooded with a cooling medium to cool the assemblies. The assemblies themselves each comprise a heatsink and one or more semiconductor power devices thermally coupled to the heatsink. The heatsink comprises heat exchanging elements in the form of a plurality of holes in the heatsink extending through the heatsink from one surface to another surface such that the cooling medium flows through the holes to extract heat from the heatsink.



No. of Pages : 23 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016356 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WATER-ABSORBING RESIN COMPOSITION

(51) International classification	:C08L101/14C08J3/24
(31) Priority Document No	:2016-194827
(32) Priority Date	:30/09/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/035663
Filing Date	:29/09/2017
(87) International Publication No	:WO 2018/062539
(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)IWAMURA, Taku**

**2)NAKAJIMA, Yasuhisa**

**3)TORII, Kazushi**

**4)FUJIMOTO, Taku**

**5)KAWADA, Hiroki**

---

(57) Abstract :

Provided are: a water-absorbing resin composition which attains both a high centrifuge retention capacity (CRC) and impartation of sufficient urine resistance; and a process for producing the resin composition. One embodiment of the present invention is a water-absorbing resin composition characterized by having the following properties: (1) the centrifuge retention capacity (CRC) is 35 g/g or more; (2) the amount of solubles dissolved in one hour after a deterioration test is 19 mass% or less; (3) the absorption against pressure of 0.7 psi (AAP0.7) is 10 g/g or more; and (4) the amount of the water-absorbing resin contained in dust is 300 ppm by mass or less of the whole water-absorbing resin composition.

No. of Pages : 106 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :24/04/2019

(21) Application No.201917016357 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : PARTICULATE NUCLEATING AGENT AND METHOD FOR MANUFACTURING THEREOF

(51) International classification :C08K5/053C07C31/26C08K9/00  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/CN2016/110985  
Filing Date :20/12/2016  
(87) International Publication No :WO 2018/112731  
(61) Patent of Addition to Application Number :NA  
Filing Date :NA  
(62) Divisional to Application Number :NA  
Filing Date :NA

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BEITAI ROAD, BAIYUN DISTRICT GUANGZHOU,  
GUANGDONG 510540 (CN). China

(72) **Name of Inventor :**

1)ZHAO, Wen Lin

2)GUAN, Wen Fang

(57) Abstract :

Provided is a particulate nucleating agent and a method for manufacturing the same. The particulate nucleating agent has an average radial crushing strength of 0.2-25.0 N/cm. A weight content of the active ingredients in the particulate nucleating agent is no less than 90 wt %. The particulate nucleating agent is a transparent particulate nucleating agent. The particulate nucleating agent can be fed smoothly during production without the change of the chemical composition thereof so as to realize uniform dispersion in the polymer and reduce defects such as white dots in the polymer. This breaks the traditional view of refining particles of nucleating agent to obtain a polymer having desirable properties and avoids adding large amount of materials except the active ingredients during the granulation process of the nucleating agent.

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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2019

(21) Application No.201917022610 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : FACIAL TRACKING METHOD, APPARATUS, STORAGE MEDIUM AND ELECTRONIC DEVICE

(51) International classification :G06T7/246  
(31) Priority Document No :201710068185.3  
(32) Priority Date :06/02/2017  
(33) Name of priority country :China  
(86) International Application No :PCT/CN2018/074953  
Filing Date :01/02/2018  
(87) International Publication No :WO 2018/141252  
(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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**1)LIANG, Yicong**  
**2)WANG, Chengjie**  
**3)LI, Shaixin**  
**4)ZHAO, Yandan**  
**5)LI, Jilin**

(57) Abstract :

A facial tracking method, an apparatus, a storage medium and an electronic device. Said method comprises: acquiring facial feature information of a current image frame in sequential images and facial tracking information of a previous image frame in the sequential images (S302), wherein the previous image frame is an image frame located before the current image frame in the sequential images, and information of a facial feature in the current image frame is recorded in the facial feature information, while the facial tracking information is used for recording a facial tracking result of the previous image frame; selecting an adjustment image frame from the previous image frame on the basis of the facial feature information of the current image frame and the facial tracking information of the previous image frame (S304); using facial tracking information of the adjustment image frame and the facial feature information of the current image frame to match adjustment parameters of the current image frame (S305); determining facial tracking information of the current image frame on the basis of the adjustment parameters and the facial tracking information of the previous image frame (S306). The technical problem wherein a high level of accuracy and low complexity are difficult to guarantee by using existing face registration point tracking algorithms is thus solved.



No. of Pages : 33 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :07/06/2019

(21) Application No.201917022630 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FIBER CEMENT DECKING PRODUCTS AND METHODS FOR THE PRODUCTION THEREOF

(51) International classification	:C04B28/02
(31) Priority Document No	:17153233.6
(32) Priority Date	:26/01/2017
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2018/051964
Filing Date	:26/01/2018
(87) International Publication No	:WO 2018/138266
(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)ETEX SERVICES NV**

Address of Applicant :Kuiermansstraat 1 1880 Kapelle-op-den-Bos Belgium

**2)ETERNIT NV**

(72)Name of Inventor :

**1)BORDIN, Ruben**

**2)MILIS, Maarten**

**3)HELLEMANS, Philippe**

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(57) Abstract :

The present invention relates to fiber cement decking products, which comprise at least one or more pigments and which are at least partly coloured in the mass. The present invention further relates to methods for the production of such fiber cement decking products as well as uses of such fiber cement decking products in the building industry. The present invention further relates to fiber cement formulations and fiber cement materials, which are suitable for the production of fiber cement products for decking applications.



No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :04/12/2018

(21) Application No.201814045800 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HYBRID VEHICLE

(51) International classification	:B60K6/20	(71)Name of Applicant :
(31) Priority Document No	:2018-012675	<b>1)TOYOTA JIDOSHA KABUSHIKI KAISHA</b> Address of Applicant :1, Toyota-cho, Toyota-shi, Aichi-ken, 471-8571, Japan Japan
(32) Priority Date	:29/01/2018	(72)Name of Inventor :
(33) Name of priority country	:Japan	<b>1)MATSUMOTO, Arifumi</b> <b>2)MORISHIMA, Akinori</b> <b>3)IBUKI, Taku</b>
(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 controller for the hybrid vehicle selects an engine as a power apparatus of the hybrid vehicle when a request load is higher than a threshold load, and selects a motor as the power apparatus when the request load is equal to or lower than the threshold load. The controller sets the threshold load in accordance with a SOC of a battery, and decreases the threshold load as the SOC is lower in at least a predetermined SOC range. The controller controls an intake air temperature during stopping of the engine to a target intake air temperature by operating an intake air temperature variable system when the motor is selected as the power apparatus. The controller sets the target intake air temperature in accordance with the SOC, and increases the target intake air temperature as the SOC is lower in at least the predetermined SOC range.



No. of Pages : 26 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/12/2018

(21) Application No.201814046248 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DUAL-LATCH QUICK CONNECTOR

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(51) International classification	:F16L21/08	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/884,639	<b>1)A. RAYMOND ET CIE.</b>
(32) Priority Date	:31/01/2018	Address of Applicant :113 Cours Berriat, 38000, Grenoble, FRANCE France
(33) Name of priority country	:U.S.A.	(72) <b>Name of Inventor :</b>
(86) International Application No	:NA	<b>1)GAUTHIER, Justin</b>
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 dual-latch system requiring two distinct and sequential operations to verify that a proper connection has been made is disclosed. In the first operation, the fluid line is installed into the quick connector and is attached. In the second operation, the fluid line is locked into the quick connector using a separate sliding lock latch. The connector assembly comprises a housing having an inner bore for receiving a portion of the fluid line, a spring latch having radially-spaced engaging bodies for engaging the raised upset or bead of the fluid line, and a sliding lock latch having spring release interference abutments. The sliding lock latch is movable from an unlocked position in which the abutments allow movement of the engaging bodies relative to the raised upset or bead to a locked position in which the abutments restrict movement of the engaging bodies to the raised upset or bead engaging position.



No. of Pages : 42 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022992 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR SEPARATING CHARGED BIOLOGICALLY ACTIVE SUBSTANCES FROM LIQUIDS AND THE RECOVERY THEREOF

(51) International classification :B01D61/42B01D67/00B01D71/68  
(31) Priority Document No :10 2016 125 818.0  
(32) Priority Date :28/12/2016  
(33) Name of priority country :Germany  
(86) International Application No :PCT/EP2017/084721  
Filing Date :28/12/2017  
(87) International Publication No :WO 2018/122315  
(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)i3 MEMBRANE GMBH

Address of Applicant :Theodorstr. 41P 22761 Hamburg Germany

(72)Name of Inventor :

1)BRINKE-SEIFERTH, Stephan

(57) Abstract :

The present invention relates to a method for the at least temporary retention of charged biologically active substances, for example endotoxins, viruses, proteins from liquids, and optional later release for better determination. The problem is solved by the method for at least temporarily separating and/or detecting charged biologically active substances in a liquid by means of electrosorption and/or electrofiltration comprising the following steps: a. providing a polymer membrane with a flat and porous coating made of metal on at least a first side of the polymer membrane; b. providing a counter electrode; c. applying a voltage between the metal coating of the polymer membrane and the counter electrode; d. bringing the polymer membrane and the counter electrode into contact with the liquid, wherein this contact is established in that the liquid generates at least one connection between the polymer membrane and the counter electrode.



No. of Pages : 27 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022993 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PERFORMANCE PARAMETERIZATION OF PROCESS EQUIPMENT AND SYSTEMS

(51) International classification	:G07C3/00F24F11/00	(71) <b>Name of Applicant :</b> <b>1)S. A. ARMSTRONG LIMITED</b> Address of Applicant :23 Bertrand St. Toronto, Ontario M1L 2P3 Canada
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/CA2016/051420	(72) <b>Name of Inventor :</b> <b>1)ASIWAJU, Olatunji</b> <b>2)THOMSEN, Peter</b>
Filing Date	:02/12/2016	
(87) International Publication No	:WO 2018/098554	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Performance mapping of equipment performance parameters by capturing, mapping, and/or structuralizing equipment performance data of a device for installation in a system. This includes generating performance maps which outline the expected feature performance parameter behavior of the equipment based on a set of operating parameters that capture the operating conditions. Each performance parameter on the map is representative of an operating point of specific operating conditions taken at a particular point in time. In one example, a performance parameter can be defined by an individualized set of parameter coefficients which in turn are dependent on instantaneous operating conditions. With the performance maps determined individually for devices as part of the system, and stored along with a time of testing, activities such as continuous commissioning, monitoring and verification, preventative maintenance, fault detection and diagnostics, as well as energy performance benchmarking and long term monitoring can be performed.



No. of Pages : 23 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022994 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FLEXIBLE SPORTING APPARATUS DESCRIPTION

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(51) International classification :A63B69/00A63B21/06A63B21/072  
(31) Priority Document No :102016000118691  
(32) Priority Date :23/11/2016  
(33) Name of priority country:Italy  
(86) International Application No :PCT/IB2017/057335  
Filing Date :22/11/2017  
(87) International Publication No :WO 2018/096470  
(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)REAXING S.R.L.

Address of Applicant :Via Torino, 2 20123 MILANO Italy

(72)Name of Inventor :

1)D'ALESIO, Gionata

(57) Abstract :

The invention relates to a flexible sporting apparatus (1) comprising an elongated and flexible body (2), which can be gripped, connected to the body of a person or connected to another identical or different apparatus, wherein said body (2) comprises at least one flexible connection element (10, 11, 12) extending between a first end (3) and a second end (4) of the body (2), at least for a part of its length, a plurality of masses (20, 21, 22), distributed between the first end (3) and the second end (4) of the body (2), joined integrally to said at least one connection element (10, 11, 12) so that their position, in the direction of the length of the body, is maintained substantially unchanged when the apparatus is moved or bent; and optionally a containment element (30) that surrounds said at least one connection element (10, 11, 12) and said masses (20, 21, 22).



No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022995 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ABNORMALITY DETECTING DEVICE, COMMUNICATION DEVICE, ABNORMALITY DETECTING METHOD, PROGRAM, AND RECORDING MEDIUM

(51) International classification	:G01V1/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:2016-230526	<b>1)KYOTO UNIVERSITY</b>
(32) Priority Date	:28/11/2016	Address of Applicant :36-1, Yoshida-honmachi, Sakyo-ku, Kyoto-shi, Kyoto 6068501 Japan
(33) Name of priority country	:Japan	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/JP2017/042333	<b>1)UMENO, Ken</b>
Filing Date	:27/11/2017	<b>2)IWATA, Takuya</b>
(87) International Publication No	:WO 2018/097272	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A computer calculates an amount of change from an observation start time in a total number of electrons in the ionosphere between an observation station on the ground and a satellite, on the basis of observed data of a signal received from the satellite by the observation station. The computer estimates the next calculated amount of change in the total number of electrons on the basis of a change over time in the amount of change in the total number of electrons in the ionosphere from the observation start time, and calculates a difference (estimation error) between the estimated amount of change in the total number of electrons and the actual calculated amount of change in the total number of electrons. The computer calculates a correlation value between the estimation error calculated for each observation station and the estimation error calculated for a certain number of observation stations in the vicinity of each observation station. If the correlation value calculated for each observation station is equal to or greater than a certain threshold, the computer determines that an abnormality has occurred in the ionosphere between the observation station and the satellite if the correlation value for the certain number of observation stations in the vicinity of said observation station is also equal to or greater than the certain threshold.



No. of Pages : 76 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917023002 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : OXABICYCLOHEPTANES FOR MODULATION OF IMMUNE RESPONSE

(51) International classification :C07D471/04C07D405/14A61K31/4439  
(31) Priority Document No :62/497949  
(32) Priority Date :08/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/065270  
Filing Date :08/12/2017  
(87) International Publication No :WO 2018/107004  
(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)LIXTE BIOTECHNOLOGY, INC.

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REPRESENTED BY THE SECRETARY, DEPARTMENT  
OF HEALTH AND HUMAN SERVICES

(72)Name of Inventor :

1)KOVACH, John S.  
2)ZHUANG, Zhengping  
3)HO, Sze Chun Winson  
4)WANG, Herui  
5)LU, Rongze

(57) Abstract :

The present invention provides a method of treating a subject afflicted with cancer comprising administering to the subject an effective amount of a PP2A inhibitor.



No. of Pages : 72 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023010 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NETWORK SLICE SELECTION

(51) International classification	:H04W48/18
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/EP2016/082939
Filing Date	:30/12/2016
(87) International Publication No	:WO 2018/121880
(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)TELEFONAKTIEBOLAGET LM ERICSSON (PUBL)**

Address of Applicant :164 83 Stockholm Sweden

(72)Name of Inventor :

**1)GARCIA AZORERO, Fuencisla**

**2)FERNANDEZ ALONSO, Susana**

**3)FERRARO ESPARZA, Victor**

**4)NAVAS CORNEJO, Angel**

**5)RIVAS MOLINA, Ignacio**

(57) Abstract :

Network nodes and methods for control thereof for dynamic network slice selection. An AMF (300, 104) receives a UE request originating from the UE, the UE request being any one of a registration request and a session request. A network slice requester (316) controls a transmitter (302) to transmit a network slice selection request to a PC\_NSS (400, 108). A selection data manager (416) of the PC\_NSS determines selection data specifying one or more UE specific parameters affecting network slice selection. A network slice selector (414) selects a network slice assignable for the UE, based on the selection data, determines network slice data and a corresponding network slice routing rule, and transmits them to the AMF. A network slice manager (318) of the AMF controls assignment of a network slice to the UE in dependence on the received network slice data and network slice routing rule.



No. of Pages : 31 No. of Claims : 38

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023248 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SURGICAL STAPLING SYSTEMS

(51) International classification :A61B17/072A61B17/29A61B17/00  
(31) Priority Document No :15/385916  
(32) Priority Date :21/12/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/066287  
Filing Date :14/12/2017  
(87) International Publication No :WO 2018/118613  
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.

(72)Name of Inventor :

1)SIMMS, Robert J.

2)HARRIS, Jason L.

3)SHELTON, IV, Frederick E.

4)KWEET, Nichole Y.

(57) Abstract :

A method is disclosed. The method can comprise obtaining a first staple cartridge and obtaining a second staple cartridge, wherein the first staple cartridge and the second staple cartridge comprise the same length and the same width. The method can further comprise inserting the first staple cartridge into a channel comprising a keyed profile, wherein complete insertion of the first staple cartridge into the channel is prevented by the keyed profile. Additionally, the method can comprise inserting the second staple cartridge into the channel, wherein complete insertion of the second staple cartridge into the channel is permitted by the keyed profile.



No. of Pages : 121 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023249 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : AUTOMOTIVE EXHAUST SYSTEM FERRITIC STAINLESS STEEL HAVING IMPROVED HEAT RESISTANCE AND CONDENSED WATER CORROSION RESISTANCE, AND MANUFACTURING METHOD THEREFOR

(51) International classification :C22C38/60C22C38/50C22C38/02  
(31) Priority Document No :10-2016-0169695  
(32) Priority Date :13/12/2016  
(33) Name of priority country :Republic of Korea  
(86) International Application No :PCT/KR2017/013589  
Filing Date :27/11/2017  
(87) International Publication No :WO 2018/110858  
(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)POSCO

Address of Applicant :6261, Donghaean-ro, Nam-gu Pohang-si Gyeongsangbuk-do 37859 Republic of Korea

(72)Name of Inventor :

1)KIM, Hyung Joon

(57) Abstract :

Disclosed are an automotive exhaust system ferritic stainless steel having improved heat resistance and condensed water corrosion resistance, and a manufacturing method therefor. According to one embodiment of the present invention, the ferritic stainless steel comprising: a stainless steel base metal comprising, by wt%, 0.01% or less of C, 0.5-1.0% of Si, 0.5% or less of Mn, 0.035% or less of P, 0.01% or less of S, 11-18% of Cr, 0.013% or less of N, 0.15-0.5% of Ti, 0.03%-0.5% of Sn, and the balance of Fe and other inevitable impurities; and an aluminum plated layer formed on the stainless steel base metal, comprises a plating compound comprising (Al19FeMnSi2)5,31 (aluminum iron manganese silicide) at the interface between the stainless steel base metal and the aluminum plated layer.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023250 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD OF DEFORMING STAPLES FROM TWO DIFFERENT TYPES OF STAPLE CARTRIDGES WITH THE SAME SURGICAL STAPLING INSTRUMENT

(51) International classification	:A61B17/072A61B17/064
(31) Priority Document No	:15/385914
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/066377
Filing Date	:14/12/2017
(87) International Publication No	:WO 2018/118636
(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)ETHICON LLC**

Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.

(72)**Name of Inventor :**

**1)SHELTON, IV, Frederick E.**

**2)HARRIS, Jason L.**

**3)BAKOS, Gregory J.**

---

(57) Abstract :

Methods for providing and using a surgical instrument system are disclosed.



No. of Pages : 202 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023251 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPACT COOLING DEVICE

(51) International classification	:F28D5/00F28C1/14F24F5/00
(31) Priority Document No	:2016273838
(32) Priority Date	:12/12/2016
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2017/051342
Filing Date	:06/12/2017
(87) International Publication No	:WO 2018/107210
(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)COMMONWEALTH SCIENTIFIC AND INDUSTRIAL RESEARCH ORGANISATION**

Address of Applicant :Clunies Ross St Acton, Australian Capital Territory 2601 Australia

(72)Name of Inventor :

**1)WHITE, Stephen, David**

**2)REECE, Roger**

**3)PERISTY, Mark**

**4)HANDS, Stuart**

**5)GOLDSWORTHY, Mark, Jared**

**6)SETHUVENKATRAMAN, Ganapathi Subbu**

**7)ROWE, Daniel, David**

(57) Abstract :

An indirect evaporative cooler comprising: (a) an air inlet for supplying primary air to the cooler; (b) a heat exchanger having a primary air side and a working air side; (c) a working air inlet zone for receiving working air, said inlet zone comprising: a water particle dispersion air space in fluid communication with a working air side inlet of the heat exchanger; a water particle generator for dispersing water particles into the water dispersion air space to form airborne water particles; a low or non-pressurised working air for carrying the water particles from the water particle dispersion air space to the working air side inlet of the heat exchanger; (d) a fan for supplying working air to the water particle dispersion air space; and (e) a water particle collection surface for collecting airborne water particles, the water particle collection surface being in fluid communication with (i) said water particle dispersion air space and (ii) the working air side inlet of the heat exchanger.



No. of Pages : 24 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023252 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SUSPENSION ASSEMBLY

(51) International classification	:H02G3/00
(31) Priority Document No	:GB1620545.2
(32) Priority Date	:02/12/2016
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2017/000171
Filing Date	:24/11/2017
(87) International Publication No	:WO 2018/100329
(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)GRIPPLE LIMITED**

Address of Applicant :The Old West Gun Works Savile Street  
East Sheffield, South Yorkshire S4 7UQ U.K.

(72)Name of Inventor :

**1)DAVIS, Simon**

(57) Abstract :

A suspension assembly (10) comprises a support member (12) for supporting an article, an elongate substantially flat strip (14), and a securing arrangement (16). The support member (12) defines an opening (24) through which the strip (14) can be inserted. The strip (14) defines a plurality of apertures (26). The securing arrangement (16) includes a securing member (18) receivable through a selected one of the apertures (26) in the strip (14) to secure the support member (12) to the strip (14).



No. of Pages : 19 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023011 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SURGICAL STAPLERS WITH INDEPENDENTLY ACTUATABLE CLOSING AND FIRING SYSTEMS

(51) International classification	:A61B17/072A61B17/00
(31) Priority Document No	:15/385911
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/066387
Filing Date	:14/12/2017
(87) International Publication No	:WO 2018/118639
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.

(72)Name of Inventor :

1)SHELTON, IV, Frederick E.

2)BAKOS, Gregory J.

3)SMITH, David B.

4)HENSEL, Adam D.

5)HARRIS, Jason L.

---

(57) Abstract :

A surgical instrument with separate actuatable closure and firing systems for closing a movable jaw and actuating a firing member. In one form, the surgical instrument comprises an elastic spine assembly that includes a proximal spine portion and a distal spine portion that is elastically coupled to the proximal spine portion for axial movement relative thereto between a neutral position and an elongated position such that during actuation of the firing system results in an increased application of closure motions to the movable jaw without actuating the closure system.



No. of Pages : 85 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023012 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SURGICAL STAPLING INSTRUMENTS WITH SMART STAPLE CARTRIDGES

		<p>(71)<b>Name of Applicant :</b> <b>1)ETHICON LLC</b> Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.</p>
(51) International classification (31) Priority Document No (32) Priority Date (33) Name of priority country (86) International Application No Filing Date (87) International Publication No (61) Patent of Addition to Application Number Filing Date (62) Divisional to Application Number Filing Date	:A61B17/072 :15/385927 :21/12/2016 :U.S.A. :PCT/IB2017/056736 :30/10/2017 :WO 2018/116007 :NA :NA :NA :NA	<p>(72)<b>Name of Inventor :</b> <b>1)POSADA, Sol A.</b> <b>2)OVERMYER, Mark D.</b> <b>3)PARFETT, Raymond E.</b> <b>4)SCHINGS, Brian D.</b> <b>5)SWENSGARD, Brett E.</b> <b>6)LEIMBACH, Richard L.</b> <b>7)ADAMS, Shane R.</b> <b>8)YATES, David C.</b> <b>9)HARRIS, Jason L.</b> <b>10)SHELTON, IV, Frederick E.</b> <b>11)STEPHENS, Kharyl Evenson George</b> <b>12)RECTOR, Jason M.</b></p>

(57) Abstract :

A surgical instrument includes an anvil and an elongate channel. The elongate channel includes a plurality of first electrical contacts and a plurality of electrical connectors comprising a plurality of second electrical contacts, wherein the electrical connectors are spring-biased such that a gap is maintained between the first electrical contacts and the second electrical contacts. The surgical instrument further includes a staple cartridge releasably attachable to the elongate channel, wherein the staple cartridge has a cartridge body comprising a plurality of staple cavities, a plurality of staples deployable from the staple cavities into the tissue, and a plurality of third electrical contacts, wherein the attachment of the staple cartridge to the elongate channel moves the electrical connectors causing the second electrical contacts to bridge the gap and become electrically coupled to the first electrical contacts.



No. of Pages : 134 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023020 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ROBOT CONTROL SYSTEM, MACHINE CONTROL SYSTEM, ROBOT CONTROL METHOD, MACHINE CONTROL METHOD, AND RECORDING MEDIUM

(51) International classification	:G06T19/00B25J9/22	(71) <b>Name of Applicant :</b> <b>1)KYOTO UNIVERSITY</b> Address of Applicant :36-1, Yoshida-honmachi, Sakyo-ku, Kyoto-shi, Kyoto 6068501 Japan
(31) Priority Document No	:2016-227546	
(32) Priority Date	:24/11/2016	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2017/042155	(72) <b>Name of Inventor :</b> <b>1)MATSUNO, Fumitoshi</b> <b>2)MURATA, Ryosuke</b> <b>3)ENDO, Takahiro</b>
Filing Date	:24/11/2017	
(87) International Publication No	:WO 2018/097223	
(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 invention, an operation computer displays, on a display such as a head-mounted display, a field-of-view image showing the state that appears in the field-of-view of an operator if the operator who is in a first space appears in a second space in which a robot is present. The robot is controlled so that the robot performs a task in accordance with operations performed by the operator.



No. of Pages : 67 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023037 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : 7-PHENYLETHYLAMINO-4H-PYRIMIDO[4,5-D][1,3]OXAZIN-2-ONE COMPOUNDS AS MUTANT IDH1 AND IDH2 INHIBITORS

(51) International classification :C07D498/04A61P35/00A61K31/5365  
(31) Priority Document No :62/435283  
(32) Priority Date :16/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/065246  
Filing Date :08/12/2017  
(87) International Publication No :WO 2018/111707  
(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)BAUER, Renato Alejandro  
2)BOULET, Serge Louis  
3)BURKHOLDER, Timothy Paul  
4)GILMOUR, Raymond  
5)HAHN, Patric James  
6)RANKOVIC, Zoran**

(57) Abstract :

A compound, as defined herein, or pharmaceutical composition containing the compound, for use in treating IDH1 or IDH2 mutant cancer and having the structure: (I).

No. of Pages : 73 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023041 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : USE OF BIO-BASED POLYMER IN A COSMETIC, DERMATOLOGICAL OR PHARMACEUTICAL COMPOSITION

(51) International classification	:A61K8/81
(31) Priority Document No	:16203549.7
(32) Priority Date	:12/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/081417
Filing Date	:04/12/2017
(87) International Publication No	:WO 2018/108611
(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)FISCHER, Dirk**

**2)KAYSER, Christoph**

**3)STARKULLA, Gundula**

(57) Abstract :

The present invention relates to the use of a polymer in a cosmetic, dermatological or pharmaceutical composition, wherein the polymer is crosslinked or non-crosslinked, characterized in that the polymer comprises at least 9.49 mol-% of repeating units (a) according to Formula (1) wherein at least 10 wt.-%, preferably at least 20 wt.-% of the repeating units according to Formula (1) comprise from 28 wt.-% to 100 wt.-% bio-based carbon content, relative to the total mass of carbon in the repeating unit according to Formula (1), measured according to standard ASTM D6866-12, Method B



No. of Pages : 139 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023042 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HEAT STABLE CHOCOLATE

(51) International classification	:A23G1/36
(31) Priority Document No	:1651580-1
(32) Priority Date	:01/12/2016
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/SE2017/051203
Filing Date	:01/12/2017
(87) International Publication No	:WO 2018/101882
(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)AAK AB (PUBL)

Address of Applicant :Skrivaregatan 9 215 32 Malm¶ Sweden

(72)Name of Inventor :

1)ANDERSEN, Morten Daugaard

(57) Abstract :

A heat stable chocolate is disclosed, the heat stable chocolate comprising a fat phase, said fat phase of said heat stable chocolate comprising: 90.0“ 99.9 % by weight of triglycerides, 40.0“ 95.0 % by weight of triglycerides having C16“C24 saturated fatty acids in the sn-1and sn-3positions of the triglyceride and oleic acid in the sn-2position of the triglyceride, 0.01“10% by weight of sorbitan esters, wherein said fat phase has a first weight-ratio between - triglycerides having C14“C24 saturated fatty acids in the sn- positions of the triglyceride, C20“C24 saturated fatty acids in the sn-3 positions of the triglyceride, or vice versa, and oleic acid in the sn-2 position of the triglyceride, and - triglycerides having C14“C24 saturated fatty acids in the sn-1and sn-1 3positions of the triglyceride and oleic acid in the sn-2position of the triglyceride, which is at least 0.030. Also, a method for obtaining a heat stable chocolate, and use of the heat stable chocolate is disclosed.



No. of Pages : 55 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023254 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ELECTRONIC DEVICE AND CONTROL METHOD THEREOF

(51) International classification :A61B5/04A61B5/00A61B5/0488  
(31) Priority Document No :62/422680  
(32) Priority Date :16/11/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/KR2017/013046  
Filing Date :16/11/2017  
(87) International Publication No :WO 2018/093181  
(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)KANG, Hyuk  
2)YOO, Jae-bong  
3)LIM, Kyung-soo  
4)HONG, Duk-ki

(57) Abstract :

An electronic device is disclosed. The electronic device comprises: a biological signal input unit for receiving the input of a biological signal detected through an electrode; and a processor which determines, based on a usage context of the electronic device, a biological signal to be inputted, sets up, according to the determined biological signal, the state of a channel corresponding to the electrode, and determines a biological change by using the biological signal inputted according to the set channel state.



No. of Pages : 86 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023255 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WINDOW PANE WITH CAPACITIVE SENSOR

(51) International classification :G01N27/22B32B17/10B60S1/08  
(31) Priority Document No :16203228.8  
(32) Priority Date :09/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/078382  
Filing Date :07/11/2017  
(87) International Publication No :WO 2018/103975  
(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)EFFERTZ, Christian

2)SCHMALBUCH, Klaus

3)WEBER, Patrick

4)ESSER, Hans-Georg

(57) Abstract :

The present invention relates to a composite window pane (100) for separating an inside room from an outside environment, comprising“ an inner pane (1),“ an outer pane (4) with an inner surface and“ an intermediate layer (2) that joins the inner surface (II) of the outer pane (4) to an outer surface of the inner pane over their entire surface,“ a capacitive sensor (3) for detecting moisture and comprising at least one capacitor (5) connected to an electronic sensor unit (14) provided to detect a change in capacitance of the capacitor (5), wherein the capacitor (5) comprises at least two electrodes (10, 10<sup>TM</sup>, 10<sup>•</sup>) formed by a transparent, electroconductive coating (6) and capacitively coupled to each other.



No. of Pages : 14 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023263 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NUTRITIONAL COMPOSITIONS CONTAINING BUTYRATE AND USES THEREOF

(51) International classification :A23L33/00A23L33/12A23L33/135  
(31) Priority Document No :15/376298  
(32) Priority Date :12/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/082285  
Filing Date :11/12/2017  
(87) International Publication No :WO 2018/108841  
(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)KUANG, Chenzhong

2)XIAO, Yan

3)LAMBERS, Teartse Tim

4)VAN TOL, Eric Alexander Franciscus

5)HONDMAND, Dirk Herman Antonius

6)PHILLIPS, Shay Cristine

(57) Abstract :

Provided are nutritional compositions containing dietary butyrate. Further disclosed are methods for promoting and/or accelerating myelination in a target subject via administering the nutritional composition containing dietary butyrate to the target subject.



No. of Pages : 77 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023264 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SENSIBLE AND LATENT HEAT EXCHANGERS WITH PARTICULAR APPLICATION TO VAPOR-COMPRESSION DESALINATION

(51) International classification :F28D1/04C02F1/04C02F103/08  
(31) Priority Document No :62/433508  
(32) Priority Date :13/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/066215  
Filing Date :13/12/2017  
(87) International Publication No:WO 2018/112104  
(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 TEXAS A&M UNIVERSITY SYSTEM

Address of Applicant :3369 TAMU College Station, Texas 77843-3369 U.S.A.

(72)Name of Inventor :

1)HOLTZAPPLE, Mark, T.

(57) Abstract :

A heat exchanger includes a shell, and a tube assembly disposed in the shell, the tube assembly including at least one tube, wherein the tube has a pair of end sections having a first diameter and a central section extending between the end sections having a second diameter that is greater than the first diameter.



No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023265 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NUTRITIONAL COMPOSITIONS CONTAINING BUTYRATE AND/OR LACTOFERRIN AND USES THEREOF

(51) International classification	:A61K38/40A61K45/06A61K31/047
(31) Priority Document No	:15/376330
(32) Priority Date	:12/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2017/082459
Filing Date	:12/12/2017
(87) International Publication No	:WO 2018/108931
(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)SCHOEMAKER, Marieke Henriette

2)LAMBERS, Teartse Tim

3)ROSS, Gabriele

4)VAN TOL, Eric Alexander Franciscus

5)PHILLIPS, Shay Cristine

(57) Abstract :

Provided are nutritional compositions containing dietary butyrate or lactoferrin. Further disclosed are methods for reducing the incidence of obesity and metabolic syndrome in a target subject via administering the nutritional composition containing dietary butyrate to the target subject. Further provided are methods for improving adipose tissue functioning in a target subject.



No. of Pages : 82 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023266 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PROTEIN HYDROLYSATES AND METHODS OF MAKING SAME

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(51) International classification :A23L33/00A23L33/18A23L33/19  
(31) Priority Document No :15/376432  
(32) Priority Date :12/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/EP2017/082378  
Filing Date :12/12/2017  
(87) International Publication No :WO 2018/108883  
(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)LAMBERS, Teartse Tim**

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**3)WITTKE, Anja Monika**

**4)AO, Zihua**

**5)DINGESS, Kelly Alina**

**6)HETTINGA, Kasper Arthur**

(57) Abstract :

The present disclosure generally relates to methods of preparing protein hydrolysates for use in pediatric nutritional compositions. Specifically, alpha-, beta- and/or kappa casein enriched casein, acid casein or caseinates can be hydrolyzed with proteases such as trypsin (trypsin-like), chymotrypsin (chymotrypsin-like), pepsin and/or plasmin to produce a hydrolysate that is close to the peptide composition of human breast milk.



No. of Pages : 46 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022897 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR FORMING A STACK AND STACK

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(51) International classification :H01L51/44H01L51/52  
(31) Priority Document No :1662292  
(32) Priority Date :12/12/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/EP2017/080905  
    Filing Date :30/11/2017  
(87) International Publication No :WO 2018/108540  
(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)TRIXELL

(72)Name of Inventor :

1)VERILHAC, Jean-Marie  
2)BENWADIH, Mohammed  
3)CHARLOT, Simon

(57) Abstract :

Method for producing a stack, comprising the following steps: forming a first layer (2) that is able to conduct electricity; forming a layer of interest (3) on the first layer (2), said layer of interest (3) comprising at least one free volume; forming at least one repairing element (7), each repairing element at least partially filling a free volume, called the free volume of interest, the repairing element (7) comprising at least one insulating layer and leaving free an upper surface (31) of the layer of interest (3) opposite the first layer (2) located beyond said at least one free volume; forming a second layer (20), that is able to conduct electricity, on the layer of interest (3), the second layer (20) covering the repairing element (7) and the free surface (31), the step of forming the repairing element (7) comprising the following steps: forming, on the layer of interest (3), a layer (4) that at least partially extends into the free volume of interest; covering at least some of the buffer layer (4) located in the volume of interest with a filling layer (5), said buffer layer (4) and the filling layer (5) being made of different materials.



No. of Pages : 20 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022898 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD OF PREPARING BENZY 4-AMINO-3-CHLORO-5-FLUORO-6-(4-CHLORO-2-FLUORO-3-METHOXYPHENYL)PICOLINATE

(51) International classification	:C07D213/79C07D213/803
(31) Priority Document No	:62/433415
(32) Priority Date	:13/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/064833
Filing Date	:06/12/2017
(87) International Publication No	:WO 2018/111639
(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)FISK, Jason S.**

**2)COULING, David J.**

**3)SCHUITMAN, Abraham D.**

**4)DONALDSON, Megan E.**

**5)MURDOCH, Brian**

**6)LENG, Ronald B.**

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(57) Abstract :

A method of preparing benzyl 4-amino-3-chloro-5-fluoro-6-(4-chloro-2-fluoro-3-methoxyphenyl)picolinate (I) from benzyl 4,5-difluoro-6-(4-chloro-2-fluoro-3-methoxyphenyl)picolinate (II) is described. The method includes the use of amination and chlorination process steps to provide the compound of Formula I.

No. of Pages : 19 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022899 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR PRODUCING LITHIUM OXIDE

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(51) International classification	:C01D15/02
(31) Priority Document No	:10 2016 225 882.6
(32) Priority Date	:21/12/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/083246
Filing Date	:18/12/2017
(87) International Publication No	:WO 2018/114760
(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 :

**1)DIETZ, Rainer**

**2)WILLEMS, Johannes**

**3)HAUK, Dieter**

**4)WIETELMANN, Ulrich**

---

(57) Abstract :

The invention relates to a new method for producing lithium oxide and the use thereof, wherein lithium carbonate is converted with elementary carbon or a carbon source forming elementary carbon under the reaction conditions in a temperature range from 720 to 1200°C and wherein the conversion takes place largely with the exclusion of oxygen (i.e. in a vacuum or in a gas atmosphere inert with respect to carbon, for example containing N<sub>2</sub>, Ar or other noble gases) and the conversion is further carried out in containers, the product-contacting surfaces of which are corrosion-resistant with respect to the reactants and products. The lithium oxide obtained according to the method is used either for producing pure lithium hydroxide solutions or for producing glass, glass ceramics or crystal ceramics, for example lithium ion-conducting ceramics.

No. of Pages : 10 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022900 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : MICROORGANISM REACTION VESSEL AND METHOD FOR TREATING WASTEWATER

(51) International classification	:C02F3/34C02F1/44C02F3/12
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2016/084606
Filing Date	:22/11/2016
(87) International Publication No	:WO 2018/096583
(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)FUJINO, Kiyoharu

(57) Abstract :

The purpose of the present invention is to provide a microorganism reaction vessel that can be installed in part of a hotel or other lodging facility and is capable of reusing treated wastewater, and a method for treating wastewater in which said microorganism reaction vessel is used. The present invention is provided with: an outer vessel 2; a cylindrical inner vessel 3 that is disposed inside the outer vessel and that has a vertical opening part; a circulation rate control device 4 that is provided to an upper part of the cylindrical inner vessel and that controls the in-vessel circulation rate of to-be-treated water; a cylindrical control plate 5 disposed such that an open lower surface thereof is near an inclined surface on the outer periphery of the upper part of the cylindrical inner vessel, the cylindrical control plate allowing precipitation of contaminants; to-be-treated water quality measurement devices 6 provided to the outer side and inner side of the cylindrical inner vessel; a raw water supply port 10 provided to a circulation path of the to-be-treated water circulating in the outer vessel and inner vessel, and a treated water discharge port 11 provided to an upper part of the outer vessel; a precipitation fixation prevention device 12 that prevents the precipitated contaminants from becoming fixed by precipitation; and a membrane separation device 14 that is provided within or outside of the microorganism reaction vessel and that is capable of filtering treated water.



No. of Pages : 44 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023267 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FERTILIZER PARTICLE

(51) International classification	:C05B7/00C05G3/00B01J2/30
(31) Priority Document No	:16201717.2
(32) Priority Date	:01/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/080985
Filing Date	:30/11/2017
(87) International Publication No	:WO 2018/100063
(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 :

1)MUTSAERS, Petrus, Cornelis, Maria

2)TANDE, Terje

(57) Abstract :

The present disclosure provides robust fertilizer particles suitable for fertigation. A composition comprising mineral oil, primary alkylamines and water-insoluble particles may coat fertilizer particles and make them suitable for fertigation. Furthermore, the coated particles display reduced dusting tendency. The coating composition may be applied as a thin, single, continuous layer covering the particle core. The coating may avoid surface film problems when the particles are dissolved in water, even if the very hydrophobic mineral oil is less dense than water. It may be counterintuitive to include water-insoluble particles in a fertilizer particle for fertigation, however the claimed particles may be dissolved to make a fertigation solution that avoid problems in tanks, nozzles and piping of the fertigation systems.

No. of Pages : 13 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023273 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM

(51) International classification :H04N19/117H04N19/162H04N19/61  
(31) Priority Document No :2016-246000  
(32) Priority Date :19/12/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/037572  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/116603  
(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)FUCHIE, Takaaki

2)HIROSE, Masaki

3)YADA, Atsuo

(57) Abstract :

[Problem] To provide good image quality regardless of the signal representation mode. [Solution] Provided is an image processing device comprising: an encoding unit that encodes images acquired on the basis of a transfer function relating to conversion between light and image signals; and a control unit that controls the encoding processing executed in the encoding unit, on the basis of the transfer function. The control unit may control the encoding amount allocated to each portion of the image in the encoding unit, on the basis of the transfer function. The control unit can control the predicted residual encoding amount or mode encoding amount, for selecting a mode when encoding the image in the encoding unit, on the basis of the transfer function.



No. of Pages : 91 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023274 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM

(51) International classification :H04N19/115H04N19/126H04N19/134  
(31) Priority Document No :2016-245999  
(32) Priority Date :19/12/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/037597  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/116604  
(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)SONY CORPORATION

Address of Applicant :1-7-1, Konan, Minato-ku, Tokyo 1080075 Japan

(72)Name of Inventor :

1)FUCHIE, Takaaki

2)HIROSE, Masaki

3)YADA, Atsuo

(57) Abstract :

[Problem] To provide good image quality regardless of the signal representation mode. [Solution] Provided is an image processing device comprising: an encoding unit that encodes images acquired on the basis of a transfer function relating to conversion between light and image signals; and a control unit that controls the encoding processing executed in the encoding unit, on the basis of the transfer function. The control unit may control the encoding amount allocated to each portion of the image in the encoding unit, on the basis of the transfer function. The control unit may control the predicted residual encoding amount or mode encoding amount, for selecting a mode when encoding the image in the encoding unit, on the basis of the transfer function.



No. of Pages : 92 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023275 A

(19) INDIA

(22) Date of filing of Application :12/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR PRODUCING A DIRECTION-FINDING ANTENNA ARRAY AND ANTENNA ARRAY PRODUCED ACCORDING TO SUCH A METHOD

(51) International classification	:G01S3/04H01Q21/22
(31) Priority Document No	:1601783
(32) Priority Date	:15/12/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/081957
Filing Date	:08/12/2017
(87) International Publication No	:WO 2018/108723
(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)TALES

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(72)Name of Inventor :

1)BOSSER, Luc

2)GUELGUELIAN, Serge

3)SAADA, Renaud

4)DUMARQUEZ, Antoine

(57) Abstract :

The present invention relates to the field of the interception of electromagnetic signals. It more particularly relates to a method for manufacturing a two-dimensional radio-direction-finding antenna array comprising a step of designing said antenna array depending on preset constraints, said designing step comprising: a step (21) of defining a reference antenna array; a step (22) of searching for configurations to take into consideration for each of the antennae of a distance-finding antenna array; a step (23) of quantifying the maximum ambiguity level of each of the possible configurations on the basis of a correlation function in order to associate, with each of the configurations considered, an evaluation quantity; and a step (24) of searching for and selecting the configuration having the lowest evaluation quantity.



No. of Pages : 19 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023043 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : POLYMER COMPRISING CERTAIN LEVEL OF BIO-BASED CARBON

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(51) International classification	:C08F220/58
(31) Priority Document No	:16203551.3
(32) Priority Date	:12/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/081416
Filing Date	:04/12/2017
(87) International Publication No	:WO 2018/108610
(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)CLARIANT INTERNATIONAL LTD**

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(72)Name of Inventor :

**1)FISCHER, Dirk**

**2)KAYSER, Christoph**

**3)STARKULLA, Gundula**

(57) Abstract :

The present invention relates to a polymer comprising: (a) from 40 mol-% to 99 mol-%, of repeating units according to Formula (1) wherein at least 10 wt.-% of the repeating units comprises from 28 wt.-% to 100 wt.-% bio-based carbon content, relative to the total mass of carbon in the repeating unit according to Formula (1), measured according to standard ASTM D6866-12, Method B; (b) from 0.01 mol-% to 5 mol-% of crosslinking or branching units, wherein the crosslinking or branching units result from the incorporation of a monomer comprising at least two olefinically unsaturated double bonds; and (c) from 0.99 mol-% to 59.99 mol-% of repeating neutral structural units wherein at least 10% of the neutral structural units comprises from 0 wt.-% to 100 wt.-% bio-based carbon content, relative to the total mass of carbon in the repeating unit, measured according to standard ASTM D6866-12, Method B.

No. of Pages : 63 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023044 A

(43) Publication Date : 02/08/2019

---

(54) Title of the invention : POLYMER COMPRISING CERTAIN LEVEL OF BIO-BASED CARBON

---

(51) International classification	:C08F220/58
(31) Priority Document No	:16203555.4
(32) Priority Date	:12/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/081414
Filing Date	:04/12/2017
(87) International Publication No	:WO 2018/108608
(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)CLARIANT INTERNATIONAL LTD**

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(72)**Name of Inventor :**

**1)FISCHER, Dirk**

**2)KAYSER, Christoph**

**3)STARKULLA, Gundula**

---

(57) Abstract :

The present invention relates to a polymer comprising: (a) from 9.49 mol-% to 98 mol-% repeating units according to Formula (1) wherein at least 10 wt.-% of the repeating units according to Formula (1) comprise from 28 wt.-% to 100 wt.-% bio-based carbon content, relative to the total mass of carbon in the repeating unit according to Formula (1), measured according to standard ASTM D6866-12, Method B; (b) from 0.01 mol-% to 5 mol-% crosslinking or branching units; (c) from 0.01 mol-% to 88.52 mol-% of repeating neutral structural units; (d) from 1.98 mol-% to 20 mol-% of repeating anionic structural units, wherein the repeating anionic structural units result from the incorporation of a monomer comprising at least one carboxylate anion, and wherein the repeating anionic structural units are different from units (a).

No. of Pages : 64 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023045 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SIGHTING DEVICE FOR VEHICLE AND ASSOCIATED VEHICLE

(51) International classification	:F41H5/26G02B23/08
(31) Priority Document No	:16 01767
(32) Priority Date	:13/12/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/082274
Filing Date	:11/12/2017
(87) International Publication No	:WO 2018/108836
(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 :

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(72)Name of Inventor :

1)THIBOUT, Paul

(57) Abstract :

The vehicle delimits an interior space (16) from an exterior space (18). The sighting device includes: - a support (26) defining an interior volume (30); - a optronic head able to rotate about an axis (X2); - an optical path (28) comprising: - a collecting optical unit (58) for collecting a portion of the surroundings of the exterior space (18), able to rotate about the axis (X2); and - an optical transport system (60) including a plurality of optical components, a portion of the components being in the interior space (16) and the other portion being in the interior volume (30); - a drive means driving the optronic head and the collecting optical unit (58) so that the ratio between the angle of rotation of the head and the angle of rotation of the collecting optical unit (58) is substantially equal to 1.



No. of Pages : 14 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023046 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BINDING POLYPEPTIDES AND METHODS OF MAKING THE SAME

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(51) International classification

:C07K16/00C12N15/10

(31) Priority Document No

:62/438712

(32) Priority Date

:23/12/2016

(33) Name of priority country

:U.S.A.

(86) International Application No

:PCT/US2017/068204

Filing Date

:22/12/2017

(87) International Publication No

:WO 2018/119402

(61) Patent of Addition to Application

:NA

Number

:NA

Filing Date

:NA

(62) Divisional to Application Number

:NA

Filing Date

:NA

---

(57) Abstract :

Polypeptides, such as antibody molecules and TCR molecules, and methods of making the same, are disclosed. The polypeptides can be used to treat, prevent, and/or diagnose disorders.



No. of Pages : 157 No. of Claims : 47

(71)Name of Applicant :

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**2)BABCOCK, Gregory**

**3)ROBINSON, Luke**

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023047 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : EXPANSION JOINT FITTING FOR FLAMMABLE LIQUID

---

(51) International classification :F16L51/02F16L51/03F16L27/108  
(31) Priority Document No :62/433585  
(32) Priority Date :13/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/065994  
Filing Date :13/12/2017  
(87) International Publication No :WO 2018/111988  
(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)MONSANTO TECHNOLOGY LLC

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(72)Name of Inventor :

1)MCDANIEL, William Mark

(57) Abstract :

An expansion joint fitting for conveying liquid includes a radially inner bellows defining a liquid-conveying passage for conveying liquid between the first and second longitudinal ends of the expansion joint fitting. A radially outer bellows is disposed radially outward from and extending around the radially inner bellows. An annular plenum is defined between the radially inner bellows and the radially outer bellows.



No. of Pages : 18 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :06/01/2019

(21) Application No.201914000594 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : LID STAY FOR A FURNITURE

(51) International classification	:E05D7/0407	(71)Name of Applicant :
(31) Priority Document No	:18154405.7	<b>1)FLAP COMPETENCE CENTER KFT</b>
(32) Priority Date	:31/01/2018	Address of Applicant :Hengersor u30 1184 Budapest Hungary
(33) Name of priority country	:EPO	(72)Name of Inventor :
(86) International Application No	:NA	<b>1)BENDEFY, Andr;S</b>
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 :

Lid stay 1 for a furniture 2 comprising 2 Comprising a setting arm 12, pivotably attached on a base element 13 around a first setting axis SI between an open position and a closed position, and an energy accumulator 14, which is coupled such to the setting arm 12, that the setting arm 12 is acted upon by a force along at least a part of the pivot path of the setting arm 12 in direction towards the open position and/or closed position, wherein the energy accumulator 14 comprises a flat spring which is made from a plate-like flat material, and wherein the flat spring is acted upon elastically against the base element 13 and the setting arm 12 in a plate plane of the flat material.



No. of Pages : 19 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023435 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FIRING MEMBERS WITH NON-PARALLEL JAW ENGAGEMENT FEATURES FOR SURGICAL END EFFECTORS

(51) International classification	:A61B17/072
(31) Priority Document No	:15/385954
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/060159
Filing Date	:06/11/2017
(87) International Publication No	:WO 2018/118237
(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)HARRIS, Jason L.**

**2)SHELTON, IV, Frederick E.**

**3)BAKOS, Gregory J.**

---

(57) Abstract :

A surgical instrument that includes a shaft axis and first and second jaws that are configured to move relative to each other about a fixed jaw axis between a fully open position and a fully closed position. A firing member is configured to move between a starting position and an ending position. A first jaw engagement member extends laterally from each lateral side of the firing member. Each first jaw engagement member is oriented along a first jaw engagement axis that intersects the shaft axis. A second jaw engagement member extends laterally from each lateral side of the firing member. Each second jaw engagement member is oriented along a second jaw engagement axis that intersects the shaft axis and the first jaw engagement axis.



No. of Pages : 88 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023436 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ANVIL HAVING A KNIFE SLOT WIDTH

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(51) International classification	:A61B17/072
(31) Priority Document No	:15/385910
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2017/056738
Filing Date	:30/10/2017
(87) International Publication No	:WO 2018/116009
(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)SHELTON, IV, Frederick E.**

**2)HARRIS, Jason L.**

**3)BAKOS, Gregory J.**

**4)HUANG, Zhifan F.**

**5)HENSEL, Adam D.**

---

(57) Abstract :

A surgical instrument comprising an anvil and a firing member is disclosed. The anvil comprises longitudinal rows of staple forming pockets including inner rows of forming pockets, outer rows of forming pockets, and intermediate rows of forming pockets positioned between the inner rows of forming pockets and the outer rows of forming pockets. The firing member comprises cams configured to position the anvil which do not extend laterally beyond the inner rows of forming pockets. In other embodiments, the cams of the firing member do not extend laterally to the inner rows of forming pockets.



No. of Pages : 104 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023437 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SURGICAL INSTRUMENTS WITH JAWS THAT ARE PIVOTABLE ABOUT A FIXED AXIS AND INCLUDE SEPARATE AND DISTINCT CLOSURE AND FIRING SYSTEMS

(51) International classification	:A61B17/072
(31) Priority Document No	:15/385912
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/064515
Filing Date	:04/12/2017
(87) International Publication No	:WO 2018/118408
(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)SHELTON, IV, Frederick E.**

**2)HARRIS, Jason L.**

---

(57) Abstract :

A surgical instrument with first and second jaws that are pivotally supported relative to each other for pivotal travel about a fixed pivot axis between open and closed positions. A firing member is movably supported for selective axial travel between starting and ending positions within at least one of the jaws and is configured to engage both jaws when the jaws are in a closed position. A firing system operably interfaces with the firing member to selectively axially move the firing member between the starting and ending positions and a closure system that operably interfaces with at least one of the jaws to move the jaw between the open and closed positions without actuating the firing system.



No. of Pages : 85 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023438 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ULTRASONIC ROBOTIC TOOL ACTUATION

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(51) International classification :A61B17/32A61B34/30A61B17/00  
(31) Priority Document No :15/386516  
(32) Priority Date :21/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2017/057703  
Filing Date :06/12/2017  
(87) International Publication No :WO 2018/116044  
(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 :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.

(72)Name of Inventor :

1)KIRK, Jeffrey

2)FELDER, Kevin D.

(57) Abstract :

Described herein include various embodiments of a tool assembly for performing endoscopic surgery that can be used manually and/or with a robotic surgical system. The tool assembly can include a shaft assembly that extends from a housing of the tool assembly. A distal end of the shaft can include an end effector that includes a clamp arm pivotally coupled to a blade for cutting and/or sealing tissue. Pivoting of the clamp arm between the open and closed configurations can be caused by movement of a yoke that is slidably disposed within the housing of the tool assembly. For example, the yoke can be caused to move by one or more outputs (e.g., a manual output, a rotary output, and/or a linear mechanical output). Furthermore, some tool assembly embodiments can include a biasing system that biases the yoke such that the clamp arm is in the open configuration. In some embodiments, the tool assembly can be configured for tissue spread dissection using the clamp arm and blade.



No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023439 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SURGICAL INSTRUMENT WITH PRIMARY AND SAFETY PROCESSORS

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(51) International classification	:A61B17/072
(31) Priority Document No	:15/385924
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/065585
Filing Date	:11/12/2017
(87) International Publication No	:WO 2018/118486
(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)SHELTON, Frederick E. IV**

**2)YATES, David C.**

**3)HARRIS, Jason L.**

---

(57) Abstract :

A surgical instrument includes a motor operably coupled to a firing member, wherein the motor is configured to generate at least one rotational motion to motivate the firing member to cause staples to be deployed during a firing stroke. The surgical instrument includes a primary processor configured to determine a first acceleration of the firing member during the firing stroke, and compare the first acceleration to predetermined threshold acceleration. The surgical instrument also includes a secondary processor configured to determine a second acceleration of the firing member during the firing stroke, and compare the second acceleration to the predetermined threshold value.



No. of Pages : 132 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023444 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SPHYGMOMANOMETER, BLOOD PRESSURE MEASUREMENT METHOD, AND DEVICE

(51) International classification	:A61B5/022
(31) Priority Document No	:2016-256022
(32) Priority Date	:28/12/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/042085
Filing Date	:22/11/2017
(87) International Publication No	:WO 2018/123374
(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)HIGASHIMURA, Yu**

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**3)ESHITA, Shusuke**

**4)NISHIOKA, Takanori**

**5)SANO, Yoshihiko**

**6)KUBO, Takeshi**

**(57) Abstract :**

This sphygmomanometer comprises: a main body (10) housing a pump; a belt (2); and a cuff structure (20). The cuff structure (20) is arranged facing the inner circumferential surface of the belt (20), in a band shape, and has one end (20f) thereof attached to the main body (10). The cuff structure (20) includes: a bag-shaped pressure cuff (23) extending along the circumferential direction of a site to be measured; a bag-shaped sensing cuff (21) extending in a circumferential direction so as to cross a section through which an artery passes in the site to be measured; and a back plate (22) interposed between the pressure cuff (23) and the sensing cuff (21).

Pressurizing fluid is supplied from the pump to the pressure cuff (23) and the site to be measured is squeezed. Blood pressure is calculated on the basis of the pressure of the pressure-transmitting fluid housed in the sensing cuff (21).



No. of Pages : 48 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023446 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR VALIDATING A STERILISATION METHOD COMPRISING TWO SUCCESSIVE CONTAMINATIONS

(51) International classification :C12Q1/02A61L2/28C12M1/34  
(31) Priority Document No :16.01614  
(32) Priority Date :15/11/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/000213  
    Filing Date :15/11/2017  
(87) International Publication No :WO 2018/091788  
(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 :

1)BIRON, Jean-François

(57) Abstract :

The invention concerns a method for validating a method for sterilising an article, making it possible to validate the sterility assurance level achieved with this sterilisation method. The method according to the invention is characterised in that it consists of carrying out a first step of contaminating a container receiving the article with more than 105 living microorganism cells, then carrying out a first sterilisation cycle with the chosen method, then opening the container in order to contaminate it again with more than 105 living microorganism cells, then carrying out a second sterilisation cycle with the same method, and finally checking the sterility of the container after the first sterilisation cycle and after the second sterilisation cycle. The method according to the invention is applicable in particular for products and devices intended for health use.



No. of Pages : 15 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023459 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : SURGICAL INSTRUMENT WITH MULTIPLE FAILURE RESPONSE MODES

(51) International classification :A61B17/072A61B17/00A61B90/00  
(31) Priority Document No :15/385922  
(32) Priority Date :21/12/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/062585  
Filing Date :20/11/2017  
(87) International Publication No :WO 2018/118312  
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.

(72)Name of Inventor :

1)SHELTON, IV, Frederick E.

2)YATES, David C.

3)HARRIS, Jason L.

4)OVERMYER, Mark D.

5)STEPHENSON, Kharyl Evenson George

(57) Abstract :

A surgical instrument includes a failure response system with a first circuit configured to detect a first operational error of the powered surgical stapling and cutting instrument, and a control circuit configured to activate a first failure response mode if the first operational error is detected.



No. of Pages : 134 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023460 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BILATERALLY ASYMMETRIC STAPLE FORMING POCKET PAIRS

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(51) International classification	:A61B17/072
(31) Priority Document No	:15/385893
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2017/056731
Filing Date	:30/10/2017
(87) International Publication No	:WO 2018/116006
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes  
Industrial Park Guaynabo, 00969 U.S.A.

(72)Name of Inventor :

1)SHELTON, IV, Frederick E.

2)BAKOS, Gregory J.

3)HARRIS, Jason L.

(57) Abstract :

In various embodiments, a stapling assembly is disclosed. The stapling assembly comprises, among other things, an anvil configured to deform staples. The anvil comprises a tissue-engaging surface and a pair of forming pockets defined in the tissue-engaging surface, wherein the pair of forming pockets are configured to deform corresponding legs of a staple. The pair of forming pockets comprises a longitudinal pocket axis, an intermediate axis comprising a center point, a proximal forming pocket, and a distal forming pocket, wherein the pair of forming pockets are bilaterally asymmetric with respect to the longitudinal pocket axis and the intermediate axis, and wherein the pair of forming pockets are rotationally asymmetric with respect to the center point.



No. of Pages : 144 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023466 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DEVICE FOR CONNECTING CONDUCTORS AND CONNECTION ASSEMBLY COMPRISING SUCH A DEVICE

(51) International classification	:H01R9/03H01R13/512	(71) <b>Name of Applicant :</b> <b>1)SAFRAN AEROSYSTEMS</b> Address of Applicant :61 rue Pierre Curie 78370 PLAISIR France
(31) Priority Document No	:1661219	
(32) Priority Date	:18/11/2016	
(33) Name of priority country	:France	
(86) International Application No Filing Date	:PCT/EP2017/078910 :10/11/2017	(72) <b>Name of Inventor :</b> <b>1)PELLETIER, Yannick</b> <b>2)BRAJARD, Fabrice</b>
(87) International Publication No	:WO 2018/091372	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

This device for connecting conductors, in particular electrical conductor cables or optical fibres, comprises a hollow body (3) defining an inner passage (P) for the conductors and an attachment member (5) for attaching the body onto a connector (4). The device comprises a removable spacer (6) that can be positioned in the extension of the body, between the body and the connector, the spacer internally defining a chamber opening on either side of the spacer at mutually opposite faces and intended to interact with the hollow body and/or the connector, the spacer being able to be opened in such a way as to allow access to the chamber.



No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023481 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PRESSURE SENSITIVE ADHESIVE COMPOSITIONS AND METHODS FOR PREPARING SAME

(51) International classification :C09J7/02C09J133/06C09J133/14  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/EP2017/052367  
Filing Date :03/02/2017  
(87) International Publication No :WO 2018/141399  
(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)SYNTHOMER USA LLC

Address of Applicant :160 Greentree Dr. Suite 101 Dover, DE 19904 U.S.A.

2)SYNTHOMER (UK) LTD.

(72)Name of Inventor :

1)LEE, Jay

2)GUO, Jong. S.

(57) Abstract :

The present invention relates to a pressure sensitive adhesive composition comprising the emulsion polymerization product of a monomer mixture, the monomer mixture comprising: (a) more than 38 wt.-% of at least one alkyl ester of (meth)acrylic acid; (b) more than 10 wt.-% to less than 20 wt.-% of at least one vinyl aromatic monomer; (c) 0.1 to 8 wt.-% of at least one hydroxyl functional (meth)acrylate monomer; (d) 0.05 to 3 wt.-% of least one ureido substituted ethylenically unsaturated monomer; (e) 0 to 6 wt.-% at least one ethylenically unsaturated carboxylic acid; (f) 0 to 25 wt.-% at least one ethylenically unsaturated monomer different from monomers (a) to (e), wherein the amounts of monomers (a) to (f) add up to 100 wt-% based on the total weight of the monomer mixture.

No. of Pages : 24 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023482 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PASSIVE ACTUATOR FOR SUPPRESSING A VIBRATION OF A COLUMN PIPE OF A VERTICAL PUMP, VERTICAL PUMP AND METHOD OF RETROFITTING A VERTICAL PUMP

(51) International classification	:F03G7/06F04D29/66	(71) <b>Name of Applicant :</b> <b>1)SULZER MANAGEMENT AG</b> Address of Applicant :Neuwiesenstrasse 15 8401 Winterthur Switzerland
(31) Priority Document No	:16205390.4	
(32) Priority Date	:20/12/2016	
(33) Name of priority country	:EPO	
(86) International Application No	:PCT/EP2017/080707	(72) <b>Name of Inventor :</b> <b>1)EGGERTSON, Edward Curran</b>
Filing Date	:28/11/2017	
(87) International Publication No	:WO 2018/114247	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

A passive actuator is proposed for suppressing a vibration of a column pipe of a vertical pump wherein the actuator (10) is adapted for being mounted between the column pipe (3) of the vertical pump (1) and a canister (6) surrounding the column pipe (3) said passive actuator (10) having a first operational state for adding stiffness between the canister and the column pipe (3) and a second operational state for at least reducing said stiffness wherein the passive actuator (10) comprises a plurality of passive actuator elements (20) each of which is designed to automatically change from the second operational state to the first operational state when the temperature of the passive actuator element (20) changes from a second temperature to a first temperature the first temperature being different from the second temperature and to automatically change from the first operational state to the second operational state when the temperature of the passive actuator element (20) changes from the first temperature to the second temperature. In addition a vertical pump is proposed comprising such a passive actuator (10) as well as a method of retrofitting a vertical pump.



No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023483 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WASTE WATER PIPING SYSTEM AND AN AIR VALVE

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(51) International classification :E03C1/12E03C1/28F16K17/02  
(31) Priority Document No :1600325-3  
(32) Priority Date :15/11/2016  
(33) Name of priority country :Sweden  
(86) International Application No :PCT/SE2017/051134  
    Filing Date :15/11/2017  
(87) International Publication No :WO 2018/093321  
(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)AKTIEBOLAGET DURGO

Address of Applicant :Box 3021 169 03 Solna Sweden

(72)Name of Inventor :

1)HANSSON, Hans Oliver

(57) Abstract :

The invention relates to a waste water piping system and to an air valve for equalizing waste water pipe under-pressure while preventing odours from escaping the waste water piping system. The air valve comprises: a valve housing having; a housing body; an air valve input; an air valve output for connection to a partly air filled waste water piping system, such as a sewage system, including at least one plumbing trap; a movable valve member with a surface facing a channel part and a valve seat. The air valve, in operation, is capable of switching between a first state and a second state dependent on a pressure difference between an ambient first pressure level, and a waste water piping system second pressure level.



No. of Pages : 51 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023485 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : NON-ORIENTED ELECTROMAGNETIC STEEL SHEET

(51) International classification :C22C38/00C22C38/60H01F1/147  
(31) Priority Document No :2017-005212  
(32) Priority Date :16/01/2017  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2018/000981  
Filing Date :16/01/2018  
(87) International Publication No :WO 2018/131712  
(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)NIPPON STEEL CORPORATION

Address of Applicant :6-1, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008071 Japan

(72)Name of Inventor :

1)YASHIKI Hiroyoshi

2)NATORI Yoshiaki

3)TAKEDA Kazutoshi

4)MUKAWA Susumu

5)MATSUMOTO Takuya

6)FUJITA Koji

7)MOROHOSHI Takashi

8)MIYAZAKI Masafumi

(57) Abstract :

This non-oriented electromagnetic steel sheet has a chemical composition containing, in mass%, C: greater than 0% and less than or equal to 0.0050%, Si: 3.0-4.0%, Mn: 1.2-3.3%, P: greater than 0% and less than 0.030%, S: greater than 0% and less than or equal to 0.0050%, sol. Al: greater than 0% and less than or equal to 0.0040%, N: greater than 0% and less than or equal to 0.0040%, one or more of La, Ce, Pr and Nd: total of 0.0005-0.0200%, Ca: 0.0005-0.0100%, Ti: 0.0005-0.0100%, Sn: 0-0.10%, Sb: 0-0.10%, and Mg: 0-0.0100%, the remainder being Fe and impurities; Si-0.5—Mn: greater than or equal to 2.0%, and Si+0.5—Mn: greater than or equal to 3.8%.



No. of Pages : 37 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023486 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND EQUIPMENT FOR CONTROLLED PATENTING OF STEEL WIRE

(51) International classification :C21D9/52C21D9/573C21D1/63  
(31) Priority Document No :17151117.3  
(32) Priority Date :12/01/2017  
(33) Name of priority country :EPO  
(86) International Application No:PCT/EP2018/050389  
    Filing Date :09/01/2018  
(87) International Publication No :WO 2018/130499  
(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)NV BEKAERT SA

Address of Applicant :Bekaertstraat 2 8550 Zwevegem West  
Vlaanderen Belgium

(72)Name of Inventor :

1)MESPLONT, Christophe

2)BRUGGEMAN, Tim

3)BEYENS, Franky

4)HOLVOET, Jan

5)LAPEIRE, Gregory

(57) Abstract :

A method of continuous controlled cooling of a plurality of heated steel wires having a diameter larger than 2.8 mm and having an austenite microstructure and of transformation to a pearlite microstructure of the steel wires. The method comprises the steps of : a) Providing a first coolant bath comprising a first coolant liquid. The first coolant liquid comprises water and a stabilizing additive. b) Guiding the plurality of previously heated steel wires parallel to each other along individual paths through the first coolant liquid contained in the first coolant bath; and directing impinging liquid immersed inside the first coolant bath towards each of the steel wires over a certain length L. The impinging liquid decreases the thickness of or destabilizes the steam film around each of the plurality of steel wires, resulting in an increase of the speed of cooling over said length L. The intensity of the impinging liquids is individually set and/or controlled for each individual steel wire or for subsets of the plurality of steel wires. c) Guiding the plurality of steel wires parallel to each other through air for further cooling.



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

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023503 A

(19) INDIA

(22) Date of filing of Application :13/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : CORELESS ROTATING ELECTRIC MACHINE TO BE OPERATED UNDER LOAD EXCEEDING RATING, DRIVING METHOD FOR SAME, AND DRIVE SYSTEM INCLUDING SAME

(51) International classification	:H02K9/20	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:NA	<b>1)M-LINK CO., LTD.</b>
(32) Priority Date	:NA	Address of Applicant :3-28-22, Chuorinkan, Yamato-shi, Kanagawa 2420007 Japan
(33) Name of priority country	:NA	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/JP2016/084856	<b>1)SHIRAKI, Manabu</b>
Filing Date	:24/11/2016	<b>2)OMOMO, Shuichi</b>
(87) International Publication No	:WO 2018/096636	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The purpose of the present invention is to obtain a coreless rotating electric machine for constant operation under a load exceeding rated load, a driving method for the same, and a drive system including the same. More specifically, a coreless rotating electric machine, a driving method for the same, and a drive system including the same are provided, the coreless rotating electric machine comprising a stator (2) comprising a lid-shaped mount (200) to which an end surface of an energizable coreless cylindrical coil (100) is fixed, and a rotor (3) comprising a cylindrical or cup-shaped mount (300) rotatably disposed opposite the lid-shaped mount and having a plurality of magnets (4) disposed on an inner circumferential surface thereof, the stator (2) and the rotor (4) forming a space (40) including an air gap. When the coreless rotating electric machine is operated under a load exceeding rating, a refrigerant liquid (80) is supplied to the space including the air gap, the refrigerant liquid is vaporized by heat generated by the cylindrical coil, the cylindrical coil is cooled by the latent heat of vaporization of the refrigerant liquid, and the supply amount of the refrigerant liquid is adjusted so that the cylindrical coil does not exceed an allowed upper-limit temperature for rated operation. In this way, the coreless rotating electric machine is allowed to operate under a load exceeding rating.



No. of Pages : 41 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023507 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : GLP-1 RECEPTOR AGONISTS AND USES THEREOF

(51) International classification :C07D401/14C07D405/14C07D413/14  
(31) Priority Document No :62/435533  
(32) Priority Date :16/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/IB2017/057577  
Filing Date :01/12/2017  
(87) International Publication No :WO 2018/109607  
(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)PFIZER INC.

Address of Applicant :235 East 42nd Street New York, NY 10017 U.S.A.

(72)Name of Inventor :

- 1)ASPNES, Gary Erik
- 2)BAGLEY, Scott W.
- 3)CURTO, John M.
- 4)DOWLING, Matthew S.
- 5)EDMONDS, David James
- 6)FLANAGAN, Mark E.
- 7)FUTATSUGI, Kentaro
- 8)GRIFFITH, David A.
- 9)HUARD, Kim
- 10)INGLE, Gajendra
- 11)JIAO, Wenhua
- 12)LIMBERAKIS, Chris
- 13)MATHIOWETZ, Alan M.
- 14)PIOTROWSKI, David W.
- 15)RUGGERI, Roger B.

(57) Abstract :

Provided herein are 6-carboxylic acids of benzimidazoles and 4-aza-, 5-aza-, 7-aza- and 4,7-diaza-benzimidazoles as GLP-1R agonists, processes to make said compounds, and methods comprising administering said compounds to a mammal in need thereof.

No. of Pages : 177 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023508 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : HERBICIDE COMBINATIONS

(51) International classification	:A01N43/40A01N43/707A01N43/80
(31) Priority Document No	:16205640.2
(32) Priority Date	:21/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/083302
Filing Date	:18/12/2017
(87) International Publication No	:WO 2018/114796
(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)BAYER CROPSCIENCE AKTIENGESELLSCHAFT**  
Address of Applicant :Alfred-Nobel-Str. 50 40789 Monheim am Rhein Germany

**2)BAYER AKTIENGESELLSCHAFT**

(72)Name of Inventor :

**1)TOSSENS, Herve  
2)WILDE, Thomas  
3)WAGENER, Fritz  
4)KING, Steven Russel**

(57) Abstract :

The present invention primarily relates to herbicide combinations comprising (i) diflufenican (ii) pyroxasulfone and (iii) metribuzin to compositions comprising said herbicide combinations. The present invention further relates to a method of producing said herbicide combinations and compositions comprising said herbicide combinations. The present invention also relates to the use of said herbicide combinations and compositions comprising said herbicide combinations in the field of agriculture for controlling harmful plants.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023509 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ENCAPSULATION COMPOSITION FOR ORGANIC ELECTRONIC DEVICE, AND ENCAPSULATION FORMED USING SAME

(51) International classification	:H01L51/00H01L51/52	(71) <b>Name of Applicant :</b> <b>1)MOMENTIVE PERFORMANCE MATERIALS KOREA CO., LTD</b> Address of Applicant :803, 298, Beotkkot-ro, Geumcheon-gu, Seoul 08510 Republic of Korea
(31) Priority Document No	:10-2016-0180095	
(32) Priority Date	:27/12/2016	
(33) Name of priority country	:Republic of Korea	
(86) International Application No	:PCT/KR2017/015070	
Filing Date	:20/12/2017	
(87) International Publication No	:WO 2018/124597	
(61) Patent of Addition to Application Number	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)YU, Sun</b> <b>2)KIM, Nan Soo</b> <b>3)JEONG, Minjae</b> <b>4)TAKESHI, Sunaga</b>
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to an encapsulation composition for an organic electronic device, and an encapsulation formed using the same. The encapsulation composition according to an embodiment of the present invention comprises: 1) a first copolymer including a first unit represented by Chemical Formula 1, a second unit represented by Chemical Formula 2 and a third unit represented by Chemical Formula 3; 2) a second copolymer including the second unit represented by Chemical Formula 2 and the third unit represented by Chemical Formula 3; 3) one or more types of a photo-initiator; 4) a reactive silicon-based oligomer; and 5) a silicone acrylate-based compound.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023512 A

(19) INDIA

(22) Date of filing of Application :13/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : WRINKLE AMELIORATING AGENT

(51) International classification	:A61K8/34A61Q19/00
(31) Priority Document No	:2016-230435
(32) Priority Date	:28/11/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/042345
Filing Date	:27/11/2017
(87) International Publication No	:WO 2018/097277
(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)POLA CHEMICAL INDUSTRIES, INC.

Address of Applicant :1234, Aino, Fukuroi-shi, Shizuoka  
4378765 Japan

(72)Name of Inventor :

1)SAITO, Yuko

2)SHISHIDO, Mayumi

(57) Abstract :

The present invention addresses the problem of providing a wrinkle ameliorating agent which has excellent wrinkle ameliorating effect. According to the present invention, a wrinkle ameliorating agent is configured to contain a compound represented by general formula (1) and/or a compound represented by general formula (2) as an active ingredient. (In general formulae (1) and (2), each of R and R" independently represents a hydrogen atom or an alkyl group having 1-4 carbon atoms; R" represents an alkylene group having 1-3 carbon atoms; and n represents a number of 0 or 1.)



No. of Pages : 32 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023513 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WRINKLE AMELIORATING AGENT

(51) International classification	:A61K8/41A61Q19/08	(71) <b>Name of Applicant :</b> <b>1)POLA CHEMICAL INDUSTRIES, INC.</b> Address of Applicant :1234, Aino, Fukuroi-shi, Shizuoka 4378765 Japan
(31) Priority Document No	:2016-230134	
(32) Priority Date	:28/11/2016	
(33) Name of priority country	:Japan	
(86) International Application No	:PCT/JP2017/042338	(72) <b>Name of Inventor :</b>
Filing Date	:27/11/2017	<b>1)MORI, Yasuhito</b>
(87) International Publication No	:WO 2018/097274	<b>2)SAITO, Yuko</b>
(61) Patent of Addition to Application Number	:NA	<b>3)SHONO, Michiko</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention addresses the problem of providing a wrinkle ameliorating agent which has excellent wrinkle ameliorating effect. According to the present invention, a wrinkle ameliorating agent is configured to contain a compound represented by general formula (1) or an acid addition salt thereof as an active ingredient. (In the formula, X represents an alkylene group having 1-2 carbon atoms, wherein a hydrogen atom may be substituted by a methyl group; Y represents COOR1 or CH2OR2; R1 represents a hydrogen atom or an optionally branched alkyl group having 1-6 carbon atoms; and R2 represents a hydrogen atom or an optionally branched acyl group having 1-6 carbon atoms.)

No. of Pages : 32 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023516 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TIRES COMPRISING POLYINDANE RESINS AND USES THEREOF

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(51) International classification :C08K5/01B60C1/00C08K3/04  
(31) Priority Document No :62/436094  
(32) Priority Date :19/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/067209  
    Filing Date :19/12/2017  
(87) International Publication No :WO 2018/118855  
(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 :200 South Wilcox Drive Kingsport, TN  
37660 U.S.A.

(72)Name of Inventor :

- 1)INGRATTA, Mark, William
- 2)BASU, Soumendra, Kumar
- 3)PAVLIN, Mark, Stanley
- 4)DELOACH, Joseph, Alexander
- 5)KUTSEK, George, Joseph
- 6)CHENG, Wei, Min

(57) Abstract :

The present invention is generally related to various types of compositions that comprise a polyindane resin. In particular, the polyindane resins may be utilized in various polymer-based and elastomer-based formulations in order to enhance several properties and characteristics of those formulations. More specifically, elastomeric compositions are provided that comprise at least one polyindane resin, which may be used to replace or enhance the functionality of existing hydrocarbon resins used in elastomeric formulations. The elastomeric compositions may be used to produce various tire components.



No. of Pages : 54 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023520 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND NETWORK NODE FOR ENABLING WIRELESS COMMUNICATION WITH A WIRELESS DEVICE

(51) International classification :H04W52/14H04W52/16H04W52/24  
(31) Priority Document No :NA  
(32) Priority Date :NA  
(33) Name of priority country :NA  
(86) International Application No :PCT/SE2016/051314  
Filing Date :22/12/2016  
(87) International Publication No :WO 2018/117922  
(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 :**  
**1)...STR-M, Magnus**  
**2)LINDOFF, Bengt**  
**3)NORDSTR-M, Fredrik**  
**4)HAGERMAN, Bo**

(57) Abstract :

A method and a network node (300) for enabling wireless communication with a wireless device (302), wherein no more than a pre-determined maximum total transmit power is available for downlink transmission by the network node (300). When detecting that the wireless device (302) requires an extended transmission range (300B) which is larger than a nominal transmission range (300A), a boosted transmit power is determined and used for transmitting a first set of channels and/or signals to be used by the wireless device (302) to achieve the extended transmission range (300B). An attenuated transmit power is also determined and used for transmitting a second set of channels and/or signals not included in the first set of channels and/or signals, which provides a slightly reduced transmission range (300C) for the second set. The boosted transmit power is thus higher than a nominal transmit power, and the attenuated transmit power is lower than the nominal transmit power, so that the total transmit power used for transmitting said first and second sets does not exceed the pre-determined maximum total transmit power.



No. of Pages : 27 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023523 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INFLATABLE MATTRESS

(51) International classification	:A61G7/057
(31) Priority Document No	:LU-93336
(32) Priority Date	:06/12/2016
(33) Name of priority country	:Luxembourg
(86) International Application No	:PCT/EP2017/081555
Filing Date	:05/12/2017
(87) International Publication No	:WO 2018/104319
(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)ABU AL-RUBB, Khalil Mahmoud**  
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(72)Name of Inventor :

**1)ABU AL-RUBB, Khalil Mahmoud**

(57) Abstract :

An inflatable mattress comprising a number of longitudinal compartments, each of which is independently inflatable. A method of changing a sheet or other bedding by sequentially inflating and deflating longitudinal compartments of a mattress.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023524 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : BISPECIFIC POLYPEPTIDES TO GITR AND CTLA-4

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(51) International classification :A61P35/00C07K14/705C07K16/28  
(31) Priority Document No :1619652.9  
(32) Priority Date :21/11/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/EP2017/079925  
Filing Date :21/11/2017  
(87) International Publication No :WO 2018/091739  
(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)ALLIGATOR BIOSCIENCE AB

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1)ELLMARK, Peter

2)FRITZELL, Sara

3)FUREBRING, Christina

4)KVARNHAMMAR, Anne

5)LEVIN, Mattias

6)NORL%oN, Per

7)NYBLOM, Eva

8)VEITONM,,KI, Niina

9)WINNERSTAM, Magnus

(57) Abstract :

The present invention provides multispecific polypeptides, such as bispecific antibodies, comprising a first binding domain capable of specifically binding to GITR, and a second binding domain capable of specifically binding to CTLA-4. The invention further provides compositions of said bispecific polypeptides, as well as methods and uses of the same.



No. of Pages : 106 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023532 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : NOVEL ANTI\_CD137 ANTIBODIES AND USES THEREOF

(51) International classification	:C07K16/28A61K39/00
(31) Priority Document No	:1619648.7
(32) Priority Date	:21/11/2016
(33) Name of priority country	:U.K.
(86) International Application No Filing Date	:PCT/EP2017/079930 :21/11/2017
(87) International Publication No	:WO 2018/091740
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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**1)ELLMARK, Peter**

**2)FRITZELL, Sara**

**3)FUREBRING, Christina**

**4)PETERSSON, Jessica**

**5)S,,LL, Anna**

**6)SMITH, Karin Enell**

**7)VARAS, Laura**

**8)VON SCHANTZ, Laura**

**9)VEITONM,,KI, Niina**

**(57) Abstract :**

The present invention relates to antibodies (and fragments, variants, fusions and derivatives thereof) with binding specificity for domain 2 of human CD137 which are capable of inhibiting the binding of a reference antibody to human CD137. The antibodies and fragments have utility in the treatment of diseases such as cancer. The invention also relates to pharmaceutical compositions, uses, methods and kits comprising such antibodies.



No. of Pages : 84 No. of Claims : 96

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023535 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TETRAAZABICYCLO-MACROCYCLE BASED MANGANESE CHELATE COMPOUNDS  
SUITABLE AS MRI IMAGING AGENTS

(51) International classification	:A61K49/10C07F13/00
(31) Priority Document No	:62/437082
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2017/084148
Filing Date	:21/12/2017
(87) International Publication No	:WO 2018/115314
(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)MEIJER, Andreas, Richard**

**2)THANING, Mikkel, Jacob**

**3)BALES, Brian, Christopher**

**4)RISHEL, Michael, James**

---

(57) Abstract :

The invention provides compounds of formula (I) representing a polyaza-macrocyclic with carboxylic acid side arms complexing Manganese as core metal. The complexes are suitable for use as contrast agents in magnetic resonance imaging (MRI).

No. of Pages : 60 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023551 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FLUID CONTROL VALVE HAVING DIAPHRAGM THAT EXCLUSIVELY BIASES TO CLOSED POSITION AND METHODS OF FLUID CONTROL

(51) International classification	:F16K7/12F16K7/17F16K27/02
(31) Priority Document No	:62/433453
(32) Priority Date	:13/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/065061
Filing Date	:07/12/2017
(87) International Publication No	:WO 2018/111675
(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)TYCO FIRE PRODUCTS LP**

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(72)**Name of Inventor :**

**1)WILLIAMS, James, O.**

(57) Abstract :

A fluid control valve includes a cover portion and a body portion. Inner surfaces of the cover and the body portion define a chamber that includes an inlet and an outlet in communication with the chamber. The fluid control valve also includes a diaphragm disposed between the cover portion and the body portion. The diaphragm has a flexible member that is disposed within the chamber for controlling communication between the inlet and the outlet. The upper surface of the flexible member has a substantially smooth wall portion. The flexible member has an inverted position in which the upper surface conforms to at least a portion of the inner surface of the cover portion to define a passageway that permits communication between the inlet and the outlet. The diaphragm is configured such that the diaphragm exclusively biases the flexible member from the first position to the second position so that the flexible member conforms to and seals against the elongated seat member when the flexible member is in the second position.



No. of Pages : 25 No. of Claims : 53

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023552 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : A MANUFACTURING PROCESS OF HOT PRESS FORMED ALUMINIZED STEEL PARTS

(51) International classification	:C21D8/04C21D9/46C21D9/48
(31) Priority Document No	:PCT/IB2016/001774
(32) Priority Date	:19/12/2016
(33) Name of priority country	:PCT
(86) International Application No	:PCT/IB2017/001531
Filing Date	:08/12/2017
(87) International Publication No	:WO 2018/115951
(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)BLAISE, Alexandre

(57) Abstract :

A manufacturing process of a press hardened coated part comprising providing a furnace comprising N zones, each furnace zone being respectively heated at a setting temperature  $\Theta_{1F}$ ,  $\Theta_{2F}$ ,  $\Theta_{iF}$ , ...,  $\Theta_{NF}$ , implementing the following successive steps: providing a steel sheet with thickness  $th$  comprised between 0,5 and 5mm, comprising a steel substrate covered by an aluminium alloy pre-coating with a thickness comprised between 15 and 50 $\mu m$ , the emissivity coefficient being equal to  $0.15(1 + a)$ ,  $a$  being comprised between 0 and 2,4, then cutting said steel sheet to obtain a precoated steel blank, then placing the precoated steel blank in furnace zone 1 for a duration  $t_1$  comprised between 5 and 600s, wherein  $\Theta_{iF}$  and  $t_1$  are such that:  $\Theta_{1Fmax} > \Theta_{1F} > \Theta_{1Fmin}$  with:  $\Theta_{1Fmax} = (598 + A eBt_1 + CeDt_1)$  and  $\Theta_{1Fmin} = (550 + A'' eB''t_1 + C''eD''t_1)$ ,  $A$ ,  $B$ ,  $C$ ,  $D$ ,  $A''$ ,  $B''$ ,  $C''$ ,  $D''$  being such that  $A = (762 e0.071 th - 426 e-0.86 th) (1-0.345a)$ ,  $B = (-0.031 e-2.151 th - 0.039 e -0.094 th) (1+0.191a)$ ,  $C = (394 e0.193 th - 434.3 e -1.797 th) (1-0.364a)$ ,  $D = (-0.029 e-2.677 th - 0.011 e- 0.298 th) (1 +0.475a)$ ,  $A'' = (625 e0.123 th - 476 e-1.593 th) (1 -0.345a)$ ,  $B'' = (-0.059 e-2.109 th - 0.039 e- 0.091 th) (1+0.191a)$ ,  $C'' = (393 e0.190 th - 180 e- 1.858 th) (1-0.364a)$ ,  $D'' = (-0.044 e-2.915 th - 0.012 e- 0.324 th) (1 +0.475a)$ , wherein  $\Theta_{1F}$ ,  $\Theta_{1Fmax}$   $\Theta_{1Fmin}$  are in $^{\circ}$  Celsius,  $t_1$  is in s., and  $th$  is in mm, then transferring the precoated steel blank in the furnace zone 2 heated at a setting temperature  $\Theta_{2F} = \Theta_{1B}$  and maintaining isothermally the precoated steel blank for a duration  $t_2$ ,  $\Theta_{2F}$  and  $t_2$  being such that:  $t_{2min} \geq t_2 \geq t_{2max}$  with :  $t_{2min} = 0.95 t_2$  and  $t_{2max} = 1.05 t_2$  with :  $t_2 = t_{12} ( - 0.0007 th_2 + 0.0025 th - 0.0026) + 33952 - (55.52 x \Theta_{2F})$  wherein  $\Theta_{2F}$  is in $^{\circ}$  Celsius,  $t_2$ ,  $t_{2min}$ ,  $t_{2max}$ ,  $t_2$  are in s., and  $th$  is in mm, then transferring the precoated steel blank in further zones (3,...i,..., N) of the furnace, so to reach a maximum blank temperature  $\Theta_{MB}$  comprised between 850 $^{\circ}$ C and 950 $^{\circ}$ C, the average heating rate  $VA$  of the blank between  $\Theta_{2F}$  and  $\Theta_{MB}$  being comprised between 5 and 500 $^{\circ}$ C/s, then transferring the heated steel blank from the furnace into a press, then hot forming the heated steel blank in said press so as to obtain part, then cooling the part at a cooling rate in order to obtain a microstructure in the steel substrate comprising at least one constituent chosen among martensite or bainite.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :13/06/2019

(21) Application No.201917023553 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : INVERSION INHIBITOR FOR FLUID CONTROL VALVE AND METHODS OF FLUID CONTROL

(51) International classification :F16K7/12F16K7/17F16K27/02  
(31) Priority Document No :62/433541  
(32) Priority Date :13/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/065073  
    Filing Date :07/12/2017  
(87) International Publication No :WO 2018/111679  
(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)TYCO FIRE PRODUCTS LP

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19446 U.S.A.

(72)Name of Inventor :

1)WILLIAMS, James O.

(57) Abstract :

A fluid control valve includes a cover portion and a body portion. Inner surfaces of the cover and the body portion define a chamber that includes an inlet and an outlet in communication with the chamber. The cover portion includes a central section and an inversion inhibitor circumscribing the central section. The inversion inhibitor projects into the chamber toward a central axis of the chamber. The fluid control valve also includes a diaphragm disposed between the cover portion and the body portion. The diaphragm has a flexible member that is disposed within the chamber for controlling communication between the inlet and the outlet. The inversion inhibitor prevents the flexible member from reaching its natural-inverted position and creates a force within the flexible member that urges the flexible member to a seated position. In the partially inverted position, the upper surface of the flexible member conforms to at least a portion of the inner surface of the cover portion to define a passageway that permits communication between the inlet and the outlet.



No. of Pages : 25 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023051 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : FLOW BATTERIES INCORPORATING ACTIVE MATERIALS CONTAINING DOUBLY BRIDGED AROMATIC GROUPS

(51) International classification	:H01M10/42H01M8/18	(71) <b>Name of Applicant :</b> <b>1)LOCKHEED MARTIN ENERGY, LLC</b> Address of Applicant :6801 Rockledge Drive Bethesda, Maryland 20817-1877 U.S.A.
(31) Priority Document No	:15/360918	
(32) Priority Date	:23/11/2016	
(33) Name of priority country	:U.S.A.	
(86) International Application No Filing Date	:PCT/US2016/065159 :06/12/2016	(72) <b>Name of Inventor :</b> <b>1)MILLARD, Matthew</b> <b>2)NORMAN, Zachariah M.</b>
(87) International Publication No	:WO 2018/097843	
(61) Patent of Addition to Application Number Filing Date	:NA :NA	
(62) Divisional to Application Number Filing Date	:NA :NA	

(57) Abstract :

Electrolyte solutions for flow batteries and other electrochemical systems can contain an active material that is capable of transferring one or more electrons per molecule during an oxidation-reduction cycle. Doubly bridged aromatic groups or their coordination compounds can be particularly suitable active materials. Flow batteries can include a first half-cell containing a first electrolyte solution, and a second half-cell containing a second electrolyte solution, in which at least one of the first electrolyte solution and the second electrolyte solution contains an active material having at least two aromatic groups doubly bridged by a carbonyl moiety and a bridging moiety containing a bridging atom selected from carbon, nitrogen, oxygen, sulfur, selenium and tellurium. Such bridged compounds can directly function as the active material, or coordination compounds containing the bridged compounds as at least one ligand can serve as the active material.



No. of Pages : 29 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023067 A

(19) INDIA

(22) Date of filing of Application :11/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : CONSTRUCTIVE ASSEMBLY OF A CONTAINMENT MEANS, INTENDED FOR THE AUTOMATED PRODUCTION OF PHARMACEUTICAL OR BIOTECHNICAL ARTICLES

(51) International classification	:B25J21/00	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:16 405 035.3	<b>1)PHARMA INTEGRATION S.R.L.</b>
(32) Priority Date	:15/12/2016	Address of Applicant :Strada Del Petriccio e Belriguardo, 35 I-53100 Siena Italy
(33) Name of priority country	:EPO	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/IB2017/001581	<b>1)BECHINI, Claudio</b>
Filing Date	:15/12/2017	<b>2)SIGWARTH, Volker</b>
(87) International Publication No	:WO 2018/109549	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The constructive assembly of the containment means (9) is intended for the automated production of pharmaceutical or biotechnical articles (6). As an end product, a respective article (6) comprises multiple article parts (7). The containment means (9) has a housing (90) within which there is an inner chamber (91) having at least one through opening (917, 919). At most, multiple robots (1, 2) are installed in the chamber (91), which generally have a manipulating element (12, 22) on the pivotable arms (11, 21) thereof, which can move within a pivot range (R1,R2). At most, multiple process units (3) are installed in the chamber (91) for the production of the articles (6). The chamber (91) is formed by a process space (93) for the production of the articles (6) and a tub-shaped base space (92) for anchoring the feet (10, 20) of the robots (1, 2) to the side surfaces (910,912,916,918) inside the base space (92). The process space (93) is arranged above the base space (92) and both are adjacent in a corresponding manner and such that they are open to one another. The manipulating element (12, 22) functions as a gripping means and transportation means for the articles (6) or article parts (7) and/or for inspecting the articles (6) or article parts (7) and/or for the production of the articles (6). The pivot range (R1,R2) of the manipulating elements (12, 22) on the robots (1, 2) extends in the horizontal and vertical plane within a working region (a), which lies between a minimum and a maximum working height (amin,amax).



No. of Pages : 16 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023068 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : FLANGE JOINT ASSEMBLY FOR FLAMMABLE LIQUID

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(51) International classification :F16L23/18F16L59/147F16L23/12  
(31) Priority Document No :62/433590  
(32) Priority Date :13/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/065988  
Filing Date :13/12/2017  
(87) International Publication No :WO 2018/111983  
(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)MCDANIEL, William Mark

(57) Abstract :

A flanged fitting includes an annular fitting flange having an annular end face. A glass liner lines a radially inner annular portion of the annular end face of the annular fitting flange. A radially outer annular portion of the annular end face of the annular fitting flange is free from the glass liner. The radially inner annular portion and the radially outer annular portion of the annular end face of the annular fitting flange define an annular gasket abutment face configured to seat a gasket thereon. An annular gasket includes an annular gasket layer. The annular gasket layer includes a radially inner annular gasket segment including a first material suitable for forming a liquid-tight seal with an opposing flange. A radially outer annular gasket segment surrounds the radially inner annular gasket segment. The radially outer annular gasket segment is fire-rated for forming a fire-rated seal with the opposing flange.



No. of Pages : 18 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023069 A

(19) INDIA

(22) Date of filing of Application :11/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : POLYMER COMPRISING CERTAIN LEVEL OF BIO-BASED CARBON

(51) International classification	:C08F220/58	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:16203552.1	<b>1)CLARIANT INTERNATIONAL LTD</b>
(32) Priority Date	:12/12/2016	Address of Applicant :Rothausstr. 61 4132 Muttenz
(33) Name of priority country	:EPO	Switzerland
(86) International Application No	:PCT/EP2017/081415	(72) <b>Name of Inventor :</b>
Filing Date	:04/12/2017	<b>1)FISCHER, Dirk</b>
(87) International Publication No	:WO 2018/108609	<b>2)KAYSER, Christoph</b>
(61) Patent of Addition to Application Number	:NA	<b>3)STARKULLA, Gundula</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The present invention relates to a polymer comprising: (a) from 90 mol-% to 99.9 mol-%, of repeating units according to Formula (1) wherein at least 10 wt.-% of the repeating units according to Formula (1) comprise from 28 wt.-% to 100 wt.-% bio-based carbon content, relative to the total mass of carbon in the repeating unit according to Formula (1), measured according to standard ASTM D6866-12, Method B; Formula (1) and (b) from 0.01 mol-% to 10 mol-% of crosslinking or branching units, wherein the crosslinking or branching units result from the incorporation of a monomer comprising at least two olefinically unsaturated double bonds.



No. of Pages : 67 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023070 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD AND APPARATUSE FOR CONTROLLING GLASS TUBE TAPER

(51) International classification	:C03B17/04
(31) Priority Document No	:62/428005
(32) Priority Date	:30/11/2016
(33) Name of priority country	:U.S.A.
(86) International Application No Filing Date	:PCT/US2017/063906 :30/11/2017
(87) International Publication No	:WO 2018/102531
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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**(72)Name of Inventor :**

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- 3)HAWTOF, Daniel Warren**
- 4)MCELHENY, Douglas Edward**
- 5)MENG, Jiandong**
- 6)PANIDES, Elias**
- 7)PENG, Gaozhu**
- 8)RHOADS, Randy Lee**
- 9)YURKOVSKYY, Yuriy**
- 10)ZHOU, Chunfeng**

**(57) Abstract :**

A glass tube manufacturing apparatus for manufacturing glass tubing includes a glass delivery tank with molten glass. The glass delivery tank has a bottom opening. A bell has an upper portion with an outer diameter located at the bottom opening. A heating apparatus is at least partially disposed around the bell. The heating apparatus includes a heating portion and a muffle portion located below the heating portion. A lower extended muffle structure extends downwardly from the muffle portion. The lower extended muffle structure extending about a periphery of the glass tubing to manage convective airflow therethrough.



No. of Pages : 21 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023071 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR MANUFACTURING QUENCHED MOLDING, METHOD FOR PRODUCING STEEL MATERIAL FOR HOT PRESS, AND STEEL MATERIAL FOR HOT PRESS

(51) International classification :C21D9/00B21D22/20C21D1/18  
(31) Priority Document No :2016-229472  
(32) Priority Date :25/11/2016  
(33) Name of priority country :Japan  
(86) International Application No:PCT/JP2017/042074  
    Filing Date :22/11/2017  
(87) International Publication No :WO 2018/097200  
(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)NAKAZAWA, Yoshiaki  
2)TABATA, Shinichiro  
3)HIKIDA, Kazuo  
4)SUZUKI, Toshiya  
5)KOGA, Atsuo  
6)HAMADA,Koichi

(57) Abstract :

This method for manufacturing a quenched molding comprises: a first heat treatment step of austenitizing a blanked steel material by heating to a temperature higher than the Ac<sub>3</sub> transformation point and then causing martensitic transformation and bainite transformation by cooling; and a second heat treatment step of austenitizing the steel material having been subjected to the first heat treatment step by heating to a temperature higher than the Ac<sub>3</sub> transformation point and then causing martensitic transformation by cooling. At least one of the first heat treatment step and the second heat treatment step is completed by molding at a temperature higher than the Ar<sub>3</sub> transformation point after heating the steel material at a temperature higher than the Ac<sub>3</sub> transformation point.



No. of Pages : 29 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023072 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : HIGH STRENGTH GALVANIZED STEEL SHEET AND PRODUCTION METHOD THEREFOR

(51) International classification	:C22C38/00C21D9/46C22C38/06
(31) Priority Document No	:2017-022934
(32) Priority Date	:10/02/2017
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2017/015714
Filing Date	:19/04/2017
(87) International Publication No	:WO 2018/146828
(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)HIRASHIMA Takuya**

**2)NAKAGAITO Tatsuya**

**3)KOBA Masaki**

**4)EHASHI Tatsuya**

**5)IMAMURA Makoto**

(57) Abstract :

Provided are: a high strength galvanized steel sheet with excellent delayed fracture resistance characteristics resulting from reduction of the amount of diffusible hydrogen in the steel; and a production method therefor. The high strength galvanized steel sheet is provided with: a steel sheet having a specified component composition and a steel structure in which, in area ratio, the total amount of martensite and tempered martensite is at least 30%; and a galvanizing layer formed on the surface of the steel sheet. The amount of diffusible hydrogen obtained from an analysis method is 0.50 wt. ppm or less and the half width of the released hydrogen peak is 70Å°C or less.



No. of Pages : 62 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023095 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMPROVED SYNTHESIS OF LYSINE ACETYLSALICYLATE- GLYCINE PARTICLES

(51) International classification :C07C67/28C07C67/52C07C227/18  
(31) Priority Document No :16206723.5  
(32) Priority Date :23/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2017/084369  
Filing Date :22/12/2017  
(87) International Publication No :WO 2018/115434  
(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)VENTALEON GMBH

Address of Applicant :Wohraer Strae 37 35285 Gemünden Germany

(72)Name of Inventor :

1)NOCKER, Karlheinz

2)ZUHSE, Ralf

3)OSTROVSKYI, Dmytro

(57) Abstract :

The invention relates to a method for the production of acetylsalicylic acid lysinate, optionally lysine acetylsalicylate- glycine, comprising the following steps: a) providing a solution of acetylsalicylic acid in ethanol; b) providing an aqueous solution of lysine; c) combining the solutions of step a) and b) to form a mixture; d) optionally stirring the mixture; e) adding acetone to the mixture; f) incubating the mixture, to allow the formation of a acetylsalicylic acid lysinate product; g) isolating the acetylsalicylic acid lysinate product; wherein acetylsalicylic acid is used in excess compared to lysine and wherein no seed crystals are added to the mixture; and optionally the following further steps: h) providing a recrystallized glycine; wherein the glycine has been recrystallized with the following steps: h1) dissolving glycine in water; h2) adding acetone to the glycine solution; h3) stirring the mixture until a precipitate is obtained; i) combining the recrystallized glycine of step h) with the acetylsalicylic acid lysinate product of step g) to obtain lysine acetylsalicylate- glycine (LASAG) particles.



No. of Pages : 15 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023106 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : THREADED JOINT

(51) International classification	:F16L15/04
(31) Priority Document No	:2017-006319
(32) Priority Date	:18/01/2017
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2018/001242
Filing Date	:17/01/2018
(87) International Publication No	:WO 2018/135536
(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)VALLOUREC OIL AND GAS FRANCE**

(72)Name of Inventor :

**1)MARUTA, Satoshi**

**2)OKU, Yousuke**

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(57) Abstract :

A threaded joint capable of ensuring a high level of sealing performance is provided. A threaded joint (10) is provided with a pin (1) and a box (2). An inner male threaded section (13) of the pin (1) includes a parallel section (131). The parallel section (131) is positioned at an end part of a pin inner seal surface (11) side of the inner male threaded section (13), and thread root surfaces are formed in parallel to a pipe axis. An inner female threaded section (23) of the box (2) includes a tapered section (231). The thread height of the tapered section (231) is taller than the thread height of the parallel section (131). In a vertical cross-section of the pin (1) and box (2) in a non-fastened state, Da<Db is satisfied when the difference between diameters of adjacent thread crest surfaces (231a) in the tapered section (231) is denoted by Da, and the difference between the diameter of the thread root surface (131a) of the parallel section (131) and the maximum diameter of the pin inner seal surface (11) is denoted by Db.



No. of Pages : 23 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023107 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : STAPLE FORMING POCKET ARRANGEMENTS COMPRISING PRIMARY SIDEWALLS AND POCKET SIDEWALLS

(51) International classification	:A61B17/072	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:15/385900	1)ETHICON LLC Address of Applicant :#475 Street C, Suite 401 Los Frailes Industrial Park Guaynabo, 00969 U.S.A.
(32) Priority Date	:21/12/2016	(72) <b>Name of Inventor :</b>
(33) Name of priority country	:U.S.A.	1)BAKOS, Gregory J. 2)SHELTON, IV, Frederick E. 3)HARRIS, Jason L. 4)HUANG, Zhifan F.
(86) International Application No	:PCT/US2017/066315	
Filing Date	:14/12/2017	
(87) International Publication No	:WO 2018/118622	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

In various embodiments, a stapling assembly is disclosed. The stapling assembly comprises, among other things, an anvil configured to deform staples. The anvil comprises a tissue-engaging surface and a pair of forming pockets defined in the tissue-engaging surface and aligned along a longitudinal pocket axis, wherein the pair of forming pockets is configured to deform corresponding legs of a staple. The pair of forming pockets comprises a proximal forming pocket and a distal forming pocket. Each pocket comprises a pair of sidewalls extending between the forming surface and the tissue-engaging surface. Each sidewall comprises discrete sidewall portions oriented at different angles with respect to the tissue-engaging surface.



No. of Pages : 144 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023108 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : STAPLE CARTRIDGE COMPRISING STAPLES WITH DIFFERENT CLAMPING BREADTHS

(51) International classification :A61B17/072A61B17/064  
(31) Priority Document No :15/385917  
(32) Priority Date :21/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/064508  
    Filing Date :04/12/2017  
(87) International Publication No :WO 2018/118405  
(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)ETHICON LLC

Address of Applicant :#475 Street C, Suite 401 Los Frailes  
Industrial Park Guaynabo 00969 U.S.A.

(72)Name of Inventor :

1)SHELTON, Frederick E., IV

2)BAKOS, Gregory, J.

3)HARRIS, Jason, L.

(57) Abstract :

A staple cartridge assembly is disclosed which comprises first staples including a drive portion and a clenching portion offset from the drive portion by a first distance and, in addition, second staples including a drive portion and a clenching portion offset from the drive portion by a second distance which is different than the first distance.



No. of Pages : 81 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023118 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : TEMPERATURE CONTROL DEVICE

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(51) International classification :B01L3/00B01L7/00G05D23/19  
(31) Priority Document No :1620982.7  
(32) Priority Date :09/12/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2017/053297  
    Filing Date :02/11/2017  
(87) International Publication No :WO 2018/104698  
(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)HAYES, Matthew James  
2)FERGUSON, Andrew James  
3)JUNCU, Vasile Dan  
4)TEMPLE, Stephen

(57) Abstract :

A temperature control device (2) comprises a number of active thermal sites (6) disposed at respective locations on a substrate (10), each comprising a heating element (13) for applying a variable amount of heat to a corresponding site of a medium and a thermal insulation layer (16) disposed between the heating element and the substrate. At least one passive thermal region (8) is disposed between the active thermal sites (6) on the substrate (10), each passive thermal region (8) comprising a thermal conduction layer (18) for conducting heat from a corresponding portion of the medium to the substrate (10). The thermal conduction layer (18) has a lower thermal resistance in a direction perpendicular to a plane of the substrate (10) than the thermal insulation layer (16). This enables precise control over both heating and cooling of individual sites in a flowing fluid, for example.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023120 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : INHIBITORS OF TRANSGLUTAMINASES

(51) International classification :C07K5/11C07D241/04C07K5/113  
(31) Priority Document No :16207029.6  
(32) Priority Date :27/12/2016  
(33) Name of priority country :EPO  
(86) International Application No :PCT/EP2018/050085  
Filing Date :02/01/2018  
(87) International Publication No :WO 2018/122419  
(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)HILS, Martin  
2)PASTERNACK, Ralf  
3)BCHOLD, Christian

(57) Abstract :

The invention relates to the compound of general formula (I) as novel inhibitors of transglutaminases, to methods for producing the inventive compounds, to pharmaceutical compositions containing said inventive compounds and to their use for the prophylaxis and treatment of diseases associated with transglutaminases.



No. of Pages : 165 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023133 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : WET CLUTCH ASSEMBLY

(51) International classification	:F16D25/06F16D25/12F16D25/0638
(31) Priority Document No	:16206472.9
(32) Priority Date	:22/12/2016
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2017/083391
Filing Date	:18/12/2017
(87) International Publication No	:WO 2018/114853
(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)DANA BELGIUM N.V.

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(72)Name of Inventor :

1)CATTOOR, Kurt DM

2)SCHACHT, Filip D

(57) Abstract :

The invention relates to a wet clutch assembly (1; 100), comprising: a clutch drum (2); a clutch chamber (10) formed within the clutch drum (2); a clutch actuation piston (8) movably disposed within the clutch drum (2) and configured to be actuated by means of a hydraulic pressure in the clutch chamber (10); and a fluid line (14) at least partially extending through the clutch actuation piston (8), the fluid line (14) providing fluid communication with the clutch chamber (10) for filling the clutch chamber (10) via the fluid line (14).



No. of Pages : 22 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023134 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ARTICULATABLE SURGICAL INSTRUMENT WITH INDEPENDENT PIVOTABLE LINKAGE DISTAL OF AN ARTICULATION LOCK

(51) International classification	:A61B17/072A61B17/29
(31) Priority Document No	:15/385933
(32) Priority Date	:21/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/065704
Filing Date	:12/12/2017
(87) International Publication No	:WO 2018/118504
(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)HUNTER, Morgan, R.**

**2)WISE, Austin, E.**

**3)SHELTON, Frederick, E., IV**

**4)SCHULTZ, Darwin, L.**

---

(57) Abstract :

A surgical tool assembly that includes an elongate shaft assembly that defines a shaft axis. A surgical end effector is movably coupled to the elongate shaft assembly by a distal support link that is pivotally coupled to the surgical end effector to define an articulation axis that is transverse to the shaft axis. The distal support link is pivotally and axially movably coupled to the elongate shaft assembly to facilitate selective articulation of the surgical end effector relative to the elongate shaft assembly about the articulation axis between a first unarticulated position and an articulation position located on one side of the shaft axis.



No. of Pages : 121 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023137 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : ADAPTIVE IMAGE REGISTRATION FOR OPHTHALMIC SURGERY

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(51) International classification	:A61B3/10A61B3/13	(71)Name of Applicant :
(31) Priority Document No	:62/434874	1)NOVARTIS AG
(32) Priority Date	:15/12/2016	Address of Applicant :Lichtstrasse 35 4056 Basel Switzerland
(33) Name of priority country	:U.S.A.	(72)Name of Inventor :
(86) International Application No	:PCT/IB2017/057798	1)REN, Hugang
Filing Date	:11/12/2017	2)YU, Lingfeng
(87) International Publication No	:WO 2018/109640	
(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 ophthalmic surgical system includes an imaging system to generate a first image, an imaging system to generate a second image, and an image registration system to receive the first image, receive the second image, track a location of a distal tip of a surgical instrument in the first image, define a priority registration region in the first image comprising a portion of the first image within a predetermined proximity of the distal tip, register the priority registration region in the first image with a corresponding region in the second image, and update registration of the priority registration region in the first image with the corresponding region in the second image in real time as the distal tip is moved, without registering portions of the first or second images that are outside the registration regions.



No. of Pages : 18 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023161 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMPOSITION OF MATTER AND STRUCTURE OF ZEOLITE UZM-55 AND USE IN ISOMERIZATION OF AROMATIC MOLECULES

(51) International classification :C07C5/27C07C15/08B01J29/06  
(31) Priority Document No :62/437476  
(32) Priority Date :21/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/058264  
Filing Date :25/10/2017  
(87) International Publication No :WO 2018/118208  
(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)UOP LLC

Address of Applicant :25 East Algonquin Road P. O. Box 5017 Des Plaines, Illinois 60017-5017 U.S.A.

(72)Name of Inventor :

1)LOBO, Rodrigo J.  
2)NICHOLAS, Christopher P.  
3)MILLER, Mark A.  
4)GALEY, Melissa M.

(57) Abstract :

Isomerization processes such as the isomerization of ethylbenzene and xylenes, are catalyzed by the new crystalline aluminosilicate zeolite comprising a novel framework type that has been designated UZM-55. This zeolite is represented by the empirical formula: M+mRA11-xExSiyOz where M represents a metal or metals selected from zinc or Group 1 (IUPAC 1), Group 2 (IUPAC 2), Group 3 (IUPAC 3) or the lanthanide series of the periodic table including sodium, potassium or a combination of sodium and potassium cations, R is an organic structure directing agent or agents derived from reactants R1 and R2 such as where R1 is diisopropanolamine and R2 is a chelating diamine, and E is an element selected from the group consisting of gallium, iron, boron and mixtures thereof. Catalysts made from UZM-55 have utility in various hydrocarbon conversion reactions.



No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION

(21) Application No.201917023162 A

(19) INDIA

(22) Date of filing of Application :11/06/2019

(43) Publication Date : 02/08/2019

(54) Title of the invention : SUPPORT FOR FASTENING FAÇADE ELEMENTS

(51) International classification :E04F13/00E04F13/08E04B1/41  
(31) Priority Document No :10 2017 101 509.4  
(32) Priority Date :26/01/2017  
(33) Name of priority country :Germany  
(86) International Application No:PCT/EP2018/051507  
    Filing Date :23/01/2018  
(87) International Publication No :WO 2018/138066  
(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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VOITSBERG Austria

(72)Name of Inventor :

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2)HOLESINSKY, Klaus

3)HAUER, Juergen

4)LEGER, Martin

(57) Abstract :

The invention relates to a bracket for fastening facade elements of, in particular, suspended, back-ventilated facades, having a wall-fastening section which is designed for mounting the bracket on a building wall, and having a facade-fastening section which is designed for installing carrier or mounting profiles. The facade-fastening section comprises a first connection section which is designed for the horizontal installation of carrier or mounting profiles, and a second connection section which is designed for the vertical installation of carrier or mounting profiles, wherein the second connection section is arranged orthogonally to the first connection section, wherein the first connection section is arranged on a first sheet metal section having a first base surface which is substantially rectangular in design in plan view and wherein the second connection section is arranged on a second sheet metal section having a second base surface which is substantially rectangular in design in plan view, wherein at least one bead and/or at least one moulding is arranged in the first sheet metal section and/or in the second sheet metal section.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023168 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : SEALING HOLE PLUG

(51) International classification	:B62D25/24
(31) Priority Document No	:62/434079
(32) Priority Date	:14/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/062530
Filing Date	:20/11/2017
(87) International Publication No	:WO 2018/111505
(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)ILLINOIS TOOL WORKS INC.

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U.S.A.

(72)Name of Inventor :

1)KUHM, Michel

2)DORSCHNER, Stephane

(57) Abstract :

A hole plug is configured to plug a hole of a component. The hole plug includes a collar that is configured to abut a first surface of the component, and a plugging protuberance extending from the collar. The plugging protuberance includes a first lip and a second lip. The first lip is configured to abut an internal edge of the component that defines the hole. The second lip is configured to abut a second surface of the component that is opposite from the first surface.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023170 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD, DEVICE AND SYSTEM FOR LINK RECONSTRUCTION

(51) International classification	:H04W76/02	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:PCT/CN2016/113854	<b>1)HUAWEI TECHNOLOGIES CO., LTD.</b>
(32) Priority Date	:30/12/2016	Address of Applicant :Huawei Administration Building
(33) Name of priority country	:China	Bantian, Longgang District Shenzhen, Guangdong 518129 China
(86) International Application No	:PCT/CN2017/072511	(72) <b>Name of Inventor :</b>
Filing Date	:24/01/2017	<b>1)HU, Li</b>
(87) International Publication No	:WO 2018/120352	<b>2)CHEN, Jing</b>
(61) Patent of Addition to Application Number	:NA	<b>3)YU, Yinghui</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Disclosed are a method, device and system for link reconstruction. The method comprises: a user equipment (UE) obtains MAC of the UE according to a NAS integrity key and a first MAC generation parameter, the first MAC generation parameter comprising an identifier of the UE; the UE sends a reconstruction request message to a target RAN, the reconstruction request message comprising the MAC and the first MAC generation parameter; the UE receives a reconstruction response message of the target RAN. The UE triggers, by sending a reconstruction request message, a CP functional entity to authenticate the UE, thereby resolving the problem in the prior art of overlong time for connection reconstruction with a target RAN using an RAU process, improving the speed of connection reconstruction between the UE and a network, and improving user experience.



No. of Pages : 47 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023172 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : EXHAUST GAS AFTERTREATMENT SYSTEM FOR DIESEL ENGINE AND METHOD OF DETECTING ABNORMAL INJECTION

(51) International classification	:F01N3/28
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No Filing Date	:PCT/CN2016/110379 :16/12/2016
(87) International Publication No	:WO 2018/107464
(61) Patent of Addition to Application Number Filing Date	:NA :NA
(62) Divisional to Application Number Filing Date	:NA :NA

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(72)Name of Inventor :

**1)XU, Yujiang**

**2)LI, Ling**

**3)ZHOU, Honglong**

**4)DONG, Siwei**

(57) Abstract :

Disclosed is an exhaust gas aftertreatment system for a diesel engine, comprising: an agent tank (2) storing an exhaust gas treating agent; a metered injection module (4), the injection thereof being controlled by signals of a predetermined duty cycle according to a required injection amount; a supply module (3) connecting the agent tank (2) to the metered injection module (4) and supplying the exhaust gas treating agent to the metered injection module (4); an exhaust gas treating agent pipe (6) connecting the metered injection module (4) to the supply module (3); a pressure sensor for measuring systemic pressure inside the exhaust gas treating agent pipe (6); and a controller (7). The controller receives system pressure signals from the pressure sensor during the injection of the metered injection module (4) and detects abnormal injection from the metered injection module (4) at least based on a first amount, representing the actual injection amount determined by the system pressure signals, and a second amount, representing a theoretical injection amount determined by corresponding duty cycle signals. Further disclosed is a method of detecting an abnormal injection. The detection method is simple and reliable.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022901 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : COMBINED CD6 AND IMIPENEM THERAPY FOR TREATMENT OF INFECTIOUS DISEASES AND RELATED INFLAMMATORY PROCESSES

(51) International classification :A61K38/17A61K31/407A61P31/00  
(31) Priority Document No :16382540.9  
(32) Priority Date :18/11/2016  
(33) Name of priority country:EPO  
(86) International Application No :PCT/EP2017/079654  
Filing Date :17/11/2017  
(87) International Publication No :WO 2018/091679  
(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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3)INSTITUT D'INVESTIGACIONS BIOM`DIQUES AUGUST PI I SUNYER- IDIBAPS

(72)Name of Inventor :

1)LOZANO SOTO, Francisco

2)MARTINEZ FLORENSA, Mario

(57) Abstract :

The present invention relates to the field of medicine and provides compositions and kits-of-parts comprising a CD6 product and Imipenem, in particular for their use in a therapeutic and/or preventive method of treatment, in a mammal including a human, of an infectious disease, or of an inflammatory condition related to an infectious disease, or of an inflammatory disease related to the presence of a product derived from an infectious agent.



No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022902 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : METHOD FOR GRINDING MINERAL MATERIAL

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(51) International classification :C08F220/06C08F120/06C09C3/10  
(31) Priority Document No :1662582  
(32) Priority Date :16/12/2016  
(33) Name of priority country :France  
(86) International Application No :PCT/FR2017/053571  
Filing Date :14/12/2017  
(87) International Publication No :WO 2018/109400  
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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(71)Name of Applicant :

1)COATEX

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(72)Name of Inventor :

1)CHAMPAGNE, Cl@mentine

2)JACQUEMET, Christian

3)MAGNY, Beno@t

4)MONGOIN, Jacques

5)SUAU, Jean-Marc

---

(57) Abstract :

The present invention relates to a method for producing mineral particles grinding a mineral material in the presence of a specific anionic polymer. The polymer used is obtained by means of polymerisation in the presence of sodium hypophosphite, disodium dipropionate trithiocarbonate and at least one radical-generating compound. The invention also relates to an aqueous composition comprising particles of ground mineral material and such a polymer, in particular a paper coating slip composition.

No. of Pages : 21 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022903 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : WEAR ADJUSTMENT MEMBER FOR A CLUTCH MECHANISM, IN PARTICULAR FOR A MOTOR VEHICLE

(51) International classification	:F16D13/75	(71) <b>Name of Applicant :</b>
(31) Priority Document No	:1662705	<b>1)VALEO EMBRAYAGES</b>
(32) Priority Date	:19/12/2016	Address of Applicant :81 avenue ROGER DUMOULIN 80009 AMIENS cedex 2 France
(33) Name of priority country	:France	(72) <b>Name of Inventor :</b>
(86) International Application No	:PCT/EP2017/082705	<b>1)BRAILLY, Julien</b> <b>2)DELIENCOURT, Nicolas</b> <b>3)MARECHAL, Olivier</b>
Filing Date	:13/12/2017	
(87) International Publication No	:WO 2018/114542	
(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 wear adjustment member (16) for a clutch mechanism (1), in particular for a motor vehicle, characterised in that it comprises: a first annular element (17) of axis X, an axial end (19) thereof comprising at least one ramp (20) inclined relative to the radial plane and intended to cooperate with a counter-ramp (20a) of the clutch mechanism (1); and a second element (22) comprising a radially inner annular part (23) and a toothed part (24) connected to the inner annular part (23), the second element (21) being secured to the first element (17).



No. of Pages : 14 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022904 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ELECTRIC IMMERSION HEATER FOR DIESEL EXHAUST FLUID RESERVOIR

(51) International classification :F01N3/20H05B3/00F16L53/00  
(31) Priority Document No :15/381711  
(32) Priority Date :16/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/066318  
    Filing Date :14/12/2017  
(87) International Publication No :WO 2018/112150  
(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)GATES CORPORATION

Address of Applicant :1144 15th Street, Suite 1400 Denver,  
CO 80202 U.S.A.

(72)Name of Inventor :

1)SAUPE, Tim

2)HOLT, Brian

(57) Abstract :

An immersion heater including an encapsulated, semi-conductive, heating element. The heating element may be a non-metallic, carbon-based material in the form of a monofilament, a yarn or bundle of semi-conductive fibers which may be twisted, braided fibers or yarns, or the like. The encapsulation may be in the form of a tube of one or more layers of encapsulation material(s) with the heating element inserted therein. Alternately, the heating element may be thermoplastic with semi-conductive carbon additive, and the heating element may be coated with one or more external layers of insulating encapsulation material(s). The encapsulation material may be a rubber or thermoplastic material with sufficient chemical resistance to be immersed in a reservoir of fluid subject to freezing or thickening at low temperatures, such as DEF. The heater may be thermoformed into a predetermined fixed shape.



No. of Pages : 13 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022905 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : ENERGY REGULATING SYSTEM AND METHODS USING SAME

(51) International classification :H01M10/655F28D17/00F28D17/02  
(31) Priority Document No :62/430537  
(32) Priority Date :06/12/2016  
(33) Name of priority country:U.S.A.  
(86) International Application No :PCT/US2017/064887  
Filing Date :06/12/2017  
(87) International Publication No :WO 2018/106793  
(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)SMALC, Martin, D.

2)SOUTHARD, John, L.

3)WAYNE, Ryan, J.

(57) Abstract :

An energy regulating system and thermally regulated article for a habitable space or vehicle interior space are provided which include a thermally conductive member, such as one or more sheets of flexible graphite member, in thermal communication with a thermal energy source such as a heat source or cold source. The thermally conductive -member having an exterior surface adapted to be exposed to an occupant of the vehicle or building. A controller is in operable communication with a power source connected in the heat source or cold source for regulating the temperature perceived by the occupant by varying the power supplied to the heat source or cold source.



No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022906 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : DRUG DELIVERY SYSTEMS AND METHODS

(51) International classification :A61M5/168A61M5/14A61M25/14  
(31) Priority Document No :62/437168  
(32) Priority Date :21/12/2016  
(33) Name of priority country :U.S.A.  
(86) International Application No :PCT/US2017/067796  
Filing Date :21/12/2017  
(87) International Publication No :WO 2018/119179  
(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)ANAND, Pj
- 2)BROPHY, Morgan
- 3)SINGH, Deep, Arjun
- 4)EBERL, Gregory
- 5)ARZUMAND, Ayesha
- 6)MOURA, Stela

(57) Abstract :

Drug delivery systems and methods are disclosed herein. In some embodiments, a drug delivery system can be configured to deliver a drug to a patient in coordination with a physiological parameter of the patient (e.g., the patient's natural cerebrospinal fluid (CSF) pulsation or the patient's heart or respiration rate). In some embodiments, a drug delivery system can be configured to use a combination of infusion and aspiration to control delivery of a drug to a patient. Catheters, controllers, and other components for use in the above systems are also disclosed, as are various methods of using such systems.



No. of Pages : 47 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022907 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : STENT MADE OF A BIO-DEGRADABLE MAGNESIUM ALLOY WITH A MAGNESIUM FLUORIDE COATING AND AN ORGANIC COATING

(51) International classification :A61L31/02A61L31/08A61L31/14

(31) Priority Document No :16207023.9

(32) Priority Date :27/12/2016

(33) Name of priority country :EPO

(86) International Application No :PCT/EP2018/050084  
Filing Date :02/01/2018

(87) International Publication No :WO 2018/122418

(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)MEYER-KOBBE, Clemens  
2)STEKKER, Michael  
3)MENZE, Roman

(57) Abstract :

The present invention relates to stents which are produced from a magnesium alloy, which is degradable under physiological conditions, having an inorganic coating comprising magnesium fluoride and an organic coating. The stents according to the invention can additionally be coated with at least one anti-inflammatory, anti-proliferative, anti-angiogenic, anti-restenotic and/or anti-thrombogenic active substance.



No. of Pages : 117 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022926 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : METHOD FOR PARTITIONING A PREDETERMINED PLACEMENT OF PARTS INTENDED TO BE CUT IN A FLEXIBLE SHEET MATERIAL

(51) International classification	:G06Q10/04A41H3/00	(71) <b>Name of Applicant :</b> <b>1)LECTRA</b> Address of Applicant :16/18 rue Chalgrin 75016 PARIS
(31) Priority Document No	:1662692	
(32) Priority Date	:16/12/2016	France
(33) Name of priority country	:France	
(86) International Application No	:PCT/FR2017/053282	(72) <b>Name of Inventor :</b>
Filing Date	:29/11/2017	<b>1)VALEZE, Bruno</b>
(87) International Publication No	:WO 2018/109301	<b>2)BOURGET, Yohan Michael Christophe</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

The invention concerns a method for partitioning a predetermined placement (P) of parts to be cut in a flexible sheet material by moving at least one cutting tool in two directions (X, Y), in at least two distinct and determined cutting windows, along which the material is successively advanced, wherein, starting from a predetermined placement of the parts in the material, the method comprises the automatic creation of groups of parts (G-1 to G-m) that are distinct from one another, by assigning each part to a single group of parts according to its geometric placement, each group of parts being associated, for the cutting, with a same cutting tool (O-1 to O-k) and a same cutting window (F-1 to F-l), and the application of gaps between the various groups of parts.



No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :10/06/2019

(21) Application No.201917022941 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : APPARATUS FOR AN ARTIFICIAL REEF AND METHOD

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(51) International classification :E02B3/04B28B1/00E02B3/06  
(31) Priority Document No :1620752.4  
(32) Priority Date :06/12/2016  
(33) Name of priority country :U.K.  
(86) International Application No :PCT/GB2017/053678  
    Filing Date :06/12/2017  
(87) International Publication No :WO 2018/104734  
(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)BIRBECK, Thomas

2)DODDRELL, James

---

(57) Abstract :

There is described a module for an underwater structure. The module comprises a plurality of walls defining a cavity configured such that at least two walls of said plurality of walls confront one another to provide respective stack support surfaces for supporting a said module, said walls are substantially parallel to form complementary stack surfaces, such that one stack surface may rest on a surface and the other complementary stack surface provides a rest surface for another module. Two or more walls of said plurality of walls each comprise an aperture providing a conduit through each two or more walls to said cavity, respective apertures of said two or more walls and said cavity configured to provide a water flow path into, through and from said cavity. The water flow path may be considered unconstrained or at least substantially unconstrained in that water may flow through the apertures and cavity without deviation or interruption other than by the module or cavity walls. In stacked formation an aperture may be occluded or partially occluded but still the module when on its own may provide water pathways which may be considered unconstrained or substantially unconstrained.



No. of Pages : 23 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023173 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : PUMP, IN PARTICULAR A HIGH-PRESSURE PUMP OF A FUEL INJECTION SYSTEM

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(51) International classification	:F02M59/10F04B1/04
(31) Priority Document No	:10 2016 224 835.9
(32) Priority Date	:13/12/2016
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2017/075585
Filing Date	:09/10/2017
(87) International Publication No	:WO 2018/108350
(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 :

**1)TRAUBE, Ilja**

(57) Abstract :

A pump (1), in particular a high-pressure pump of a fuel injection system, having a cylinder head assembly (3) and a tappet assembly (9). The tappet assembly (9) has a pump piston (13) which, in interaction with a drive device, is moved translationally up and down by the tappet assembly (9) in the direction of a longitudinal axis (8) of the tappet assembly (9). The tappet assembly (9) also has a tappet body (21), the tappet body (21) being in contact with the drive device, in particular with a cam (11) of a camshaft (5). The tappet body (21) has a guide groove (18) which is in contact with a guide pin (4), preventing rotation of the tappet body (21) about the longitudinal axis (8). According to the invention, the guide pin (4) is supported in the guide groove (18) of the tappet body (21) by means of a dihedron (17).



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023174 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : REACTOR FOR REACTIVATING SOLIDS

(51) International classification	:B01J8/10B01J19/20B01J8/38
(31) Priority Document No	:1662483
(32) Priority Date	:15/12/2016
(33) Name of priority country	:France
(86) International Application No	:PCT/EP2017/082785
Filing Date	:14/12/2017
(87) International Publication No	:WO 2018/109072
(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)LAB SA

Address of Applicant :259 Avenue Jean Jaur's 69007 LYON  
France

(72)Name of Inventor :

1)TABARIES, Frank

2)SIRET, Bernard

(57) Abstract :

This reactor (1) comprises an elongate trough (10), which defines a reactivation chamber (C) extending in a longitudinal direction (D) from a first end of the trough to a second end (10B) of the trough. The reactor also comprises two shafts (20), which are arranged in the reactivation chamber and which extend therein parallel to one another in the longitudinal direction, each of the two shafts successively comprising a first part (20C), provided with a coil (21) for conveying solids, a second part (20D), provided with blades (23) for mixing solids, the length of the first part (20C) representing between 10% and 33% of the sum of the respective lengths of the first and second parts. The reactor also comprises a duct (40) for distributing a gaseous reactivation fluid, which is arranged in the reactivation chamber at bottom of the trough, which extends in the longitudinal direction (D) while running below at least the second part of the two shafts, and which is provided with one or several intake orifices (42) for entering the gaseous reactivation fluid into the reactivation chamber. This reactor is simple, cost-effective and high-performing, in particular to reactivate solids resulting from the treatment of fumes.



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

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023175 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : PROCESS AND DEVICE FOR MEASURING WEAR OF A REFRactory LINING OF A RECEPTACLE INTENDED TO CONTAIN MOLTEN METAL

(51) International classification	:F27D19/00F27D21/00	(71) <b>Name of Applicant :</b> <b>1)ARCELORMITTAL</b> Address of Applicant :24-26, Boulevard d'Avranches L-1160 Luxembourg Luxembourg
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:PCT/IB2016/001749	(72) <b>Name of Inventor :</b>
Filing Date	:12/12/2016	<b>1)PICCO, Marco</b>
(87) International Publication No	:WO 2018/109510	<b>2)GLIJER, David</b>
(61) Patent of Addition to Application Number	:NA	<b>3)GUALTIERI, Daniel</b>
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

Process for measuring wear of a refractory lining (1) of a receptacle (2) intended to contain molten metal, comprising the following steps: - scanning a first surface (4A) of the refractory lining using a first laser scanner (21A) in order to obtain a first initial set of data representative of the first surface, - scanning a second surface (4B) of the refractory lining using a second laser scanner (21B), distinct from the first laser scanner, in order to obtain a second initial set of data representative of the second surface, wherein the second surface includes a grey zone (6B) for the first laser scanner, the receptacle defining an obstacle (3) located between the first laser scanner and the grey zone during scanning by the first laser scanner, and - calculating a final set of data using the first initial set of data and the second initial set of data, the final set of data being representative of a surface (4) of the refractory lining including the first surface and the second surface.



No. of Pages : 14 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :11/06/2019

(21) Application No.201917023177 A

(43) Publication Date : 02/08/2019

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(54) Title of the invention : IDENTIFYING AND MANAGING EQUIPMENT WITHIN AN OPERATIONAL ENVIRONMENT

(51) International classification	:G06Q10/00
(31) Priority Document No	:62/428853
(32) Priority Date	:01/12/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/063988
Filing Date	:30/11/2017
(87) International Publication No	:WO 2018/102569
(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)PACKSIZE LLC**

Address of Applicant :3760 W. Smart Pack Way Salt Lake City, Utah 84104 U.S.A.

(72)Name of Inventor :

**1)HARNESK, Andreas**

(57) Abstract :

Embodiments are directed to apparatuses and methods for managing and producing equipment within an operational environment. In one scenario, a method is performed that includes generating an organizational database structure that maintains information associated with equipment that is part of an operational environment. The organizational database structure includes information indicating which packable items are associated with the piece of equipment. The method further includes accessing the generated organizational database structure to identify physical operational environment factors that affect which pieces of equipment are to be currently produced within the operational environment. The method then evaluates the identified physical operational environment factors to determine whether the specified piece of equipment is to be currently produced within the operational environment and, upon determining that the specified piece of equipment is to be currently processed within the operational environment, the specified piece of equipment is produced and provided to the operational environment.



No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :12/06/2019

(21) Application No.201917023276 A

(43) Publication Date : 02/08/2019

(54) Title of the invention : IMAGE PROCESSING DEVICE, IMAGE PROCESSING METHOD, AND PROGRAM

(51) International classification :H04N19/126G06T3/00H04N1/40  
(31) Priority Document No :2016-245983  
(32) Priority Date :19/12/2016  
(33) Name of priority country :Japan  
(86) International Application No :PCT/JP2017/037600  
Filing Date :17/10/2017  
(87) International Publication No :WO 2018/116605  
(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)FUCHIE, Takaaki

2)HIROSE, Masaki

3)YADA, Atsuo

(57) Abstract :

[Problem] To prevent inappropriate processing parameters from being used when handling an image that can be expressed by a variety of expression methods. [Solution] Provided is an image processing device comprising: a control unit that determines processing parameters for image processing of an image, on the basis of at least either a color gamut applied to the image or a transfer function relating to conversion between light applied to the image and an image signal; and a processing unit that executes the image processing using the processing parameters determined by the control unit.



No. of Pages : 76 No. of Claims : 19

***CONTINUED TO PART- 2***