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(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211021462 A
(19) INDIA
(22) Date of filing of Application :11/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION, NANOGELS AND CREAMS COMPRISING PLANT EXTRACTS AND METHODS OF PREPARING THEREOF

(51) International classification	:A61K0008970000, A61K0031498500, A61K0009510000, A01N0065080000, A61K0036730000	(71)**Name of Applicant :** **1)GURUKULA KANGRI VISHWAVIDYALAYA** Address of Applicant :Singhdwar Haridwar Uttarakhand India 249404 Uttarakhand India (72)**Name of Inventor :** **1)Prof. Satyendra Kumar Rajput** **2)Rohit Bhardwaj** **3)Rahul Singh**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention relates to synergistic composition comprising of plant extracts obtained from plants selected from but not limited to Elaeocarpus angustifolius and Pinus roxburghii. The composition of the present invention has application in the treatment of chronic wounds. The present invention also relates to methods for preparing the said synergistic composition and other products such as nanogels or topical creams comprising the plant extracts obtained from Elaeocarpus angustifolius and Pinus roxburghii with an improved efficacy for the treatment of chronic wounds.

No. of Pages : 24 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058203 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A TWO-WHEELED VEHICLE

(51) International classification	:B60Q0001560000, B60R0013100000, B62K0025280000, F24F0110640000, F04D0029620000	(71)**Name of Applicant :** **1)HERO MOTOCORP LIMITED** Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi, India, 110 070 New Delhi Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)NIGAM, Prabhat**
(33) Name of priority country	:NA	**2)SHARMA, Rohit**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT A rear structure (110) of a two-wheeled vehicle (100) is described. The rear structure includes a rear frame, a left side cover (105a) and a right-side cover (105a) mounted to the rear frame. A housing is secured to portion to the two-wheeled vehicle towards the rear end. The housing is defined with a recess (115) being configured to accommodate a light source (113) for emitting a light onto a license plate (107) positioned under the housing (109a). Further, a cover (106) is removably secured to the housing covering the recess. This configuration the housing ensures that the service time for changing the license lamp/light source is reduced. The serviceability of the light is easier as compared to conventional setup as the requirement for removing the entire housing. To be published with FIG. 3

No. of Pages : 25 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058227 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AN INTEGRATED CONTROL AND RESCUE SYSTEM FOR MASS HUMAN MOVEMENT

(51) International classification	:G08B0021020000, G08B0025010000, G08B0021040000, G08B0025000000, H04M0011040000	(71)**Name of Applicant :** **1)AMITY UNIVERSITY** Address of Applicant :AMITY UNIVERSITY CAMPUS, SECTOR-125, NOIDA, UTTAR PRADESH, INDIA, 201313 Uttar Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Vandana Sharma**
(33) Name of priority country	:NA	**2)Ajay Vikram Singh**
(86) International Application No	:NA	**3)Prashant Gupta**
Filing Date	:NA	**4)Rutvij H. Jhaveri**
(87) International Publication No	: NA	**5)Balamurugan Balusamy**
(61) Patent of Addition to Application Number	:NA	**6)Priti Rai**
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention describes a method and system for integrated control and rescue system for mass human movement. It helps in rescue visitors through an integrated system. In case of a medical emergency or an accident, a trapped visitor or his associate may use the panic button to send his live and exact location to trigger quick response. The system for live monitoring of all the visitor, monitoring the health statistics and sending the timely updates of all the visitors to the Data Analytic Server, Locating and identifying any lost child or elder needing assistance during the visit, Monitoring of any suspicious activity on site. It providse the visitors an essential control for seeking emergency response in adverse situations and in absence of any communication gadgets and reducing the number of casualties and providing quick emergency response through NDRF. Accompanied Drawings [FIGS.1-3]

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058228 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A SOLAR AIR DRYER ASSEMBLY

(51) International classification	:F24S0023700000, C12M0001000000, F26B0021020000, F26B0021100000, F26B0021000000	(71)**Name of Applicant :** **1)AMITY UNIVERSITY** Address of Applicant :E-27, DEFENCE COLONY, NEW DELHI – 110024, INDIA New Delhi Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Preeti Thakur**
(33) Name of priority country	:NA	**2)Atul Thakur**
(86) International Application No	:NA	**3)Abhilash Pathania**
Filing Date	:NA	
(87) 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 describes a solar air dryer assembly and working method thereof. There are two components one is primary dryer and other is secondary dryer. The primary dryer is connected with the solar dish. This dish is having sun tracking system. The primary dryer will receive the radiations reflected by the solar dish. To keep the fabric dry, this dryer has mesh type trays inside. So that air can circulate through it. This dryer is having a temperature sensor. A fan with air circulation can be used to regulate the temperature of this container. The secondary dryer will be kept in the shed. It will not receive sun light directly. The hot air from the primary dryer will be used to hot the chamber. This chamber is also having a temperature sensor. The temperature of the chamber will be controlled through the air circulation.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058033 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR AUTO-CORRECTION OF AN ONGOING SPEECH COMMAND

(51) International classification	:G10L0015220000, G10L0015260000, G06F0003160000, G06F0040205000, G06N0003000000
(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)Samsung Electronics Co., Ltd.
Address of Applicant :129, Samsung-Ro, Yeongtong –Gu, Suwon-Si, Gyeonggi-Do, 16677, Republic of Korea Republic of Korea
(72)**Name of Inventor :**
1)PRASHANT INBAVALUTHI
2)VIKAS KAPUR
3)RAMAKANT SINGH

(57) Abstract :
The system includes a voice assistant to receive a voice command as input from user. The speech to text convertor (402) converts the voice command into text. A feature extractor (404) extracts acoustic features from raw waveform of voice command and textual features from converted text for determining nearby context tokens. Further, a multi modal unified attention sequence tagger (406) determines a connection between the audio and the text based on an individual contextual embedding and a fused contextual embedding at context tokens level. It further tags replacement, cue and correction words sequentially based on determined connection between the audio and the text. Further, an on-the-fly decoder (408) decodes revised text on-the-fly based on tagged replacement, cue and correction words, to display the decoded revised text on user interface and sends the decoded revised text to NLP to generate a response corresponding to the input speech. Refer Fig. 4

No. of Pages : 62 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058093 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SOUND ABSORBING MATERIALS FROM NADES PRETREATED CELLULOSIC MICROFIBRILS

(51) International classification	:E01F0008000000, C04B0111520000, C12P0019020000, E04B0001860000, B60R0013080000	(71)**Name of Applicant :** **1)INDIAN INSTITUTE OF TECHNOLOGY DELHI** Address of Applicant :Hauz Khas, New Delhi-110016, India Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Shahab Fatima**
(33) Name of priority country	:NA	**2)Adepu Kiran Kumar**
(86) International Application No	:NA	**3)Ashutosh Negi**
Filing Date	:NA	**4)Mohammad Ali Haider**
(87) International Publication No	: NA	**5)Ejaz Ahmad**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention relates to the development of sound-absorbing materials from lignocellulosic biomass using natural deep eutectic solvents for application in sound absorption. The present invention ensures porous structure within the material for achieving high sound absorption coefficients. The present invention uses cellulosic microfibrils obtained through natural deep eutectic solvent (NADES) pretreatment of lignocellulosic biomass for the fabrication of sound-absorbing materials with efficacy and costs comparable to commercial alternatives.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058096 A
(19) INDIA
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PROCESS MAKINGPOROUS NANOSTRUCTURED SILICA WITH OPTION OF TUNING CARBON, NITROGEN, PALLADIUM, COBALT/NICKEL IN DESIRED RATIO FOR POTENTIAL CATALYTIC APPLICATIONS WITH EXAMPLE IN WATER SPLITTING

(51) International classification	:B01J0035000000, C25B0001040000, B01J0035100000, G01N0033574000, B82Y0040000000	(71)**Name of Applicant :** **1)Prem Chandra Pandey** Address of Applicant :Department of Chemistry, Indian Institute of Technology (BHU), Varanasi Uttar Pradesh India (72)**Name of Inventor :** **1)Prem Chandra Pandey**
(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 :
Co-NTA nanowires were used as a precursor in the synthesis of Co@NC, CoPd@NC-1 and CoPd@NC-2, which were mediated by 3-aminopropyltrimethoxysilane (3-APTMS). To regulate the existence of nanostructured silica after calcination at 700oC beneficial in OER, mesoporous CoPd@NC was created using a variable amount of nanostructured silica in an N-doped carbon matrix. CoPd@NC-1 with high silica content and CoPd@NC-2 with relatively less silica content were investigated by XRD, TEM, SEM, and EDX. Nanostructured silica enabled the formation of stabilized bimetallic nanogeometry of cobalt and palladium components followed by improvement on OER as compared to that made without nanostructured silica. With a small Tafel slope of 28 b/mV(CoPd@NC-1), 44 b/mV(CoPd@NC-2) and a catalyst loading of 3.5 mg/cm-2 on the carbon cloth, a nanostructured silica-derived thin film formed of CoPd@NC-1 generated a very high current density at a low overpotential(0.76V vs RHE at 10 mAcm-2).In the absence of silica, the nanocatalysts are bigger and exhibit a lower current density than what was observed with a high silica concentration

No. of Pages : 28 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202211058128 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTI-THEFT LIDAR ASSEMBLY

(51) International classification	:G01S0017931000, G01S0007481000, B25B0021000000, G01S0017890000, B25B0023000000	(71)**Name of Applicant :** **1)Mercedes-Benz Group AG** Address of Applicant :Mercedesstraße 120, Stuttgart, 70372, Germany. Stuttgart Germany (72)**Name of Inventor :** **1)Amit Pratap** **2)Sanjeev Rangarej**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
An antitheft LiDAR assembly 100 includes a LiDAR sensor 102 detachably coupled to a vehicle through an interconnection of a primary bracket 104 and a secondary bracket 106. A threaded fastener 300 is configured to fix the LiDAR sensor 102 in a locked position to the secondary bracket 106. The threaded fastener 300 comprises a head 302 having one or more unique features for engaging a corresponding tool for loosening or tightening of the threaded fastener 300. The one or more unique features include a plurality, preferably an odd number, of petal shaped cavities 304 extending generally radially from center of head 302 of the screw 300, and a circular hole 306. The threaded fastener 300 with the one or more unique features allows only a tool having corresponding features to engage with the threaded fastener 300 for removal of the LiDAR sensor 102.

No. of Pages : 13 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202211058648 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TO DEVELOP INSULATING BRICK BY WASTE AGRO MATERIALS

(51) International classification	:G06Q0099000000, G99Z0099000000, B42D0015000000, B62M0001240000, G06Q0090000000
(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)Vinod Kumar Kushwah
Address of Applicant :Department of Physics, Hindustan College of Science and Technology, Agra Delhi highway, Farah Uttar Pradesh India
2)Vipin Kumar
3)Rohit Maurya
(72)**Name of Inventor :**
1)Vinod Kumar Kushwah
2)Vipin Kumar
3)Rohit Maurya

(57) Abstract :
As we all know that it is the human duty of all of us to keep happy, protected environment and safe, but we are all playing with nature in the race to move forward on the path of development. It has mainly played an advance role in promoting pollution. Plastic and Polystyrene, Fly ash etc. Although it proves to be helpful in moving goods safely from one place to another, but due to their recycle age of 1000 years, it is very dangerous for nature and it is the priority of all scientists to solve it through research. Considering this fact, we have created brick through our laboratory research. This brick is just beginning for preventing a lot of human pollution. As mentioned above, the ingredients have been included to reduce pollution. In which it is effective in keeping the house cool in summer and warm in winter under maintaining the temperature with time and construction with this brick is a new initiative in saving fertile land from being destroyed. It has proved to be better in comparative study than the conventional bricks and the estimated cost of making it from waste ingredients has come down considerably. Through this patent, the Government of India is requested to accept and approved as soon as possible in commercial level and please establish a new dimension in nation building.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058732 A
(19) INDIA
(22) Date of filing of Application :14/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : AN IMPROVED SYSTEM AND METHOD OF SUPPLYING POWER TO INTELLIGENT GARMENTS AND FABRICS

(51) International classification	:H01J0037320000, H02J0005000000, G09G0003360000, G06Q0010000000, A41D0013005000	(71)**Name of Applicant :** **1)EDNAM SOLUTIONS PRIVATE LIMITED** Address of Applicant :STIRRING MINDS, 2-A/3, KUNDAN MANSION, ASAF ALI ROAD, NEW DELHI DELHI-110092, INDIA. Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)TEJAS SRIVASTAVA**
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present invention relates to an improved system and method of supplying power to intelligent garments and fabrics. The system comprises an adjustable external power supply (100), control and Interface unit (200), resistive heater networks (300A & 300B) and a user interface.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058737 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A CONDENSATION PREVENTION SYSTEM FOR A LAMP

(51) International classification	:F25D0021040000, B81B0007020000, G01N0001220000, B60Q0001040000, F24F0011650000
(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 :Village Nawada Fatehpur, P.O. Sikanderpur Badda, Gurgaon, Haryana – 122004, India Haryana India

(72)**Name of Inventor :**
1)C.S. Singh
2)Ashish Anand
3)Manish Tewari

(57) Abstract :
Present disclosure relates to a condensation prevention device (10) and a lamp (L) defined with the condensation prevention device (10). The lamp (L) comprises a housing (H), a light source (1), a printed circuit board (2), a heat sink (3), and the condensation prevention device (10). The light source (1) is positioned within the housing (H). The printed circuit board (2) is coupled to the light source (1). The heat sink (3) is coupled to the printed circuit board (2). The condensation prevention device (10) is disposed in the heat sink (3). The condensation prevention device (10) comprises a casing (4) and one or more absorbers. The casing (4) is positioned in the heat sink (3). The one or more absorbers are filled within the casing (4). The one or more absorbers are configured to absorb and expel moisture generated in the housing (H). Accordingly, the lamp (L) of the present disclosure prevents condensation in different systems including the lamp (L) and maintains performance level of the lamp (L).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058738 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A HEAT SINK FOR A LAMP

(51) International classification	:B32B0007120000, G02F0001133300, B60Q0001000000, B60Q0001040000, F21S0043140000
(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)UNO Minda Limited
Address of Applicant :Village Nawada Fatehpur, P.O. Sikanderpur Badda, Distt. Gurgaon, Haryana – 122004, India Haryana India
(72)**Name of Inventor :**
1)C.S. Singh
2)Ashish Anand
3)Manish Tewari

(57) Abstract :
Present disclosure relates to a heat sink (100). The heat sink (100) comprises a body (B). The body (B) may be defined with a first portion (110) and a second portion (120). Further, the first portion (110) may be made of a first material. Furthermore, the second portion (120) extends from the first portion (110). The second portion (120) may be made of a second material. Accordingly, the heat sink (100) of the present disclosure is light in weight and capable of dissipating heat from one or more components of the lamp (L) to the outside environment, thereby assists in effective performance of the lamp.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058284 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR CONTROL OF A PUMP MOTOR

(51) International classification :B60T0008480000, B60T0008172000, B60T0013660000, G06Q0020200000, A61K0009000000
(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 :200 State Street, Beloit, Wisconsin 53511, USA U.S.A.
(72)**Name of Inventor :**
1)NAIK, Neelam
2)YENNAM, Sagar
3)BHOSALE, Rushikesh

(57) Abstract :
A control system for controlling an electric motor in a pump system. The control system includes a communications interface configured to be electrically coupled with a remote control system and receive a command therefrom. The control system further includes a processing unit coupled to the communication interface and configured to receive the command from the communications interface, process the command to determine which communication protocol among a plurality of communication protocols to employ, and control the communications interface to transmit a response to the command using at least a portion of the communication protocol.

No. of Pages : 29 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058315 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR HANDLING EVENTS OF A REAL ENVIRONMENT IN A VIRTUAL REALITY ENVIRONMENT

(51) International classification	:G06F0003010000, G06T0019000000, G02B0027010000, G06F0003048150, A63F0013803000
(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)Samsung Electronics Co., Ltd.
Address of Applicant :129 Samsung-ro, Yeongtong-gu, Suwon-si, Gyeonggi-do 16677, Republic of Korea Republic of Korea
(72)**Name of Inventor :**
1)Ravi Sharma

(57) Abstract :
ABSTRACT The present invention relates to a method for handling one or more events of a 5 real environment in a virtual reality environment. The method (100) includes identifying one or more objects, one or more users, and one or more events occurring in the real environment around a primary user wearing a virtual Reality (VR) module and determining a first set of parameters and a second set of parameters. The method (100) further includes analyzing the virtual reality 10 environment to determine a suitable part in the virtual reality environment and creating an augmented reality (AR) of each of the one or more actors and integrating parameters and performing scaling of the created AR. The method (100) further includes aligning the AR in relation to the real environment, merging the aligned AR into the determined suitable part of the virtual reality 15 environment, and maintaining context of the virtual reality environment.

No. of Pages : 44 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058356 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION PROTOCOL IN A WIRELESS POWER SYSTEM

(51) International classification	:H02J0050120000, H02J0007020000, H02J0050100000, H04W0028120000, H02J0050800000
(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 :1 River Road Schenectady, NY 12345 U.S.A.
(72)**Name of Inventor :**
1)Jayanti Ganesh
2)Viswanathan Kanakasabai
3)Subbarao Tatikonda
4)Suma Memana Narayana Bhat

(57) Abstract :
This disclosure provides systems, methods and apparatuses for communication protocol enhancements in a wireless power system. Various implementations relate generally to messages for a communication protocol in a wireless power system. The communication protocol and related aspects address unexpected conditions of a Power Transmitter or a Power 10 Receiver in a wireless power system.

No. of Pages : 69 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058360 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR MEASURING INDOOR AIR QUALITY

(51) International classification	:G01N0033000000, F24F0011300000, H04W0048180000, G01N0021940000, F24F0110660000
(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)DAS, Mrinal Kranti

(57) Abstract :
The present subject matter refers to a method and system for measuring indoor air quality. The method includes receiving information related to a plurality of air pollutant sources that are present in an indoor environment. Thereafter, the method includes determining, based on the received information, a probability of presence of a plurality of air pollutants within the plurality of the air pollutant sources. Thereafter, the method includes assigning priority scores for corresponding air pollutants among the determined plurality of the air pollutants based on the probability. Thereafter, the method includes controlling, based on the priority scores, an IR transmitter 310 to emit a set of wavelengths in a specific range towards the determined plurality of the air pollutants based on the priority score. Thereafter, the method includes detecting one or more air pollutants amongst the determined plurality of the air pollutants based on a detection of a set of the deflected wavelengths in response to the emitted set of wavelengths. Thereafter, the method includes suggesting a corrective measure to a user based on the detected one or more air pollutants.

No. of Pages : 36 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059070 A
(19) INDIA
(22) Date of filing of Application :15/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : FORMULATION FOR DELIVERY OF A HYDROPHILIC DRUG AND METHOD OF PREPARATION THEREOF

(51) International classification	:A61K0009000000, A61P0035000000, A61K0047140000, A61K0009160000, A61P0009100000
(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)Jindal Anil Brijbhushan
2)Prayag Kedar Shridhar

(57) Abstract :
The present invention relates to a formulation for delivery of a hydrophilic drug comprising a drug-agent complex obtained by reacting the hydrophilic drug with an ionic pairing agent having a charge opposite to that of the drug, said hydrophobic drug-agent complex being suspended in an oil thickened with a thixotropic agent being aluminum monostearate, wherein particle size of the formulation is from 500-5 2000 nm. The present formulation is low cost and shows protracted drug release with high drug loading capacity when the drug-agent complex is directly added in the thixotropic oily base. Also disclosed is a method of preparing the present formulation (Figure 1).

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059086 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SAFE DEGASSING FROM HV BATTERY

(51) International classification	:H01M0050200000, H01M0050300000, H01M0050342000, H02J0050000000, B29C0048400000
(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)Nikhil Salimath
2)Santosh Koli
3)Anand Gujamagadi
4)Suraj Mathew

(57) Abstract :
A battery pack 100 for a vehicle comprises a plurality of cell modules 106 each accommodated in a housing. The housing includes an upper housing 102 and lower housing 104. The lower housing 104 has a planar surface forming a base 202 for the cell module 106 and includes a plurality of vent holes 206 configured in an array and covered with a layer 204 of a polymer material such that when the temperature of the gas from the cell modules 106 exceeds a predefined temperature, the layer 204 of polymeric material melts and allow fast venting of hot gases through the plurality of vent holes 206.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059088 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A WHEEL ASSEMBLY FOR VARIABLE ROAD CONTACT AND SYSTEM THEREOF

(51) International classification	:E02F0009200000, B60B0011020000, F15B0021080000, F16H0061662000, A01B0063220000
(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 :Mercedesstraße 120, Stuttgart, 70372, Germany. Stuttgart Germany
(72)**Name of Inventor :**
1)Pradeep Nagaraj

(57) Abstract :
A wheel assembly 100 for a vehicle includes a first wheel 102 having a first tyre 104 mounted on a fixed diameter rim 106 and a second wheel 108 having a second tyre 112 mounted on the adjustable diameter rim 110. The first wheel 102 and the second wheel 108 are coupled co-axially to a hub 116. The adjustable diameter rim 110 includes a plurality of rim segments 202 coupled to a hydraulic cylinder 210 through spokes 204 such that actuation of the hydraulic cylinder 210 results in change in diameter of the rim between a normal diameter and a reduced diameter. A control unit receives inputs on change in operational parameters from sensors to actuate the hydraulic cylinder 210 thereby reducing contact area of the wheel assembly 100 with road surface 118.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059140 A
(19) INDIA
(22) Date of filing of Application :17/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A SWITCH DEVICE AND A LEVER DEVICE INCLUDING SAID SWITCH DEVICE

(51) International classification	:H01H0011000000, E03C0001308000, H01H0003120000, B33Y0040000000, A61M0005145000	(71)**Name of Applicant :** **1)HERO MOTOCORP LIMITED** Address of Applicant :The Grand Plaza, Plot No.2, Nelson Mandela Road, Vasant Kunj- Phase -II, New Delhi 110 070, India Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)GUPTA, Yogesh Kumar**
(33) Name of priority country	:NA	**2)OJHA, Tarun**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure discloses a switch device (100). The device (100) includes a housing (1) defining a cavity (2). A plunger (3) is movably received in the cavity (2), and the plunger (3) includes an elongate section (4). The device further includes a base (6) coupled to a first end (7) of the housing (1). The base is configured to support pair of contact strips (8). The device further includes a first resilient member (9) configured to bias the plunger in a first direction (10) away from the base. Further, a carrier (11) is slidably mounted onto the elongate section of the plunger. The carrier is configured to contact the pair of contact strips in an actuated position (43) of the plunger. The device (100) further includes a second resilient member (12) configured to bias the plunger (3) in an opposite direction relative to the first direction (10). Figure 6 is representative figure.

No. of Pages : 35 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202211059171 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PORTABLE LAPPER WITH VARIABLE SPEED FOR MINIATURE ITEM

(51) International classification	:D01G0025000000, D04H0001740000, A21C0003020000, H04N0005783000, A63F0007060000	(71)**Name of Applicant :** **1)HINDUSTAN AERONAUTICS LIMITED** Address of Applicant :HINDUSTAN AERONAUTICS LIMITED, KORWA, AMETHI UTTAR PRADESH-227412, INDIA Uttar Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)MR. RAIS AHMAD**
(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 Portable [,apper '{ith variable speed of rotation is suitable for • lapping of miniature jobs of hard m·~terial. This lapper is. suitable when high level of accuracy is required. This lapper is having provision for fitment of abrasive accessories. The high accuracy results is less rejection in turn l~ads to low lead-time and lqwer cost tc; customers. The technici~ns may use the portable Lapper over their work place easily. Different lapping tools may be used with this machine and spe.e d of motor may be adjusted. using' the knob attached with the machine for proper lapping operations .

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202211058129 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIDE CRASH PROTECTION DEVICE FOR SIDE DOORS OF A VEHICLE

(51) International classification	:B60R0019000000, B60J0005040000, B62D0025020000, B60R0021000000, B60R0021210000
(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)Mercedes-Benz Group AG
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(72)**Name of Inventor :**
1)Mohammad Azheruddin
2)Sree Krishna Devadula Nagaraju
3)Kalappa Vishwakarma
4)Mohamed S Ismail

(57) Abstract :
A side crash protection device 200 for a side door 100 of a vehicle includes a longitudinal inflatable member 202 filled with a gaseous media and mounted within a channel shaped intrusion beam 204 fixed between an outer panel 304 and an inner panel 302 of the side door 100. The inflatable member 202 extends horizontally from a hinged side of the side door 100 to an opening side of the side door 100 to absorb crash impact and dissipate the crash impact/energy. The inflatable member 202 has a cross-section similar to a tyre of a wheel with an open side facing the inner panel 302. Alternatively, the inflatable member 202 can have has a cross-section similar to a suspension bellow.

No. of Pages : 11 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058151 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SUSPENDED LIGHTING SYSTEM FOR FACILITATING LIGHT DISTRIBUTION

(51) International classification	:F21Y0115100000, H05B0047115000, H05B0047160000, H05B0047175000, H05B0047190000	(71)**Name of Applicant :** **1)HAVELLS INDIA LIMITED** Address of Applicant :904, 9th Floor, Surya Kiran Building, KG Marg, Connaught Place, New Delhi 110001, India New Delhi Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Sumit Singh**
(33) Name of priority country	:NA	**2)Bibhas Ranjan**
(86) International Application No	:NA	**3)Lokendra Kumar**
Filing Date	:NA	
(87) 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 suspended lighting system for facilitating a light distribution between an upward and/or a downward direction, comprising: an elongated central lighting unit [102], a pair of reflector units [104,106]; and an adjusting mechanism [122]. The adjusting mechanism [122] includes a pair of adjusting units [108,110], each of which comprises: a pair of side caps [112,114] including a snap member [118], and fixedly attached to one of the ends of the pair of reflector units [104,106]; and a main end cap [116] including a central portion fixedly attached one of the ends of the elongated central lighting unit [102], and a pair of side extension portions pivotally attached to the pair of side caps [112,114], and defining a plurality of snap provisions [120] distributed in a circular manner. Engagement of the snap member [118] with the plurality of snap provisions [120], locks the pivotal movement of the reflector units.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058197 A
(19) INDIA
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : RECOVERY MECHANISM FOR TOWED SENSOR SYSTEM

(51) International classification	:B63B0022000000, B41J0002165000, G01S0005000000, G01S0019140000, B63B0022060000	
(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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4)MANGALARAJ SAMUEL THEOPHILUS
5)VINOD PARAMESWARAN PILLAI
6)LIJU VENNATTUTHONDALIL RAMAKRISHNAN

(57) Abstract :
A recovery mechanism apparatus (200) to recover and locate the exact position of an underwater towed sensor system detached from a ship, comprises of a vertical buoy (201), a rope (202), a polyurethane tube (203), an electronic packaging module (204) comprises of a pressure switch assembly (207) with a battery unit (208), and a resistance wire (205). The vertical buoy (201) is attached to the polyurethane tube (203) through the rope (202) wound inside the polyurethane tube (203) filled with Isopar-L oil (206). The electronic packaging module (204) is placed inside the polyurethane tube (203), and is attached with the vertical buoy (201) through the resistance wire (205). When the towed system descends to a preset depth after detachment from the ship, the pressure switch (207) starts conducting electricity from the battery unit (208) and passes current through the resistance wire (205). During this, the resistance wire (205) melts and releases the positively buoyant vertical buoy (201) to the sea water with the rope (202), and through which the sensor module (103) can be recovered. The GPS locator provided within the vertical buoy (201) gives the exact location for recovery operation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059466 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MANAGEMENT SYSTEM FOR IMAGE PROCESSING

(51) International classification	:G06N0003080000, A61B0005000000, G06N0003040000, G06T0005000000, H04N0017000000
(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)Purnendu Prabhat
2)Dr. Sunil Semwal
3)Dr. Tripuresh Joshi
4)Sandeep Sharma
5)Dr. Ajeet Kumar Vishwakarma

(57) Abstract :
The present invention relates to a management system for image processing, comprising multiple image capturing module associated with system for capturing multiple images of various entities present in surroundings, a preprocessing unit is connected with each module to perform resizing and preprocessing of multiple image, a data flow control unit associated with system receive data processed by each processing unit and distribute data to multiple feature extraction module paired with control unit to extract features from images and sends obtained feature matrix to control unit, and multiple neural network based computational units connected with control unit receive matrix obtained by feature extraction module to add a bias vector for evaluating a multinomial probability distribution for generating an interference that is stored in a server linked with the computational unit via communication module to allow a user to utilize the interference for required purpose.

No. of Pages : 16 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058764 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR ADJUSTING PRIVACY LEVEL AUTOMATICALLY BY A VOICE ASSISTANT

(51) International classification	:G10L0015220000, G06F0003160000, G06F0021620000, G10L0015260000, G06N0003000000
(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)Prabhat Kumar
2)Abhishek Saxena
3)Ajit Kumar Singh
4)Wriddha Roy

(57) Abstract :
The present invention relates to a method for adjusting privacy level automatically by a voice assistant. The method (100) includes identifying one or more devices present in an environment around the voice assistant based on a beacon signal transmitted by the devices. The method (100) further includes extracting at least one information from the beacon signal and classifying the identified devices into one of categories based on the extracted information and using information stored in databases. The method (100) further includes capturing one or more words of conversation from the environment for determining environmental information and thereafter determining privacy level of the voice assistant, adjusting the privacy level based on the determined privacy level and enabling the voice assistant to perform action in response to a voice command received from one or more users based on the privacy level adjusted.
FIG. 1

No. of Pages : 34 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058823 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IDENTIFICATION OF A DNA APTAMER FOR PROSTATE CANCER ONCOGENE

(51) International classification	:C12N0015115000, C07H0019100000, A61K0038000000, A61K0039000000, E21B0043267000
(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)MISHRA, Prashant
2)SHRIVASTAVA, Garima

(57) Abstract :
The present invention relates to DNA aptamers that are capable of binding specific oncogene and could be useful as therapeutics and diagnostics for prostate cancer. The DNA aptamers used in the present invention are developed by a modified protein-SELEX method. The culmination is a composition comprising the aptamer and a pharmaceutically acceptable carrier or excipient, offering promise for innovative prostate cancer management.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058847 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A SYSTEM AND METHOD FOR ANALYZING SATELLITE DATA

(51) International classification	:H04B0007185000, A61P0043000000, G06T0005500000, G01S0019510000, B64G0003000000
(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)SURI, Manan

(57) Abstract :
The present invention relates to a system and method for analyzing satellite data. The system and method of the present invention provides collection and processing of raw data received from aerial or satellite sensors (102) i.e., for pre-processing and beaming to ground stations. The system of the present invention provides automatically processed satellite data to derive insights from it. The present invention provides an innovative methodology for raw data pre-processing and ingestion technique coupled with efficient hardware mapping and acceleration. The proposed methodology yields multiple type of advanced analytical outputs for spatio-temporal trend analysis from various forms of satellite data. Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202211058873 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POLYMERIC SCHIFF BASE WITH KETONIC RESINS

(51) International classification	:B01D0019000000, B32B0027080000, C09D0005080000, C11D0003430000, C23F0011040000
(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)SCHUETTE, Waynie Mark
2)ZWEIG, Andrew M.
3)DHIRDE, Priyanka G.

(57) Abstract :
The present invention relates to a polymeric Schiff base with ketonic resins for corrosion inhibition of metal surfaces and method for preparation thereof. The polymers of present invention are provided with spaced-out functional groups allowing efficient utilization of functional groups, which improve surface coverage and thus provide significant advantages in terms of economy as well as corrosion inhibition. Polymers of present invention provide faster viscosity build as solvent evaporates during application of the polymer to a metal substrate, which reduces sag or drip of the polymer layer disposed on the metal substrate.

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058924 A
(19) INDIA
(22) Date of filing of Application :14/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A VEHICLE WITH A TERMINAL UNIT

(51) International classification	:B62K0019460000, H02J0007350000, B62J0009200000, B60N0002010000, H01F0027290000
(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)KUMAR, Avinash
2)ARYA, Mohit Madhur

(57) Abstract :
Present disclosure relates to a vehicle. The vehicle includes a body frame and a seat supported by the body frame. Further, the vehicle includes a terminal unit which is disposed on the body frame and enclosed by at least a portion of the seat. The configuration of providing the terminal unit which is enclosed by the portion of the seat facilitates a pillion rider to access the terminal unit. Further the configuration provides easy and convenient way of accessing the terminal unit by the pillion rider even during seating and commuting on the vehicle. Figure 1 is a representative figure.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058364 A
(19) INDIA
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS FOR DETERMINING THE PERFORMANCE OF FIREFIGHTER CLOTHING UNDER WIND-DRIVEN CONDITIONS

(51) International classification	:F01N0013000000, F28D0007160000, B23K0026700000, B09B0003000000, B29D0011000000
(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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1)TALUKDAR, Prabal
2)RAJPUT, Bhavna
3)KUMAR, Tarun
4)RAY, Bahni
5)DAS, Apurba

(57) Abstract :
The present disclosure relates to an apparatus for measuring thermal protective performance of fire-fighting gears placed therein. The apparatus includes a heating section having a blower assembly, a radiant heater, and a plurality of burners fluidically coupled with a gas source. An experimental section configured to place the fire-fighting gears therein. The experimental section, having a plurality of first sensing devices, comprises a chamber fluidically coupled with a moisture outlet pipe for providing a moist air in the chamber. An exhaust section, having a plurality of second sensing devices, configured to exhaust fumes out of the apparatus through an exhaust outlet. The fumes are guided from the experimental section towards the exhaust section through a U-shaped bend.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058398 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A UNIVERSAL CONTROLLER HARDWARE ARCHITECTURE

(51) International classification	:G05B0023020000, B60L0003000000, G06F0003060000, H04N0007180000, B60L0007000000
(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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3)MOIZ HATIM CHASMAI
4)ARTHI DHARMANI
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6)RAKESH MEENA
7)ARUN KUMAR BARDE
8)GAGAN DEEP PUROHIT
9)PRASHANT KUMAR
10)SANDEEP

(57) Abstract :
The present disclosure envisages a universal controller hardware architecture (100). The hardware architecture comprises an enclosure (5), at least one printed circuit board (PCB), and an at least one interface card. The enclosure (5) is defined by a cover (5a) and a receptacle (5b), the cover (5a) includes at least one sensor-actuator connector (5c) configured to electrically couple with one of a sensor or an actuator. The PCB (10) is configured to be installed within the receptacle (5b). The interface card is communicatively coupled to at least one PCB (10). The interface card comprises at least one EtherCAT input connector (20a) configured to expose out of the enclosure (5), and at least one EtherCAT output connector (20b) configured to expose out of the enclosure (5).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058399 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A TRUCK-MOUNTED HEAVY ARTILLERY SYSTEM

(51) International classification	:E04G0021040000, B61H0013240000, B28C0005420000, G05B0019418000, B61H0013020000
(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)Sanjay Chaudhuri
2)Bhausaheb Landge
3)Pankaj Kumar Verma
4)Shailesh Bhiku Gavalkar
5)Sai Munesh Muddaboina

(57) Abstract :
The present disclosure relates to artillery systems and envisages a truck-mounted heavy artillery system. The system comprises a truck (1), a heavy artillery (11), a pair of legs (5), an ammunition handling unit (9) and a console unit (4). The truck (1) includes an armoured blast-proof cabin (10) mounted on its chassis. The artillery (11) is mounted on the chassis with a pair of stabilizer legs mounted at the rear of chassis and configured to be anchored to the ground in the deployed position of the artillery (11). The ammunition handling unit (9) facilitates loading of ammunition in the artillery (11). The console unit (4) is provided on the chassis. The console unit (4) is configured to receive inputs corresponding to the actuation of the system, while a set of actuating units actuates the artillery (11) and the ammunition handling unit (9) based on the inputs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202211058409 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD AND SYSTEM FOR USER PROFILING IN AN ELECTRONIC DEVICE

(51) International classification	:G06F0003041000, G06F0003048800, A61B0005000000, G06F0003010000, G06F0021320000
(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)MARY, Shruti
2)KANT, Shiv
3)MEGHANA, Santhapuri
4)Bhuvnesh
5)TEWARI, Anupriya

(57) Abstract :
The present subject matter refers to a method and system for user profiling and personalized experience in an electronic device. The method comprises identifying a first coordinate of a touch location on a display screen of the electronic device based on a user touch operation by a finger of a first user and identifying a second coordinate of the touch location on the display screen based on a detection of one of an uplift movement or a downward movement of the finger on the display screen, during the touch operation, with respect to the touch location. Thereafter, the method includes calculating a third coordinate on the display screen with respect to the touch location based on the first coordinate and the second coordinate, wherein the first coordinate, the second coordinate and the third coordinate form a triangle having a region engulfed by the finger of the first user during the touch operation. The method further includes calculating a curvature of the finger based on a length of an arc subtending a central angle of a circle surrounding the triangle. Thereafter, the method includes determining at least one of a holding pattern and a pressure pattern of the first user using at least one sensor data, and a user interaction context. Afterwards, the method determines, based on each of an area of the region of the triangle, the curvature of the finger, the holding pattern, the pressure pattern, and the user interaction context, a probability that the first user associated with the touch operation belonging to at least one class among a predefined-class of the users and authenticating the first user to provide one of an access that is defined with respective of the authenticated first user to the electronic device and/or at least one of application in the electronic device, or a modified setting defined with respective of the authenticated first user, based on the determined probability of the first user.

No. of Pages : 41 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059181 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SWING ARM FOR A VEHICLE

(51) International classification	:A63B0021000000, B62K0025280000, A63B0021005000, A63B0022200000, A63B0022000000	(71)**Name of Applicant :** **1)HERO MOTOCORP LIMITED** Address of Applicant :The Grand Plaza Plot No.2, Nelson Mandela Road Vasant Kunj- Phase -II New Delhi India 110070 Delhi Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Bairagi Priyankar**
(33) Name of priority country	:NA	**2)Kumar Ashish**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 The present invention relates to a swing arm (100) of a vehicle (10).The swing arm (100) comprises a left arm member (102), a right arm member (104), and a cross member (106) located between the left arm member (102) and the right arm member (104). The cross member (106) comprises at least one through hole (108) for reducing a weight of the swing arm. The swing arm has reduced weight, increased strength, and increased dimensional accuracy. The process of manufacturing the swing is substantially easy.
FIGURE 2

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059208 A
(19) INDIA
(22) Date of filing of Application :17/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR GUIDE RNA SEQUENCE GENERATION AND CRISPR BASED IN VITRO DETECTION ASSAY FOR CLADE C HIV-1

(51) International classification	:C12Q0001684400, C12Q0001700000, C12N0015113000, C12N0015900000, C12N0009220000	(71)**Name of Applicant :** **1)ALL INDIA INSTITUTE OF MEDICAL SCIENCES** Address of Applicant :Medical Sciences, Ansari Nagar, New Delhi 110029, INDIA New Delhi Delhi India **2)DEPARTMENT OF BIOTECHNOLOGY**
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)LUTHRA, Kalpana**
(33) Name of priority country	:NA	**2)GAUR, Anjli**
(86) International Application No	:NA	**3)BHAKHRI, Harsh**
Filing Date	:NA	**4)MISHRA, Nitesh**
(87) International Publication No	: NA	**5)SHARMA, Shaifali**
(61) Patent of Addition to Application Number	:NA	**6)BANSAL, Tanu**
Filing Date	:NA	**7)LODHA, Rakesh**
(62) Divisional to Application Number	:NA	**8)SINHA, Subrata**
Filing Date	:NA	

(57) Abstract :
ABSTRACT The present invention provides a gRNA sequences, RPA amplification (recombinase polymerase amplification) primers, and an assay for detection of HIV-1 Clade C, using the gRNA sequence and primers. The synthesized gRNA and the primer can be employed for detection of HIV-1 infection in infant and adult human subject, through in vitro CRISPR/Cas12a based detection assay.

No. of Pages : 41 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059294 A
(19) INDIA
(22) Date of filing of Application :17/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : NANO-STRUCTURED FORMULATION OF LULICONAZOLE AND ITS METHOD OF PREPARATION

(51) International classification	:A61K0009000000, A61P0029000000, A61K0009700000, A61P0037040000, A61K0047100000	(71)**Name of Applicant :** **1)Panjab University** Address of Applicant :Panjab University, Sector-14, Chandigarh, India, Pin Code-160014 Chandigarh Chandigarh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
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(33) Name of priority country	:NA	**2)Gajanand Sharma**
(86) International Application No	:NA	**3)Om Prakash Katare**
Filing Date	:NA	
(87) 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 the formulation made up of phospholipids and other excipients materials at nanoscale size level to overcome the challenge of drug delivery which could provide improved skin penetration and retention in the epidermal and dermal layers. This in turn, enhanced overall performance of the topical formulation. The core inventiveness and originality of the innovation (i.e., novelty) relates to the unique blend of components which on due processing in the chosen process-conditions, could give rise to the supramolecular self-assembled Nano-scale host structures. Thus, latter is responsible for all the advantageous features of the product. As it, on account of, facilitates transport of the drug across the skin as well as enhance the pharmacodynamic action so required at the diseased site by which the drug-receptor interactions are improved.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059322 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CAMERA TRIM DESIGNED AS AN ORIGAMI

(51) International classification	:H04N0005225000, H04M0001020000, B60R0011000000, B60R0011040000, G02B0027010000
(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)Dhiraj Shetty
2)Axel Schmidt

(57) Abstract :
The present disclosure provides a camera trim 103 and a method for forming the same. It involves firstly forming sides 106 having one or more outer edges 103-B of the camera trim 103 by folding a foldable material; and then carving out one or more apertures 103-A by cutting off a portion of at least one of the outer edges 103-B. The apertures 103-A are adapted to accommodate one or more projected portions of a camera assembly 104, when the camera trim 103 and the camera assembly 104 are coupled to each other. At least one of the sides 106 of the camera trim 103 is covered by an absorbent coating for absorbing stray light from reflections. Further, it involves assembling the camera trim 103 along with the camera assembly 104 on carrier device 102, which is attached to any of the windshield 101 and the in-cabin surface of the vehicle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059323 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CAMERA TRIM DESIGNED AS ELASTIC COVER

(51) International classification	:H04N0005225000, H01M0010420000, B60R0011000000, H04M0001020000, B32B0005240000
(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)Dhiraj Shetty
2)Axel Schmidt

(57) Abstract :
The present disclosure provides a camera trim (103) made of flexible material. The camera trim (103) includes more than one sides (106) having one or more outer edges, with one or more apertures (103-B) carved out by cutting off a portion of at least one of the outer edges. The apertures (103-B) are adapted to accommodate one or more projected portions of a camera assembly, when the camera trim (103) and the camera assembly are coupled to each other. At least one of the sides (106) of the camera trim (103) is covered by an absorbent coating for absorbing stray light from reflections. Further, the camera trim (103), along with the camera assembly, is assembled on carrier device (102), which is attached to any of the windshieldand the in-cabin surface (101) of the vehicle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022
(21) Application No.202211058942 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICE FOR SIMULTANEOUS CULTURING AND DETECTION OF MICROORGANISMS

(51) International classification	:B01L0003000000, G01N0033500000, A61N0001040000, G06F0003140000, C12M0003060000
(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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4)Sonal Fande
5)Khairunnisa Amreen
6)Arshad Javed

(57) Abstract :
Provided herein is a device [100] for simultaneous culturing and detection of microorganisms. The device comprises of a substrate [110] having one or more electrode systems [120a, 120b] embedded therein. The device further comprises of one or more microfluidic reservoirs [130a, 130b] placed over the substrate in direct contact with the electrode systems and a temperature control system [140] to maintain the microfluidic reservoirs at an optimal temperature.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022

(21) Application No.202211058944 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYNERGISTIC ANTIOXIDANT NUTRACEUTICAL FORMULATION FOR MALE INFERTILITY

(51) International classification	:A23L0033105000, A61P0015080000, A61P0015160000, A61K0031202000, A61P0013020000	(71)**Name of Applicant :** **1)AKUMS DRUGS & PHARMACEUTICALS LIMITED** Address of Applicant :304, Mohan Place, LSC, Block-C, Saraswati Vihar, delhi Delhi India **2)Akumentis Healthcare ltd**
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Jain Sanjeev**
(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 nutraceutical composition for effective management of male infertility wherein the nutraceutical composition comprising blend of 15 essential male fertility nutrients which improves sperm count, sperm morphology and sperm motility. The present invention provides a unique formula of 15 essential nutrients which exerts anti-oxidant activity and helps in managing fertility in males.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022
(21) Application No.202211058977 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PUNCH NEEDLE ASSEMBLY

(51) International classification	:D05C0007040000, A61M0025060000, A61B0017040000, B29C0045280000, A61B0017060000
(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. Ashoke Kumar Rastogi

(57) Abstract :
ABSTRACT The present invention relates to a punch needle assembly comprises of a handle (1) with a hollow cylinder (6) inside of the handle (1),a punch holder (2) which is 5 attached to the handle (1), a guide bush (3), a thumb screw (4), a punch needle (5), and a threader (7), in which the guide bush (3) is placed inside the punch holder (2) to insert the punch needle (5), and the thumb screw (4) is inserted into the punch holder (2) horizontally to secure the punch needle (5). [To be published with Fig. 1]

No. of Pages : 18 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022
(21) Application No.202211059003 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BOTTLE IN BOTTLE CONTAINER

(51) International classification :B65D0047180000, B05B0011000000, E04F0010060000, H04L0047320000, H04J0003080000
(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)JINDAL, Deepti
(72)**Name of Inventor :**
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2)JINDAL, Deepti

(57) Abstract :
The present disclosure relates to a container (100). The container (100) includes an inner chamber (104) having a first base (110), and a first sidewall (112) extending outwardly from the first base (110), defining an enclosure to facilitate the resting of a fluid. In addition, the container (100) includes an outer chamber (102) having a second base (210) disposed spaced apart and disposed outwardly of the first base (110), and a second sidewall (212) extending longitudinally outwardly from the second base (210), such that the inner chamber (104) is partially enclosed within the outer chamber (102). Further, the container (100) includes a neck portion (106) connecting the first sidewall (112) with the second sidewall (212), and a discharge portion (108) coupled with the neck portion (106). An annular space (240) extending between the inner chamber (104) and the outer chamber (102) for facilitating the thermal isolation.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059004 A
(19) INDIA
(22) Date of filing of Application :15/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD TO OBTAIN PURE GRAPHITE FROM LEACH RESIDUE OF SPENT LITHIUM-ION BATTERIES

(51) International classification	:H01M0010052500, G01N0021710000, H01M0010540000, H01M0004587000, C22B0007000000
(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)MANOJ JOSHI
3)G. PRABAHARAN
4)SMRUTI PRAKASH BARIK
5)NITIN GUPTA

(57) Abstract :
ABSTRACT With the wide usage of Li-ion batteries (LIBs), recycling and reusing LIBs have attracted wide attention. However, due to the low added value and rigorous separation steps, recycling and recovering graphite anode materials are discarded. Although some direct physical recycling processes have been reported, all of them are limited by rigorous separation steps and lab scales. The present invention relates to a method for recovering highly pure graphite from leach residue of spent lithium ion batteries. The process is simple, easy and provides 99.9% pure graphite. Additionally, the method for recovering highly pure graphite is clean, green, environment friendly and commercially feasible. Figure 1 on sheet no. 1 of the drawings may accompany the abstract when published.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058468 A
(19) INDIA
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM OF RENDERING MULTIMEDIA CONTENT DURING CALL ESTABLISHMENT

(51) International classification	:H04M0001724120, H04W0004800000, H04L0065600000, H04W0076100000, H04N0021414000
(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)Rajvir Singh Juneja
3)Santosh Pathak
(72)**Name of Inventor :**
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2)Rajvir Singh Juneja
3)Santosh Pathak

(57) Abstract :
ABSTRACT technique is provided for rendering multimedia content during call establishment. The technique includes detecting, by a multimedia management application installed on a first electronic device, a request signal for a call establishment procedure between a first electronic device and a second electronic device. The method further includes rendering a multimedia content on the first electronic device upon the detection of the request. To be published with FIG.1

No. of Pages : 68 No. of Claims : 49

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058469 A
(19) INDIA
(22) Date of filing of Application :12/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD FOR LINALOOL SYNTHESIS IN SACCHAROMYCES CEREVISIAE

(51) International classification	:A61K0036575000, C12N0015820000, C12R0001865000, C12N0009880000, C12N0015810000	(71)**Name of Applicant :** **1)COUNCIL OF sCIENTIFIC AND INDUSTRIAL RESEARCH** Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg Rafi Marg New Delhi Delhi India 110 001 DELHI Delhi India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Sarma Mutturi Venkata Ravi Krishna**
(33) Name of priority country	:NA	**2)Aneesha Abdullah**
(86) International Application No	:NA	**3)Nabarupa Gupta**
Filing Date	:NA	**4)Kalaivani Paramasivan**
(87) 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 The present invention provides a method for linalool synthesis in Saccharomyces cerevisiae,. Here, the linalool synthase gene from Magnolia champaca and Coriandrum sativum were codon optimized, McfLIS: SEQ ID 2 and CsfLIS: SEQ ID 7, respectively, and were expressed in laboratory S. cerevisiae strain CEN.PK2-1C. Moreover, truncated variants of these two linalool synthases were generated (MctLIS and CstLIS) by removal of plastid signal, and expressed in laboratory S. cerevisiae strain CEN.PK2-1C to observe improved linalool synthesis. Also, co-expression of tHMG1 was carried along with McfLIS and MctLIS, on a dual expression plasmid vector using constitutive promoters, pTEF and pPGK1 in S. cerevisiae strain CEN.PK2-1C.

No. of Pages : 31 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202211058484 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A COMPOSITION FOR REDUCING SIGNS OF AGING, STRESS AND PROMOTING MENTAL WELL-BEING OF A SUBJECT

(51) International classification	:A61P0025240000, A61K0009000000, A61K0036230000, A61Q0019080000, A61K0036530000
(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)JAIN, Malvika
2)SONI, Kriti

(57) Abstract :
The present disclosure relates generally to the field of pharmaceutical composition. Particularly, the present disclosure provides a composition that reduces signs of aging, stress, exhibits anxiolytic, anti-depressant effect, enhances skin penetration and promotes mental well-being of a subject by enhancing mood positively, wherein the composition comprises 30 to 50 % w/w of a Tephrosia purpurea of the total weight of the composition; 30 to 50 % w/w of a Phaeodactylum tricornutum of the total weight of the composition; 5 to 15 % w/w of a Centella Asiatica of the total weight of the composition; and 5 to 15 % w/w of an Ocimum basilicum of the total weight of the composition. The present composition can also find its application as a blend in other compositions/formulations, exhibiting deep permeation and mood-enhancing benefits.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058485 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A NUTRACEUTICAL COMPOSITION

(51) International classification	:A61K0036880000, A61Q0019080000, A61K0036670000, A61K0009000000, A61P0025220000	(71)**Name of Applicant :** **1)Sush Essentials Private Limited** Address of Applicant :Plot No. 18-19, Kasna, Ecotech 1 Extrension, Noida, Gautam Budh Nagar, Uttar Pradesh - 201310, India. Noida Uttar Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)JAIN, Malvika**
(33) Name of priority country	:NA	**2)SONI, Kriti**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure relates generally to the field of pharmaceutical compositions. Particularly, the present disclosure provides a nutraceutical composition that boosts collagen production, delays skin ageing, promotes neural regeneration, reduces anxiety, insomnia, stress and promotes mental well-being of a subject through enhanced bioavailability of the ingredients used in the blend.The nutraceutical composition comprises 30 to 50 % w/w of an Alpha-Casozepine of the total weight of the composition; 5 to 15 % w/w of a Crocus sativus of the total weight of the composition; 30 to 50 % w/w of a Bacopamonnieri of the total weight of the composition; and 5 to 15 % w/w of a Piper nigrum of the total weight of the composition. The present composition can also find its application as a blend in other compositions/formulations.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058545 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A FORMULATION FOR ORAL DELIVERY OF PEPTIDES AND BIOSIMILARS FOR SYSTEMIC ABSORPTION AND METHOD OF MANUFACTURING THE SAME

(51) International classification	:A61K0009000000, A61K0009190000, A61K0038280000, B82B0003000000, A61K0047640000
(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 Braj Gaurav Sharma
2)Atul Kumar
3)Anjali Kumar

(57) Abstract :
the invention relates to formulation for oral delivery of peptides and/or drug molecules and a method of manufacturing the same. The oral formulation is useful for delivering peptides to the gastrointestinal tract, preferably at the ileo-caecal junction of colon.

No. of Pages : 51 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202211059324 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A SYSTEM FOR RADAR MISALIGNMENT DETECTION

(51) International classification	:G01S0007400000, G01S0013931000, G01S0013870000, A61B0005080000, G01S0007020000
(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)Sajitha V R
2)Vivek Dhoot
3)Karthik C Airani
4)H.m Prasanna

(57) Abstract :
A system 100 for detecting a misalignment of one or more RADARs of a vehicle includes one or more RF resonators 102 mounted in a region beyond a designated field of view (FOV) of the RADARs 104, such that any misalignment of the corresponding RADAR beyond a permissible limit, results in radio waves from the RADAR falling on at least one of the one or more RF resonators. Based on the received radio wave due to the misalignment, the RF resonators 102 generate a resonated radio wave, which includes an identifier of the RF resonator 102. The identifier is used to identify the corresponding misaligned RADAR. The resonated radio wave transmitted by the RF resonators 102 is received by one or more sensors for analysis by a controller to detect a measure of misalignment.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059325 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTEGRATED SYSTEM AND METHOD FOR REPORTING A COLLISION INVOLVING A VEHICLE

(51) International classification :B60R0021010000, A61M0005200000, G05D0001000000, H04W0004800000, G21C0015180000
(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)Sonam Varshney
2)Roja Chandrappa

(57) Abstract :
An integrated system 100 for reporting a collision involving a vehicle 110 includes a passive safety module 102 configured within the vehicle 110, and communicatively coupled to a secondary safety module 152 configured in a mobile device 150 of a user. The secondary safety module 152 detects the occurrence of a crash based on the inputs from the ECU 104 of the vehicle 110 or a gyrometer 156 of the mobile device 150, and detects if the passive safety module 102 has sent a SOS related to the crash to one or more stakeholders through a communication means 106 provided in the vehicle 110. In case it is detected that the passive safety module 102 has not sent a SOS, the secondary safety module 152 sends a SOS through the mobile device 150 to the one or more stakeholders.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059358 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PROCESS FOR THE PRODUCTION OF ELECTROLYTIC GRADE CU, NI, CO, MN FROM THE PURIFIED LEACH LIQUORS OF E-WASTE

(51) International classification	:G01N0021710000, C22B0015000000, H01M0004505000, C22B0007000000, C22B0003000000
(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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1)Manis Kumar Jha
2)Jhumki Hait
3)Ranjeet Kumar Singh
4)Sanchita Chakravarty
5)Pankaj Kumar Choubey
6)Rekha Panda
7)Om Shankar Dinkar

(57) Abstract :
The present invention relates to the production of high purity metals such as Cu, Ni, Co and Mn from purified leach liquor obtained from the processed e-wastes. This innovation relates to hydrometallurgical recovery of cobalt (Co), copper (Cu) nickel (Ni) and manganese (Mn) metals from different leach liquor of e-wastes. The leach liquor of waste PCBs and LIBs is used for the electro-winning of Cu, Ni, Co and Mn at different condition. Experiments were performed at different parameters such as current density, pH, temperature, time., etc. to optimize the conditions for electro-winning of metals from the leach liquor containing 40 to 80 g/L Cu, 50 to 60 g/L Co, 50 to 70 g/L Ni and 40 to 80 g/L Mn. The invention provides an impetus to industrial practice for recycling extracted metals, reducing waste, and non-corrosive, environmentally friendly approaches to metal extraction from the fastest growing waste stream.

No. of Pages : 18 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202211059359 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CASEIN MANGANESE NANOPARTICLE AND ITS PROCESS OF PREPERATION THEREOF

(51) International classification	:A61P0035000000, A61P0017020000, G01N0033500000, C12N0005071000, A61K0009510000	(71)**Name of Applicant :** **1)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH** Address of Applicant :Anusandhan Bhawan, 2 Rafi Marg New Delhi Delhi India 110 001 Delhi India
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(32) Priority Date	:NA	**1)Shagufta Haque**
(33) Name of priority country	:NA	**2)Chitta Ranjan Patra**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 new fabricated casein manganese nanoparticle (CM NPs) prepared by using casein as a template for formation of nanoparticles. The present invention is simple, fast, clean, efficient and economically cheap approach. The CM NPs exhibit an escalated angiogenic activity in vitro towards different endothelial as well as in vivo through CAM and chick aorta assay. The angiogenic CM NPs show wound healing property through in vitro assays towards keratinocyte cells and in vivo experiments in mouse model. Detailed mechanism studies show that the CM NPs could enhance endothelial cell proliferation through multi-regulatory pathway mainly by ROS generation and propagating nitric oxide mediated pathway. The present invention presents a simple approach to prepare casein-based biocompatible manganese nanoparticles having multiple applications and great potential in angiogenesis for future times.

No. of Pages : 40 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059366 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MECHANO-BACTERICIDAL ACTION OF GOLD NANOSTARS EMBEDDED HYDROGEL BANDAGE FOR BIOSAFETY APPLICATIONS

(51) International classification	:A61P0031040000, A61P0017020000, A61K0009000000, A61K0009060000, A61L0026000000
(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)Nitin Kumar Singhal
2)Sunaina Kaul
3)Poonam Sagar

(57) Abstract :
With global estimates ranking skin conditions fourth largest cause of disability and colonization of World Health Organization (WHO) referred drug resistant organisms, Carbapenem-resistant Enterobacteriaceae spp. (CRE) and Methicillin-resistant Staphylococcus aureus (MRSA) has shifted the approach towards the development of mechano-bactericidal agents rather than the conventional antibiotic therapy. Amongst them, contact killing and anti-adhesive properties render biocidal effects on antibacterial agents. We explored the bacteriolytic efficiency of Gold nanostars (AuNst) on Gram positive (Staphylococcus aureus) bacterial species. In our work, probing the topological effects of nanoparticles indicated the lethality of ~120 nm nanospikes of AuNst. The length being sufficient enough to pierce the cell membrane of both Gram positive (20-80 nm) and Gram negative (~10 nm) species. Hydrogels being biocompatible, biodegradable and flexible are an attractive target for wound care management. Present innovation involves the development of calcium alginate hydrogel bandage conjugated with ~120 nm spike length AuNst (AuNst120@H) that provides mechano-bactericidal action in case of skin bacterial infections and cytocompatibility for skin fibroblast cells (NIH-3T3). Further, in-vivo applications in case of S. aureus infected wounds of Sprague Dawley rats proved enhanced bacterial eradication with faster wound healing on application of AuNst120@H. Thus, the present study can prove to be a promising futuristic skin infection dressing that with its mechano-bactericidal action promotes wound healing by preventing the development of drug resistance in infection causing bacterial organisms.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059386 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SECURE INTEGRATION OF WIRELESS SENSOR NETWORKS WITH INTERNET FOR FOREST FIRE DETECTION.

(51) International classification	:H04W0084180000, G08B0017000000, A62C0003020000, G08B0025100000, G08B0017120000
(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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3)Prof. (Dr.) Barkha Bahl
4)Prof. (Dr.) Anupam Kumar Sharma
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6)Gyanendra Kumar Shukla
7)Deepak Rathore
8)Jayant Bhardwaj
9)Dr. Pawan Kumar Sharma
10)Dr. Saneh Lata Yadav
11)Siddhartha Sankar Biswas
12)Shipra Varshney
13)Prof. (Dr.) Pawan Kumar Bharti
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6)Gyanendra Kumar Shukla
7)Deepak Rathore
8)Jayant Bhardwaj
9)Dr. Pawan Kumar Sharma
10)Dr. Saneh Lata Yadav
11)Siddhartha Sankar Biswas
12)Shipra Varshney
13)Prof. (Dr.) Pawan Kumar Bharti

(57) Abstract :
New technologies like wireless sensor networks and the Internet of Things have opened up new possibilities for environmental monitoring. WSNs and IoT have been applied to the challenge of monitoring and detecting forest fires in this thesis. Forest fires are the primary cause of environmental damage today. At the present moment, the forest fire monitoring system does not provide real-time monitoring for each point in a target region at all times and does not assist early detection of threats. Forest fires pose a significant hazard to the environment, as they disrupt it and contribute to climate change and the depletion of the ozone layer. In this invention we have shown to demonstrate how to design, research, and develop an optimized Wireless IP multisensory network that can detect and locate the fire's focus, as well as confirm this information with images, as well as monitor fires in rural, agricultural, and forested areas using WLAN technology. A good place to start is by figuring out how many different types of cameras, multi-sensory, and access points are required to cover a rural or woodland area. We also looked into the system's ability to grow. For detection and verification of fire, the system uses IP cameras and multisensory in a wireless mesh network. This reduces fire fighters response time and there by reduces the impact of a wild fire in rural and forest areas.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059395 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A COOL AIR DISPENSING UNIT FOR REFRIGERATORS

(51) International classification	:F25D0017060000, F25D0017040000, F25D0017080000, F28D0020020000, F25D0029000000	(71)**Name of Applicant :** **1)LG ELECTRONICS INC.** Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea (72)**Name of Inventor :** **1)SINGH Amar Kumar**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
the refrigerator includes a freezer compartment (102) and the cool air dispensing unit (106) attached inside the freezer compartment (102). The cool air dispensing unit (106) includes a pair of storage tanks (204A, 204B) having Phase Change Material (PCM) solution configured to freeze during normal operation of the refrigerator (100), an air duct (206) sandwiched between the pair of storage tanks (204A, 204B) and configured to circulate ambient air of the refrigerator (100). The air duct (206) having an air inlet (210) to ingress the ambient air of the refrigerator (100), such that the ingressed air is cooled by latent heat of the frozen PCM solution stored in the pair of storage tanks (204A, 204B) and an air outlet (214) to egress cooled air out of the refrigerator (100).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059552 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SPEEDOMETER OF VEHICLE

(51) International classification	:G01P0001110000, G01D0005140000, B60K0037020000, G01P0003489000, A61M0005320000
(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 :**
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2)YADAV, Pankaj

(57) Abstract :
the speedometer (142). The one or more magnets (202) is configured to rotate based on a rotation of a wheel (122) of the vehicle (100). The speedometer (142) further comprises at least one coil (208) arranged adjacent to the one or more magnets (202). The one or more magnets (202) is configured to rotate with respect to the at least one coil (208) such that an electric current is generated in the at least one coil (208). The speedometer (142) further comprises a processor unit (310) to switch energy source for driving the speedometer (142) from a vehicle battery to the electric current produced in the at least one coil (208), when a steady direct current exceeds the threshold current value. FIG. 7

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059615 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND SYSTEMS FOR DISPLAYING A POSITION OF A FIRST DEVICE ON A SECOND DEVICE

(51) International classification	:G01S0007481000, G03F0007200000, G03F0009000000, G06F0003042000, G01C0015000000
(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)SIDHU, Gurmanjeet Singh
2)SHARMA, Vishal

(57) Abstract :
The present disclosure discloses methods and systems for displaying a position of a first device on a second device. The method comprises detecting position coordinates of the first device with respect to a position of a third device, wherein the position coordinates of the first device correspond to the position in a first coordinate system. The method comprises converting the position coordinates of the first device into a global coordinate system. The method comprises converting the position coordinates from the global coordinate system into a user coordinate system and transmitting the converted position coordinates in the user coordinate system to the second device, wherein the second device: re-converts the converted position coordinates from the user coordinate system into a second coordinate system to obtain the position of the first device and controls a display screen to display the obtained position of the first device.

No. of Pages : 35 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059642 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR PROVIDING SAFETY IN AN IOT ENVIRONMENT

(51) International classification	:G06K0009620000, G06F0021550000, G06N0020000000, G06F0021600000, F24F0120100000
(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)GUPTA, Vipul
2)AGRAWAL, Ankur
3)NEGI, Vaibhav

(57) Abstract :
The present invention relates to a method for providing safety in an IOT 5 environment. The method (100) includes receiving an audio input from one or more secured regions marked in the IOT environment. The method (100) further includes extracting features from the received audio input and classifying the extracted features into a plurality of human recognizable audio patterns. The method (100) further includes enhancing the plurality of human recognizable 10 audio patterns and recognizing presence of one or more humans in the one or more secured regions. The method (100) further includes classifying the audio input into one of two categories and identifying among family members in case of the known category. The method (100) further includes categorizing the detected audio patterns as intrusion. Thereafter the method (100) includes notifying an 15 appropriate user about the intrusion in the one or more secured regions via an IOT device for providing the safety FIG. 1

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/12/2022
(21) Application No.202214076253 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A LITHIUM-ION BATTERY ELECTRODE PIECE

(51) International classification	:H01M0010052500, H01M0004620000, H01L0027115820, H01M0004360000, H01M0004040000
(31) Priority Document No	:202211241217.2
(32) Priority Date	:11/10/2022
(33) Name of priority country	:China
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
The invention provides a lithium-ion battery electrode piece and a lithium-ion battery including the same. The electrode piece includes an electrode active material layer disposed on the surface of the current collector and a protective layer disposed on the surface of the electrode active material layer. The protective layer is composed of metal oxide layers (1) and conductive layers (2) alternately stacked in the horizontal direction. The area ratio of the metal oxide layers (1) to the conductive layers (2) is 4:1-1:4, and the thickness ratio is 0.5:1-1:1. According to the invention, by regulating the shape and ratio of the high temperature stability material and the conductive active material on the electrode piece in the process of coating the protective layer, the amount of the two coating materials is precisely controlled to implement the precise regulation of the high temperature stability and rate performance of the electrode piece.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202211059408 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD OF CONTROLLING WEEDS

(51) International classification	:A01N0043540000, C12N0009880000, A01N0025220000, B05B0009040000, A01M0021020000
(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)LEAL, Jessica Ferreira Lourenco
2)NETO, Ayrton Berger
3)RAO, Ganesh
4)LENZ, Giuvan

(57) Abstract :
The present invention discloses a method of controlling weeds by applying an herbicidally effective amount of diflufenican to a plant or a locus or a plant propagation material thereof, to 5 control weeds, wherein the effective amount of diflufenican is in an amount from about 1 g a.i.!ha to about 300 g a.i.lha. It also discloses a method of reducing phytotoxicity in crops by applying an herbicidally effective amount of diflufenican to a plant or a locus or a plant propagation material thereof, to reduce the phytotoxic action, wherein the effective amount of diflufenican is in an amount from about 1 g a.i./ha to about 300 g a.i./ha.

No. of Pages : 39 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211059411 A
(19) INDIA
(22) Date of filing of Application :18/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : ULTRASONIC MILK ANALYZER AND A PROCESS

(51) International classification	:H04L0067020000, H04W0012080000, A61B0018140000, C07K0016300000, A61B0005053000	(71)**Name of Applicant :** **1)Ashok Kumar** Address of Applicant :House no 488- Global Space City- Sirsa Pin code-125055 Haryana, India. Sirsa Haryana India (72)**Name of Inventor :** **1)Ashok Kumar**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A milk analyzer that can measure parameters including milk fat, SNF content and other properties instantaneously in a digital read out. The present invention does not involve the use of corrosive chemicals and works on Ultrasonic Waves Theory.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023

(21) Application No.202312009842 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR HIGH THROUGHPUT FRACTIONATED SATELLITES (HTFS)

(51) International classification	:H04W0084060000, H04B0007195000, H04B0007024000, H04B0007185000, B64G0001400000
(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	:201711020428
Filed on	:12/06/2017

(71)**Name of Applicant :**
1)AST & SCIENCE, LLC
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(72)**Name of Inventor :**
1)Abel AVELLAN
2)Sriram JAYASIMHA

(57) Abstract :
A high throughput fractionated satellite (HTFS) system (100) where the functional capabilities of a conventional monolithic spacecraft are distributed across many small or very small remote satellites (302) and a control satellite (200), the satellites are separated and fly in carefully design formations that allows the creation of very large aperture or apertures in space drastically reducing cost and weight and enabling high throughput capabilities by spatially reuse spectrum.

No. of Pages : 39 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314008234 A
(19) INDIA
(22) Date of filing of Application :09/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROL DEVICE OF VEHICLE

(51) International classification	:F16H59/36, F16H59/44, F16H59/48, F16H59/70, F16H61/20, F16H63/50	(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)Kosuke SUZUKI**
(31) Priority Document No	:2022-035072	
(32) Priority Date	:08/03/2022	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :
It is to provide a control device of a vehicle capable of accurately determining the 5 vehicle to slide down even when a garage shift operation is performed. [Solution] An HCU determines whether a garage shift operation of changing a shift position from one of forward and reverse ranges to the other is performed by a driver (step S1). The HCU performs, if the garage shift operation is determined to be performed, a first 10 sliding down determination process of determining whether the vehicle slides down (step S2), otherwise performing a second sliding down determination process of determining whether the vehicle slides down (step S3), which is different from the first sliding down determination process. Upon determining that the vehicle slides down in accordance with the first or second sliding down determination process (YES at step S4), the HCU 15 increases driving force of the vehicle (step S5).

No. of Pages : 39 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/02/2023
(21) Application No.202314008488 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISPLAY DEVICE

(51) International classification	:H01L25/16, H01L33/38, H01L33/52, H01L33/62
(31) Priority Document No	:10-2022-0018223
(32) Priority Date	:11/02/2022
(33) Name of priority country	:Republic of Korea
(86) International Application No	:NA
Filing Date	:NA
(87) 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 :1, Samsung-ro, Giheung-gu, Yongin-si, Gyeonggi-do, 17113, Republic of Korea Republic of Korea
(72)**Name of Inventor :**
1)Do Yeong PARK
2)Kyung Bae KIM
3)Won Jun LEE

(57) Abstract :
A display device (10) includes:a first insulating layer (PAS1) on electrodes;a plurality of light emitting elements (ED) on the electrodes in an emission area (EMA); a second insulating layer (PAS2) on the first insulating layer (PAS1) and the light emitting elements (ED) and having a plurality of openings partially overlapping the electrodes (RME) and the light emitting elements (ED); anda plurality of connection electrodes (CNE) on at least some of the electrodes, contacting the light emitting elements (ED), and partially overlapping the openings. A first opening(OP1) has a first side portion and a second side portion opposite to the first side portion with a greater width than the first side portion, anda first connection electrode (CNE1) overlapping the first opening (OP1) has a first portion (P1) overlapping the first opening (OP1) and a second portion (P2) having a greater width than the first portion (P1) and that does not partially overlap the first opening (OP1)

No. of Pages : 120 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202211058550 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A SELF ADJUSTING HANGER

(51) International classification	:A47G0025480000, A47G0025140000, A61B0005000000, G06F0003035400, A47G0025320000
(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)LG ELECTRONICS INC.
Address of Applicant :20 Yeouido-dong, Yeongdeungpo-gu, Seoul 150-721, Republic of Korea Republic of Korea
(72)**Name of Inventor :**
1)BHATTAD Harshad

(57) Abstract :
the hanger (100) and a body (104) having an adjusting assembly (200) for lateral movement of the body (104). Further, the adjusting assembly (200) include, a plurality of rollers (206, 208) to facilitate the movement of the body (104), a plurality of guide rails (212) to guide the movement of the hook (102) and a ball bearing (210) to translate the horizontal movement into lateral movement of the body (104). The hook (102) is coupled with the adjusting assembly (200), the adjusting assembly (200) translates the horizontal movement of the hanger (100) into the lateral movement of the body (104) and facilitates in self-adjustment of the hanger (100) during a vibration when placed in a garment conditioning apparatus.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058591 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : VARIABLE TRACK WIDTH AND WHEELBASE ARRANGEMENT FOR VEHICLE AXLES AND A METHOD THEREOF

(51) International classification	:B60B0035100000, B62D0021140000, G11B0005390000, B62D0049060000, B60B0023120000	(71)**Name of Applicant :** **1)Mahindra & Mahindra Limited** Address of Applicant :Farm Equipment Sector, Swaraj Division, Phase IV, Industrial Area, S.A.S. Nagar (Mohali) – 160055 S.A.S. Nagar Punjab India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)ANKIT SRIVATAVA**
(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 embodiments herein disclose a variable track width and wheelbase arrangement for vehicle front axle suitable to use on vehicles such as agricultural and industrial tractors. Further, the embodiments herein disclose the variable track width and wheelbase arrangement which allows the track width and wheelbase of the vehicle to be changed easily and without the use of any major tools or other equipment. Furthermore, the embodiments herein disclose the variable track width and wheelbase arrangement having the track width adjustable between a wide track and a narrow track. The embodiments herein further disclose the variable track width and wheelbase arrangement which is configured to provide required shorter turning radius for performing predetermined soil operations. Additionally, the embodiments herein disclose the variable track width and wheelbase arrangement which is inexpensive and easy to manufacture. FIG. 2

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202211058613 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM FOR SCALABLE, PARALLEL FLOWS, SINGLE-LEVER-CONTROL, TURBULENCE DIVERTER

(51) International classification	:B41J0002180000, B05B0001180000, F24D0003140000, E03C0001040000, E03C0001020000	(71)**Name of Applicant :** **1)VARMA, Pradeep** Address of Applicant :634, Sector-21, Gurgaon, Haryana – 122 016, India Gurgaon Haryana India (72)**Name of Inventor :** **1)VARMA, Pradeep**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A diverter system comprised of generic plumbing parts comprising pipes, bends, control valves, and one-or-more 3-or-higher way junctions, resulting in a practically no wish left unfulfilled, optimal diverter that scales fully along all its dimensions of (a) desired hot and cold water mixing, (b) parallel output combinations and control of tap and shower head, and (c) highest pressure water outputs for the given water head of the supply tank, besides ease of implementation and later maintenance.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202211058621 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A KIT AND METHOD FOR DETECTION OF BK VIRUS

(51) International classification	:C12Q0001700000, G01N0033543000, G01N0033569000, C12Q0001688300, C09K0011060000
(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
Address of Applicant :V. Ramalingaswami Bhawan, P.O. Box No. 4911, Ansari Nagar, New Delhi - 110029, India New Delhi Delhi India
2)All India Institute of Medical Sciences, New Delhi
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1)YADAV, Subhash Chandra
2)SESHAM, Kishore
3)KUMAR, Sunil
4)RAMAN, Srishty
5)GUPTA, Abhishek
6)MRIDHA, Asit Ranjan
7)YADAV, Raj Kanwar

(57) Abstract :
The present invention provides a detection kit and method for rapid, simple, sensitive, specific, and cost-effective Nano-LAMP based detection of BK virus. The kit comprises of non-modified or non-tagged) primers from six distinct zones of the BK Virus genome and modified nanomaterials for immediate colour change-based detection.

No. of Pages : 65 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202314007829 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTAINER WITH PLUNGER AND LOCKING ARRANGEMENT

(51) International classification	: A61M5/315
(31) Priority Document No	:22170978.5
(32) Priority Date	:29/04/2022
(33) Name of priority country	:EPO
(86) International Application No	:NA
Filing Date	:NA
(87) 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)SCHOTT Pharma Schweiz AG
Address of Applicant :St. Josefen Strasse 20, 9000 St. Gallen (CH) Switzerland
(72)**Name of Inventor :**
1)MOSER, Raymond

(57) Abstract :
A container (100; 700), in particular a syringe or a cartridge, comprises a container body (110), a plunger (130; 530; 630) having a plunger rod (132; 332; 432; 532; 632), the plunger rod (132; 332; 432; 532; 632) disposed at least partially within the container body (110), and a locking arrangement (150; 350; 450; 550; 650) for locking a position of the plunger rod (132; 332; 432; 532; 632) relative to the container body (110). The locking arrangement (150; 350; 450; 550; 650) is operable between at least a locked position and an unlocked position. The locking arrangement (150; 350; 450; 550; 650) comprises at least one deformable element (152; 352; 452) which is configured for applying a locking force between the plunger rod (132; 332; 432; 532; 632) and an inner wall (112) of the container body (110) when the locking arrangement (150; 350; 450; 550; 650) is in the locked position and for releasing a locking force between the plunger rod (132; 332; 432; 532; 632) and the inner wall (112) of the container body (110) when the locking arrangement (150; 350; 450; 550; 650) is changed from the locked position to the unlocked position. Fig. 1

No. of Pages : 31 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2023
(21) Application No.202314008958 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEAT-INSULATING GLAZING MODULE

(51) International classification :E06B0003663000, A01G0009140000, E04B0001760000, B32B0017100000, E04C0002540000
(31) Priority Document No :u20220040
(32) Priority Date :18/02/2022
(33) Name of priority country :Belorussia
(86) International Application No :NA
Filing Date :NA
(87) 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)UNITSKY, Anatoli Eduardovich

(57) Abstract :
The invention relates to the field of construction, namely to glazing structures of residential and industrial buildings, greenhouses, vehicles, other facilities, and is aimed at reducing costs during manufacture and operation of a heat-insulating glazing element, increasing its loading capacity, improving basic technical parameters. The claimed heat-insulating glazing module consists of at least two sheets of glass – outer (1) and inner (2), comprising at least one closed interglass space (4) formed, together with encapsulating and sealing contour (3), between the two adjacent sheets of glass, the pressure wherein is lower than the external atmospheric pressure, with separating elements (5) located between the adjacent sheets of glass, made in the form of long lines, with the presence of protruding fragments (9) in one of feasible embodiments. The separating elements (5) or part of them are arranged parallel or intersecting in one plane and/or parallel or crossing in parallel planes and are fixed with their ends in the encapsulating and sealing contour. Selection of shape, geometry, materials of separating elements (5), methods of arranging thereof between the adjacent sheets of glass in the closed interglass spaces (4), the pressure wherein is lower than the external atmospheric pressure, make it possible to achieve the main goals of the claimed invention – simplification of the manufacturing process and maintenance technology, reduction of heat transfer coefficient, decrease in the level of stress localization in glass.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202314009300 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HYBRID VEHICLE

(51) International classification	: B60K6/36, B60K6/442, B60K6/547, F16H3/083
(31) Priority Document No	:2022-037039
(32) Priority Date	:10/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Yoshiki ITO
2)Ryuhei HAGURA

(57) Abstract :
A transmission includes an input shaft to which drive power is transmitted from an engine, an odd-numbered gear intermediate shaft, an even5 numbered gear intermediate shaft, an output shaft, an odd -numbered gear motor generator, an even-numbered gear motor generator, a first speed gear set, a second speed gear set, a third speed gear set, a fourth speed gear set, and a first doc-clutch. The first speed gear set and the third speed gear set each work to connect the odd-numbered gear intermediate shaft and the output shaft together to transmit drive power therebetween. The second speed gear set and the fourth speed gear set work to connect the even-numbered gear intermediate shaft and the output shaft together to transmit drive power therebetween. The first dog-clutch is switchable between an odd-numbered gear position and an even-numbered gear position. The odd-numbered gear position is to achiev connection between the input shaft and the odd-numbered gear intermediate shaft. The even-numbered gear position is to achieve connection between the input shaft and the even-numbered gear intermediate shaft. This structure ensures a smooth gear change in the transmission without use of a plurality of clutches and enables the transmission to be reduced in size and produced at a decreased cost.

No. of Pages : 74 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202314009369 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TANK COVER

(51) International classification	: B62J35/00
(31) Priority Document No	:2022-021054
(32) Priority Date	:15/02/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)TAKIGUCHI, Shohei
2)FUJITA, Tatsuya
3)SHIMIZU, Kenji
4)HINO, Yuya

(57) Abstract :
A tank cover (80) includes a center cover (108). The center cover (108) includes a plurality of rib portions (146) formed on a bottom surface (144) thereof. The plurality of rib portions (146) include a first rib portion (148), and a second rib portion (150) smaller in height than the first rib portion

No. of Pages : 43 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202314009381 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SHROUD

(51) International classification	: B62J17/10, B62J23/00, B62J35/00, B62J50/30	(71)**Name of Applicant :** **1)HONDA MOTOR CO., LTD.** Address of Applicant :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, JAPAN Japan
(31) Priority Document No	:2022-021065	(72)**Name of Inventor :** **1)TAKIGUCHI Shohei** **2)SHIMIZU Kenji**
(32) Priority Date	:15/02/2022	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 inner shroud (154) of a shroud (88) includes a concaveconvex portion (176) in which at least one concave portion (178) recessed in the vehicle width direction and a plurality of convex portions (180) protruding in the vehicle width direction are formed. At least one of the convex portions (180) of the concave-convex portion (176) is formed at a front end portion (158) of the inner shroud (154).

No. of Pages : 41 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202314012568 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CUSTOMIZED ASSET PERFORMANCE OPTIMIZATION AND MARKETPLACE

(51) International classification	:G06F0008600000, G06Q0030020000, G06F0008710000, G05B0023020000, H04L0041082000
(31) Priority Document No	:63/313390
(32) Priority Date	:24/02/2022
(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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Address of Applicant :Intellectual Property Services Group855 S. Mint Street Charlotte, North Carolina 28202, United States of America U.S.A.
(72)**Name of Inventor :**
1)SRINIVASAN DATTARAJAN
2)ILANGOVAN R
3)SPARSH ARORA
4)RAHUL CHILLAR

(57) Abstract :
Various embodiments for a customized asset performance system and marketplace are described herein. An embodiment operates by receiving asset data indicating one or more assets that are being monitored by a control system. Telemetry data for at least a first asset is received, the telemetry data including data corresponding to a previous functionality of the asset over a specified period of time. The telemetry data is compared to an expected functionality over the specified period of time. A problem with the first asset is identified based on the comparing. One or more software packages that are configured to address the problem with the first asset are identified based on comparing the telemetry data to an expected functionality of the first asset over the specified period of time. A selection of a first software package from the one more software packages is received and the selected first software package is updated. 18434037.1

No. of Pages : 72 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314012590 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIGHTING DEVICE FOR FUEL TANK

(51) International classification	:B60K0015040000, B60K0015050000, F21Y0115100000, B60K0015035000, B60K0015030000	
(31) Priority Document No	:2022-053245	
(32) Priority Date	:29/03/2022	
(33) Name of priority country	:Japan	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo, 107-8556 Japan Japan
(72)**Name of Inventor :**
1)KOISHIKAWA, Takuma

(57) Abstract :
Provided is a lighting device for fuel tank that effectively illuminates the fueling port and the interior of the fuel tank with the light. A lighting device for fuel tank is used for a fuel tank (1) having a fuel cap (2) that swings to open/close. The fuel cap (2) covers a fueling port (6). A light source (30) is attached to a bottom surface of the fuel cap (2). The light source (30) is configured to illuminate the fueling port (6) with light (L) when the fuel cap (2) is open. Closing the fuel cap (2) forms an atmospheric area (A2) between the fuel cap (2) and the fueling port (6). The atmospheric area (A2) communicates with a vaporized fuel area (A1), through which vaporized fuel from the fuel tank (1) flows, and the atmosphere. The light source (30) is placed in the atmospheric area (A2). The lighting device includes a switch (40) configured to switch the light source (30) on and off as desired.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314012696 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR APPLYING CONTROL REFERENCE VALUE TO SPECIMEN ANALYZER, SPECIMEN ANALYZER, AND COMPUTER PROGRAM

(51) International classification	:G01N0035000000, H04L0005000000, H04W0072040000, G01N0033680000, G01N0033490000
(31) Priority Document No	:2022-030425
(32) Priority Date	:28/02/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)SHIRASUNA, Kei
2)FUKUMA, Daigo
3)NAGAO, Yuto
4)HAYASHI, Fumiaki
5)KISO, Kanako
6)KOHNO, Tomomi

(57) Abstract :
ABSTRACT To cause a control reference value to be more efficiently determined and applied to a specimen analyzer in a test facility. [Solution] This method for applying a control reference value to a specimen analyzer is a method for applying a control reference value regarding a quality control sample to a specimen analyzer by a computer. The method includes: generating the control reference value on the basis of a measurement result of the quality control sample measured by the specimen analyzer; and applying the control reference value to the specimen analyzer.

No. of Pages : 65 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202314012730 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FAST FIBER TRANSIENT LOCATING SYSTEMS AND METHODS

(51) International classification	:G01M11/3109, H04B10/071, H04B10/079
(31) Priority Document No	:17/680,593
(32) Priority Date	:25/02/2022
(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)Ciena Corporation
Address of Applicant :7035 Ridge Road Hanover, MD 21076 USA U.S.A.
(72)**Name of Inventor :**
1)Choudhury A. AL SAYEED

(57) Abstract :
Systems and methods include detecting (430) a fast fiber transient on a span based on analyzing power data, wherein the power data is for any of optical wavelengths of traffic channels, optical service channel (OSC) wavelengths, and telemetry from a network element; and responsive to detecting the fast fiber transient, causing (440) an optical time domain reflectometer (OTDR) trace on the span with a specific configuration based on the fast fiber transient.

No. of Pages : 24 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314012741 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PAPER SHEET THICKNESS DETECTION APPARATUS, PAPER SHEET IDENTIFICATION APPARATUS, AND PAPER SHEET HANDLING APPARATUS

(51) International classification	:B65H5/06, G07D7/00, G07D7/164
(31) Priority Document No	:2022-032201
(32) Priority Date	:02/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Viet NGUYEN
2)Yousuke MIURA

(57) Abstract :
In a paper sheet thickness detection apparatus, precision of thickness detection of paper sheets is enhanced by suppressing vibration that occurs due to impact at a time of the paper sheets rushing in between a reference roller and a detection roller while ensuring maintainability. A paper sheet thickness detection apparatus detecting a thickness of a paper sheet includes a first unit including a reference roller, and a second unit including a detection roller that sandwiches the paper sheet with the reference roller to convey the paper sheet and displaces with respect to the reference roller according to a thickness of the paper sheet, and a thickness sensor that detects the thickness of the paper sheet based on a displacement amount of the detection roller. The first unit and the second unit are superposed such that the reference roller and the detection roller sandwich the paper sheet to form a conveyance path for the paper sheet, and are assembled to be openable and closable with a rotation axis provided on one end side of the conveyance path as a center. The second unit includes a vibration damping member on the thickness sensor.

No. of Pages : 46 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202314009424 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DRIVING ASSISTANCE DEVICE FOR VEHICLE

(51) International classification	:B60W0010060000, B60W0030180000, G01N0035100000, B60W0050040000, B60L0050510000
(31) Priority Document No	:2022-022876
(32) Priority Date	:17/02/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Takafumi TSUNEKAWA

(57) Abstract :
An object of the present invention is to prevent unintended acceleration. A driving assistance device for a vehicle according to the present invention includes an abnormal acceleration element detection unit configured to detect whether an event that may cause unintended acceleration is occurring and a restriction unit configured to restrict a drive torque up amount when an execution condition gave priority to executing drive torque up by a drive torque up control priority unit is satisfied, and when it is detected by the abnormal acceleration element detection unit that the event that may cause the unintended acceleration is occurring. Selection Figure: FIG. 2

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314009426 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : DRIVING ASSISTANCE DEVICE, DRIVING ASSISTANCE METHOD, AND STORAGE MEDIUM

(51) International classification	:B60W10/184, B60W10/20, B60W30/09
(31) Priority Document No	:2022-048249
(32) Priority Date	:24/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)FUKUI, Yusuke
2)MORIYA, Takashi

(57) Abstract :
A driving assistance device (10) executes dual-side braking steering avoidance control for forcibly decelerating a target vehicle (100) by applying braking forces to wheels on both sides of the target vehicle (100) and forcibly turning the target vehicle (100) to swerve around an object (200) in a case where a turning amount increase request condition is not satisfied. When forcibly turning the target vehicle (100) rightward or leftward by collision avoidance control to swerve around the object (200) in a case where the turning amount increase request condition is satisfied, the driving assistance device (10) executes single-side braking steering avoidance control for forcibly decelerating the target vehicle (100) by applying a braking force only to a right or left wheel of the target vehicle (100) and forcibly turning the target vehicle (100) to swerve around the object. Selected Drawing:

No. of Pages : 56 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314009509 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : LENS ELEMENT, IMAGING LENS ASSEMBLY, CAMERA MODULE AND ELECTRONIC DEVICE

(51) International classification	:G02B1/04, G02B13/00, G02B3/04, G02B7/02, H04N23/55
(31) Priority Document No	:111107139
(32) Priority Date	:25/02/2022
(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 :**
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1)Chun-Hua TSAI
2)Lin-An CHANG

(57) Abstract :
A lens element (125) includes an optical effective portion (151), a peripheral portion (152) and protruding structures (153). The optical effective portion (151) includes a first optical surface (151a) and a second optical surface (151b), wherein the second optical surface (151b) and the first optical surface (151a) are disposed relative to each other. The peripheral portion (152) includes a first peripheral surface (152a), a second peripheral surface (152b) and an outer annular surface (152c). The outer annular surface (152c) is connected to the first peripheral surface (152a) and the second peripheral surface (152b). The protruding structures (153) are disposed on the first peripheral surface (152a), the protruding structures (153) extend along a spiral path and are disposed at intervals, and the spiral path surrounds the optical effective portion (151).

No. of Pages : 69 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314009511 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PRODUCTION MANAGEMENT DEVICE, PRODUCTION MANAGEMENT SYSTEM, PRODUCTION MANAGEMENT METHOD, AND STORAGE MEDIUM

(51) International classification	:G05B0019418000, H01L0021670000, G06Q0010060000, H05K0013020000, G06Q0050020000
(31) Priority Document No	:2022-046916
(32) Priority Date	:23/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)Hirotomo OSHIMA
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5)Takehiro KATO
6)Keisuke NISHIMURA
7)Yasuo NAMIOKA

(57) Abstract :
According to one embodiment, a production management device acquires a first short-term plan generated based on a first long-term p lan. The f irst l ong-term pl an is of a pl an of 5 production in a prescribed period. The first short-term plan is of a plan of production in a first period. T he device acquires first progress data of a progress in a task, and acquires first prediction data by using the first progress data. The first prediction data is of a prediction of a progress in the task. T he device revises the 10 first s hort-term pl an ba sed o n t he first p rediction d ata, a nd acquires second prediction data by using second progress data. The s econd pr ogress data is of a progress i n t he t ask. The second prediction da ta is of a p rediction of a p rogress of t he production i n t he prescribed p eriod. The device generates a second long-term plan in the prescribed period.

No. of Pages : 49 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314013149 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : REAR CARRIER FOR SADDLED VEHICLE

(51) International classification :B62J7/04
(31) Priority Document No :2022-053554
(32) Priority Date :29/03/2022
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) 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)Honda Motor Co., Ltd.
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(72)**Name of Inventor :**
1)YAMADA, Tsuyoshi

(57) Abstract :
Provided is a rear carrier that facilitates mass concentration when a carrier member movable in a front-rear direction is moved frontward. A rear carrier (30) for a saddled vehicle (1) includes a swing member (40) and a carrier member (31). The swing member (40) is supported by a grab rail (18) fixed to a rear portion of a vehicle body. The carrier member (31) is supported by the swing member (40). The swing member (40) is swingably supported on its one end side by the grab rail (18), and is swingably supported on its opposite side by the carrier member (31). Swinging of the swing member (40) enables the carrier member (31) to move between a front-side position and a rear-side position. When the carrier member (31) is set at the front-side position, the carrier member (31) is supported by a seat (20) of the saddled vehicle (1).

No. of Pages : 35 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013150 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTAKE SYSTEM

(51) International classification	:F02D0041000000, F02D0009100000, F01L0001352000, F02M0035100000, F02B0075220000
(31) Priority Document No	:2022-058056
(32) Priority Date	:31/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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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4)GOTO, Yoshikazu
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6)KANOE, Akihiro
7)KATO, Takeo

(57) Abstract :
An intake system of an internal combustion engine, in which a phase angle between throttle valves is provided in order to perform combustion appropriate for each cylinder so as to stabilize a number of revolutions and thereby suppress generation of unburned gas, is provided. The intake system is provided to intake passages of an internal combustion engine with parallel cylinders. The intake system includes a power transmission mechanism (41) configured to transmit power from a power source (40) to throttle shafts (12, 22) so as to synchronize and simultaneously turn a plurality of throttle valves (11, 21) and thereby open and close the intake passages. At least one of the throttle valves (11, 21) is an angled throttle valve (21) having a phase angle (θ) at an open position relative to the other throttle valve (11).

No. of Pages : 30 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013164 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONVOLUTE FOR A BELLOWS OF A GANGWAY AND BELLOWS OF A GANGWAY

(51) International classification	:G06T0011200000, B62D0015020000, H01M0010040000, B01D0046100000, G06F0009540000
(31) Priority Document No	:22275029.1
(32) Priority Date	:11/03/2022
(33) Name of priority country	:EPO
(86) International Application No	:NA
Filing Date	:NA
(87) 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)ALTON, Daniel
2)BRITTAIN, Daniel

(57) Abstract :
ABSTRACT CONVOLUTE FOR A BELLOWS OF A GANGWAY AND BELLOWS OF A GANGWAY Convolute (for a bellows of a gangway, the convolute comprising • a first rim and a second rim arranged next to the first rim, • a sheet like convolute material that extends from the first rim to the second rim, whereby in an operational position of the convolute, the convolute material takes up a trough-shaped form between the first rim and the second rim, • a drainage hole in the convolute material, • a closure to close the drainage hole, characterized by a drainage control band, whereby the closure forms part of the drainage control band or is attached to the drainage control band, whereby • a first band point of the drainage control band is attached to or rests on a first convolute point, whereby the first convolute point is located on the first rim or on the convolute material, but closer to the first rim than to the second rim, and • a second band point of the drainage control band is attached to or rests on a second convolute point, whereby the second convolute poin is located on the second rim or on the convolute material, but closer to the second rim than to the first rim, • whereby the length L1 of a minimum length band path, said minimum length band path being the path with the shortest length that can be taken from the first band point to the second band poin while always staying in contact with or leading through the drainage control band, is smaller than the length L2 of a minimum length convolute path, said minimum length convolute path being the path with the shortest length that can be taken from the first convolute point to the second convolute point while always staying in contact with or leading through the convolute material.

No. of Pages : 31 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013186 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTERNAL ARCHITECTURE OF A COMPUTING DEVICE

(51) International classification :G06F1/20, H05K1/02
(31) Priority Document No :17/653,634
(32) Priority Date :04/03/2022
(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)LAURENT, Kristopher P.
2)DEGNER, Brett W.
3)NIGEN, Jay S.
4)PRATHER, Eric R.
5)NARAJOWSKI, David H.

(57) Abstract :
ABSTRACT This application relates to a layout of components within an electronic device. The electronic device includes a circuit board and one or more thermal components located on or proximate to each surface of the circuit board. As a result, thermal energy generated by components of the circuit board are drawn away from the circuit board in a more efficient manner. Additionally, the electronic device may include one or more air movers designed to draw ambient air into the electronic device in a manner that causes the ambient air to cool components upstream from the air movers. Further, the electronic device includes a fin stack that is thermally coupled to the aforementioned thermal components, and further receives air driven in by the air mover(s). Also, the electronic device is designed to receive the ambient air through openings that define a 360-degree air inlet.

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202314009529 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENHANCEMENT OF PACKET BASED VOICE CALL SERVICE OVER SATELLITE LINK

(51) International classification	:H04B7/185, H04W72/21
(31) Priority Document No	:20225127
(32) Priority Date	:14/02/2022
(33) Name of priority country	:Finland
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)TAYLOE, Daniel
2)BRAUSCH, James
3)LI, Weidong
4)MCHARG, Christopher Gordon

(57) Abstract :
There are provided measures for enhancement of packet based voice call service over satellite link. Such measures exemplarily comprise receiving, from a communication endpoint, a message indicative of at least one voice data packet to be uploaded via a satellite link, determining a first number of voice data packets based on a second number of voice data packets predicted to accumulate until receipt of a first grant message at said communication endpoint, and transmitting, towards said communication endpoint, said first grant message, said first grant message being indicative of an upload scheduling grant for said first number of voice data packets.

No. of Pages : 74 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023

(21) Application No.202314009530 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HYBRID MIMO OVER MULTIPLE MULTI-ANTENNA SATELLITES

(51) International classification	:H01Q1/24, H01Q21/28, H04B7/0413, H04B7/185, H04B7/204
(31) Priority Document No	:20225136
(32) Priority Date	:16/02/2022
(33) Name of priority country	:Finland
(86) International Application No	:NA
Filing Date	:NA
(87) 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)WANG, Jerry
2)STRAULINO, Heiko

(57) Abstract :
Method comprising: receiving, by a first antenna, a first signal; receiving, by a second antenna, a second signal; forwarding a feeder signal to a base station, wherein the feeder signal is based on the first signal and the second signal, wherein a polarization angle of the second antenna is different from a polarization angle of the first antenna.

No. of Pages : 33 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202314009794 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WINDING DEVICE, WINDING SYSTEM, AND TEXTILE MACHINE

(51) International classification	:B65H0069060000, B65H0018260000, D01H0013140000, D01H0001244000, B65H0019300000
(31) Priority Document No	:2022-035177
(32) Priority Date	:08/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)Hidekazu CHIKADA

(57) Abstract :
An object of the present invention is to provide a winding device which is able to suppress the variation of contact 5 pressure while using the weight of a package as the contact pressure. When viewed in an axial direction of a rotation drum 40, each cradle arm 30 swings so that, as the diameter of a package Pw increases, a direction of an inclined straight 10 line L connecting a swing fulcrum U with a center V of a bobbin Bw supported by the cradle arm 30 gradually approaches a vertical direction. Furthermore, until the direction of the inclined straight line L becomes identical to the vertical direction after the start of 15 winding of a yarn, a contact point S between the rotation drum 40 and the bobbin Bw or wound package Pw is arranged to be within an angle which is more than 0 degrees and less than 45 degrees on the premise that a horizontal direction passing through a starting point which is a center C of the rotation drum 40 is defined as 0 degrees.

No. of Pages : 42 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202314009800 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WINDING DEVICE AND WINDING SYSTEM

(51) International classification	:B65H0018260000, H01M0010040000, B65H0019300000, B65H0069060000, B65H0018220000
(31) Priority Document No	:2022-035177
(32) Priority Date	:08/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
An object of the present invention is to suppress the 5 increase of height of a winding device. A winding device 21 includes cradle arms 30, a package storage unit 50, a stocker 60 including a first supporting surface 61, and a contact roller 40. The stocker 60 is provided on one side of a vertical plane F while the package 10 storage unit 50 is provided on the other side of the vertical plane F. The contact roller 40 is provided on one side of the vertical plane F, and the position of the contact roller 40 is lower than that of the stocker 60. In the vertical direction, the first supporting surface 61 is below an upper 15 end t1 of a virtual maximum circumferential surface of a wound package Pw supported by the cradle arms 30 at a release position. In the vertical direction, a rotational center 40a of the contact roller 40 is above a lower end t2 of the virtual maximum circumferential surface of the wound package Pw supported by the cradle arms 30 at the release position.

No. of Pages : 46 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314010275 A
(19) INDIA
(22) Date of filing of Application :15/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROL DEVICE AND SANITARY EQUIPMENT

(51) International classification	:F21V23/04, G01B7/16, H03K17/96
(31) Priority Document No	:202220324963.7
(32) Priority Date	:17/02/2022
(33) Name of priority country	:China
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Dewang Yao
2)Feipeng LV

(57) Abstract :
Disclosed are a control device and a sanitary equipment. The control device comprises: a back plate and an outer plate, the outer plate is provided with a deformation control area, a circuit board is arranged between the outer plate and the back plate, a controller and a pressure sensor in communication connection with the controller are arranged on the circuit board, and the pressure sensor is arranged behind the deformation control area. The pressure sensor is arranged in the deformation control area, so that the pressure sensor detects deformation of the deformation control area, thus realizing control by pressing. Since the deformation control area is arranged on the outer plate, etching a key on other parts of the sanitary equipment may be avoided, and damage to other parts may be avoided, thus saving costs. The pressure-sensitive key is waterproof and dustproof, and has a long service life.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013187 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STRUCTURAL AND THERMAL MANAGEMENT OF AN INTEGRATED CIRCUIT

(51) International classification	:G06F1/20, H01L23/40, H05K1/02, H05K7/20
(31) Priority Document No	:17/653,633
(32) Priority Date	:04/03/2022
(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

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2)DEGNER, Brett W.
3)HARDIKAR, Mahesh S.
4)LECLERC, Michael E.
5)PRATHER, Eric R.
6)RYAN, Kevin J.

(57) Abstract :
ABSTRACT This application relates to modifications and enhancements to assemblies used with integrated circuits. In the described embodiments, multiple thermal components (e.g., vapor chambers, fin stacks, heat pipes) can be used to provide a dual-sided thermal energy extraction solution for a circuit board and an integrated circuit located on the circuit board. The thermal components can provide thermal energy dissipation capabilities for additional heat-generating components on the circuit board. Additionally, multiple plates can provide a compression force used to maintain contact between the integrated circuit and the circuit board, and in particular, between contact pads of the integrated circuit and pins, or springs, of a socket located on the circuit board.

No. of Pages : 32 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314013220 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : YARN PROCESSING FACILITY

(51) International classification	:A61P0035000000, D02J0001080000, E21B0043360000, E21B0043160000, G06F0001160000
(31) Priority Document No	:2022-044524
(32) Priority Date	:18/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Norihiro NAGAI

(57) Abstract :
An object of the present invention is to make it easy to obtain information of an individual wound amount of a 5 yarn in each of in-production packages produced in a factory and/or information of a total wound amount of the packages, and to reduce the burden on an operator regarding the acquisition of the individual wound amount and/or the total wound amount. For each of spindles 9, an information 10 management unit 110 of a yarn processing facility 100 acquires individual wound amount inclusive information that takes into account of an individual wound amount indicating a wound amount of a yarn Y included in an in-production package PwM that is formed at a predetermined winding 15 information reference time or was formed at the winding information reference time as a wound package Pw. In addition to this or in place of this, the information management unit 110 obtains total wound amount inclusive information in which a total wound amount calculate by 20 adding up individual wound amounts of the spindles 9 is taken into account. Furthermore, the information management unit 110 causes a machine output unit 5b to output the obtained individual wound amount inclusive information and/or the obtained total wound amount inclusive information.

No. of Pages : 103 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314013221 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : YARN PROCESSING FACILITY

(51) International classification	:A61P0035000000, D02J0001080000, E21B0043360000, E21B0043160000, G06F0001160000
(31) Priority Document No	:2022-044527
(32) Priority Date	:18/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Norihiro NAGAI

(57) Abstract :
An object of the present invention is to make it easy to obtain information of an individual remaining amount of a yarn in 5 each of unwinding-in-progress packages used in a factory and/or information of a total remaining amount of the packages, and to reduce the burden on an operator regarding the acquisition of the individual remaining amount and/or the total remaining amount. For each of spindles 9, an information management unit 110 of a 10 yarn processing facility 100 acquires individual remaining amount inclusive information that takes into account of an individual remaining amount indicating a remaining amount of a yarn Y included in an unwinding-in-progress package from which, as a yarn supply package Ps, the yarn Y is being wound at a 15 predetermined yarn supply information reference time or the yarn was unwound at the yarn supply information reference time. In addition to this or in place of this, the information management unit 110 obtains total remaining amount inclusive information in which a total remaining amount calculate by adding up individual 20 remaining amounts of the spindles 9 is taken into account. Furthermore, the information management unit 110 causes a machine output unit 5b to output the obtained individual remaining amount inclusive information and/or the obtained total remaining amount inclusive information.

No. of Pages : 100 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/02/2023
(21) Application No.202314010276 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MOLDED SOLID SURFACES INCLUDING FERROUS MATERIAL

(51) International classification	:B29C45/00, B29C45/14, B29C45/16, B29C45/17, B29C45/26, B29C45/56, B29C45/73, B29C70/48
(31) Priority Document No	:63/311,633
(32) Priority Date	:18/02/2022
(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

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(72)**Name of Inventor :**
1)Kathryn L. Clouse
2)Mark Schibur
3)John O. Lipinski

(57) Abstract :
A method of manufacturing a molded solid surface includes mixing ferrous particles into a resinous material, injecting the resinous material including the ferrous particles into a mold, the mold including an upper mold half and a lower mold half, creating a predetermined pattern in the resinous material by applying a force to the ferrous particles in the resinous material toward a surface of the upper mold half or the lower mold half using one or more magnets, and curing the resinous material in the mold into the molded solid surface.

No. of Pages : 51 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202314010354 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SERVO-ASSISTED MECHANICAL TRANSMISSION AND METHOD TO CONTROL A SERVO-ASSISTED MECHANICAL TRANSMISSION PROVIDED WITH A SERVO-ASSISTED MECHANICAL GEARBOX

(51) International classification	:F16H0061300000, F16H0061688000, F16H0061020000, F16H0063300000, F16K0031060000
(31) Priority Document No	:102022000003086
(32) Priority Date	:18/02/2022
(33) Name of priority country	:Italy
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Fabrizio AMISANO
2)Francesco CONFALONE

(57) Abstract :
A servo-assisted mechanical transmission (4) is described provided with a servo-assisted mechanical gearbox (8) comprising a primary shaft (11) and a second shaft (12), which are mechanically connected to one another so as to define a number of forward gears (I, II, III, IV, V) and a reverse gear (R) and a hydraulic circuit (25) comprising: a tank (28) collecting oil at atmospheric pressure; a double-acting hydraulic actuator (14) to engage and disengage the gears (I, II, III, IV, V, R) comprising two first actuation chambers (19, 20), which are designed to be alternatively filled with oil under pressure and are separated by a first piston (21), which can mechanically slide along a first direction (A) and is connected to the servo-assisted mechanical gearbox (8); and a pair of solenoid valves (32, 33), namely a first proportional four-way solenoid valve (32), whose flow rate is controlled and which is coupled to the two first actuation chambers (19, 20) so as to connect the first actuation chambers (19, 20) to the tank (28), and a second three-way solenoid valve (33); and wherein the second three-way solenoid valve (33) is a pressure-controlled proportional valve, is connected in series to the first solenoid valve (32) and is designed to adjust the pressure with which oil is supplied to the first solenoid valve (32); wherein during the normal operation of the servo-assisted mechanical gearbox (8), when no gear shift is being carried out, the first solenoid valve (32) is disabled and no oil under pressure is supplied through the second solenoid valve (33), so as to isolate the engaging and disengaging hydraulic actuator (14) and, in case of fault or malfunction of the second solenoid valve (33), the first piston (21) slides along the first direction (A) in a way that is contrary to the reverse gear (R). Main figure: Figure 2

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023

(21) Application No.202314010388 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TRANSCRIPTION SYSTEM WITH CONTEXTUAL AUTOMATIC SPEECH RECOGNITION

(51) International classification	:G10L0015260000, G10L0015220000, G10L0015300000, G10L0015060000, H04M0003420000
(31) Priority Document No	:63/299,065
(32) Priority Date	:13/01/2022
(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)Dutta, Anir
2)Gill, Amritpal
3)Petrushina, Liliya
4)Peters, Nia

(57) Abstract :
An automated speech recognition (ASR) system with an audio processing engine and contextual transcription engine on a computing device is provided. The audio processing engine determines audio segmentation corresponding with multiple identified speakers of audio data. The contextual transcription engine generates a text file based on the audio data in a legally-formatted transcript using one or more AI/ML models. Embodiments of the ASR system provide provides results that will comply with most of the stenographic standards for legal transcription out of the box without further setup or tuning.

No. of Pages : 36 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202314010404 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AIR CLEANER

(51) International classification	:B62J40/00, F02M35/024, F02M35/10, F02M35/16
(31) Priority Document No	:2022-060508
(32) Priority Date	:31/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
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2)MAEDA, Tomonori

(57) Abstract :
An air cleaner for improving intake efficiency is provided. The air cleaner smoothly sends intake air, which is introduced from an outside air introduction pipe into an unpurified-air chamber, to an air cleaner element, and it effectively uses the whole surface of the air cleaner element. In the air cleaner, an inside of an air cleaner case 41 is partitioned into an unpurified-air chamber Ca and a purified-air chamber Cb by a partition wall 45, which includes an air cleaner element 44a. An unpurified-air chamber case 42 has an inlet 47a and includes an intake air guide 46 for directing a flow of outside air introduced into the air cleaner case 41, to the air cleaner element 44a. The intake air guide 46 has an intake air guide wall 46a for directing a flow of outside air introduced into the air cleaner case 41, to the air cleaner element 44a. The intake air guide wall 46a is disposed to form an obtuse angle relative to an element-facing wall surface 42a of the unpurified-air chamber case 42. A width w1 in an upper-lower direction of the intake air guide wall 46a is made greater than a width w2 in the upper-lower direction of the air cleaner element 44a. Thus, intake efficiency is improved.

No. of Pages : 32 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202314007886 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL ANCHOR

(51) International classification	:F16B0013000000, E04B0001410000, F16B0013120000, E02D0029020000, E21D0020000000
(31) Priority Document No	:22157790.1
(32) Priority Date	:21/02/2022
(33) Name of priority country	:EUROPEAN UNION
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Urs SPÄNI

(57) Abstract :
A wall anchor (1), comprises 5 an anchor plate (2) with a front face (3) and a rear face (4), a fixing portion (5) which protrudes from the front face (4) of the anchor plate (2), which extends along a centre axis (M) and has a threaded structure (6) for receiving an anchor bolt (7), and two hooks (8, 9) which protrude from the rear face (4) of the anchor plate (2), 10 wherein the hooks (8, 9) are configured such that the wall anchor (1) can be fixedly connected to a profile rail (18) by means of protrusions (21) of a profile rail (18), with respect to forces acting in the direction of the centre axis (M). -

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202314007893 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POWER CONVERSION APPARATUS

(51) International classification	:B60L53/20, B60L58/10, H02J3/00, H02J7/06, H02M1/12, H02M1/42, H02M7/12
(31) Priority Document No	:2022-063786
(32) Priority Date	:07/04/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)Satoshi ICHIDA
2)Kazuhiro SUGIMOTO
3)Manabu HANDA

(57) Abstract :
A power conversion apparatus (1) includes a transformer (40) including a first winding (41), a second winding (42), and a third winding (43), a first switching circuit (10) connected between an external power supply (2) and the first winding (41), a second switching circuit (20) connected between a main battery (3) and the second winding (42), and a third switching circuit (30) connected between an auxiliary battery (4) and the third winding (43). The first switching circuit (10) includes a power factor correction circuit (11), a smoothing capacitor (12) configured to smooth a voltage of direct-current power output from the power factor correction circuit (11), and a relay (14) provided in a power line between the smoothing capacitor (12) and the first winding (41).

No. of Pages : 21 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202314007894 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : YARN THREADING APPARATUS, FALSE-TWIST TEXTURING MACHINE, AND YARN THREADING METHOD

(51) International classification	:D02G0001020000, B65H0057000000, D02G0001080000, B65H0054880000, D02J0013000000
(31) Priority Document No	:2022-036243
(32) Priority Date	:09/03/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Takefumi SASAGAWA

(57) Abstract :
Formation of straight winding on a bobbin is prevented when yarn threading onto the bobbin is performed. A yarn threading apparatus 60 includes: a yarn threading arm 62 having a yarn engagement portion 62a; and a bunch guide 65. A yarn Y is disengaged from the yarn engagement portion 62a 10 on account of yarn threading to a hook 41a, when the yarn threading arm 62 is at a yarn threading position. The bunch guide 65 holds the yarn Y disengaged from the yarn engagement portion 62a to maintain the yarn Y at a bunch winding position x which is outside a traversal range of a bobbin 15 Bw. A control unit 64 causes a traverse guide 72 to move between a predetermined position which and the traversal range r. The bunch guide 65 is structured to cause the yarn Y held thereby to be caught by the traverse guide 72 moving from the predetermined position into the traversal range r and to be detached from the bunch guide 65.

No. of Pages : 71 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314008096 A
(19) INDIA
(22) Date of filing of Application :08/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEATING APPARATUS AND MANUFACTURING METHOD OF ELECTRODE GROUP

(51) International classification	:H01M4/04
(31) Priority Document No	:2022-025828
(32) Priority Date	:22/02/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Tomomichi Naka

(57) Abstract :
In an embodiment, a heating apparatus for heating an electrode group structure includes a chamber, a heat conduction plate, a temperature adjustment unit, a 5 pressure adjustment unit, and a controller. In a state where the heat conduction plate is in contact with the current collectors of a plurality of the electrode group structures in a heating room inside chamber, the heat conduction plate enables heat to be conducted to the 10 current collectors of the electrode group structures. The controller controls operation of the temperature adjustment unit and the pressure adjustment unit in a state where the heat conduction plate is in contact with the current collectors of the electrode group structures.

No. of Pages : 39 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314060001 A
(19) INDIA
(22) Date of filing of Application :06/09/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTERNAL COMBUSTION ENGINE AND STRADDLED VEHICLE

(51) International classification	:F02F0007000000, F01L0001180000, F01L0013000000, F01M0009100000, F02B0075120000
(31) Priority Document No	:2022-166674
(32) Priority Date	:18/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)Kenji AOYAGI
2)Kensuke YAMAMOTO

(57) Abstract :
There is disclosed an internal combustion engine (1) including a cylinder body (3); a cylinder head (4) connected with the cylinder body; a cylinder head cover (5) connected with the cylinder head; and a valvetrain provided in the cylinder head and the cylinder head cover;the internal combustion engine further including a nozzle (10) provided in the cylinder head cover and located so as to allow oil to be supplied to the valvetrain; the nozzle including a first nozzle portion (11) extending from a base end (10be) of the nozzle toward a tip end (10te) of the nozzle (10), and a second nozzle portion (12) extending from a tip end of the first nozzle portion (11) to the tip end of the nozzle (10) and having a cutout portion (12c), facing the valvetrain, formed as a result of the second nozzle portion (12) being partially cut out in the circumferential direction.

No. of Pages : 34 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202314010451 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIQUID GLASS FLOWING DEVICE FOR USE IN GLASS MANUFACTURING SYSTEM

(51) International classification	:C03B0017060000, H01L0033500000, C03B0003020000, C03B0007096000, C03B0007094000
(31) Priority Document No	:111108598
(32) Priority Date	:09/03/2022
(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

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2)AVANSTRATE TAIWAN INC.
(72)**Name of Inventor :**
1)ICHIKAWA, Manabu
2)CHEN, Chieh

(57) Abstract :
A liquid glass flowing device for use in a glass manufacturing system, comprising: a glass flowing portion extending in a flowing direction; a first gas transferring portion connected to the glass flowing portion and comprising: a first body portion connected to the glass flowing portion, wherein at least part of the first body portion is exposed from the glass flowing portion; a first diversion portion connected to the first body portion, disposed in the glass flowing portion, and extending in a first gas transferring direction; a first communication opening portion disposed at the first diversion portion and being in communication with the glass flowing portion; and a first outer opening portion disposed at the first body portion and outside the glass flowing portion; wherein a first angle is defined between the flowing direction and the first gas transferring direction. (FIG.2)

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314047926 A
(19) INDIA
(22) Date of filing of Application :17/07/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CYLINDER HEAD FOR INTERNAL COMBUSTION ENGINE

(51) International classification	:F02F0001400000, F02F0001240000, F02B0023100000, F02F0001420000, F02F0001360000
(31) Priority Document No	:2022-164207
(32) Priority Date	:12/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Takuya KANAI
2)Sho OKAMURA

(57) Abstract :
It is to provide a cylinder head for an internal combustion engine with a collective exhaust port, which enables an oil introduced into a valve train chamber to easily flow into an oil return hole to thereby improve the circulation of oil. [Solution] In a cylinder head 4, an upper wall 19a of an exhaust upper water jacket 19 is inclined such that a distance between a lower surface 4f of the cylinder head 4 and the upper wall 19a becomes larger as being farther away from combustion chamber ceiling walls 8A, 8B, and 8C toward an oil return hole 4c in a front-rear direction L2 intersecting with a cylinder bank direction L1. The cylinder head 4 includes a recess 23 formed on the upper wall 19a of the exhaust upper water jacket 19, the recess 23 being downwardly recessed and having a bottom surface 23a being substantially parallel to the lower surface 4f of the cylinder head 4, an oil return hole 4c being open at the bottom surface 23a. The bottom surface 23a extends from the oil return hole 4c toward the combustion chamber ceiling walls 8A, 8B, and 8C.

No. of Pages : 31 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314058468 A
(19) INDIA
(22) Date of filing of Application :31/08/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTROLUMINESCENT DISPLAY DEVICE

(51) International classification	:H01L0027320000, H01L0051520000, G06F0003041000, B66B0011040000, H01L0023000000
(31) Priority Document No	:10-2022-0133131
(32) Priority Date	:17/10/2022
(33) Name of priority country	:Republic of Korea
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Kang, MinJoo
2)Kim, SeongJun

(57) Abstract :
An electroluminescent display device (100) according to exemplary embodiments of the present disclosure includes a display part (DP) configured to display an image. Also, the electroluminescent display device (100) includes an encapsulation unit (FSPM) disposed over the display part (DP) and a heat dissipation sheet (160) disposed over the encapsulation unit (FSPM). The encapsulation unit (FSPM) includes a sealing member (130’, 130) composed of a first adhesive layer (131’, 131), a second adhesive layer (133), and a barrier layer (132) between the first adhesive layer (131’, 131) and the second adhesive layer (133). Further, the encapsulation unit (FSPM) includes a hole (H) in the second adhesive layer (133) and the barrier layer (132). A side surface of the barrier layer (132) may be electrically connected to the heat dissipation sheet (160) through a conductive paste (172) injected into the hole (H). Thus, it is possible to improve electromagnetic interference.

No. of Pages : 84 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/09/2023
(21) Application No.202314063480 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VEHICLE FRONT STRUCTURE

(51) International classification :B62D0025080000, B62D0021150000, B60S0001040000, B62D0025100000, B60R0021360000
(31) Priority Document No :2022-166465
(32) Priority Date :17/10/2022
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) 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)TSUJI, Atsuki

(57) Abstract :
To provide a vehicle front structure enabling a high level of protection of the colliding object by reducing the damage value to the colliding object when a crash occurs. A vehicle front portion 1 includes: a cowl top outer panel 8 arranged between a hood 2 and a windshield 4; a cowl upper panel 6 to which a wiper device 7 is fixed; and a cowl top panel 12 arranged therebetween and joined to the lower end portion of the windshield 4. The cowl top panel 12 extends from the lower end portion of the windshield 4, passes between the cowl top outer panel 8 and the cowl upper panel 6, is joined to a front side portion in the rear side portion 8C of the cowl top outer panel 8, and includes a first deformation inducing portion 12C extending in the vehicle width direction in a portion positioned midway along a vehicle front-and-rear direction. The first deformation inducing portion 12C has a concave cross section concave in a direction away from the rear side portion 8C of the cowl top outer panel 8.

No. of Pages : 39 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314067255 A
(19) INDIA
(22) Date of filing of Application :06/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRIC MOTOR DESIGNED AS AN EXTERNAL ROTOR AND WHEEL HUB DRIVE FOR A VEHICLE

(51) International classification	:B60K0007000000, H02K0001140000, H02K0021220000, H02K0003280000, F16D0065120000
(31) Priority Document No	:102022210701.2
(32) Priority Date	:11/10/2022
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)MEIER, Mischa
2)MAMUSCHKIN, Paul
3)LEPPERT, Philipp
4)FOERSTER, Felix

(57) Abstract :
The present subject matter relates to an electric motor (12) designed as an external rotor, which comprises a stator (15) arranged on a wheel hub (14) with at least one stator wire (21 to 23), wherein the at least one stator wire (21 to 23) forms electrical coils (28) in the circumferential direction around an axis (17) of the wheel hub (14), wherein the coils (28) are arranged at a first radial distance (R) from the axis (17) and are interconnected to form electrical phases (U, V, W) of the electric motor (12), and comprises a magnetic element (32) having rotor (30), which radially surrounds the electrical coils (28), and which is rotatably mounted on the wheel hub (14).

No. of Pages : 14 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/10/2023
(21) Application No.202314067331 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS FOR PRODUCING BRUSHWARE AND METHOD FOR OPERATING SUCH AN APPARATUS

(51) International classification	:A46B0015000000, A61B0017320000, A61B0018140000, A46D0001000000, B33Y0030000000
(31) Priority Document No	:10 2022 126 277.4
(32) Priority Date	:11/10/2022
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Philipp Goldmann
2)Mehmet Ermis
3)Oliver Krüger

(57) Abstract :
An apparatus (1) for producing brushware (2), in particular brushes, brooms and/or paintbrushes, comprising at least two tufting stations (3, 4) for tufting tufts of bristles (5) in 5 brushware bodies (6), wherein the tufting stations (3, 4) are arranged in a shared working space (7) of the apparatus (1), and wherein the apparatus (1), for at least one of the tufting stations (3, 4), comprises an individual protection devic~ (8, 9) designed to separate an access region (10, 11) that 10 comprises the tufting stations (3, 4) and is accessible to an operator (12) from the working· space (7) of the apparatus (1) .

No. of Pages : 37 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/10/2023
(21) Application No.202314067536 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : Lubricant Composition Containing Metal Alkanoate

(51) International classification :C10N0030000000, C10M0169040000, C10M0163000000, C10N0040250000, C10N0030080000
(31) Priority Document No :22200963.1
(32) Priority Date :11/10/2022
(33) Name of priority country :EPO
(86) International Application No :NA
Filing Date :NA
(87) 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)LEUNG, ALICE HEI MAN
3)CHAPPELL, BENJAMIN GRAHAM NEIL
4)DRIVER, MARK PETER

(57) Abstract :
Lubricant Composition Containing Metal Alkanoate This invention relates to a lubricating composition comprising or resulting from the admixing of: base oil, detergent, and one or more metal alkanoates having a quaternary carbon atom at the 2 position, the 2' position, or both the 2 and 2' positions, where the lubricating composition preferably has an adhesive wear of 100 hours or more, a foam volume of 70 ml or less at 24 °C, and 50 ml or less at 93.5 °C, and, optionally, a total base number of 7 mgKOH/g or more.

No. of Pages : 80 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/10/2023
(21) Application No.202314067538 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : Functionalized C4 to 5 Olefin Polymers and Lubricant Compositions Containing Such

(51) International classification :C08L0033100000, A61F0013150000, A61K0008810000, C08L0023080000, C08L0023120000
(31) Priority Document No :63/379006
(32) Priority Date :11/10/2022
(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

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3)CUI, JUN
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5)SHARMA, SANJEEV
6)WHEELER, JOSEPH
7)KLEIST, ROBERT A.
8)FOSTER, CARINA ELIZABETH

(57) Abstract :
This disclosure relates to functionalized polymers and compositions comprising such where the functionalized polymers comprise amide, imide, and/or ester functionalized partially or fully saturated polymer comprising C4-5 olefins having: i) an Mw/Mn of less than 2, ii) a Functionality Distribution (Fd) value of 3.5 or less, and iii) an Mn of 10,000 g/mol or more (GPC-PS) of the polymer prior to functionalization, provided that, if the polymer prior to functionalization is a copolymer of isoprene and butadiene, then the Mn of the copolymer is greater than 25,000 g/mol (GPC-PS).

No. of Pages : 115 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314067549 A
(19) INDIA
(22) Date of filing of Application :09/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONICALLY COMMUTATED ELECTRIC MOTOR IN EXTERNAL ROTOR DESIGN

(51) International classification	:H02K1/18, H02K1/2786, H02K11/30, H02K29/00
(31) Priority Document No	:102022210699.7
(32) Priority Date	:11/10/2022
(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

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1)MEIER, Mischa
2)MAMUSCHKIN, Paul
3)LEPPERT, Philipp
4)FOERSTER, Felix

(57) Abstract :
The present subject matter relates to an electronically commutated electric motor (10) in external rotor design, comprises a stator (14) arranged in a stationary manner on a hub (12), which has electrical coils (20), which are at least indirectly electrically connected to power lines (31; 31a; 31b; 31c; 31d to 33; 33a; 33b; 33c; 33d), and comprises a rotor (24), which radially surrounds the stator (14) and is rotatable about an axis (18) of the hub (12), wherein the rotor (24) has magnetic elements (26), which cooperate with the coils (20), wherein the hub (12) is designed as a hollow shaft (28), in the inner cross section (29) of which the power lines (31; 31a; 31b; 31c; 31d to 33; 33a; 33b; 33c; 33d) are arranged, wherein the hub (12) comprises at least one opening (36; 36a; 46) for forming an electrical connection between the power lines and the coils (20).

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/08/2023
(21) Application No.202314056867 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VEHICLE CONTROL APPARATUS

(51) International classification	:B60T0007220000, B60W0030090000, B60T0007120000, G08G0001160000, G01S0017931000
(31) Priority Document No	:2022-164231
(32) Priority Date	:12/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)AIZU Hiroshi

(57) Abstract :
An obstacle detection unit detects presence of an obstacle in a traveling direction of a vehicle, an automatic braking control unit performs automatic braking control that retains braking force of the vehicle until a predetermined timing after automatically generating the braking force when there is a possibility of the collision (time t1), and an engine torque suppression unit suppresses increase in engine torque in response to accelerator operation by the driver when the obstacle continues to exist after generation of the braking force. The automatic braking control unit release retention of the braking force when there is an operation on the accelerator by the driver after generation of the braking force, and set a timing for releasing retention of the braking force to a later timing in a case of implementing torque suppression (time t7) than in a case of not implementing the torque suppression (time t4). Figure 7

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/09/2023
(21) Application No.202314065761 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD TO CONTROL A FUEL INJECTION SYSTEM

(51) International classification :F02D0041000000, F02M0059460000, F02M0059060000, F02M0063020000, F02M0059440000
(31) Priority Document No :102022000020604
(32) Priority Date :06/10/2022
(33) Name of priority country :Italy
(86) International Application No :NA
Filing Date :NA
(87) 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)Riccardo MARIANELLO
3)Luca MANCINI
4)Stefano PETRECCHIA
5)Michele PETRONE

(57) Abstract :
A method to control a fuel injection system (1) for an internal combustion engine and provided with a fuel pump (4). The fuel pump (4) has: a pumping chamber (14); a piston (15) mounted so as to slide within the pumping chamber (14); an intake duct (17), which ends in the pumping chamber (14) and is provided with an intake valve (18); a delivery duct (19), which starts from the pumping chamber (14) and is provided with a delivery valve (20); and a flow rate adjustment device (6), which is coupled to the intake valve (18) and can be controlled so as to prevent the intake valve (18) from closing or allow it to close when a fuel pressure inside the pumping chamber (14) exceeds a fuel pressure in the intake duct (17). The control method presents the steps of: detecting when the internal combustion engine is stopped; and controlling, after the internal combustion engine has been stopped, the flow rate adjustment device (6) to allow the intake valve (18) to close. Main drawing: Figure 2

No. of Pages : 28 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314066135 A
(19) INDIA
(22) Date of filing of Application :03/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ROTARY ELECTRIC MACHINE

(51) International classification	:H02K1/00, H02K1/04, H02K1/06
(31) Priority Document No	:JP2022-163494
(32) Priority Date	:11/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)TAKEI, TOSHIHIRO
3)UMEDA, ATSUSHI
4)KUROZAKI, HIROTAKA

(57) Abstract :
A rotary electric machine (100) includes a rotor core (50) and a stator core (10). The rotor core includes a steel plate (501) laminated in an axial direction of a rotation shaft (C1) of a rotor (5). The stator core is provided outside an outer periphery of the rotor core and includes a steel plate (101) laminated in the axial direction. An average plate thickness of the steel plate of the stator core is smaller than an average plate thickness of the steel plate of the rotor core. In the steel plate of the stator core, a plate thickness of a portion (101a) between a predetermined position (P1) and a radially outer edge in a radial direction around the rotation axis is smaller than a plate thickness of a portion (101b) between the predetermined position and a radially inner edge in the radial direction.

No. of Pages : 30 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2023
(21) Application No.202314066211 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STRADDLED VEHICLE

(51) International classification	:F16H0061320000, F16H0003089000, F02D0041020000, B63H0020200000, F16H0063300000
(31) Priority Document No	:2022-160676
(32) Priority Date	:05/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Nobuaki OISHI

(57) Abstract :
ABSTRACT A straddled vehicle 1 can have a motor control unit with precautions against heat, the straddled vehicle being capable of shortening an electric cable connected to the motor control unit while achieving effective use of a space. The straddled vehicle 1 includes an actuator mechanism 14 including a clutch motor and/or a shift motor, a motor control unit 15, an electric cable, and a main harness. The motor control unit 15 is attached to a frame holding the main harness, such that a distance from a left-right center line to the motor control unit 15 is longer than a distance from the left-right center line to a motor control unit branch portion, and such that at least a part of the motor control unit is positioned further in a backward direction than a front fork 12 and further in a forward direction than the clutch motor and/or the shift motor. FIG. 1

No. of Pages : 27 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/10/2023
(21) Application No.202314067570 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENCLOSURE FOR ADVANCED PHYSICAL LAYER BASED END POINT FIELD DEVICE

(51) International classification	:H04N0005232000, H04L0012280000, G01S0019130000, H04B0001388800, G01S0019100000
(31) Priority Document No	:63/414,794
(32) Priority Date	:10/10/2022
(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)Mattar, Jeffrey
2)Bertolina, Mark

(57) Abstract :
Systems/methods for providing Ethernet-APL based end point field devices employ a protective enclosure that allows optical and radio frequency signals to pass through with little or no diffraction or attenuation. The disclosed Ethernet-APL based end point field device is advantageously able to use visual status/configuration indicators as well as radio frequency modules that transmit and receive wireless communication during device operation. To achieve the above, the Ethernet-APL based end point field device herein is provided with a protective enclosure that is made partly or entirely of a transparent, electrically nonconductive material. Such an arrangement allows operators to observe unaided the visual status/configuration indicators of the end point field device, and also allows radio frequency signals to pass through the enclosures with negligible or no attenuation.

No. of Pages : 36 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2023
(21) Application No.202314067802 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR USING MEMORY-MAPPED MEMORIES IN A MICROCONTROLLER-BASED INSTRUMENT

(51) International classification	:G06F0013420000, G06F0012060000, G06Q0020320000, G06F0003060000, G06F0011360000
(31) Priority Document No	:63/414,637
(32) Priority Date	:10/10/2022
(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

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(72)**Name of Inventor :**
1)Read, Brooks

(57) Abstract :
Systems and methods for using memory-mapped memories in a microcontroller-based instrument are provided herein. The method includes operating the microcontroller-based instrument using a complex application or protocol and operating a highly integrated, low-power microcontroller unit (MCU). The MCU is configured to use memory mapping for accessing at least one off-MCU memory connected to the MCU by at least one interface. The MCU's memory-mapping configuration enables the off-MCU memory(ies) to behave as an extension of at least one on-MCU memory that is connected directly to the CPU to effectively extend a range of the at least one on-MCU memory, wherein the effective extended range of the at least one on-MCU memory enables the microcontroller-based instrument to utilize the complex application or protocol. The method further includes writing addresses and/or data to and/or reading addresses and/or data from the off-MCU memory using serial transmission during a memory mapped transaction.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2023
(21) Application No.202314067803 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR IMPLEMENTING MACHINE LEARNING IN A LOCAL APL EDGE DEVICE WITH POWER CONSTRAINTS

(51) International classification	:G06N0020000000, G06N0003040000, G06N0003080000, G05B0019418000, G06N0005040000
(31) Priority Document No	:63/414,789
(32) Priority Date	:10/10/2022
(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

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2)Baskaran, Harikrishnan

(57) Abstract :
A method performed by an Advanced Physical Layer (APL)-based edge device with power constraints is provided. The method includes applying an event-driven framework that is compliant with power constraints of the APL-based edge device to receive input data; applying the event-driven framework to the input data to invoke a machine learning (ML) model that is trained to analyze the input data and make inferences about one or more aspects of an industrial system based on the input data, and applying the invoked machine learning model to analyze the input data and make an inference about the one or more aspects of the industrial system based on the input data. The input data is received by the APL-based edge device from one or more source field devices of the industrial system and/or the inference is used make a decision and cause an action to be applied to the industrial system.

No. of Pages : 50 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314067812 A
(19) INDIA
(22) Date of filing of Application :10/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : BOLTED-TYPE AIR FILTER, FILTRATION GAS PASSAGE STRUCTURE AND AIR COMPRESSOR

(51) International classification	:B01D0046000000, B01D0039160000, F02M0035024000, H01M0008040890, F02M0035104000
(31) Priority Document No	:CN202211240001.4
(32) Priority Date	:11/10/2022
(33) Name of priority country	:China
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Shaohua Ma

(57) Abstract :
The present invention relates to the technical field of air compressors, and provides a 5 bolted-type air filter, a filtration gas passage structure and an air compressor. The boltedtype air filter comprises: a bolted-type housing, comprising a threaded rod internally provided with a cavity, wherein a through hole in communication with the cavity is provided in a smooth section of the threaded rod; and a filter element, accommodated in the cavity, wherein a filtration chamber with an open end and a· closed end is provided in the filter 10 element, and the bolted-type air filter is provided with an air filtration passage leading from the filtration chamber through the filter element to the through hole. The bolted-type air filter of the present invention has both a fastening function and an air filtration function, and the bolted-type air filter is arranged in a gas passage of an air compressor, the gas passage specifically referring to a gas passage leading from a crankshaft chamber to an intake gas 15 storage chamber, which can not only realize the function of fixed connection, but also realize the filtration of an oil-gas mixture discharged from the crankshaft chamber, thereby ensuring the stability of the performance of the air compressor; moreover, the bolted-type air filter is simple in structure and small in size, and it is easy to machine and assemble and flexible to use. -

No. of Pages : 21 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :03/10/2023
(21) Application No.202314066219 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR CONTROLLING AIR FLOW OF AN ENGINE

(51) International classification	:G06N0020000000, F02D0041000000, F02M0026050000, F02D0041180000, F02M0026530000
(31) Priority Document No	:202211226285.1
(32) Priority Date	:09/10/2022
(33) Name of priority country	:China
(86) International Application No	:NA
Filing Date	:NA
(87) 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)JIAO, Bin
2)Wu, Jinwei
3)Liu, Jingguang

(57) Abstract :
ABSTRACT The present disclosure relates to methods and devices for controlling air flow of an engine. A method for controlling an air flow rate of an engine comprising: obtaining a set of parameters about an exhaust gas recirculation system; providing the set of parameters as feature data to a machine learning model (208, 508) to obtain an estimate of an intake air flow rate of the engine, wherein the machine learning model (208, 508) employs a regression algorithm; and, based on the intake air flow rate estimate, controlling the flow rate of exhaust gases into a combustion chamber (102, 304) of the engine such that exhaust pollutants produced by the engine exhaust pollutants produced by the engine to comply with predetermined emission limits.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2023
(21) Application No.202314066693 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYNCHRONIZING SYSTEM FOR TIME SYNCHRONIZATION REQUIRED FOR DATA TRANSCEIVER CONTROL

(51) International classification	:H04J0003060000, H04B0007185000, G01N0021359000, H02J0001100000, G06F0013160000
(31) Priority Document No	:111138020
(32) Priority Date	:06/10/2022
(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 :**
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(72)**Name of Inventor :**
1)LI, CHI-HUA
2)KUO, CHIH-PING

(57) Abstract :
A system includes a PLL (2), first and second network controllers (NCs) (3,5), a retimer (4) and a processor (8). The PLL (2) receives a local oscillator (LO) signal, generates and outputs a clock signal and a synchronizing signal. The retimer (4) and the first and second NCs (3,5) operate according to the clock signal. The first/second NC generates a first/second clock-event signal based on the synchronizing signal. The processor (8) generates a first/second PTP signal based on the first/second clock-event signal, and transmits the first/second PTP signal to the first/second NC. The second NC delivers the second PTP signal to first transceivers. The retimer (4) performs retiming on the first PTP signal, and delivers the same to second transceivers. In a master mode, the PLL (2) generates the synchronizing signal based on the LO signal and a reference time signal received from a global navigation satellite system.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314066750 A
(19) INDIA
(22) Date of filing of Application :05/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD OF HANDLING CONDITIONAL HANDOVER WITH CANDIDATE SECONDARY CELL GROUP, SOURCE MASTER NODE, AND USER EQUIPMENT

(51) International classification	:H04W0036000000, H04W0036080000, H04W0076150000, H04W0004029000, H04W0036360000
(31) Priority Document No	:63/413,971
(32) Priority Date	:07/10/2022
(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

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(72)**Name of Inventor :**
1)HUANG, NAI-LUN

(57) Abstract :
The disclosure is directed to a method of handling conditional handover with a candidate secondary cell group, SCG, a source master node, and a user equipment, which may be used to solve the above technical problems. The method includes: determining (S1110), by the source MN, a first execution condition of a first candidate primary cell, PCell; and receiving (S1120), by the source MN from a first candidate MN, a parameter of a second execution condition of a first candidate primary SCG cell, PSCell. FIG. 11

No. of Pages : 51 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2023
(21) Application No.202314066839 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : Defoamer Composition Based on Oil-In-Water Emulsions

(51) International classification :A61K0008060000, A61Q0019000000, A61K0008310000, A61K0008920000, A61K0047440000
(31) Priority Document No :PCT/CN2022/123790
(32) Priority Date :08/10/2022
(33) Name of priority country :PCT
(86) International Application No :NA
Filing Date :NA
(87) 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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1)SUN, Yi
2)HU, Yanling
3)NIEDBALLA, Jonas
4)MÜNSTER, Daniela
5)CHEN, Xuefang
6)LI, Gang
7)FAN, HaiYi
8)STRUCK, Susanne

(57) Abstract :
Abstract The present invention relates to a defoamer composition comprising I) an oil phase, II) a water phase, III) at least one O/W emulsifier, and IV) at least one W/O emulsifier as co-emulsifier wherein the amount of the water phase is 20 - 90 wt.%, preferably 60 - 85 wt.% based on the total weight of the composition, characterized in that the oil phase is an oil-in-oil emulsion comprising A) at least one or more vegetable oil as component A, B) at least one or more polyether ester as component B and C) at least one or more polyether-modified polysiloxane, and optional D) at least one or more hydrophobic particle as component D.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314066842 A
(19) INDIA
(22) Date of filing of Application :05/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : YARN WINDING APPARATUS

(51) International classification	:B65H0051220000, B65H0069060000, B65H0067080000, D04B0015480000, B41J0015040000
(31) Priority Document No	:2022-162566
(32) Priority Date	:07/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)Noriyoshi TAKESHIMA

(57) Abstract :
ABSTRACT A winder unit 2 includes a yarn feeding unit 6 configured to feed yarn Y, a yarn storage device 40 configured to store the yarn Y, a package forming unit 8 configured to wind the yarn Y to form a package 30, a yarn splicing device 14 configured to splice the yarn Y on the yarn feeding unit 6 side and the yarn Y on the yarn storage device 40 side, and a yarn guide unit 7 configured to guide the yarn Y between the yarn storage device 40 and the yarn splicing device 14. The yarn guide unit 7 includes a yarn ejection unit 60 configured to pull out the yarn Y and eject the same to the yarn feeding unit 6 side, a catching device 13 configured to catch the yarn Y ejected by the yarn ejection unit 60, a yarn guide pipe 80 configured to guide the yarn Y ejected from the yarn ejection unit 60 to the catching device 13, and a restriction lever 95 configured to restrict the yarn Y pulled out from the yarn guide pipe 80 from being guided to the yarn winding position. The winder unit 2 appropriately guides the yarn Y to the yarn winding position. Fig. 12

No. of Pages : 59 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013234 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HYDRAULIC ACTUATION SYSTEM, IN PARTICULAR FOR AN AUTOMATED MANUAL TRANSMISSION, PROVIDED WITH AN ANTI-DRIPPING ELEMENT

(51) International classification	:B05B0011000000, B60L0050600000, A47J0031440000, E21B0034100000, B67D0001080000
(31) Priority Document No	:102022000003917
(32) Priority Date	:02/03/2022
(33) Name of priority country	:Italy
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Francesco DE ROSSI

(57) Abstract :
ABSTRACT A hydraulic actuation system (1) for a powertrain system provided with an anti-dripping element (15) arranged in the area of a connection node connecting a control fluid delivery duct (3) to an actuator (4); wherein the delivery duct (3) is provided with a connection element (36) to establish a fluid-dynamic connection to the actuator (4) having an open end designed to accommodate an attachment element (37) of the actuator (4); the anti-dripping element (15) is arranged inside the housing (38) and is movable between an anti-dripping position (ADP), in which the anti-dripping element (15) prevents the control fluid from flowing inside the housing (38), and a work position (WP), in which it allows the control fluid to flow towards the housing (38), and vice versa. Main figure: figure 2

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202314013243 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : MOVING BODY, GROUND POWER FEED DEVICE, AND NON-TRANSITORY STORAGE MEDIUM

(51) International classification	:H01L0021670000, A61K0035630000, C03C0008000000, G06F0011140000, G09G0003000000
(31) Priority Document No	:2022-062985
(32) Priority Date	:05/04/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Daiki YOKOYAMA
2)Toshiya HASHIMOTO
3)Shuntaro OKAZAKI
4)Shogo TSUGE
5)Kazuhisa MATSUDA

(57) Abstract :
A moving body includes a power receiving device (31) configured to receive contactless power feed from a ground power feed device (2), and a control device (30). The control device (30) is configured to take a getting-off prevention measure for preventing an occupant from getting off the moving body when the moving body gets into a state of being difficult to move on an electrified road where the ground power feed device (2) is installed

No. of Pages : 35 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202314013282 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : OPEN ROOF CONSTRUCTION FOR A VEHICLE

(51) International classification	:B60J0007043000, B60J0007020000, B60J0010820000, B60J0007047000, B60J0010240000
(31) Priority Document No	:202210193254.4
(32) Priority Date	:01/03/2022
(33) Name of priority country	:China
(86) International Application No	:NA
Filing Date	:NA
(87) 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)AARTS, Hubertus Marcus Maria
2)HAMERS, Claudia Gerardus Maria
3)VAN PUTTEN, Dennis Silvester

(57) Abstract :
An open roof construction for a vehicle having an opening (2) in its fixed roof (1), comprises a stationary frame (4) which is configured to be fitted in the opening (2) of the fixed roof (1). At least a panel (3) is movably supported by the frame and is capable of at least partly opening and closing the opening (2) in the fixed roof (1) by tilting the panel with its rear edge up and down. A front support (8) for the panel comprises a pivoting axis (15) to allow the panel to tilt. At least one adjustable rear support (12) is provided for moving the rear edge of the panel. The front and rear supports are configured to enable an adjustment of the panel with respect to the front and rear supports in at least two substantially perpendicular directions (X, Y, Z).

No. of Pages : 21 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/09/2023
(21) Application No.202314062569 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SERVING DISH COVER

(51) International classification	:A61P0025240000, F16H0059100000, E05B0085100000, B66B0005000000, A61B0017720000
(31) Priority Document No	:17/961,503
(32) Priority Date	:06/10/2022
(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)Teo Sok Yee
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3)Arthur Lorré

(57) Abstract :
ABSTRACT A cover for serving dish includes a main body with a handle depression. A handle is mounted within the depression for oscillation between a storage position and a operative position. A detent pin on the handle interacts with detent holes in the handle depression to hold the handle in the storage and operative positions against unintended movement. Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202315009764 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PORTABLE COMMUNICATION DEVICE INCLUDING SEALING MEMBER

(51) International classification	:G06F1/16, G09F9/30, H04M1/02
(31) Priority Document No	:10-2019-0064725
(32) Priority Date	:31/05/2019
(33) Name of priority country	:Republic of Korea
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202014018233
Filed on	:28/04/2020

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5)Jingook KIM
6)Chijoon KIM
7)Hyosung LA
8)Suman LEE
9)Seungjoon LEE
10)Seungwhee CHOI
11)Junyoung CHOI

(57) Abstract :
A portable communication device (100) or electronic device is provided. The communication device includes a housing including a first housing structure (110), a second housing structure (120), and a hinge cover (165) positioned between at least a portion of the first housing structure (110) and at least a portion of the second housing structure (120), a flexible display at least partially received in the housing and including a first portion (131a) corresponding to the first housing structure (110), a second portion (131b) corresponding to the second housing structure (120), and a third portion corresponding to the hinge cover (165), a hinge structure (164a) positioned between the third portion of the flexible display and the hinge cover (165) and connected with the first housing structure (110) and the second housing structure (120), and at least one sealing member (183, 481a, 481b) positioned between the third portion of the flexible display and the hinge cover (165) and contacting the hinge cover (165).

No. of Pages : 71 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2023
(21) Application No.202314064465 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VALVE DEVICE

(51) International classification	:F01L0001344000, F02D0009020000, F16K0031040000, F16K0031530000, F16K0011070000
(31) Priority Document No	:2022-161432
(32) Priority Date	:06/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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1)SANEKATA Yuuhei
2)SUZUKI Keigo
3)TAGAYA Taiki

(57) Abstract :
A torsion coil spring 16 biasing and rotating a drive gear 15 of a valve device in one direction and defining a rotation position of a valve body when an electric motor is not operating is included, one end 16a of the torsion coil spring 16 is locked at any one of two locking portions 55 and 56 provided at the drive gear 15, the other end 16b is locked at a casing rotatably supporting the valve shaft 10, the drive gear 15 is a plate-shaped members including two locking portions 55 and 56 and formed linearly symmetrically, the locking portions 55 and 56 are formed into hook shapes including extending portions 65 extending in a direction away from an inner surface 60 of the drive gear 15 and distal end portions 66 projecting along the inner surface 60 from distal ends of the extending portions 65, and the drive gear 15 includes openings 67 at positions at which the openings 67 overlap the distal end portions 66 in a view in a direction of the axial line.

No. of Pages : 31 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2023
(21) Application No.202314064466 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VALVE DEVICE

(51) International classification	:B29C0045140000, G03G0015000000, G01D0005200000, G06F0003010000, F02D0009100000
(31) Priority Document No	:2022-161430
(32) Priority Date	:06/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)SANEKATA, Yuuhei
2)SUZUKI, Keigo

(57) Abstract :
In a valve device including: a plate-shaped drive gear 15 provided at an end of a valve shaft 10 made of metal; and, at the drive gear 15, a detection target 21 of an inductive sensor detecting a rotation angle of the valve shaft 10, the drive gear 15 has a lever member 33 made of metal and integrated through insert molding in a state in which a part thereof is exposed in the inner surface, the detection target 21 is integrated along with the lever member 33 through the insert molding on a side of the outer surface of the drive gear 15, and an exposure portion 38 of the lever member 33 at the drive gear 15 including the lever member 33 and the detection target 21 and the end of the valve shaft 10 are caused to abut each other, and a rear side of the abutting part is laser-welded from the side of an outer hole 39 and is fixed thereby to configure a shaft unit.

No. of Pages : 23 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :26/09/2023
(21) Application No.202314064531 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VALVE DEVICE

(51) International classification	:A01K0089000000, B23K0009120000, G03G0015000000, B23K0101060000, F01L0001053000
(31) Priority Document No	:2022-161431
(32) Priority Date	:06/10/2022
(33) Name of priority country	:Japan
(86) International Application No	:NA
Filing Date	:NA
(87) 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)SUZUKI, Keigo

(57) Abstract :
A valve device includes a drive gear 15 made of a resin at one end of the valve shaft and includes a detection target 21 of an inductive sensor in the drive gear 15, the drive gear 15 includes a lever member 33 made of metal and integrated along with the detection target 21 through insert molding in a state where a center portion is exposed in one side surface, an exposure portion 38 of the lever member 33 in the drive gear and the end of the valve shaft 10 are caused to abut each other and rear surfaces of the abutting portions are fixed through laser welding through the outer hole 39 to configure a valve shaft unit 30, and the lever member 33 is provided with an arc hole 52 extending in a circumferential direction on a radially outer side of the position of the welding with the end of the valve shaft.

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202317007718 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADDITIVE FOR REDUCING POLYURETHANE FOAM DEGRADATION

(51) International classification :C08G 18/18, C08G 18/30, C08G 18/76, C08G 18/32, C08G 18/48
(31) Priority Document No :20191153.4
(32) Priority Date :14/08/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/072419
Filing Date :11/08/2021
(87) International Publication No :WO 2022/034151
(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)DERIKS, Dion
3)GEERS, Wouter
4)HUMBERT, Heiko, Heinrich
5)DRIES, Geert, Lodewijk
6)VANDERSTRAETEN, Petra, Emma

(57) Abstract :
The present disclosure relates to sulfonic acid esters for use as additives in a polyurethane formulation. The polyurethane formulation further includes a compound containing an isocyanate functional group, an active hydrogen-containing compound and a reactive amine catalyst.

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317007719 A
(19) INDIA
(22) Date of filing of Application :07/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC DEVICE

(51) International classification :H04M 1/02
(31) Priority Document No :202010646345.X
(32) Priority Date :07/07/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/104012
Filing Date :01/07/2021
(87) International Publication No :WO 2022/007703
(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, Shuitong

(57) Abstract :
An electronic device is disclosed. The electronic device comprises a first main body, a second main body, a loudspeaker module and a connecting pipe, wherein the two main bodies can rotate relative to each other to a folding state or an unfolding state relative; a first cavity and the loudspeaker module are arranged in the first main body, and are in communication with each other; a second cavity is arranged in the second main body; the connecting pipe is arranged at a rotational joint of the first main body and the second main body, and two ends of the connecting pipe are in communication with the first cavity and the second cavity, respectively; the first cavity, the connecting pipe and the second cavity together form a rear sound cavity of the loudspeaker module, and the connecting pipe is telescopic; and the connecting pipe is in a stretched state when the two main bodies rotate relative to each other to the folding state, and is in a compressed state when the two main bodies rotate relative to each other to the unfolding state.

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023

(21) Application No.202314068124 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ZIPPER ASSEMBLY LOOP END ATTACHMENT FOR A LUGGAGE CASE

(51) International classification	:A45C0005140000, A44B0019340000, A45C0013100000, A63G0021220000, A45C0007000000
(31) Priority Document No	:22200909.4
(32) Priority Date	:11/10/2022
(33) Name of priority country	:EPO
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Samsonite IP Holdings S.à r.l.
Address of Applicant :13-15 avenue de la Liberté, L-1931 Luxembourg, Luxembourg Luxembourg
(72)**Name of Inventor :**
1)MEERSSCHAERT, Reinhard

(57) Abstract :
A luggage case (102) including a zipper loop (380) mounted thereon, the luggage case (102) including a first zip member (144) having an elongated first tape member (148) with first zipper teeth (158) extending along an edge (150), the first zip member (144) having first (382) and second (384) opposing ends, the first zip member (460) attached along a first rim portion (132) of a first shell (116); a second zip member (146) having an elongated second tape member (148) with second zipper teeth (158) extending along an edge (150), the second zip member (146) having third (382) and fourth (384) opposing ends, the second zip member (146) attached along a second rim (134) portion of a second shell (118), and wherein the first zip member (144) and the second zip member (146) include substantially the same number of zipper teeth (158); the first zip member (144) and the second zip member (148) are attached together by engaging the first and second zipper teeth (158), with the first opposing end (382) laterally adjacent the third opposing end (382), and the second opposing end (384) laterally adjacent the fourth opposing end (384); the first opposing end (382) attached to the second opposing end (384) by a first joining member (390); and the third opposing end (382) attached to the fourth opposing end (384) by a second joining member (391).

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023
(21) Application No.202314068223 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INJECTION MOLDED LUGGAGE CASE WITH INTEGRATED ZIPPER ASSEMBLY

(51) International classification	:A45C0005140000, A61F0013551000, B29C0045170000, A44B0019320000, A44B0019260000	(71)**Name of Applicant :** **1)Samsonite IP Holdings S.à r.l.** Address of Applicant :13-15 avenue de la Liberté, L-1931 Luxembourg, Luxembourg Luxembourg
(31) Priority Document No	:22200910.2	(72)**Name of Inventor :** **1)MEERSSCHAERT, Reinhard**
(32) Priority Date	:11/10/2022	
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 luggage case (102, 102’) including an injection molded luggage shell (116, 118, 116’, 118’) including a zipper assembly (130, 130’) attached to the luggage case (102, 102’) during the injection molding of each shell (116, 118, 116’, 118’). The injection molded shell (116, 118, 116’, 118’) having a rim portion (132, 134, 132’, 134’, 145) and having opposing inside (140, 140’) and outside (142, 142’) surfaces. An elongated zip member (144, 146, 144’, 146’) including a tape member (148, 148’) having opposing first (154, 154’) and second (156, 156’) surfaces, and opposing inner (150, 150’) and outer (152, 152’) edges defining a width, with teeth (158, 158’) positioned along the inner edge (150, 150’), and defining a length. One opposing surface (154, 156, 154’, 156’) of at least part of a first portion (160, 160’) of the first tape member (148, 148’) is in-mould-bonded to at least one opposing surface (140, 142, 140’, 142’) of the rim portion (132, 134, 132’, 134’, 145).

No. of Pages : 82 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317008023 A
(19) INDIA
(22) Date of filing of Application :08/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADHESIVE POLYETHYLENE COMPOSITION

(51) International classification	:C09J 151/06, C08L 51/06, C08F 210/16, B32B 27/32, B32B 1/08	(71)**Name of Applicant :** **1)BOREALIS AG** Address of Applicant :Trabrennstrasse 6-8 1020 Vienna Austria
(31) Priority Document No	:20185434.6	(72)**Name of Inventor :**
(32) Priority Date	:13/07/2020	**1)KLIMKE, Katja**
(33) Name of priority country	:EPO	**2)JAMIESON, John**
(86) International Application No	:PCT/EP2021/068984	**3)RUSKEENIEMI, Jari-Jussi**
Filing Date	:08/07/2021	**4)PRADES, Floran**
(87) International Publication No	:WO 2022/013055	**5)AJELLAL, Noureddine**
(61) Patent of Addition to Application Number	:NA	**6)SUNDHOLM, Tua**
Filing Date	:NA	**7)PURMONEN, Jouni**
		8)LEGRAS, Angelica
(62) Divisional to Application Number	:NA	**9)ALBRECHT, Andreas**
Filing Date	:NA	

(57) Abstract :
The present invention relates to an adhesive polyethylene composition comprising (A) from 60 to 90 wt% of a non-elastomeric polyethylene being a terpolymer of ethylene with two different alpha-olefin comonomer units selected from alpha-olefins having from 4 to 12 carbon atoms; (B) from 9.0 to 38 wt% of an elastomer; wherein onto component (A) or components (A) and (B) an acid grafting agent (C) has been grafted in an amount of from 0.01 to 3.0 wt%, all based on the total weight of the adhesive polyethylene composition, a multi-layer structure comprising said adhesive polyethylene composition and the use of said adhesive polyethylene composition for the production of a multi-layer structure.

No. of Pages : 69 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023
(21) Application No.202317008160 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TRIGGER PUMP DISPENSER

(51) International classification :B05B 11/00
(31) Priority Document No :2011946.7
(32) Priority Date :31/07/2020
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2021/071510
Filing Date :31/07/2021
(87) International Publication No :WO 2022/023579
(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)SCHMIDT, Patrick
2)WILHELMS, Christian
3)NATERSKY, Klaus

(57) Abstract :
A trigger pump dispenser (10) comprising: a body (20); an outlet nozzle (35); a pump chamber (190); a piston (25) for defining a variable volume in the pump chamber (190) and movable between a retracted position of larger chamber volume and an inserted position of lesser chamber volume; a trigger (60) coupled with the piston (25) and movable from a starting position at which the piston (25) is in the retracted position and a depressed position at which the piston (25) is in the inserted position; biasing means (65a, 65b) is provided for biasing the trigger (60) towards its retracted position.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023
(21) Application No.202317008161 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS FOR SEPARATING COMPONENTS OF A SUSPENSION

(51) International classification	:B03B 5/32, B04B 1/02, B04B 5/10, B04C 11/02
(31) Priority Document No	:2011286.8
(32) Priority Date	:21/07/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2021/070296
Filing Date	:20/07/2021
(87) International Publication No	:WO 2022/018097
(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)MELLING, Gerard

(57) Abstract :
The invention provides an apparatus for separating components of a fluid stream, the apparatus comprising: • (a) a support structure on which is mounted a rotatable centrifugal separator chamber (102) in which separation of the components of the fluid stream occurs; • (b) a fluid inlet (104a) for introducing a pressurised source of the fluid stream to be separated into the centrifugal separator chamber (102); • (c) a fluid outlet (106a) for collecting one or more separated components of the fluid stream; • (d) a vortex-creating device (126) which rotates in order to introduce a vortex to the fluid stream in the centrifugal separation chamber (102) thereby to bring about centrifugal separation of the components of the fluid stream; and wherein the centrifugal separator chamber (102) and vortex- creating device (126) are configured to rotate independently of each other. The invention also provides a method for separating components of a suspension, the method comprising passing the suspension through an apparatus as described herein.

No. of Pages : 39 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023
(21) Application No.202317008165 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RECOMBINANT VACCINIA VIRUS

(51) International classification	:C12N 15/50, A61K 35/76, A61K 39/215, A61K 48/00, A61P 31/14
(31) Priority Document No	:2020-130717
(32) Priority Date	:31/07/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/029240
Filing Date	:30/07/2021
(87) International Publication No	:WO 2022/025298
(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)KOHARA, Michinori
2)YASUI, Fumihiko
3)ITOH, Yasushi
4)ISHII, Koji

(57) Abstract :
Provided are a recombinant vaccinia virus, which is a clinically usable preventive vaccine for COVID-19 (a vaccine for SARS-CoV-2), etc. The recombinant vaccinia virus according to the present invention is characterized by comprising all or part of a cDNA, said cDNA encoding a non-structural protein or a structural protein derived from SARS-CoV-2, and an expression promoter.

No. of Pages : 21 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023
(21) Application No.202317008172 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WATER REPELLENT COMPOSITIONS

(51) International classification	:C09D 1/00, C09D 7/61, C09D 7/40, C09D 15/00
(31) Priority Document No	:2011692.7
(32) Priority Date	:28/07/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2021/070897
Filing Date	:26/07/2021
(87) International Publication No	:WO 2022/023288
(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)XU, Yingqian
2)ATTFIELD, Mike
3)CHOUDHERY, Riaz

(57) Abstract :
A method of increasing water repellency of an organic porous substrate, such as wood, is provided. The method comprises applying a dispersion of inorganic nanoparticles in a liquid carrier onto a surface of the substrate. The liquid carrier is selected to evaporate substantially entirely at room temperature. For example, the liquid carrier may be selected so that at least 95% of the liquid carrier will evaporate at room temperature, preferably in a 24 hour period following application to the substrate surface.

No. of Pages : 23 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/02/2023
(21) Application No.202317008179 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLT3 LIGAND FUSION PROTEINS AND METHODS OF USE

(51) International classification :C07K 14/705, A61P 35/00, C07K 19/00
(31) Priority Document No :63/062713
(32) Priority Date :07/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/044586
Filing Date :05/08/2021
(87) International Publication No :WO 2022/031876
(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)LIU, Yichin
2)MOUSSION, Christine Carine
3)BAINBRIDGE, Travis William
4)HOSSEINI, Iraj
5)LAZAR, Gregory Alan
6)COHEN, Sivan
7)KEMBALL, Christopher Charles
8)SCHARTNER, Jill M.

(57) Abstract :
The invention provides an effectorless immunoglobulin Fc protein, fusions of the effectorless Fc protein to a Flt3 ligand, and methods of using the same.

No. of Pages : 53 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317008285 A
(19) INDIA
(22) Date of filing of Application :09/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : MEASUREMENT DEVICE FOR MEASURING OPERATION CURRENT AND FAULT CURRENT OF CIRCUIT BREAKER BY USING SINGLE ROGOWSKI COIL

(51) International classification	:G01R 31/327, G01R 15/18, H01F 27/30
(31) Priority Document No	:10-2021-0156099
(32) Priority Date	:12/11/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/017225
Filing Date	:23/11/2021
(87) International Publication No	:WO 2023/085485
(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)AHN, Hyun Mo
2)KIM, Joong Kyoung
3)CHUNG, Young Hwan

(57) Abstract :
The present invention relates to a measurement device for measuring an operation current and a fault current of a circuit breaker by using a single Rogowski coil, capable of simultaneously measuring the operation current and the fault current with the single Rogowski coil, to thereby reduce an installation space and manufacturing costs, and improve reliability by satisfying the accuracy required for measurements of the operation current and the fault current at the same time. The measurement device for measuring an operation current and a fault current of a circuit breaker by using a single Rogowski coil, comprises: a Rogowski coil installed to surround a conductor in which a current flows; a protection circuit outputting a fault voltage on the basis of a voltage generated from a tap installed in part of the Rogowski coil; and a measurement circuit outputting an operation voltage on the basis of a voltage generated in the entire coil of the Rogowski coil.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317007847 A
(19) INDIA
(22) Date of filing of Application :07/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : FILTER PLATE HANDLE AND FILTER PLATE OF FILTER PRESS

(51) International classification :B01D 25/12
(31) Priority Document No :202210534975.7
(32) Priority Date :17/05/2022
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/121997
Filing Date :28/09/2022
(87) International Publication No :WO 2023/221362
(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)YANG, Mingjie
2)LIU, Guozhi
3)ZHANG, Xuegang
4)WANG, Xin

(57) Abstract :
A filter plate handle. A plug-on shaft (2) extends out of plate surfaces on two sides of a fixed plate (1), and the plug-on shaft (2) is fixedly connected to the fixed plate (1). Parts extending from the plate surfaces on the two sides of the fixed plate (1) are respectively a first section and a second section. The first section of the plug-on shaft (2) can be connected to an insertion hole of a filter plate by means of interference insertion, thereby ensuring accurate alignment assembly with the filter plate. The second section of the plug-on shaft (2) is provided with a wear-resistant block (3). The wear-resistant block (3) is adapted to come into contact with a main beam, and the wear-resistant block (3) provides sliding support. The fixed plate (1) is provided with at least two bolt holes, and is fixedly connected to the filter plate by means of at least two bolts, thereby further realizing reinforcement. According to the filter plate handle, the first fixation is implemented by means of the interference connection between the first section of the plug-on shaft (2) and the filter plate, and the second fixation is implemented by means of the bolts. Moreover, the plug-on shaft (2) is in interference fit with the filter plate, thereby ensuring accurate alignment installation of handles on two sides of the filter plate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023

(21) Application No.202317009297 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DOWNLINK ASSIGNMENT INDEX OPERATION FOR CONTROL CHANNEL REPETITION

(51) International classification :H04L 1/18, H04L 1/08
(31) Priority Document No :63/198481
(32) Priority Date :21/10/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/071943
Filing Date :20/10/2021
(87) International Publication No :WO 2022/087598
(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)KHOSHNEVISAN, Mostafa
2)ZHANG, Xiaoxia
3)SUN, Jing

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may monitor a first control channel candidate for first downlink control information (DCI) scheduling a data channel and a second control channel candidate for second DCI scheduling the data channel, wherein the first control channel candidate and the second control channel candidate are associated with a control channel repetition scheme. The UE may transmit a feedback codebook regarding the data channel based at least in part on monitoring the first control channel candidate and the second control channel candidate, wherein the feedback codebook includes one of: a single position corresponding to the data channel, or a first position corresponding to the first DCI on the first control channel candidate and a second position corresponding to the second DCI on the second control channel candidate. Numerous other aspects are provided.

No. of Pages : 40 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009366 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR IMPLEMENTING BRUSHLESS DIRECT CURRENT MOTOR HALL POSITION SENSOR FAULT PROCESSING

(51) International classification :H02P 6/12, H02P 6/16
(31) Priority Document No :202011609195.1
(32) Priority Date :30/12/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/104247
Filing Date :02/07/2021
(87) International Publication No :WO 2022/142232
(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, Sang
2)ZHAO, Xudong
3)ZHANG, Zhengrui

(57) Abstract :
A method for implementing brushless direct current motor Hall position sensor fault processing, comprising: detecting a Hall signal by using an edge detection means, and recording the number of edge jumps; determining whether the absolute value of the difference between a position change of a rotor represented by a Hall and an angle value calculated inside of an MCU is within a preset error range, if so, then updating the angle value inside of the MCU as an angle represented by a rotor position as detected by the Hall, otherwise, incrementing the angle value inside of the MCU according to an angle increment calculated from the rotational speed of a motor; and obtaining an acceptable range according to a last raw angle increment value. A method for implementing brushless direct current motor Hall position sensor fault processing is employed, and an internal degree recording angle is designed. Compared with a means of using a timer alone, in which the size of the count is different when the speed is fast and slow and the position of a motor rotor cannot be intuitively understood, the motor is commutated according to a degree angle value, and the current position of the motor may thus be clearly understood.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/02/2023
(21) Application No.202317008514 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHARMACEUTICAL FORMULATION COMPRISING A COMBINATION OF RECOMBINANT NEWCASTLE DISEASE VIRUSES FOR THE TREATMENT OF CANCER

(51) International classification	:A61K 35/768, C12N 15/86, C07K 14/005, A61K 39/395
(31) Priority Document No	:20187938.4
(32) Priority Date	:27/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/070336
Filing Date	:21/07/2021
(87) International Publication No	:WO 2022/023134
(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)THALLER, Gudrun Kvetoslava
4)WEIS, Milena Mechthild
5)NERLICH, Linda Libuska
6)THALLER-HONOLD, Svetlana
(72)**Name of Inventor : NA**
Address of Inventor : NA

(57) Abstract :
The invention relates to a pharmaceutical formulation comprising at least three recombinant transgene expressing Newcastle Disease Virus (NDV) strains, which have been demonstrated to possess significant oncolytic activity against mammalian cancers and an improved safety profile, a non-recombinant NDV strain, a reovirus type-3 and optionally a vaccinia virus. At least one of the recombinant NDV strains comprises in its viral genome a nucleic acid sequence comprising at least one foreign gene, the at least one foreign gene encoding a checkpoint modulator, and at least one of the recombinant NDV strains comprises in its viral genome a nucleic acid sequence comprising at least one foreign gene, the at least one foreign gene encoding an angiogenesis inhibitor. The viral genome of each of the at least three recombinant NDV strains comprises a mutation in the HN gene, said mutation allowing replication of said rgNDV in a cancer cell to a higher level than replication of an otherwise identical NDV not having said mutation in the HN gene. The pharmaceutical formulation provides an improved treatment of cancer, because instead of a monotherapy, a mixture of oncolytic viruses is applied.

No. of Pages : 97 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009714 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ABNORMALITY DETERMINATION DEVICE, ABNORMALITY DETERMINATION METHOD, AND PROGRAM

(51) International classification	:G01M 99/00, H02P 29/024
(31) Priority Document No	:2020-131881
(32) Priority Date	:03/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/028861
Filing Date	:03/08/2021
(87) International Publication No	:WO 2022/030516
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Provided is a technology capable of more appropriately determining an abnormality in a mechanical element of a rotating machine. A control device 40 according to one embodiment of the present disclosure includes an abnormality determination unit 403 which determines an abnormality in a mechanical element of a compressor 10 electrically driven by an electric motor 20, on the basis of an electric feature amount of the compressor 10. The electrical feature amount is a specific frequency component of a signal indicating a physical quantity which correlates with the current of the electric motor 20 which drives the compressor 10. The specific frequency component is a component of a predetermined positive integer multiple of the rotation frequency of the compressor 10. The abnormality determination unit 403 determines an abnormality in the mechanical element of the compressor 10, in consideration of a change in the relationship between the abnormality in the mechanical element and the electrical feature amount of the compressor 10 (electric motor 20) due to a change in the rotation frequency of the compressor 10.

No. of Pages : 76 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009717 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TERMINAL DEVICE, BASE STATION DEVICE, AND COMMUNICATION METHOD

(51) International classification :H04L 27/26, H04W 48/16, H04W 74/08
(31) Priority Document No :2020-132956
(32) Priority Date :05/08/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/028747
Filing Date :03/08/2021
(87) International Publication No :WO 2022/030479
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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5)OUCHI, Wataru
6)LIN, Huifa
7)FUKUI, Takahisa

(57) Abstract :
According to the present invention, for the nth SS/PBCH block for a PRACH occasion, the index of a contention-based random access preamble used in a first random access procedure is selected from (n-1) * Ntotal/N to index (n-1) * Ntotal/N + R-1, second RACH configuration information includes at least information indicating a second number Rx of the contention-based random access preamble and a first value Sx allocated per SS/PBCH block in one PRACH occasion, and for the nth SS/PBCH block for the PRACH occasion, the index of the contention-based random access preamble used in a second random access procedure is selected from (n-1) * Ntotal/N + Sx to index (n-1) * Ntotal/N + Sx + Rx-1.

No. of Pages : 65 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009728 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : GENERATION DEVICE

(51) International classification :C02F 1/461
(31) Priority Document No :2021-214707
(32) Priority Date :28/12/2021
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2022/040134
Filing Date :27/10/2022
(87) International Publication No :WO 2023/127265
(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)UCHIUMI Hiroshi

(57) Abstract :
Provided is a generation device capable of limiting damage to a cathode-side diaphragm and/or an anode-side diaphragm. A generation device (1) comprises: electrolytic cell (5) having chambers (6), (7), (8) partitioned via a cathode-side diaphragm (11) and an anode-side diaphragm (12); and a diaphragm protecting structure (75) that limits damage to the cathode-side diaphragm (11) and/or the anode-side diaphragm (12). The electrolytic cell (5) has: paired cover members (41) each including a recessed part (51) that defines a cathode chamber (6) and an anode chamber (7); a partition wall (42) that includes an opening part (61) defining an intermediate chamber (8) and is sandwiched between the cover members (41) via a cathode (13), an anode (14), the cathode-side diaphragm (11), and the anode-side diaphragm (12); and seal members (43), (44) water-tightly closing the gap between the cover members (41) and the partition wall (42). The diaphragm protecting structure (75) includes a protruding part formed such that the protruding part protrudes from the seal members (43), (44) toward the inside of the chambers (6), (7), (8) beyond the edge of the recessed part (51) or the edge of the opening part (61).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009367 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITIONS THAT REDUCE PEROXIDE OFF TASTE AND USES THEREOF

(51) International classification	:A23L 27/30, A23L 2/56, A23L 2/60, A23L 27/00, A61K 8/49
(31) Priority Document No	:63/118966
(32) Priority Date	:29/11/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2021/083031
Filing Date	:25/11/2021
(87) International Publication No	:WO 2022/112432
(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)ASHOKAN, Bharani
3)KIZILBASH, Muhammad

(57) Abstract :
The present disclosure generally provides taste-modifying compositions that reduce the off taste of hydrogen peroxide. In some aspects, the disclosure provides uses of such taste-modifying compositions to reduce the off taste of hydrogen peroxide. In some other aspects, the disclosure provides compositions (such as comestible compositions or oral care compositions), which comprise hydrogen peroxide and a taste-modifying composition of the present disclosure. In some embodiments, such compositions are in the form of a food product, a beverage product, or an oral care product, such as a toothpaste, a mouthwash, tooth-whitening compositions, and the like.

No. of Pages : 28 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009368 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HOT MELT ADHESIVE COMPOSITION

(51) International classification	:C09J 7/38, A61F 13/00, A61F 13/58, B32B 27/30, C09J 125/10
(31) Priority Document No	:20305951.4
(32) Priority Date	:26/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/073515
Filing Date	:25/08/2021
(87) International Publication No	:WO 2022/043382
(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)KOMAR, Stéphanie
4)BELLINI, Clement
5)SHI, Jian Ping
6)LI, Danfeng

(57) Abstract :
The present invention relates to a pressure sensitive hot melt adhesive, particularly to a pressure sensitive hot melt positioning adhesive for use on feminine sanitary pads or adult incontinent products having improved peel values on fabrics made from Lyocell fibers, particularly eucalyptus-based Lyocell fibers.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009370 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A GLASS-CERAMIC MATERIAL, A METHOD OF FORMING A GLASS-CERAMIC MATERIAL AND USES OF A GLASS-CERAMIC MATERIAL

(51) International classification	:C03C 1/00, C03C 3/087, C03C 4/02, C03C 10/00, C03C 12/00
(31) Priority Document No	:20188557.1
(32) Priority Date	:30/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/070675
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/023205
(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)LEESE, Samuel Mark
4)COOLEN, Cornelius

(57) Abstract :
The present invention relates to a glass-ceramic material. The present invention also relates to a method of forming a glass-ceramic material. The present invention also relates to uses of a glass-ceramic material.

No. of Pages : 42 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009371 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLAVOR COMPOSITIONS FOR BEVERAGE AND PERSONAL CARE APPLICATIONS

(51) International classification	:A23L 2/385, A23L 2/60, A23L 27/00, A23L 29/10
(31) Priority Document No	:PCT/CN2020/137594
(32) Priority Date	:18/12/2020
(33) Name of priority country	:International Bureau of the World Intellectual
(86) International Application No	:PCT/EP2021/085620
Filing Date	:14/12/2021
(87) International Publication No	:WO 2022/129000
(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)LI, Wenhao

(57) Abstract :
The present invention relates to a composition comprising a surfactant system comprising lecithin and a diterpene glycoside and/or a glucosylated diterpene glycoside, a non-polar phase comprising a flavor oil, and a polar phase. The invention further relates to a method for the preparation of the inventive composition, as well as to the use of the inventive composition for the preparation of a flavored beverage or personal care product. Moreover, the invention concerns a beverage or personal care product comprising the inventive composition.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009372 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NEGATIVE ACTIVE MATERIAL, AND NEGATIVE ELECTRODE AND SECONDARY BATTERY COMPRISING SAME

(51) International classification	:H01M 4/587, H01M 4/36, H01M 4/62, H01M 4/133, H01M 10/0525
(31) Priority Document No	:10-2020-0120879
(32) Priority Date	:18/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/012632
Filing Date	:15/09/2021
(87) International Publication No	:WO 2022/060106
(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)NOH, Suk In

(57) Abstract :
The present invention provides a negative active material including artificial graphite particles and having a coefficient of thermal expansion of 108 × 10-6/K to 150 × 10-6/K measured by a specific method. The negative active material of the present invention has excellent adhesion to an electrode, thereby having excellent processability and long cycle life characteristics, and a negative electrode including the negative active material has a high capacity and has excellent initial efficiency.

No. of Pages : 54 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009373 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WIRELESS CHARGING IN EYEWEAR WITH ENHANCED POSITIONAL FREEDOM

(51) International classification	:H02J 50/50, H02J 50/10, H02J 50/80, H04B 5/00, G02C 11/00
(31) Priority Document No	:16/934680
(32) Priority Date	:21/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/042575
Filing Date	:21/07/2021
(87) International Publication No	:WO 2022/020472
(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)PERALTA, Alberto

(57) Abstract :
Eyewear and receptacles for housing such eyewear include components of a wireless power transfer system. The eyewear includes a receiver system for receiving power from a transmission system associated with the receptacle(s). The receiver system includes at least one receiver antenna, for receiving wireless power from the transmission system, and a repeater antenna for repeating the wireless power signal to the receiver antenna. The receiver antenna is positioned proximate to a first arm of the eyewear and the repeater is positioned proximate to a second arm of the eyewear. Positioning of the receiver and repeater antennas allows for positional freedom of the eyewear and/or the arms of the eyewear, when mechanically received by the receptacle.

No. of Pages : 57 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009374 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : A GLASS COMPOSITION, A METHOD OF FORMING A GLASS COMPOSITION AND USES OF A GLASS COMPOSITION

(51) International classification	:C03C 3/078, C03C 1/00, C03C 3/087, C03C 4/02, C03C 14/00
(31) Priority Document No	:20188545.6
(32) Priority Date	:30/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/070672
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/023202
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
The present invention relates to a glass composition. The present invention also relates to a method of forming a glass composition. The present invention also relates to uses of a glass composition.

No. of Pages : 24 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009375 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOISE BARRIER AND APPARATUS COMPRISING THE NOISE BARRIER

(51) International classification	:G10K 11/162, G10K 11/172, F24F 13/24
(31) Priority Document No	:20186431.1
(32) Priority Date	:17/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/069953
Filing Date	:16/07/2021
(87) International Publication No	:WO 2022/013421
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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4)GENETELLO, Mario

(57) Abstract :
The noise barrier (1) is arranged to be used in an apparatus which produces noise during operation and which comprises at least one blower (7) for generating an airflow (6) along a path through the apparatus. The noise barrier (1) has one or more through holes (2) and is configured to be placed in the path of the airflow (6) for attenuating sound which propagates along this path in the airflow. It is made of at least one sound attenuating polymeric foam, in particular a polyurethane foam. In order to achieve better sound attenuating properties the polymeric foam of the noise barrier has an airflow resistivity, measured in accordance with ISO 9053-1:2018, Part 1, which is higher than 50 000 Ns/m4. Moreover, the dynamic Young's modulus of the polymeric foam is preferably smaller than 250 kPa.

No. of Pages : 20 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009376 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROGRESSIVE ADDITION LENS FOR MYOPIA CONTROL AND METHOD OF MANUFACTURING THE SAME

(51) International classification	:G02C 7/02, G02C 7/06
(31) Priority Document No	:PCT/US2020/045459
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2021/071412
Filing Date	:30/07/2021
(87) International Publication No	:WO 2022/029031
(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)KRATZER, Timo
4)VARNAS, Saulius
5)WAHL, Siegfried

(57) Abstract :
A progressive addition lens with simultaneous myopic defocus providing microlenses, including a power variation surface is provided. The power variation surface (23) provides at least - a designated distance portion (1) located in an upper section of the progressive addition lens (19) adapted to distance vision, and a fitting cross (17); - a designated near portion (3) located in a lower section of the progressive addition lens, the near portion (3) including a near reference point (7) having a near dioptric power adapted to near vision; and - a designated intermediate corridor (9) extending between the designated distance portion (1) and the designated near portion (3); where a number of microlenses (13) is superimposed on a surface (23) of the progressive addition lens (19). Microlenses (13) are excluded from all areas of said surface (23) which are located below a notional line (15) that extends from nasal to temporal limits of the progressive addition lens (19) at a vertical coordinate (y) above the near reference point (7) where the vertical coordinate (y) lies at a distance above the near reference point (7) with the distance being in a range between 1.5 mm and 3 mm. In addition, a method of manufacturing a progressive addition lens (19) with simultaneous myopic defocus providing microlenses (13) is defined. The method includes the steps of: - Providing a progressive addition lens (19) with a power variation surface, where the power variation surface (23) provides at least a designated distance portion (1) in the upper section of the progressive lens, a designated near portion (3) in a lower section of the progressive addition lens (19), and a designated intermediate corridor (9) extending between the designated distance portion (1) and the designated near portion (3). The distance portion (1) includes the distance reference point (5) and the fitting cross (17). The near portion (3) includes a near reference point (7). - Superimposing a number of microlenses (13) on a surface (23) of the progressive addition lens (19), where superimposition of microlenses (13) is excluded from all areas of said surface (23) which are located below a notional line (15) that extends from nasal to temporal limits of the progressive addition lens (19) at a vertical coordinate (y) above the near reference point (7) where the vertical coordinate (y) lies at a distance above the near reference point (7) with the distance being in a range between 1.5 mm and 3 mm.

No. of Pages : 34 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009754 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FANLESS EXHAUST DEVICE

(51) International classification	:F04D 25/08, F04D 29/32, F04D 29/52, F04D 29/54, F04F 5/20
(31) Priority Document No	:10-2020-0107303
(32) Priority Date	:25/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011180
Filing Date	:23/08/2021
(87) International Publication No	:WO 2022/045695
(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)SEOL, Chul Hwan

(57) Abstract :
A fanless exhaust device according to the present invention disclosed herein comprises: a main body part which has a first suction port formed on one side, an overall exhaust port formed on the other side, and second suction ports formed on facing surfaces between the first suction port and the overall exhaust port; a first fan installed in the first suction port and driven by a driving force so as to suction air through the first suction port; second fans embedded and installed in the second suction ports and driven by a driving force so as to exhaust the suctioned air through the second suction ports; and an airflow path interference-preventing part which is provided inside the main body part so as to prevent interference between the airflow path of the first fan and the airflow paths of the second fans. According to the present invention, an air pressure difference is generated due to the Bernoulli effect when the first and second fans operate, whereby nearby air above and below, to the left and right, and behind is suctioned, and thus, the present invention has excellent suction efficiency. Since interference between the airflow path of the first fan installed in the first suction port and the airflow paths of the embedded and installed second fans is prevented by the path interference-preventing part provided inside the main body part, air can be exhausted by the second fans, embedded and installed on the second suction ports-side, without hindrance even when the capacity of the first fan is large. Also, the present invention has the effect that a wide range of exhausting is enabled by also suctioning nearby air through the second suction ports.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009755 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A DEVICE AND A METHOD FOR PERFORMING A CRYPTOGRAPHIC ALGORITHM

(51) International classification :H04L 9/08, G06F 21/62, G06F 21/72
(31) Priority Document No :20190045.3
(32) Priority Date :07/08/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/GB2021/052035
Filing Date :05/08/2021
(87) International Publication No :WO 2022/029444
(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 computer implemented method comprising: obtaining first data, comprising a representation of computer program code that embodies a cryptographic algorithm; obtaining second data; receiving a request for a first mechanism to be performed, the request comprising information identifying the first mechanism, and information identifying the first data as corresponding to a program and the second data as corresponding to an input; performing the first mechanism, wherein performing the first mechanism comprises: performing a first determination, the first determination comprising: determining whether a first policy associated with the second data permits the second data to be used with the program represented in the first data, and determining whether a third policy associated with the computer program code permits the computer program code to be used with the second data; and if the first determination is successful, executing the program represented in the first data taking the second data as input.

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009757 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CORING AND AMPUTATION DEVICES, SYSTEMS, AND METHODS

(51) International classification	:A61B 17/3205, A61B 18/14, A61B 10/02, A61B 18/00, A61B 18/12
(31) Priority Document No	:63/066457
(32) Priority Date	:17/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/056609
Filing Date	:21/07/2021
(87) International Publication No	:WO 2022/038433
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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6)MILLS, Chris
7)NGUYEN, Steven
8)SALAZAR, Jorge

(57) Abstract :
A method for removing tissues may comprise disposing a tissue resection device at a target tissue site, causing the tissue resection device to resect a core of tissue from the target tissue site, removing the core of tissue from the body, wherein the removing the core of tissue from the body creates a core cavity at the target tissue site.

No. of Pages : 26 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009772 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TUBE TRANSITION

(51) International classification	:F28F 9/18, B23K 101/14, F28D 1/04
(31) Priority Document No	:16/994271
(32) Priority Date	:14/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/040597
Filing Date	:07/07/2021
(87) International Publication No	:WO 2022/035525
(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)HICKS, Marshall, R.
3)NULL, John
(72)**Name of Inventor :**
1)HICKS, Marshall, R.
2)NULL, John

(57) Abstract :
Disclosed herein is a tube transition fitting that includes a body. The fitting is formed having a first wall thickness and a second wall thickness. A tube seat is formed on a surface connected to the body, the surface being adjacent a transition from the first wall thickness to the second wall thickness.

No. of Pages : 34 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2023
(21) Application No.202317009047 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION DEVICE AND COMMUNICATION METHOD

(51) International classification	:H04W 72/04, H04W 76/11, H04W 76/15, H04W 84/12
(31) Priority Document No	:2020-143901
(32) Priority Date	:27/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/023579
Filing Date	:22/06/2021
(87) International Publication No	:WO 2022/044512
(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)PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
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1)MINOTANI, Jun
2)URABE, Yoshio
3)IWAI, Takashi
4)TAKATA, Tomofumi
5)KANAYA, Hiroyuki

(57) Abstract :
The present invention improves the efficiency of transmissions in a multilink. A communication device according to the present invention comprises: a control circuit that controls multilink transmissions on the basis of control information related to the multilink transmissions; and a transmission circuit that performs the multilink transmissions in accordance with the control of the multilink transmissions.

No. of Pages : 59 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/02/2023
(21) Application No.202317009048 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SOIL WETTING COMPOSITION

(51) International classification :C09K 17/38, C05C 9/02, C08G 65/336, C08G 77/46
(31) Priority Document No :202021033013
(32) Priority Date :31/07/2020
(33) Name of priority country :India
(86) International Application No :PCT/US2021/043400
Filing Date :28/07/2021
(87) International Publication No :WO 2022/026515
(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)KANKALE, Mayur
2)DABODHIA, Kawar Lal
3)BAHUGUNA, Sushilkumar
4)BHATTACHARJEE, Subhasis

(57) Abstract :
A soil wetting agent is shown and described herein. The soil wetting agent comprises (a) a siloxane alkoxylate; (b) a polymeric dispersant; (c) a pH adjuster; (d) a sugar; and (e) a carrier resin. The soil wetting agent can provide improved distribution of water and/or bioactive materials or nutrients to an area of soil, which can help to improve irrigation of the area as well as improved properties of the crops grown in the area in terms of germination, crop yield, crop size, etc.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010467 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICES TO SUPPORT AND POSITION AN INTRAOCULAR LENS WITHIN THE EYE AND METHODS OF USE

(51) International classification	:A61F 2/16, A61F 2/14
(31) Priority Document No	:63/063110
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/045015
Filing Date	:06/08/2021
(87) International Publication No	:WO 2022/032143
(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)CLARKE, Matthew
2)NASERI, Ayman
3)BRODIE, Frank

(57) Abstract :
An implantable device for supporting an artificial intraocular lens in an eye having an anterior segment of a capsular bag, an iris, and a sclera. The device includes a posterior platform having an anterior-facing surface and an inner wall defining, at least in part, a central aperture. When the device is implanted in the eye, light passes through the intraocular lens and the central aperture of the posterior platform towards the retina. The device includes at least one awning positioned over the anterior-facing surface of the posterior platform forming at least one recess anterior to the posterior platform. The device is configured to be deployed in the eye posterior of the iris so that no portion of the device rests in contact with the sclera after implantation. Related tools, systems, and methods are provided.

No. of Pages : 79 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010482 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WIRING MECHANISM

(51) International classification	:H05B 47/19, H05B 47/105, H05B 47/17
(31) Priority Document No	:2020-142104
(32) Priority Date	:25/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/030998
Filing Date	:24/08/2021
(87) International Publication No	:WO 2022/045137
(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)NAGATA Masahiro
4)ENDO Jumpei
5)MAESHIMA Masayuki
6)MIYAMOTO Kengo
7)SUZUKI Yuta
8)KAWADA Koji
9)NAKAGAWA Mana
10)KONDO Takanobu

(57) Abstract :
According to the present invention, a first operation unit 170a receives an operation related to the control of a load. A pair of connection terminals are electrically connected between an AC power supply and the load. A load control circuit is electrically connected between the pair of connection terminals and controls a current flowing through the load on the basis of the operation received by the first operation unit 170a. A power supply circuit acquires power from the AC power supply via the pair of connection terminals. A power storage element is charged by the power supply circuit. A second operation unit 170b receives an operation related to the control of a device. When the second operation unit 170b receives the operation related to the control of the device, a first communication unit 180a transmits a signal indicating the operation related to the control of the device. The power storage element supplies power to the first operation unit 170a.

No. of Pages : 91 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010485 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RANDOM ACCESS IN A WIRELESS COMMUNICATION NETWORK

(51) International classification :H04W 74/08, H04L 5/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2020/075709
Filing Date :15/09/2020
(87) International Publication No :WO 2022/057997
(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, Min
2)ERICSON, Mårten
3)CHRISTOFFERSSON, Jan

(57) Abstract :
A wireless communication device (12) receives a random access configuration (18) from a radio network node (14) configured to transmit multiple SSBs (16-1...16-N). The random access configuration (18) configures the wireless communication device (12) with a set (20) of one or more random access preambles. This set (20) of one or more random access preambles is not associated with any of the multiple SSBS (16-1...16-N). Upon receiving a random access preamble from this set, the radio network node (14) may transmit a random access response as a response to the random access preamble. The radio network node (14) may do so by transmitting the random access response on one or more downlink beams that are estimated from measurement of an uplink beam or uplink signal from the wireless communication device (12).

No. of Pages : 64 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010298 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW-LATENCY OPPORTUNISTIC CHANNEL OCCUPANCY TIME SHARING

(51) International classification :H04L 5/00, H04W 72/12, G01S 5/00
(31) Priority Document No :20200100656
(32) Priority Date :29/10/2020
(33) Name of priority country :Greece
(86) International Application No :PCT/US2021/053620
Filing Date :05/10/2021
(87) International Publication No :WO 2022/093499
(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, Chang-Sik
2)STEFANATOS, Stelios
3)WU, Shuanshuan
4)GULATI, Kapil

(57) Abstract :
Aspects relate to group-based reference signal broadcast in a wireless communication network. A first wireless communication device may transmit a first group formation broadcast message associated with a first positioning group comprising a first plurality of wireless communication devices including the first wireless communication device. The first wireless communication device may receive a second group formation broadcast message associated with a second positioning group comprising a second plurality of wireless communication devices including a second wireless communication device. The second positioning group may be associated with a channel occupancy time (CoT) in a sidelink channel. The CoT may comprise transmission opportunities configured to be used by the second plurality of wireless communication devices for communicating reference signals. The first wireless communication device may initiate transmission of reference signals by the first plurality of wireless communication devices using additional transmission opportunities within the CoT associated with the second positioning group.

No. of Pages : 57 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010299 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : THERMALLY EXPANDABLE POLYVINYLIDENE CHLORIDE MICROSPHERE AND PREPARATION METHOD THEREFOR

(51) International classification	:C08F 220/48, C08F 214/22, C08F 220/14, C08F 222/14, C08F 226/06
(31) Priority Document No	:202010862651.7
(32) Priority Date	:25/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/101495
Filing Date	:22/06/2021
(87) International Publication No	:WO 2022/041978
(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)ZHAO, Xinben
2)WU, Yupeng
3)WU, Zhigang
4)HAN, Jinming
5)SU, Lanhui
6)CHAI, Yudeng
7)MA, Congli
8)ZHOU, Hongxin
9)SU, Gang
10)LU, Junming

(57) Abstract :
A thermally expandable polyvinylidene chloride microsphere and a preparation method therefor. The method comprises: dissolving 250-550 parts of water phase polymerization inhibitor, 20-100 parts of dispersant, and 3-15 parts of dispersant monomer in deionized water on the basis of parts by weight; adjusting the pH value of the solution and cooling down to obtain a water phase for further use; dissolving 5-15 parts of crosslinking agent and 20-45 parts of initiator in 1000-2000 parts of mixed monomers and cooling down to obtain an oil phase for further use; mixing the water phase and the oil phase and then carrying out homogenization while stirring to obtain a homogenized mixed solution; adding 300-550 parts of foaming agent to the homogenized mixed solution and carrying out homogenization while stirring to obtain a homogenized mixed solution containing the foaming agent; and reacting the homogenized mixed solution containing the foaming agent while stirring, after the reaction is finished, cooling down to room temperature, filtering an obtained suspension to obtain a filtrate, dewatering the filtrate by centrifugation, and carry out drying to obtain thermally expandable polyvinylidene chloride microspheres.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010304 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PORTABLE AIR STERILIZER FOR RESPIRATORS USED IN INFECTIOUS ENVIRONMENTS

(51) International classification	:A61L 9/16, A41D 13/11, A61L 2/04, A61L 9/00, A61M 16/10
(31) Priority Document No	:2020 00520
(32) Priority Date	:17/08/2020
(33) Name of priority country	:Romania
(86) International Application No	:PCT/US2021/046374
Filing Date	:17/08/2021
(87) International Publication No	:WO 2022/040234
(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)BLUESTEM BIO INC.
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(72)**Name of Inventor :**
1)IONESCU, Cazemir-Benedict
2)RADU, Radu

(57) Abstract :
A portable air sterilization device is disclosed that attaches to respirators, and is used for the personal protection of individuals working in highly infectious environments for extended periods of time. The air sterilization device is portable and deactivates 99.99%-100% of aerosolized viruses and bacteria present in the infected air. To sterilize the infected air, the device uses the method of thermal stress (Grinshpun et al, 2010).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010305 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SEPARATOR, PREPARATION METHOD THEREFOR, AND RELATED SECONDARY BATTERY THEREOF, AND BATTERY MODULE, BATTERY PACK, AND DEVICE

(51) International classification	:H01M 50/409, H01M 50/40, H01M 50/431, H01M 50/446
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2020/132955
Filing Date	:30/11/2020
(87) International Publication No	:WO 2022/110227
(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)CHENG, Cong
3)LAN, Yuanyuan
4)YANG, Jianrui
5)LIU, Na
6)JIN, Haizu

(57) Abstract :
A separator and a secondary battery comprising same, a device comprising the secondary battery, and a preparation method for the separator. The separator comprises a substrate (A) and a coating (B) formed on at least one surface of the substrate (A); the coating (B) comprises inorganic particles (B3) and organic particles; the organic particles comprise a first type of organic particles (B1) and a second type of organic particles (B2); the first type of organic particles (B1) and the second type of organic particles (B2) are embedded in the inorganic particles (B3) and form protrusions on the surface of the coating (B); and the number-average particle diameter of the first type of organic particles (B1) is greater than 10 μm, and the number-average particle diameter of the second type of organic particles (B2) is 2 μm-10 μm.

No. of Pages : 40 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009380 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND DEVICES FOR PREPARATION OF ULTRASOUND CONTRAST AGENTS

(51) International classification	:B01F 11/00, A61K 49/22, A61J 1/06, B01F 15/00
(31) Priority Document No	:63/061168
(32) Priority Date	:04/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044394
Filing Date	:03/08/2021
(87) International Publication No	:WO 2022/031739
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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(57) Abstract :
Provided herein are methods and devices for identifying and/or distinguishing UCA formulations and specifically activating such formulations to produce UCA suitable for in vivo use.

No. of Pages : 65 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009382 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EXCESSIVE TRAIN BRAKE PIPE FLOW DIAGNOSTICS

(51) International classification :B60T 17/22
(31) Priority Document No :63/059371
(32) Priority Date :31/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/043591
Filing Date :29/07/2021
(87) International Publication No :WO 2022/026635
(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)PARISIAN, Michael, L.

(57) Abstract :
A brake pipe pressure monitoring system evaluates the flow of pressure in the brake pipe and alerts the train driver when the brake pipe flow indicates a brake system failure. The system has a brake pipe pressure module coupled to computer controlled brake as well as to a brake pipe pressure transducer, a main reservoir pressure transducer, and a flow transducer that determines the amount of pressure flow from the main reservoir to the brake pipe. The brake pipe pressure module is programmed to calculated and track the flow in the brake pipe over time and to determine whether the flow in the brake pipe over time exceeds a predetermined threshold. In the even that flow exceeds the predetermined threshold, the computer controlled brake is signaled to alert the train driver of the failure condition.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202317009400 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SUBSTITUTED N-PHENYLURACILS AND SALTS THEREOF, AND USE THEREOF AS HERBICIDAL ACTIVE SUBSTANCES

(51) International classification	:C07D 239/54, A01N 43/54
(31) Priority Document No	:20192356.2
(32) Priority Date	:24/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/073129
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/043205
(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)HELMKE, Hendrik
4)FRACKENPOHL, Jens
5)ROSINGER, Christopher, Hugh
6)GATZWEILER, Elmar
7)ASMUS, Elisabeth
8)BOLLENBACH-WAHL, Birgit

(57) Abstract :
The present invention relates to substituted N-phenyluracils of general formula (I) or salts thereof, wherein the radicals in general formula (I) correspond to the definitions given in the description, and to the use thereof as herbicides, in particular for controlling weeds and/or weed grasses in crops, and/or as plant growth regulators for influencing the growth of crops.

No. of Pages : 197 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009402 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COLD ROLLING METHOD, COLD ROLLING EQUIPMENT, AND COLD-ROLLED STEEL SHEET MANUFACTURING METHOD

(51) International classification	:B21B 37/28, B21B 37/40
(31) Priority Document No	:2020-152348
(32) Priority Date	:10/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/032889
Filing Date	:07/09/2021
(87) International Publication No	:WO 2022/054806
(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)HARADA Yoshimitsu
3)NAGAI Yu
4)MATSUBARA Yukihiro
5)FUJITA Noriki

(57) Abstract :
Provided are a cold rolling method, cold rolling equipment, and a cold-rolled steel sheet manufacturing method, with which sheet fracturing can be inhibited by sufficiently suppressing the occurrence of edge cracking in a rolling material during cold rolling. In this cold rolling method, a rolling material (S) is cold-rolled using a roller (2) that comprises a plurality of stands (31)-(34). Among the plurality of stands (31)-(34), the Nth stand (3N), which is positioned in the Nth place (N being a natural number greater than or equal to 2) from the upstream side in the conveyance direction of the rolling material (S), has a tapered work roll (4a1) in which a taper (4ab) is formed at an end section (4ab) of a roll (4aa) having a uniform diameter. The Nth stand (3N) rolls the rolling material (S) at a linear load of greater than or equal to 0.8 t/mm.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009407 A
(19) INDIA
(22) Date of filing of Application :13/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR TRANSMITTING/RECEIVING SIGNAL FOR GROUPCAST IN WIRELESS COMMUNICATION SYSTEM

(51) International classification	:H04L 1/18, H04L 5/00, H04W 4/06, H04W 72/12
(31) Priority Document No	:10-2020-0098234
(32) Priority Date	:05/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/009303
Filing Date	:20/07/2021
(87) International Publication No	:WO 2022/030813
(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)YEO, Jeongho
2)KIM, Youngbum
3)BAE, Taehan
4)PARK, Sungjin
5)SHIN, Cheolkyu

(57) Abstract :
The present disclosure relates to a 5G or 6G communication system for supporting a higher data transmission rate than a 4G communication system such as LTE. According to various embodiments of the present disclosure, a method performed by a transmission apparatus in a wireless communication system may be provided. The method may comprise the steps of: transmitting, via a physical downlink control channel (PDCCH), first control information for scheduling a group common-physical downlink shared channel (GC-PDSCH) via which multicast data is transmitted, including information related to hybrid automatic repeat request (HARQ) feedback for the multicast data; and transmitting, via the PDCCH, second control information for scheduling a physical downlink shared channel (PDSCH) via which unicast data is transmitted, including information related to HARQ feedback for the unicast data.

No. of Pages : 80 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009778 A
(19) INDIA
(22) Date of filing of Application :14/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHTHALOCYANINE COMPOSITION

(51) International classification	:C09B 47/04, C09D 201/00, C09D 11/037, G02B 5/20, C09D 7/41
(31) Priority Document No	:2020-143409
(32) Priority Date	:27/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/031297
Filing Date	:26/08/2021
(87) International Publication No	:WO 2022/045235
(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)EBATO Hiroshi
3)SAKURAI Munenori

(57) Abstract :
The present invention addresses the problem of providing: a high-performance phthalocyanine compound in which it is possible to control the number of a variety of functional groups and the positions thereof, said compound being produced by a production method involving a biomass starting material; a composition; a pigment composition using the compound or composition; a pigment dispersion; a printing ink; a coating material; a printed object; a printed object laminate; a coated object; and a color filter. This problem is solved by using a furan derivative and maleic anhydride as starting materials, performing a Diels-Alder (DA) reaction to obtain a DA intermediate composition, subjecting the DA intermediate composition to a ring-opening dehydration reaction to synthesize a phthalic anhydride composition that is used in conventional phthalicyanine synthesis, and synthesizing a phthalicyanine composition.

No. of Pages : 48 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009783 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENRICHMENT OF A DIASTEREOMER IN MAGNOLAN

(51) International classification :C07D 319/08, C11B 9/00
(31) Priority Document No :PCT/EP2020/073775
(32) Priority Date :25/08/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/072541
Filing Date :12/08/2021
(87) International Publication No :WO 2022/043089
(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)BORCHERT, Susanne
3)BETZER, Marcus
4)ILLAN, Alexandre
5)HEPPEKAUSEN, Johannes

(57) Abstract :
The invention relates to: a distillative method for preparing a diastereomer-enriched fragrance mixture; the diastereomer-enriched fragrance mixture; and the use thereof as a fragrance or for preparing a fragrance composition. The invention also relates to the use of the diastereomer-enriched fragrance mixture for imparting, modifying or enhancing a floral scent of a perfumed product or for preparing a perfumed product. Finally, the present invention also relates to fragrance compositions and perfumed products comprising the diastereomer-enriched fragrance composition.

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009787 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD AND SIDELINK DEVICE

(51) International classification :H04W 72/04, H04W 76/14
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/102770
Filing Date :17/07/2020
(87) International Publication No :WO 2022/011699
(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)LI, Chao

(57) Abstract :
Provided in the present application are a communication method and a sidelink device, wherein same are applied to the technical field of communications. The method comprises: a first sidelink device determining first indication information and first sidelink resource information, and the first sidelink device sending the first indication information and the first sidelink resource information to a second sidelink device, wherein the first indication information is used to indicate that the first sidelink resource information comprises assistance information, and the assistance information is used to assist the second sidelink device with selecting resources. After receiving the first indication information and the assistance information, the second sidelink device can learn of the condition of surrounding related resources, comprising, for example, channel measurement information of a resource pool, and the resource occupancy condition of other communication devices with which the second sidelink device cannot communicate directly, etc. The second sidelink device can perform resource selection according to the assistance information, and acquires, by means of the resource selection, available resources which are capable of sending information, thereby avoiding resource conflicts with other sidelink communication devices.

No. of Pages : 53 No. of Claims : 45

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009788 A
(19) INDIA
(22) Date of filing of Application :14/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD, APPARATUS AND DEVICE AND STORAGE MEDIUM

(51) International classification :H04W 72/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/105615
Filing Date :29/07/2020
(87) International Publication No :WO 2022/021161
(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)ZHAO, Zhenshan

(57) Abstract :
The present application provides a communication method, apparatus and device and a storage medium. A first communication device determines a first time domain resource used by a first communication group where the first communication device is located, and communicates with other communication devices in the first communication group by using the first time domain resource. The first time domain resource used by the first communication group is different from a second time domain resource used by a second communication group, and the first communication group and the second communication group are any two of a plurality of communication groups coexisting in a target communication system; thus, the use of different time domain resources for communication among communication devices in the plurality of communication groups coexisting in the target communication system effectively avoids interferences among the communication groups and improves the communication performance among the communication devices.

No. of Pages : 50 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010306 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : A HEAVY HYDROCARBON HYDROPROCESSING CATALYST AND METHODS OF MAKING AND USING THEREOF

(51) International classification	:B01J 23/883, B01J 35/10, B01J 37/00
(31) Priority Document No	:63/073015
(32) Priority Date	:01/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/048625
Filing Date	:01/09/2021
(87) International Publication No	:WO 2022/051341
(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)BHAN, Opinder Kishan

(57) Abstract :
The specification discloses a highly macroporous catalyst for hydroprocessing and hydroconversion of heavy hydrocarbon feedstocks. The high macroporosity catalyst incudes an inorganic oxide, molybdenum, and nickel components. It has a pore structure such that at least 18 % of its total pore volume is in pores of a diameter greater than 5,000 angstroms and at least 25 % of its total pore volume is in pores of a diameter greater than 1,000 angstroms. Preferably, the pore structure is bimodal. The catalyst is made by co-mulling the catalytic components with a high molecular weight polyacrylamide followed by forming the co-mulled mixture into a particle or an extrudate. The particle or extrudate is dried and calcined under controlled calcination temperature conditions to yield a calcined particle or extrudate of the high macroporosity catalyst composition.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010339 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : BLOOD SUGAR LEVEL ESTIMATION DEVICE, BLOOD SUGAR LEVEL ESTIMATION METHOD AND PROGRAM

(51) International classification	:G16H 10/40, G01N 33/66, A61B 5/00, A61B 5/02, A61B 5/022
(31) Priority Document No	:2021-055063
(32) Priority Date	:29/03/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/015088
Filing Date	:28/03/2022
(87) International Publication No	:WO 2022/210570
(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)ANDO, Noritaka
2)SHOBAKO, Naohisa

(57) Abstract :
[Problem] Conventionally known methods for measuring a blood sugar level involve sampling the blood from a subject, estimating the blood sugar level using the interstitial fluid, and the like. However, the problem with all these methods is that they require making a puncture in the skin of a subject in an invasive manner, which places a psychological and physical burden on the subject. [Solution] In the present invention, a blood sugar level estimation model is generated through machine learning based on previously-acquired attribute information, non-invasive biological information, and test data from the blood tests of a plurality of subjects, and as a result of the foregoing, it is possible to estimate a blood sugar level in a non-invasive manner, on the basis of the attribute information and/or the non-invasive biological information of a predetermined user.

No. of Pages : 23 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010340 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HbA1c RISK ESTIMATION DEVICE, HbA1c RISK ESTIMATION METHOD, AND PROGRAM

(51) International classification :G16H 50/30, A61B 5/145
(31) Priority Document No :2021-130045
(32) Priority Date :06/08/2021
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2022/015095
Filing Date :28/03/2022
(87) International Publication No :WO 2023/013164
(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)ANDO, Noritaka
2)SHOBAKO, Naohisa

(57) Abstract :
[Problem] Heretofore, for the measurement of HbA1c, it is required to collect blood from a subject and perform a biochemical analysis of the blood. However, such a method has the problem that it is required to prick the skin of a subject with a needle or the like in an invasive manner, which places psychological and physical burdens on the subject. [Solution] The present invention generates a HbA1c risk estimation model by machine learning on the basis of attribute information, non-invasive biological information, and test data of blood tests of a plurality of subjects which have been acquired in advance, and thus makes it possible to estimate an HbA1c risk in a non-invasive manner from attribute information and/or non-invasive biological information of a specific user.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010341 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : URIC ACID VALUE ESTIMATION DEVICE, URIC ACID VALUE ESTIMATION METHOD, AND PROGRAM

(51) International classification	:G16H 10/40, G16H 50/70, G01N 33/50, A61B 5/145, G06Q 10/04	(71)**Name of Applicant :** **1)NISSIN FOODS HOLDINGS CO., LTD.** Address of Applicant :1-1, Nishinakajima 4-chome, Yodogawa-ku, Osaka-shi, Osaka 5328524 Japan
(31) Priority Document No	:2021-130176	(72)**Name of Inventor :**
(32) Priority Date	:06/08/2021	**1)ANDO, Noritaka**
(33) Name of priority country	:Japan	**2)SHOBAKO, Naohisa**
(86) International Application No	:PCT/JP2022/015100	
Filing Date	:28/03/2022	
(87) International Publication No	:WO 2023/013166	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
[Problem] Heretofore, for the measurement of uric acid values, it was required to collect blood from a subject and perform a biochemical analysis of the blood. However, this method has the problem that it is required to insert a needle or the like into the skin of a subject in an invasive manner, which places psychological and physical burdens on the subject. [Solution] In the present invention, a uric acid value estimation model is generated by machine learning based on attribute information, non-invasive biological information, and test data of blood tests, the foregoing being with respect to test subjects and having been acquired in advance. As a result, it is possible to estimate a uric acid value from attribute information and non-invasive biological information of a certain user.

No. of Pages : 21 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010486 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RRC RE-ESTABLISHMENT

(51) International classification :H04W 76/19
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/SE2020/050889
Filing Date :22/09/2020
(87) International Publication No :WO 2022/066071
(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)VIKBERG, Jari
4)SCHLIWA-BERTLING, Paul

(57) Abstract :
Methods and apparatus are provided. In an example aspect, a method in a User Equipment (UE) of performing a RRC re-establishment procedure is provided. The method comprises receiving an instruction from a network node to perform a RRC re-establishment procedure, and transmitting a RRC re-establishment request.

No. of Pages : 29 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010492 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TAMPING DEVICE AND TAMPING MACHINE

(51) International classification :E01B 27/16
(31) Priority Document No :202011130010.9
(32) Priority Date :21/10/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/114718
Filing Date :26/08/2021
(87) International Publication No :WO 2022/083280
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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5)MA, Zhanchuan
6)CHEN, Guangjun
7)LIU, Gang
8)WANG, Lin
9)FU, Lang
10)ZHANG, Yanfei
11)WANG, Hong
12)XIONG, Wenhui
13)WANG, Hongbing

(57) Abstract :
Embodiments of the present application provide a tamping device and a tamping machine. The tamping device comprises: an excitation mechanism, vibration transmission mechanisms, telescopic driving mechanisms, and tamping arms; the vibration transmission mechanisms are connected between the excitation mechanism and the telescopic driving mechanisms; one end of each telescopic driving mechanism is connected to the corresponding vibration transmission mechanism, and the other end is connected to the corresponding tamping arm; the distance between two ends of each of the telescopic driving mechanisms is variable. The tamping device and the tamping machine provided in the embodiments of the present application can solve the problem in conventional solutions of high maintenance costs.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010499 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INFORMATION TRANSMISSION METHOD AND RELATED DEVICE

(51) International classification :H04W 64/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/107555
Filing Date :06/08/2020
(87) International Publication No :WO 2022/027504
(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)LU, Qianxi
2)YOU, Xin

(57) Abstract :
Embodiments of the present application provide an information transmission method and a related device. The method comprises: a position management network element obtaining a parameter of a PRS for non-periodic transmission; and sending the parameter to a terminal. The embodiments of the present application facilitate improving the resource utilization rate and the positioning flexibility.

No. of Pages : 48 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010508 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WEIGHT TRAINING APPARATUS

(51) International classification	:A63B 21/00, A63B 21/008, A63B 22/00, A63B 22/06, A63B 22/08, A63B 23/00
(31) Priority Document No	:16/935752
(32) Priority Date	:22/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/040603
Filing Date	:07/07/2021
(87) International Publication No	:WO 2022/020091
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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(57) Abstract :
A weight training apparatus using hydraulics or pneumatics for applying positive and negative resistance closer to a user's maximum capacity throughout a lift is provided. The apparatus allows for weight training without weights. The apparatus may provide a more effective and safer mechanism for training than conventional techniques. An aerobic apparatus using hydraulics or pneumatics for a more realistic feel is also provided. Methods of using the devices are also provided.

No. of Pages : 23 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010515 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STABILIZER MANUFACTURING DEVICE AND STABILIZER MANUFACTURING METHOD

(51) International classification :B60G 21/055
(31) Priority Document No :16/944224
(32) Priority Date :31/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/JP2021/027714
Filing Date :27/07/2021
(87) International Publication No :WO 2022/025048
(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)KOGETSU, Yasuhiko

(57) Abstract :
A stabilizer manufacturing device according to one embodiment of the present invention includes a first shaping unit (31) and a second shaping unit (32). The first shaping unit (31) includes a first shaping core metal (61), holding members (62), (63), and a first bending roller (65). The first shaping core metal (61) includes a first shaping part (70) that is arc-shaped in an overhead view, and support parts (71), (72) that support a workpiece. The first bending roller (65) moves along the first shaping part (70). The second shaping unit (32) includes a second shaping core metal (161), holding members (162), (163), and a second bending roller (165). The second shaping core metal (161) includes a second shaping part (170) that is arc-shaped in an overhead view, and support parts (171), (172) that support a workpiece. The second bending roller (165) moves along the second shaping part (170).

No. of Pages : 33 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023

(21) Application No.202317010535 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITIONS AND METHODS FOR IN VIVO GENERATION OF CAR EXPRESSING CELLS

(51) International classification	:A61K 39/00, A61P 35/00, C07K 14/49, C07K 14/725, A61K 48/00
(31) Priority Document No	:63/068876
(32) Priority Date	:21/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/046994
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/040586
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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6)MELLES, Yoel
7)CEBE, Regis
8)GRANDA, Brian Walter
9)TREANOR, Louise Mary
10)JAYASHANKAR, Shyamali
11)YANG, Jennifer
12)RAYO, Amy
13)PRICE, Andrew Patrick
14)SKEGRO, Darko
15)GUYOT, Justine
16)APSUNDE, Tushar Dattu
17)LEE, Cameron Chuck-munn
18)BARDROFF, Michael
19)MILLER, Sandra

(57) Abstract :
Aspects of this disclosure relate generally to the use of biomaterials for the in vivo generation of CAR expressing cells. In some embodiments, the biomaterials comprise one or more of a cell recruitment composition, a viral vector, and/or a cell activation agent.

No. of Pages : 368 No. of Claims : 54

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010342 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CREATININE RISK ESTIMATION DEVICE, CREATININE RISK ESTIMATION METHOD, AND PROGRAM

(51) International classification	:G16H 50/30, G01N 33/70
(31) Priority Document No	:2021-130216
(32) Priority Date	:06/08/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/015104
Filing Date	:28/03/2022
(87) International Publication No	:WO 2023/013167
(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)SHOBAKO, Naohisa

(57) Abstract :
[Problem] Heretofore, for the measurement of creatinine, it is required to collect blood from a subject and perform a biochemical analysis of the blood. However, such a method has the problem that it is required to prick the skin of a subject with a needle or the like in an invasive manner, which places psychological and physical burdens on the subject. [Solution] The present invention generates a creatinine risk estimation model by machine learning on the basis of attribute information, non-invasive biological information, and blood test data of a plurality of subjects which have been acquired in advance, and thus makes it possible to estimate a creatinine risk in a non-invasive manner from attribute information and non-invasive biological information of a specific user.

No. of Pages : 19 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010344 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ?GT ESTIMATION DEVICE, ?GT ESTIMATION METHOD, AND PROGRAM

(51) International classification	:G16H 10/40, G16H 50/70, A61B 5/00, A61B 5/02, A61B 5/145
(31) Priority Document No	:2021-130123
(32) Priority Date	:06/08/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/015097
Filing Date	:28/03/2022
(87) International Publication No	:WO 2023/013165
(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)SHOBAKO, Naohisa

(57) Abstract :
[Problem] Conventionally, there has been a problem in that blood must be collected in an invasive manner in which a needle or the like is stuck into the skin of a subject for measurement of ?GT, and this involves a psychological or physical burden on the subject.
[Solution] In the present invention, a ?GT estimation model is generated through machine learning on the basis of previously-acquired attribute information, non-invasive biological information, and test data from blood tests pertaining to a plurality of subjects, thereby making it possible to estimate ?GT in a non-invasive manner from the attribute information and the non-invasive biological information pertaining to a prescribed user.

No. of Pages : 22 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010350 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICE AND PROCESS FOR THE DIRECT CARBON DIOXIDE CAPTURE FROM AIR

(51) International classification :B01D 53/02, B01D 53/06
(31) Priority Document No :20186471.7
(32) Priority Date :17/07/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/070183
Filing Date :19/07/2021
(87) International Publication No :WO 2022/013456
(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)DE NEVE, Hans Maria Paul
2)SIMONS, Jasper Anne Frido Marikus
3)VAN EYCK, Dries
4)SCHOUTEN, Aswin

(57) Abstract :
The present invention is based on the use of surface adsorption to capture CO2 molecules from air, without requiring the need for bulk absorption within the bulk of the sorbent. Since surface adsorption is a much faster process than bulk absorption, the present invention offers a greatly increased CO2 capture rate, as well as a greatly improved energy efficiency, over conventional systems. The invention involves the use of a molecular monolayer of CO2 sorbent, a process and a system for capturing CO2 from air employing such a molecular monolayer of CO2 sorbent.

No. of Pages : 16 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010355 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONCRETE SCREEDING MACHINE FOR TILT-UP PANELS

(51) International classification :B28B 19/00, E01C 19/15, E01C 19/40
(31) Priority Document No :62/706576
(32) Priority Date :26/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/071285
Filing Date :26/08/2021
(87) International Publication No :WO 2022/047482
(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)HALONEN, Philip D.
2)KANGAS, James E.
3)KANGAS, Matthew A.
4)PIETILA, Mark A.

(57) Abstract :
A screeding machine includes a base unit positionable at framework that defines a concrete structure and a screed head assembly movably mounted at the base via an extendable and retractable mechanism. The screed head assembly includes a grade establishing member, a vibrating member, and elevation actuators for adjusting elevation of the screed head assembly. The screed head assembly is positioned at a screeding location via extension of the extendable and retractable mechanism and is movable over the uncured concrete in a screeding direction via retraction of the extendable and retractable mechanism. Adjustable wings disposed at and in front of the grade establishing member in the screeding direction are movable along the grade establishing member. When one of the ends of the screed head assembly is positioned at a frame portion, the wing at that end of the screed head assembly is moved to position the wing at the frame portion.

No. of Pages : 15 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010358 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SEPARATOR AND SECONDARY BATTERY INCLUDING SAME

(51) International classification	:H01M 50/431, H01M 50/449, H01M 50/446, H01M 10/058
(31) Priority Document No	:10-2020-0112867
(32) Priority Date	:04/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011638
Filing Date	:31/08/2021
(87) International Publication No	:WO 2022/050651
(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, Tae Gon
2)KWAK, Min
3)LEE, Sang Joon
4)KIM, Jeong Gil
5)KIM, Myeong Soo

(57) Abstract :
The present invention relates to a separator and a secondary battery including same, the separator comprising a porous substrate and a conductive layer arranged on the porous substrate, wherein the conductive layer comprises a carbon nanotube structure in which a plurality of single-walled carbon nanotube units are coupled to each other side by side, and the carbon nanotube structure has an average particle diameter of 2-500 nm.

No. of Pages : 53 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010366 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RISK ANALYSIS AND MITIGATION WITH NESTED MACHINE LEARNING MODELS FOR EXAM REGISTRATION AND DELIVERY PROCESSES

(51) International classification :G06E 1/00
(31) Priority Document No :16/941331
(32) Priority Date :28/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/043533
Filing Date :28/07/2021
(87) International Publication No :WO 2022/026599
(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)BRUTSCHE, Joseph
2)JENSEN, Darrick
3)NEALIS, Michael
4)PASCALE, Peter
5)PULEC, Vladan

(57) Abstract :
Systems and methods may involve processing of entity data by nested machine learning models to produce one or more aggregate risk scores, which may be compared to one or more thresholds to determine when one or more predefined actions should be taken. The entity data may be collected for various entities related to an exam registration and delivery process, which may include a candidate, an exam, a test center, an exam registration event, a proctor, and an exam delivery event. Entity data for each entity may be separately processed by entity-specific machine learning models to generate intermediate entity risk scores. The intermediate entity risk scores may be input to an aggregate machine learning model, which may output an aggregate risk score. A resource management server may cause the predefined actions to be taken after comparing the aggregate risk score to the one or more thresholds.

No. of Pages : 69 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010368 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : MANAGEMENT SYSTEM AND MANAGEMENT METHOD

(51) International classification	:G06Q 20/06, G06Q 20/38, G06Q 30/06
(31) Priority Document No	:2020-142159
(32) Priority Date	:25/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/029537
Filing Date	:10/08/2021
(87) International Publication No	:WO 2022/044796
(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)HIGASHIDE, Haruhisa
2)KATOU, Yasuhide
3)TOMODA, Mitsuya
4)NUMA, Kentaro

(57) Abstract :
A management system (1) comprising terminals (20A, 20B) which each have installed thereon an application that is capable of loading electronic money of multiple types of currency, and a server device (10) which manages the electronic money of multiple types of currency, wherein: the terminal (20A) uses a billing service of said application and sets a billing destination of a price, the type of first currency to be used for payment, and a billing amount; the terminal (20B) transmits a payment notice in which the type of second currency to be used for payment of the billing amount of the price is set; and the server device (10) has a money-deposit-and-withdrawal control unit which, upon receipt of the payment notice from the terminal (20B), calculates an amount in the second currency that corresponds to the billing amount in the first currency on the basis of an exchange rate, and which then subtracts the calculated amount from the balance of the second-currency electronic money out of the electronic money loaded onto the terminal (20B).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010369 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TUBING JUNCTION ASSEMBLY

(51) International classification	:A61M 39/10, A61M 39/12
(31) Priority Document No	:63/072785
(32) Priority Date	:31/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/047818
Filing Date	:26/08/2021
(87) International Publication No	:WO 2022/047079
(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)NGUYEN, Vincent

(57) Abstract :
Tubing junction assemblies that can be coupled with a portion of tubing, and can include a locking feature to resist unintended disassembly of the junction, and can include an assembly assistance feature to provide leverage when assembling a collar with a body of the tubing junction assembly, where the collar and body can be assembled together with a portion of tubing therebetween such that the tubing can be compressed between an inner surface of the collar and an outer surface of the body to fluidly couple the tubing with a bore through the body, provide a fluid-tight seal between the tubing and the body, and resist separation of the tubing from the body.

No. of Pages : 22 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010384 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL CYCLOALKENONE COMPOUND OR SALT THEREOF

(51) International classification	:C07C 49/753, A61K 31/075, A61K 31/122, A61K 31/13, A61K 31/16
(31) Priority Document No	:2020-135328
(32) Priority Date	:07/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/029246
Filing Date	:06/08/2021
(87) International Publication No	:WO 2022/030606
(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)NOMA, Takahisa
3)HAKOZAKI, Atsushi

(57) Abstract :
A compound represented by general formula (I) or a salt thereof; a nerve growth promoter containing the compound or salt as the active ingredient; a medicinal composition containing the compound or salt; a therapeutic agent for neurodegenerative diseases which contains the compound or salt as the active ingredient; a therapeutic agent for amyotrophic lateral scleroses which contains the compound or salt as the active ingredient; a therapeutic agent for pains which contains the compound or salt as the active ingredient; and a therapeutic agent for lower urinary disorders which contains the compound or salt as the active ingredient.

No. of Pages : 122 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009795 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TOPICAL FORMULATION

(51) International classification	:A61K 9/00, A61K 31/00, A61K 47/12, A61K 47/20, A61K 47/34
(31) Priority Document No	:2011605.9
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2021/071013
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/023348
(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)HAMMOND, Kevin

(57) Abstract :
The present invention is directed to a topical formulation comprising 1) a dispersed phase comprising: 5 to 15% w/w (percentage weight/weight) nicotinamide; 10 to 60% w/w of a partition coefficient enhancer (Pc enhancer), having a structure of the general formula: CnH2n+2O2 where n represents an integer from 3 to 6 inclusive; and = 10% water and 2) a continuous phase, wherein the formulation has a pH above 4.0. The present invention is also directed to a pharmaceutical composition comprising the topical formulation according to the invention, a pharmaceutical composition according to the invention for use in therapy, and the use of the topical formulation as a cosmetic agent.

No. of Pages : 60 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009797 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MULTIPOINT SERIES SENSOR IN ELECTRIC HEATING ELEMENTS

(51) International classification	:G01K 1/02, G01K 7/02, F24H 1/00, H05B 1/00
(31) Priority Document No	:63/056850
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/070975
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/027004
(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)LIU, Xin
2)LUDWIG, Eric

(57) Abstract :
A temperature sensing system includes a plurality of resistive segments connected in electrical series. Each resistive segment defines a material different from a material of an adjacent resistive segment, and the plurality of resistive segments are joined at sensing junctions to define a plurality of sensing junctions along a length of the resistive segments. A temperature deviation is calculated from the plurality of sensing junctions based on electric potential at each of the sensing junctions.

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009799 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLOW METER ASSEMBLY

(51) International classification	:G01F 1/74, G01F 15/02, G01F 15/00
(31) Priority Document No	:63/056886
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/042492
Filing Date	:21/07/2021
(87) International Publication No	:WO 2022/026261
(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)CHART INC.
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(72)**Name of Inventor :**
1)WAGNER, Roland

(57) Abstract :
A flow meter assembly for a dispensing line includes a differential pressure transmitter, a pressure transmitter, a temperature transmitter and a controller in communication with each transmitter. The controller is configured to use data collected from the transmitters to determine if there is subcooling or two-phase flow of a fluid flowing through the dispensing line and to meter fluid flowing through the dispensing line if there is subcooling or no two-phase flow.

No. of Pages : 11 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009801 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESSES FOR PREPARING MODULATORS OF ALPHA-1 ANTITRYPSIN

(51) International classification :C07D 487/04
(31) Priority Document No :63/056958
(32) Priority Date :27/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/043154
Filing Date :26/07/2021
(87) International Publication No :WO 2022/026372
(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)GIACOMETTI, Robert Daniel
3)HARRISON, Cristian
4)LAWS, Stephen W.
5)LOOKER, Adam
6)ROEPER, Stefanie

(57) Abstract :
This disclosure provides large-scale processes for preparing a modulator of alpha-1 antitrypsin (AAT) activity that may be useful for treating alpha-1 antitrypsin deficiency (AATD), such as 4-(5-(4-fluorophenyl)-6-(tetrahydro-2H-pyran -4-yl)-1,5-dihydropyrrolo[2,3-f]indazol-7-yl)benzoic acid (Compound 1), 3-[5-(4-fluorophenyl)-6-isopropyl-1H-pyrrolo[2,3-f]indazol-7-yl]propanoic acid (Compound 2), or a pharmaceutically acceptable salt of any of the foregoing.

No. of Pages : 92 No. of Claims : 61

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009807 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADDRESSING FOR DISAGGREGATED MEMORY POOL

(51) International classification :G06F 3/06, G06F 12/1072
(31) Priority Document No :17/011906
(32) Priority Date :03/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/035064
Filing Date :31/05/2021
(87) International Publication No :WO 2022/051002
(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)TAVALLAEI, Siamak
2)AGARWAL, Ishwar
3)SONI, Vishal

(57) Abstract :
A method for memory address mapping in a disaggregated memory system includes receiving an indication of one or more ranges of host physical addresses (HPAs) from a compute node of a plurality of compute nodes, the one or more ranges of HPAs including a plurality of memory addresses corresponding to different allocation slices of the disaggregated memory pool that are allocated to the compute node. The one or more ranges of HPAs are converted into a contiguous range of device physical addresses (DPAs). For each DPA, a target address decoder (TAD) is identified based on a slice identifier and a slice-to-TAD index. Each DPA is mapped to a media-specific physical element of a physical memory unit of the disaggregated memory pool based on the TAD.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009813 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ACCESS INFORMATION INDICATION METHOD, APPARATUS AND SYSTEM

(51) International classification :H04W 48/02
(31) Priority Document No :202010791732.2
(32) Priority Date :07/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/108857
Filing Date :28/07/2021
(87) International Publication No :WO 2022/028285
(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)LIU, Zhe
2)YU, Zheng
3)WEN, Ronghui
4)ZHANG, Ming

(57) Abstract :
The present application relates to the field of wireless communications, and in particular to an access method in a wireless communication system. The present application is used for solving the problem in the prior art of a network device being unable to flexibly instruct one or more types of terminal devices to perform access, and instruct that another one or more types of terminal devices are forbidden from performing access. The method comprises: a network device sending at least one piece of first information to a first terminal device, the at least one piece of first information being used for indicating at least one of a first access capability and a first access permission; and the first terminal device determining, according to the at least one piece of first information, whether the network device has a capability for the first terminal device to perform access and/or whether to allow the first terminal device to perform access.

No. of Pages : 55 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010386 A
(19) INDIA
(22) Date of filing of Application :16/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS TO CONTROL THERMAL VARIATION DURING TUBE CONSUMPTION IN GLASS TUBE CONVERTING

(51) International classification :C03B 23/043
(31) Priority Document No :63/066475
(32) Priority Date :17/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/044581
Filing Date :05/08/2021
(87) International Publication No :WO 2022/039931
(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)BARNARD, Christelle Ruby
2)MATUSICK, Joseph Michael
3)MCNELIS, Kevin Patrick
4)O'MALLEY, Connor Thomas

(57) Abstract :
Methods for producing articles from a glass tube include securing a working end of the glass tube in a glass tube holder of a converter having a plurality of processing stations including a heating station and a forming station. An initial length of the glass tube includes a plurality of serial segments, each of the plurality of serial segments corresponding to one article and having an article number. The methods include heating the working end of the glass tube in the heating station, adjusting an amount of heating of the glass tube in the heating station based on the article number at the working end of the glass tube, and forming a feature of the article in the forming station. Adjusting the amount of heating based on the article number reduces variation in tube temperature, article dimensions, or both, from one article number to the next article number.

No. of Pages : 50 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010402 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOTIFICATION SYSTEM FOR BUILDINGS

(51) International classification	:G08B 5/00, G08B 21/02, G08B 23/00, G08B 25/04
(31) Priority Document No	:2020-124249
(32) Priority Date	:21/07/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/014497
Filing Date	:05/04/2021
(87) International Publication No	:WO 2022/018909
(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)KAMEI Masamichi

(57) Abstract :
The purpose of the present invention is to provide a notification system that is for buildings, that can be introduced and widely used in ordinary collective housing and office complexes without the need to make a large investment in equipment, and that enables an emergency event taking place in a building 21 to be detected by passersby passing the vicinity of the building. An emergency event display device 1, 41 equipped with a large screen display is installed in a position that is visible to passersby passing outside the building 21. If an emergency event takes place in the building 21, an indication of the emergency event is displayed on the display device 1, 41 upon receipt of notification from a residence or a common use space where a notification means is installed. A display of the display device 1, 41 normally shows an ornamental picture or video so as to soothe the residents walking in and out of the building 21 or of passersby passing in front of the building, whereby the impression of the building can be bolstered. The display device 1, 41 is made noticeable not only to residents but also to passersby passing in front of the building 21 so as to make it possible to report an emergency event in an efficient way and consequently provide safety for the residents.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010413 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR HYDROTREATMENT OF MATERIALS FROM RENEWABLE SOURCES

(51) International classification	:C10G 3/00, B01J 8/04, C10G 49/00, B01J 8/02, C10G 65/04
(31) Priority Document No	:20192161.6
(32) Priority Date	:21/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/073144
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/038265
(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)JANSSEN, Andries Hendrik
3)LAWRENCE, Gerald Max
4)HENKET, Roy Léon Bernard
5)SIGAUD, Julien

(57) Abstract :
A process for hydroprocessing a renewable feedstock involves introducing the renewable feedstock and hydrogen in a downward flow into a top portion of a fixed-bed reactor and distributing the downward flow to a top surface of a first catalyst bed in a manner such that the top surface is uniformly wetted across the reactor cross section. The feedstock then flows downwardly through the first catalyst bed, where it is reacted under hydroprocessing conditions sufficient to cause a reaction selected from the group consisting of hydrogenation, hydrodeoxygenation, hydrodenitrogenation, hydrodesulphurization, hydrodemetallization, hydrocracking, hydroisomerization, and combinations thereof. A hydrocarbon liquid separated from the reaction effluent is recycled to the renewable feedstock in a ratio of 0.4:1 to 1.8:1, based on the volume of the renewable feedstock.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010415 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ONLINE MEASUREMENT OF DISPERSED OIL PHASE IN PRODUCED WATER

(51) International classification :G01N 33/18
(31) Priority Document No :16/942604
(32) Priority Date :29/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/043633
Filing Date :29/07/2021
(87) International Publication No :WO 2022/026660
(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)AHMED, Elaf A.
2)DUVAL, Sebastien A.
3)LESS, Simone
4)ALDOSSARY, Ali S.

(57) Abstract :
Online measurement of dispersed oil phase in produced water can be implemented a method on-site of a flowline transporting a fluid that includes dispersed oil in water. A sample of the fluid flowed through the flowline is obtained. The sample includes the oil phase and the water phase. The sample is combined with a chemical element that can separate the oil phase in the sample from the water phase in the sample. The separated oil phase and the chemical element are transferred into a measurement cell. The chemical element is removed from the measurement cell. After the chemical element is removed from the measurement cell, a quantity of the oil phase in the sample in the measurement cell is determined by a capacitive measurement technique. The determined quantity of the oil phase in the sample is provided.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010554 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ABSORBENT ARTICLE FOR PET

(51) International classification :A01K 23/00
(31) Priority Document No :2020-146100
(32) Priority Date :31/08/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2020/041708
Filing Date :09/11/2020
(87) International Publication No :WO 2022/044349
(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)KOMATSUBARA Daisuke
2)MATSUMOTO Yumi

(57) Abstract :
This absorbent article for a pet has a longitudinal direction, a width direction, and a thickness direction which are orthogonal to one another, and is worn such that the longitudinal direction goes along the waist direction of the pet, the absorbent article comprising, a surface sheet, a rear surface layer, an absorber, and a first leakage suppression part and a second leakage suppression part, wherein: the first leakage suppression part and the second leakage suppression part are provided along the longitudinal direction on both sides in the width direction; the first leakage suppression part has a first joining portion joined to the surface sheet and a first standing portion not joined to the surface sheet; the second leakage suppression unit has a second joining portion joined to the surface sheet and a second standing portion not joined to the surface sheet; and in the center in the longitudinal direction, the sum of the distance from a head-side end of the absorber to the first joining portion and the distance from the first joining portion to an end of the first standing portion is greater than the sum of the distance from a bottom-side end of the absorber to the second joining portion and a distance from the second joining portion to an end of the second standing portion.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010557 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITIVE ELECTRODE ACTIVE MATERIAL FOR NONAQUEOUS ELECTROLYTE SECONDARY BATTERIES, AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

(51) International classification	:C01G 53/04, H01M 4/131, H01M 4/505, H01M 4/525
(31) Priority Document No	:2020-149324
(32) Priority Date	:04/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/031277
Filing Date	:26/08/2021
(87) International Publication No	:WO 2022/050158
(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)MAEKAWA Masanori
2)ISHIKAWA Takayuk
3)NAGATA Kaoru

(57) Abstract :
The purpose of the present disclosure is to provide a positive electrode active material for nonaqueous electrolyte secondary batteries, said positive electrode active material contributing to the achievement of a good balance between the battery capacity and the cycle characteristics. A positive electrode active material for nonaqueous electrolyte secondary batteries according to one embodiment of the present disclosure contains a lithium transition metal composite oxide which is represented by general formula LiaNibCocAldXeOf (wherein 0.9 = a = 1.2; 0.88 = b = 0.96; 0 = c = 0.12; 0 = d = 0.12; 0 = e = 0.1; 1.9 = f = 2.1; (b + c + d) = 1; and X represents at least one element that is selected from among Mn, Mg, Ca, Sr, Ba, Ti, Zr, V, Nb, Ta, Mo, W and B); and the lithium transition metal composite oxide has a pore volume of pores having a pore diameter of 0.3 μm or less of from 6 × 10-4 mL/g to 50 × 10-4 mL/g, while having a particle fracture strength of 120 MPa or more at the volume average particle diameter.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010702 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COPOLYMERIZED PVDF RESIN FOR LITHIUM BATTERY BINDER AND PREPARATION METHOD THEREFOR

(51) International classification	:C08F 214/22, C08F 214/06, C08F 220/18, C08F 220/14, C08F 220/06
(31) Priority Document No	:202010869841.1
(32) Priority Date	:26/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/101494
Filing Date	:22/06/2021
(87) International Publication No	:WO 2022/041977
(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)ZHEJIANG JUHUA CO., LTD.ELECTROCHEMISTRY PLANT
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1)WU, Yupeng
2)HAN, Jinming
3)MA, Congli
4)WU, Zhigang
5)SU, Lanhui
6)WANG, Jinming
7)WANG, Zhengliang
8)ZHAO, Xinben

(57) Abstract :
A copolymerized PVDF resin for a lithium battery binder and a preparation method therefor. The preparation method comprises the following steps: reacting 300-600 parts of deionized water,0.04-0.25 part of a pH buffer regulator, 85-99.5 parts of a vinylidene fluoride (VDF) monomer, 0.5-15 parts of a comonomer, 0.3-3 parts of a metallocene synergist, 0.2-1.0 part of an initiator and 0.08-0.35 part of a dispersant at 40-65? under 5.5-8.0 Mpa; recovering unreacted monomers after the reaction is finished; and washing, filtering and drying same, so as to obtain the copolymerized PVDF resin. The copolymerized PVDF resin for a lithium battery binder improves the binding performance of the PVDF resin to a positive electrode active substance and a current collector, reduces the rotational viscosity of an NMP solution, and reduces the requirements for the formulation and dispersion of a PVDF resin slurry.

No. of Pages : 21 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010728 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BASE STATION, TERMINAL, AND COMMUNICATION METHOD

(51) International classification	:H04W 16/32, H04W 72/04, H04W 92/20
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/029970
Filing Date	:05/08/2020
(87) International Publication No	:WO 2022/029919
(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)YAMAMOTO, Junpei
3)KITAZAWA, Shinichirou
4)TANIGUCHI, Masato
5)YAMADA, Tarou

(57) Abstract :
This base station includes a transmitting unit for transmitting to a terminal, using a first radio access technology (RAT), a message requesting a terminal capability report, a receiving unit for receiving, from the terminal, using the first RAT, a message reporting a terminal capability including a capability relating to the first RAT, a capability relating to a second RAT, and a capability relating to dual connectivity employing the first RAT and the second RAT, and a control unit for determining a candidate list of band combinations used for the dual connectivity, on the basis of the capability relating to the first RAT, wherein: the transmitting unit transmits the candidate list to a base station of the second RAT; and the receiving unit receives, from the base station of the second RAT, information indicating a suitable band combination, selected from the candidate list by the base station of the second RAT on the basis of the capability relating to the second RAT.

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009668 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIDELINK DEVICE DISCOVERY

(51) International classification	:H04W 36/00, H04W 84/04, H04W 88/04, H04W 8/00
(31) Priority Document No	:63/062345
(32) Priority Date	:06/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/057288
Filing Date	:06/08/2021
(87) International Publication No	:WO 2022/029725
(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)GANESAN, Karthikeyan
2)BASU MALLICK, Prateek
3)LOEHR, Joachim
4)KUCHIBHOTLA, Ravi

(57) Abstract :
Apparatuses, methods, and systems are disclosed for sidelink device discovery. One method (900) includes transmitting (902), at a first sidelink device and over a sidelink interface, a periodic discovery message for performing discovery of at least one second sidelink device. The method (900) includes discovering (904) the at least one second sidelink device over the sidelink interface. The method (900) includes transmitting (906) at least one source layer 2 identifier of the at least one second sidelink device discovered by the first sidelink device to a third wireless device.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009692 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SURGICAL INSTRUMENTS WITH DUAL SPHERICAL ARTICULATION JOINT ARRANGEMENTS

(51) International classification :A61B 17/072
(31) Priority Document No :63/057430
(32) Priority Date :28/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IB2021/056757
Filing Date :26/07/2021
(87) International Publication No :WO 2022/023945
(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)HALL, Steven G.
2)WITTE, Spencer J.

(57) Abstract :
Surgical instruments that have articulation joints that include a proximal joint member that defines a proximal face that defines a proximal apex and a distal joint member that defines a distal apex. A linkage assembly retains the proximal apex in rolling inter-engagement with the distal apex. The linkage assembly includes a first link and a second link that are coupled to the proximal joint member for pivotal travel relative thereto about a first proximal pivot axis a second proximal pivot axis. The first link and second link are coupled to the distal joint member for pivotal travel relative thereto about a first distal pivot axis and a second distal pivot axis.

No. of Pages : 116 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317009701 A
(19) INDIA
(22) Date of filing of Application :14/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS AND METHOD FOR INSULATION OF A BODY CARRYING SINGLE-LAYER OR MULTI-LAYER WINDINGS, AND ELECTRIC MACHINE

(51) International classification	:H02K 15/12, H01F 27/02, H01F 41/00
(31) Priority Document No	:20191514.7
(32) Priority Date	:18/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/072183
Filing Date	:09/08/2021
(87) International Publication No	:WO 2022/037988
(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)KATZENBERGER, Tobias
2)PLOCHMANN, Bastian

(57) Abstract :
The invention relates to an apparatus and a method for insulation of a body of an electric machine, said body carrying single-layer or multi-layer windings, and to an electric machine having this type of insulation. The invention first of all provides the possibility for increasing the flow speed of a reactive resin during impregnation, without negatively influencing the viscosity or the toxicity, by chemical additives, and/or the cross-linking, by temperature increase, and/or the volatility, by pressure increase, of the entire system. Rather, the properties of the system, electrical conductivity of the surrounding housing and dielectricity of the reactive resin specifically are advantageously used here without having to accept disadvantages in respect of production technology.

No. of Pages : 17 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009702 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISPLAY ASSEMBLY AND DISPLAY DEVICE

(51) International classification	:G06K 9/00, G09F 9/30
(31) Priority Document No	:202010718348.X
(32) Priority Date	:23/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/107765
Filing Date	:22/07/2021
(87) International Publication No	:WO 2022/017438
(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)LIN, Huaxin

(57) Abstract :
A display component and a display device, related to the technical field of communications. The display assembly comprises: a display panel (10); a cover (20), the cover (20) being provided on the display side of the display panel (10); a diverging element (30), the diverging element (30) being arranged on the side of the cover (20) in proximity to the display panel (10), the diverging element (30) being arranged in a non-display region of the cover (20), the diverging element (30) being used for diverging and then transmitting a light shone thereinto; a transmission module, used for transmitting the light, the transmitting module being provided on the non-display side of the display panel (10) and facing the diverging element (30); and a receiving module (40), the receiving module (40) being provided at the non-display side of the display panel (10) and used for receiving a light reflected by a detection target (80) with respect to the light diverged by the diverging element (30).

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010956 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SOAP BAR COMPOSITION FOR HIGH WATER STRUCTURING AND BINDING

(51) International classification	:C11D 9/04, C11D 9/10, C11D 9/26, C11D 9/38, C11D 17/00
(31) Priority Document No	:202041036066
(32) Priority Date	:21/08/2020
(33) Name of priority country	:India
(86) International Application No	:PCT/US2021/046809
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/040489
(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)NAIR, Padmadas
3)DANDEKAR, Deepak
4)PATEL, Sangeeta Sanjeev
5)VERMA, Amit Kumar

(57) Abstract :
A soap bar is provided, comprising: a soap; water; a cellulose derivative selected from the group consisting of a hydroxyalkyl alkyl cellulose; and an additive selected from the group consisting of a psyllium, a sodium silicate and mixtures thereof; wherein the soap bar is a solid.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010957 A
(19) INDIA
(22) Date of filing of Application :17/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS AND APPARATUS FOR CRYOGENIC SEPARATION OF AIR WITH MIXED GAS TURBINE

(51) International classification :F25J 3/00
(31) Priority Document No :20020419.6
(32) Priority Date :17/09/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/025333
Filing Date :09/09/2021
(87) International Publication No :WO 2022/058043
(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 :Dr.-Carl-von-Linde-Str. 6-14 82049 Pullach Germany
(72)**Name of Inventor :**
1)GOLUBEV, Dimitri

(57) Abstract :
In this process and apparatus for cryogenic separation of air, the separation column system comprises a high-pressure column (12), a low-pressure column (13) and a crude argon column (18). A mixed gas stream (73, 74) produced by mixing gaseous oxygen (72) and a gas stream (31, 71) from the evaporation space of the argon top condenser (21), is work expanded in a mixed gas turbine (75).

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010962 A
(19) INDIA
(22) Date of filing of Application :17/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRICAL CONNECTOR SYSTEM WITH HIGH AMPACITY

(51) International classification	:H01R 13/03, H01R 13/15, H01R 13/18, H01R 13/187, H01R 4/48	(71)**Name of Applicant :** **1)EATON INTELLIGENT POWER LIMITED** Address of Applicant :30 Pembroke Road Dublin 4, D04 Y0C2 Ireland
(31) Priority Document No	:63/068622	(72)**Name of Inventor :**
(32) Priority Date	:21/08/2020	**1)NATTER, Brantley**
(33) Name of priority country	:U.S.A.	**2)DAWSON, James**
(86) International Application No	:PCT/US2021/047180	**3)PAVLOVIC, Slobodan**
Filing Date	:23/08/2021	**4)ZEIDAN, Mohamed**
(87) International Publication No	:WO 2022/040636	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A connector system for use in a power distribution system includes a male terminal assembly, a female terminal assembly and an internal spring. The male terminal assembly includes a male terminal body formed with a spring receiver, a base wall, and a plurality of contact arms extending forward from the base wall and arranged along a curvilinear contact arm path. The contact arms are spatially arranged such that a contact arm opening resides between a pair of contact arms in the plurality of contact arms and no intervening structure of the male terminal body resides between a pair of contact arms in the plurality of contact arms. The internal spring is dimensioned to reside within the spring receiver, and includes a plurality of spring arms arranged along a curvilinear spring arm path.

No. of Pages : 42 No. of Claims : 67

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010963 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMBINED CUTTER FOR ON-LINE MILLING OF STEEL RAIL

(51) International classification	:B23C 5/08, B23C 5/12
(31) Priority Document No	:202010760092.9
(32) Priority Date	:31/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/107282
Filing Date	:20/07/2021
(87) International Publication No	:WO 2022/022326
(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)ZHU, Xing
4)WANG, Lei
5)HAN, Shuangping
6)CHEN, Zhongliang
7)WEI, Qijing
8)LI, Zhenkuan
9)XU, Lei

(57) Abstract :
A combined cutter for on-line milling of a steel rail, comprising a cutter head assembly, the cutter head assembly being connected to a driving device, and further comprising a cutting part, the cutting part being arranged on the cutter head assembly, so as to achieve shaping processing on different areas on two sides of a central line of the top surface of a steel rail (4).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010970 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SERUM ALBUMIN-BINDING POLYPEPTIDES

(51) International classification :C07K 16/28, C07K 14/81, A61P 35/00
(31) Priority Document No :63/059026
(32) Priority Date :30/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2021/071421
Filing Date :30/07/2021
(87) International Publication No :WO 2022/023540
(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)JENKINS, Emma
2)ADAM, Estelle
3)STANLEY, Emma
4)BASRAN, Amrik
5)VINCENT, Matthew P.
6)GOMES, Bruno

(57) Abstract :
Provided herein, in some embodiments, are recombinantly engineered variant of stefin polypeptides (AFFIMER® polypeptides) that binds to human serum albumin and extends the half-life of the polypeptides. Also provided herein, in some embodiments, are composition containing the polypeptides, methods of using the polypeptides, and methods of producing the polypeptides.

No. of Pages : 72 No. of Claims : 60

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010971 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SERUM HALF-LIFE EXTENDED PD-L1 INHIBITORY POLYPEPTIDES

(51) International classification :C07K 16/28, C07K 14/81, A61P 35/00
(31) Priority Document No :63/059026
(32) Priority Date :30/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2021/071417
Filing Date :30/07/2021
(87) International Publication No :WO 2022/023538
(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)ADAM, Estelle
3)STANLEY, Emma
4)BASRAN, Amrik
5)VINCENT, Matthew P.

(57) Abstract :
Provided herein, in some embodiments, are fusion proteins comprising recombinantly engineered variant of stefin polypeptide (an AFFIMER® polypeptide) that binds to PD-L1 and a polypeptide that binds to human serum albumin (HSA). Also provided herein, in some embodiments, are compositions containing the fusion proteins, methods of using the fusion proteins, and methods of producing the fusion proteins.

No. of Pages : 65 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012087 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A DETECTION METHOD FOR VIRAL REPLICATION

(51) International classification	:C12Q 1/70, C12Q 1/04
(31) Priority Document No	:2020902624
(32) Priority Date	:27/07/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050814
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/020886
(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)HUYGENS, Flavia
2)SIMMS, Lisa

(57) Abstract :
The present invention relates to a method for detecting replication of severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in a sample, said method including the steps of: (a) amplifying a target nucleic acid from a portion of subgenomic mRNA of SARS-CoV-2 from the sample; and (b) detecting the presence or absence of the target nucleic acid amplified in step (a).

No. of Pages : 51 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012088 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR SEPARATING COBALT AND NICKEL

(51) International classification	:C22B 23/00, C22B 3/08, C22B 3/44
(31) Priority Document No	:2020-148388
(32) Priority Date	:03/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/031833
Filing Date	:31/08/2021
(87) International Publication No	:WO 2022/050248
(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)MIYAZAKI Atsushi
2)MURAOKA Hiroki

(57) Abstract :
This method comprises: a heat treatment step (S1) wherein a heat treatment is carried out by heating a lithium ion secondary battery; a grinding and sorting step (S2) wherein the lithium ion secondary battery after the heat treatment is ground and sorted, thereby obtaining an electrode material that contains at least cobalt, nickel, copper and lithium; a leaching step (S3) wherein the electrode material is immersed in a treatment solution that contains sulfuric acid and hydrogen peroxide, thereby obtaining a leachate; a copper separation step (S4) wherein a hydrogen sulfide compound is added to the leachate, and the resulting solution is stirred and subsequently subjected to solid-liquid separation, thereby obtaining an elution solution that contains cobalt and nickel, and a residue that contains copper sulfide; and a cobalt·nickel separation step (S5) wherein after adjusting the pH of the elution solution by adding an alkali metal hydroxide thereto, a hydrogen sulfide compound is added thereto and the resulting solution is stirred and subsequently subjected to solid-liquid separation, thereby obtaining a sediment that contains cobalt sulfide and nickel sulfide, and a residual liquid that contains lithium.

No. of Pages : 33 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010441 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DENDRIMER COMPOSITIONS AND METHODS FOR DRUG DELIVERY TO INJURED KIDNEY

(51) International classification :A61K 31/198, A61K 49/00, A61K 9/00
(31) Priority Document No :63/053228
(32) Priority Date :17/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/042097
Filing Date :16/07/2021
(87) International Publication No :WO 2022/016120
(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)RANGARAMANUJAM, Kannan
3)KANNAN, Sujatha
4)SHARMA, Rishi
5)APPIANI LA ROSA, Santiago

(57) Abstract :
In some aspects, the disclosure provides methods of treating or preventing one or more symptoms of a kidney injury, disease or disorder in a subject in need thereof. In some embodiments, the method comprises administering to the subject a dendrimer complexed, covalently conjugated, or intra-molecularly dispersed or encapsulated with one or more therapeutic or prophylactic agents, in an amount effective to treat, alleviate or prevent one or more symptoms of a kidney injury, disease or disorder. In some embodiments, the dendrimer is a. generation 4, 5, 6, 7, or 8 poly(amidoamine) (PAMAM) dendrimers, and the therapeutic agents are one or more anti -inflammatory agents and/or PPAR-d agonists.

No. of Pages : 62 No. of Claims : 41

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010449 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC DEVICE COMPRISING ANTENNA, AND OPERATION METHOD

(51) International classification :H01Q 1/24, H04M 1/02, H01Q 1/46
(31) Priority Document No :10-2020-0097307
(32) Priority Date :04/08/2020
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2021/010191
Filing Date :04/08/2021
(87) International Publication No :WO 2022/030977
(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)YUN, Himchan
2)CHOI, Nakchung
3)YOON, Shinho
4)HWANG, Soonho

(57) Abstract :
An electronic device according to various embodiments of the present disclosure comprises a frame structure forming at least a part of a side of the electronic device, wherein the side formed by the frame structure can comprise a first edge, a second edge perpendicular to the first edge, and a third edge parallel to the first edge. The frame structure can comprise: a first insulating portion positioned at one point on the first edge; a first conductive portion; a second conductive portion distanced from the first conductive portion by means of a second insulating portion and corresponding to a part of the second edge; and a third conductive portion distanced from the second conductive portion by means of a third insulating portion positioned at a second point on the second edge, and extending to the third edge. The electronic device according to various embodiments comprises: a wireless communication circuit; a first switching circuit connecting the first conductive portion and/or the second conductive portion with the wireless communication circuit; a second switching circuit connecting the second conductive portion and/or the third conductive portion with the wireless communication circuit; and a proximity sensor for detecting the proximity of a human body to the first edge. Power can be fed in accordance with the proximity state of a human body detected by the proximity sensor.

No. of Pages : 52 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010453 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VARIABLE RADIUS UNDER MODULE BEARING

(51) International classification	:H02S 20/32, H02S 20/30, H02S 30/10, H02S 20/10, F16M 11/18
(31) Priority Document No	:63/066660
(32) Priority Date	:17/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/046301
Filing Date	:17/08/2021
(87) International Publication No	:WO 2022/040181
(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)AU, Alexander W.
2)DELGADO-NANEZ, Ricardo

(57) Abstract :
A solar tracker bearing and a solar tracker incorporating the bearing, the bearing including at least one rotatable part, the rotatable part including a notch for receiving a torque tube, a slot, formed in the rotatable part and extending below the notch, the slot defining an arc having multiple radii, at least one engagement member configured to be received in the slot, and at least one base configured to secure the engagement member in the slot and to secure the bearing to a pier.

No. of Pages : 15 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202317010454 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MULTIPLE WALL CONNECTION OVER PIERS

(51) International classification :H02S 20/32, F24S 30/425
(31) Priority Document No :63/066653
(32) Priority Date :17/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/046321
Filing Date :17/08/2021
(87) International Publication No :WO 2022/040194
(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)MORIN, Jacob Mark
3)AU, Alexander, W.
4)HELLER, Samuel

(57) Abstract :
A solar tracker including at least one pair of piers configured to be secured in the ground and defining a span between the pair, a bearing supported on the pier, and a torque tube supported in the bearing such that the bearing enables rotation of the torque tube, the torque tube including a double wall thickness area, wherein the double wall thickness area limits deflection of the torque tube along the span.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012439 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HINGED DUAL DISPLAY COMPUTING DEVICE

(51) International classification :G06F 1/16, G06F 3/041
(31) Priority Document No :63/076304
(32) Priority Date :09/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/034682
Filing Date :28/05/2021
(87) International Publication No :WO 2022/055577
(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)PALMOR, Idan
2)PUNDAK, Gilad
3)SLASSI, Matan
4)BIRENBERG, Dmitry
5)LINENBERG, Nadav

(57) Abstract :
A computing device is provided comprising a processor, a first display device having a first capacitive touch sensor, a second display device having a second capacitive touch sensor, and a hinge positioned between and coupled to each of the first display device and the second display device, the first display device and second display device being rotatable about the hinge and separated by a hinge angle. The processor is configured to detect the hinge angle at a first point in time, determine that the hinge angle at the first point in time is outside a first predetermined range, and upon at least determining that the hinge angle is outside the first predetermined range, perform run-time calibration of at least a plurality of rows of the capacitive touch sensor of the first display device and of the capacitive touch sensor of the second display device.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012101 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS FOR PRODUCING CLINICAL-GRADE LENTIVIRAL VECTOR

(51) International classification :C12N 15/86, C12N 9/22
(31) Priority Document No :63/065225
(32) Priority Date :13/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/045677
Filing Date :12/08/2021
(87) International Publication No :WO 2022/036048
(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)RAHIMIAN, Maryam

(57) Abstract :
Described are improved methods for manufacturing and purifying clinical-grade retroviral vectors, such as lentiviral vectors.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012107 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLANT BASED SOFT SERVE FROZEN DESSERT COMPOSITION

(51) International classification	:A23G 9/04, A23G 9/32, A23G 9/38, A23G 9/52, A23J 3/14
(31) Priority Document No	:20195593.7
(32) Priority Date	:10/09/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/074969
Filing Date	:10/09/2021
(87) International Publication No	:WO 2022/053633
(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)WOOSTER, Timothy, James
2)BORTOLIN, Marina
3)RICHON, Pierre-Alain
4)GERBER, Beat
5)HUGO, Julien

(57) Abstract :
The invention relates to a plant based liquid or a frozen dessert, said plant based liquid or frozen dessert comprising (i) a dry fractionated plant protein, (ii) sugar or a polyol; (iii) optionally one or more hydrocolloid(s); (iv) one or more emulsifiers; (v) a fat phase, wherein said fat phase solidifies at a temperature less than 30°C, and wherein said fat phase comprises one or more fat sources.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012111 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : UPLINK PARAMETER INDICATION METHOD FOR PPDU AND RELATED DEVICE

(51) International classification	:H04W 48/16, H04W 72/12
(31) Priority Document No	:202010852462.1
(32) Priority Date	:21/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/113629
Filing Date	:19/08/2021
(87) International Publication No	:WO 2022/037657
(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)YU, Jian

(57) Abstract :
The present application relates to the field of wireless communications, applied in, for example, a wireless local area network supporting the 802.11be standard, and in particular, to an uplink parameter indication method for a PPDU and a related device. The method comprises: an AP generates a trigger frame and sends same, the trigger frame comprising an uplink length field; the uplink length field being used for indicating the length indicated by an L-SIG field in an HE TB PPDU and an EHT PPDU, or the uplink length field being used for indicating the length indicated by an L-SIG field in an EHT PPDU. The length value indicated by the uplink length field is a positive integer, and is a multiple of 3 minus 2. By implementing embodiments of the present application, a trigger frame of 802.11ax can be reused to schedule a station to send the EHT PPDU of a specified uplink parameter without the need to redesign a new trigger frame, thereby reducing the complexity and reducing the signaling overhead.

No. of Pages : 64 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012118 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEAT STORAGE APPARATUS, HEAT EXCHANGE APPARATUS, CONTROL METHOD, CONTROL COMPONENT AND THERMAL MANAGEMENT SYSTEM

(51) International classification :F28D 20/02
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/110106
Filing Date :19/08/2020
(87) International Publication No :WO 2022/036608
(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)FENG, Hui
2)WANG, Deyuan
3)YU, Guojun
4)LIU, Yalin

(57) Abstract :
The present application discloses a heat storage apparatus, a heat exchange apparatus, a control method, a control component and a thermal management system. The heat storage apparatus comprises a second connection component and a heat exchange pipeline. The second connection component comprises a third connection port and a fourth connection port. A passage for exchanging a heat exchange liquid may be formed between the third connection port, the fourth connection port, the heat exchange pipeline and a liquid storage component in the heat exchange apparatus, a power pump, a first connection port and a second connection port of a first connection apparatus. The heat exchange pipeline stores a heat exchange liquid, and the heat exchange liquid stored in the heat exchange pipeline is used for performing heat exchange on a heat exchange-requiring device. The present application utilizes the heat storage capability of a heat exchange liquid to exchange heat with a heat exchange-requiring device, and is applied to a smart automobile, a self-driving automobile, a new energy automobile, an electric vehicle or a fuel vehicle. In the case where the heat exchange-requiring device generates a large amount of heat, the heat generated by the heat exchange-requiring device can be quickly absorbed, so that the heat exchange-requiring device can be quickly cooled.

No. of Pages : 49 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012119 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HOUSEHOLD DEVICE CONTROL METHOD AND DEVICE

(51) International classification :H04L 12/28, H04W 4/80
(31) Priority Document No :202010981147.9
(32) Priority Date :17/09/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/113214
Filing Date :18/08/2021
(87) International Publication No :WO 2022/057557
(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)XU, Tianliang
2)LIU, Bingyi
3)SHI, Rui
4)MA, Liangliang

(57) Abstract :
A household device control method and a device, relating to the technical field of communications. Regardless of whether a household device is networked and registered or not, an electronic device can realize control of the household device, and can simplify a control process of the household device. The household device comprises a first antenna having a first distance as a transmitting distance and a second antenna having a second distance as a transmitting distance, the first distance being less than the second distance. When detecting that the household device satisfies a preset condition (for example, N first messages broadcast by the household device are received within a first preset duration), the electronic device sends a second message to the household device to instruct the household device to use the first antenna and obtain a random code; the random code sent by the household device using the first antenna is received; a wireless local area network is accessed according to the random code and configuration information comprising an interface element of a control page and a control instruction for controlling the household device is obtained; the control page is displayed and interaction with a user is performed by means of the control page, and the control instruction is sent to the household device by means of the wireless local area network to control the household device.

No. of Pages : 94 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009814 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHANNEL ACCESS METHOD AND COMMUNICATION DEVICE

(51) International classification :H04W 74/08
(31) Priority Document No :202010820393.6
(32) Priority Date :14/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/108623
Filing Date :27/07/2021
(87) International Publication No :WO 2022/033297
(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)YANG, Bo
2)YANG, Yongchao
3)LYU, Yunping
4)HU, Yinliang

(57) Abstract :
The present application relates to the technical field of wireless fidelity, and relates in particular to a channel access method and a communication device. The method herein comprises: a first access point sends a management frame to a first device, the management frame comprising first indication information, the first indication information being used to indicate at least one first reserved resource that is allowed to be used competitively for a first service, and the at least one first reserved resource only comprising time-frequency resources reserved for the first service; then, the first device initiates channel access on the at least one first reserved resource and transmits the first service. Since the at least one first reserved resource is reserved exclusively for the first service, it is believed that another non-first service does not compete to use the at least one first reserved resource, which can increase the opportunities for the first service to access a channel. After each time the first device accesses a channel, the first service can be sent or the first service can be scheduled continuously in the at least one first reserved resource, thereby reducing the transmission delay of the first service.

No. of Pages : 64 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202317009817 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD, APPARATUS AND SYSTEM

(51) International classification :H04W 24/02, H04W 72/12, H04L 5/00
(31) Priority Document No :202010872834.7
(32) Priority Date :26/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/114531
Filing Date :25/08/2021
(87) International Publication No :WO 2022/042600
(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)FENG, Shulan
2)SHA, Tong
3)CHANG, Junren
4)LIU, Jianghua

(57) Abstract :
The present application provides a communication method, apparatus and system, comprising: determining the need of an update to a first capability set; transmitting a first message to a network device, the first message being used for indicating that a terminal device needs an update to the first capability set, the first capability set comprising some capabilities in a second capability set, and the second capability set being a capability set obtained by negotiating with the network device when the terminal device initially accesses the network device. In the method, when a capability supported by the terminal device changes, the terminal device transmits the first message to the network device to instruct the network device to update a scheduling capability of the terminal device, so that the signaling redundancy and transmission power consumption can be effectively reduced, and the capability negotiation with the network device can be performed more flexibly.

No. of Pages : 62 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011892 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTIPARASITIC COMPOSITION AND USES THEREOF

(51) International classification	:A23K 20/158, A23K 50/75, A23K 50/80, A61K 31/19, A01N 25/00
(31) Priority Document No	:20305865.6
(32) Priority Date	:28/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/071218
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/023449
(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)CASTIER, Julie
4)FROUEL, Stéphane

(57) Abstract :
The invention relates to a pest control product, an antiparasitic composition containing this product and uses thereof, the product and thus the composition comprising at least one mono-, di- or triglyceride of at least one C6 fatty acid, or a mixture thereof.

No. of Pages : 47 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011906 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOUDSPEAKER

(51) International classification	:G09F 270000, H04M 090800, H04R 010200, H04R 090600, H04R 310000
(31) Priority Document No	:PCT/CN2021/071875
(32) Priority Date	:14/01/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/125855
Filing Date	:22/10/2021
(87) International Publication No	:WO 2022/151791
(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)FU, Junjiang
2)ZHANG, Lei
3)LIAO, Fengyun
4)QI, Xin

(57) Abstract :
Disclosed in embodiments of the present description is a loudspeaker. The loudspeaker comprises: a vibration assembly, the vibration assembly comprising a vibration element and a vibration housing, the vibration element converting an electrical signal into mechanical vibration, and the vibration housing being in contact with the facial skin of a user; and a first elastic element, the first elastic element being elastically connected to the vibration housing.

No. of Pages : 64 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011915 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOUNDS

(51) International classification	:C07D 487/04, A61P 35/00
(31) Priority Document No	:2020902630
(32) Priority Date	:27/07/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050816
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/020888
(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)FEUTRILL, John Thomas
2)GARNIER, Jean-Marc
3)FRAUMAN, Albert George

(57) Abstract :
The present invention relates to compounds of formula (I) that have the ability to inhibit CD151.

No. of Pages : 147 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317011916 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : RESOURCE AWARENESS METHOD AND COMMUNICATION APPARATUS

(51) International classification :H04W 4/40
(31) Priority Document No :202010785378.2
(32) Priority Date :06/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/110145
Filing Date :02/08/2021
(87) International Publication No :WO 2022/028379
(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)YANG, Fan

(57) Abstract :
Embodiments of the present application provide a resource awareness method and a communication apparatus. The resource awareness method can comprise: a first terminal device determines, in a first selection window, a first candidate resource set used for sidelink transmission, and the first terminal device determines a second candidate resource set according to a resource awareness result in a first awareness window, the second candidate resource set being a universal set or a subset of the first candidate resource set; and the first terminal device performs awareness on a sidelink resource in a second awareness window, and sends a resource awareness result in the second awareness window to a second terminal device at a first moment, the first moment being determined according to the second candidate resource set. By using the embodiments of the present application, the accuracy of resource awareness can be improved, and the probability of resource collision can be reduced.

No. of Pages : 53 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012120 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR HARQ FEEDBACK IN RRC INACTIVE STATE

(51) International classification :H04W 72/04
(31) Priority Document No :16/937823
(32) Priority Date :24/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CN2021/104733
Filing Date :06/07/2021
(87) International Publication No :WO 2022/017172
(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)HERATH, Sanjeewa
2)ABDOLI, Javad

(57) Abstract :
Systems and methods for transmitting uplink control information, for example ACK/NACK, while in RRC_inactive state, are provided. Uplink control information is transmitted while in RRC_INACTIVE state by transmitting a sequence from a set of possible sequences to convey the uplink control information, the transmitted sequence associated with a value of the uplink control information. The sequence is asynchronously transmitted. Signalling may be used to configure a transmission resource within which to transmit the sequence, wherein the transmission resource has a time duration that is longer than a time duration to transmit the sequence. This has the effect of introducing a gap following sequence transmission that can ensure the sequence transmission does not interfere with a data transmission.

No. of Pages : 53 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012123 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MAGNETIC CONNECTOR

(51) International classification :B42F 13/00
(31) Priority Document No :2011875.8
(32) Priority Date :30/07/2020
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2021/051925
Filing Date :27/07/2021
(87) International Publication No :WO 2022/023726
(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 :41 Sunningwell Road Oxford Oxfordshire OX1 4SZ U.K.
(72)**Name of Inventor :**
1)STEWART, Alexander Malcolm Shaw
2)LAST, Andrew James
3)CROSS, Duncan

(57) Abstract :
A magnetic connector comprising a male part and a female part, in which said male part comprises a first side and a second side extending from said first side at an oblique angle thereto, in which said male part comprises a first metal portion comprising a first metal surface on said second side, in which said second side comprises a protrusion proud of said first metal surface, in which said female part comprises a third side and a fourth side extending from said third side at an oblique angle thereto, in which said female part comprises a second metal portion comprising a second metal surface on said fourth side, in which said fourth side comprises a slot for receiving said protrusion, in which at least one of said first metal portion and said second metal portion is magnetic and attracts the other.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012124 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTINUOUS INFRARED SPECTROSCOPY SYSTEM AND METHOD

(51) International classification	:G01N 21/25, G01N 21/552, G01N 35/00
(31) Priority Document No	:2016426.5
(32) Priority Date	:16/10/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/052673
Filing Date	:15/10/2021
(87) International Publication No	:WO 2022/079443
(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)DXCOVER LIMITED
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(72)**Name of Inventor :**
1)BAKER, Matthew J
2)HEGARTY, Mark
3)BUTLER, Holly Jean

(57) Abstract :
A sample support apparatus (150) for use in a spectrometer (285), comprises an elongate support (110) comprising a plurality of receiving portions (112) each configured to receive a respective internal reflection element (IRE) or IRE slide (135), the elongate support having a sample side and a beam side opposite the sample side; and a plurality of IREs or IRE slides (135), each IRE or IRE slide provided at a respective receiving portion (112) of the elongate support (110), wherein each IRE or IRE slide (135) has at least one sample-receiving portion provided on a sample side thereof, and at least one beam-receiving portion provided on a beam side thereof. The sample support apparatus (150) has a stowed configuration, and a deployed configuration configured to allow application of a sample (276) on one or more of the plurality of IREs or IRE slides (135).

No. of Pages : 23 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012125 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD AND DEVICE

(51) International classification :H04W 72/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/107995
Filing Date :07/08/2020
(87) International Publication No :WO 2022/027676
(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)HUA, Meng
2)JIAO, Shurong

(57) Abstract :
The present application relates to the technical field of communications and provides a communication method and device for improving the uplink transmission performance of a terminal device. The method comprises: when a network device configures for a terminal device a first frequency domain resource for uplink transmission, the terminal device performs a condition determination. When the power headroom of the terminal device is less than a first threshold value, or the ratio between the volume of uplink data to be transmitted by the terminal and the TBS configured by the network device for the uplink transmission is less than a second threshold value, the terminal device selects a second frequency domain resource having fewer subcarriers for uplink transmission. Since the terminal device performs uplink transmission on the second frequency domain resource having fewer subcarriers, the power allocated to each subcarrier can be increased, or the size of the TBS can be reduced, and the uplink transmission performance of the terminal device can thus be improved.

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317011917 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD, APPARATUS AND SYSTEM

(51) International classification :H04W 12/02
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/107567
Filing Date :06/08/2020
(87) International Publication No :WO 2022/027513
(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)LEI, Ao
2)LI, He
3)WU, Yizhuang
4)WU, Rong

(57) Abstract :
The embodiments of the present application provide a communication method, apparatus and system, for solving the problem in a V2X scenario that a PC5 unicast establishment failure caused by inconsistency of security parameters of terminal devices at two ends when security negotiation is introduced into a PC5 unicast establishment process. The communication method comprises: a first direct communication discovery name management function network element acquiring a security parameter of a first terminal device, the security parameter being a security parameter required for establishing a PC5 connection between the first terminal device and a second terminal device; the first direct communication discovery name management function network element receiving a security parameter of the second terminal device from a second direct communication discovery name management function network element; and the first direct communication discovery name management function network element determining, according to whether the security parameter of the first terminal device matches the security parameter of the second terminal device, whether the first terminal device and the second terminal device support mutual communication.

No. of Pages : 76 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023

(21) Application No.202317011935 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AN INTERCONNECTABLE MICRO DATA CENTER MODULE

(51) International classification	:H05K 7/14, G06F 1/20, H05K 7/20
(31) Priority Document No	:2020903021
(32) Priority Date	:24/08/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050938
Filing Date	:23/08/2021
(87) International Publication No	:WO 2022/040730
(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)KEELER, Clinton Sevier

(57) Abstract :
Exemplary embodiments provide an interconnectable micro data center module comprising walls that define an internal area adapted to receive server hardware apparatus, a first surface adapted for interconnection with a first module, interconnectable transmission means to facilitate power and data flow between the micro data center module and the first module, and a sensor device capable of determining when the micro data center module is interconnected with the first module.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011936 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR PREPARING ALKYL-D-ALANINATE

(51) International classification	:C07C 213/06, C07C 213/10, C07C 213/02, C07C 219/32
(31) Priority Document No	:10-2020-0115468
(32) Priority Date	:09/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/012254
Filing Date	:09/09/2021
(87) International Publication No	:WO 2022/055267
(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)KANG, Myoungku
2)LEE, Kyungwon
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4)CHO, Jaiha
5)LEE, Wonjae
6)JEONG, Dae Youn
7)SEO, Yongsik
8)ROH, Sang Weon

(57) Abstract :
The present specification relates to a method for preparing alkyl-D-alaninate, the method comprising a step for supplying an inert gas into a reaction solution when using aniline to synthesize alkyl-D-alaninate.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011962 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BIFIDOBACTERIUM BREVE 207-1 AND USE THEREOF

(51) International classification :C12N 1/20, C12N 1/18, C12N 1/16, A23C 19/00, A23L 33/135
(31) Priority Document No :202010858666.6
(32) Priority Date :24/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/074857
Filing Date :02/02/2021
(87) International Publication No :WO 2022/041658
(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)ZE, Xiaolei
2)ZHANG, Xuguang
3)HE, Ruikun
4)HE, Fang

(57) Abstract :
Provided are bifidobacterium breve 207-1 and a composition, a culture, a food product or a dietary supplement comprising same, and use thereof in the preparation of drugs or health care products.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011963 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LACTOBACILLUS PARACASEI 207-27 AND APPLICATION THEREOF

(51) International classification	:C12N 1/20, C12N 1/18, C12N 1/16, A23C 9/12, A23C 19/00
(31) Priority Document No	:202010858415.8
(32) Priority Date	:24/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/074672
Filing Date	:01/02/2021
(87) International Publication No	:WO 2022/041656
(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)ZE, Xiaolei
3)HE, Ruikun
4)HE, Fang

(57) Abstract :
Provided is lactobacillus paracasei or offspring thereof.Also provided are a composition, culture, food product or dietary supplement comprising the lactobacillus paracasei, and a use of the composition, culture, food product or dietary supplement in medications.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317011998 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RESPIRATORY TRACT AND EYE PROTECTION MASK

(51) International classification :A41D 13/11
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/GE2020/050003
Filing Date :22/07/2020
(87) International Publication No :WO 2022/018465
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(72)**Name of Inventor :**
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(57) Abstract :
The present invention relates to the field of medicine and hygiene, more particularly to devices for protecting human respiratory tract and eyes from microorganisms causing airborne diseases as well as from small size particles. The mask for protecting against small size particles as well as from microorganisms causing airborne diseases comprises a supporting structure for exactly fitting on a face that is made of silicon or the elastic like material having at least one opening, the supporting structure having permanent magnets or fasteners capable of mechanically fixing being arranged in or on the supporting structure so as to enable to fix various type (medicinal, arty-crafty and other) masks in the supporting structure in a required position as well as to fix various (optical, sun protection and light filtering) eye protection barriers or eyewear onto the supporting structure.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010729 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PAGING EXTENSIONS

(51) International classification	:H04W 68/00, H04W 68/02
(31) Priority Document No	:63/063145
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/057335
Filing Date	:09/08/2021
(87) International Publication No	:WO 2022/029742
(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)BASU MALLICK, Prateek
2)KUCHIBHOTLA, Ravi
3)LOEHR, Joachim
4)VELEV, Genadi
5)CHOI, Hyung-Nam

(57) Abstract :
Apparatuses, methods, and systems are disclosed for extended paging messages. One User Equipment (UE) apparatus (900) in a mobile communication network includes a processor (905) and a transceiver (925) that sends (1105) a message to a network node (1000), with the message indicating that the UE apparatus (900) supports paging extensions. The transceiver (925) receives (1110) a confirmation message from the network node (1000), with the confirmation message notifying the UE apparatus (900) to expect paging extensions. The transceiver (925) receives (1115) paging Downlink Control Information (DCI) with a cyclic redundancy check (CRC) scrambled by a Paging Radio Network Temporary Identifier (P-RNTI), where the paging DCI schedules a Physical Downlink Shared Channel (PDSCH) transmission. The transceiver (925) receives (1120) a paging message in the PDSCH transmission. The processor (905) identifies (1125) a paging extension for the UE in the paging DCI and/or the paging message.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010737 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : THERAPEUTIC AGENTS AND USES THEREOF

(51) International classification :A61K 31/437, A61K 31/11, C07D 471/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2020/042933
Filing Date :21/07/2020
(87) International Publication No :WO 2022/019892
(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)ZAID, Gene H.
2)BURGOYNE, Thomas W.

(57) Abstract :
Human therapeutic compositions are provided, comprising compounds including a plurality of fused polycyclic moieties and a linker moiety. In certain embodiments, the compounds are the reaction products of aldehyde and harmaline components. The compositions exhibit anti- cancer properties, especially against lymphoma, leukemia, pancreatic, endometrial, ovarian, gastric, breast, renal, cervical, head and neck, and myeloma cell lines.

No. of Pages : 150 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010743 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTENNA FILTER AND ELECTRONIC DEVICE INCLUDING SAME IN WIRELESS COMMUNICATION SYSTEM

(51) International classification	:H01P 1/207, H01Q 3/26, H04B 7/0413
(31) Priority Document No	:10-2020-0091974
(32) Priority Date	:23/07/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/009595
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/019722
(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)KOO, Bonmin
3)KIM, Jonghwa
4)KIM, Jihye
5)NA, Inho
6)SHIN, Dongsik
7)YOON, Seunghwan
8)ZEONG, Jongwook

(57) Abstract :
The present disclosure relates to a 5th generation (5G) or pre-5G communication system for supporting a higher data transfer rate than a 4th generation (4G) communication system, such as long term evolution (LTE). According to various embodiments of the present disclosure, an antenna module comprises a filter for filtering a radio frequency (RF) signal, and a sub printed circuit board (PCB), the sub PCB comprises a passive circuit for processing the RF signal, and, the sub PCB may be coupled to the filter such that the filter operates as a bumper when being coupled to a filter board.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010746 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NEGATIVE ELECTRODE FOR SECONDARY BATTERY, COMPRISING ACTIVE MATERIAL LAYERS HAVING DIFFERENT COMPOSITIONS, AND ELECTRODE ASSEMBLY AND SECONDARY BATTERY COMPRISING SAME

(51) International classification :H01M 4/133, H01M 4/62, H01M 10/0525
(31) Priority Document No :10-2021-0091135
(32) Priority Date :12/07/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/009475
Filing Date :30/06/2022
(87) International Publication No :WO 2023/287076
(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)NOH, Taegyun

(57) Abstract :
The present invention relates to: a secondary battery negative electrode in which a negative electrode active material layer is formed on at least one surface of a negative electrode current collector; and an electrode assembly and a secondary battery comprising same, the negative electrode active material layer comprising a planar first negative electrode active material layer and a second negative electrode active material layer formed on one or both surfaces of the first negative electrode active material layer, wherein the first negative electrode active material layer comprises uncoated graphite as a first negative electrode active material, and the second negative electrode active material layer comprises carbon-coated graphite as a second negative electrode active material.

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010751 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENHANCED DUAL PHASE MEMBRANES FOR SEPARATING CARBON FROM CARBON-CONTAINING FEED GASES AND SEPARATION METHODS USING THE SAME

(51) International classification	:B01D 61/38, B01D 53/22, B01D 69/10, B01D 71/02
(31) Priority Document No	:63/068081
(32) Priority Date	:20/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/046842
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/040500
(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)MERRILL, Matthew
2)KELLY, Jesse

(57) Abstract :
Dual phase membranes include a porous support providing a solid phase having a matrix of connected pores, and a liquefiable ion transport phase within the pores of the porous support. The ion transport phase is formed of at least one alkali metal hydroxide, and at least one oxide ion transport agent providing a source of ions selected from the group consisting of borate ions, nitrate ions, phosphate ions, vanadate ions, niobate ions or sulfate ions. The at least one alkali metal hydroxide may be selected from the group consisting of NaOH, KOH, LiOH, RbOH, CsOH and mixtures thereof. The oxide ion transport agent is preferably present in the ion transport phase in an amount between about 1 to about 30 molar %. Substantially lower operational temperatures may be realized when the membrane is used to separate CO2 from a feed gas.

No. of Pages : 18 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012440 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW POWER CRYO-CMOS CIRCUITS WITH NON-VOLATILE THRESHOLD VOLTAGE OFFSET COMPENSATION

(51) International classification	:H03K 19/195, H03K 19/00
(31) Priority Document No	:17/013941
(32) Priority Date	:08/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/035076
Filing Date	:01/06/2021
(87) International Publication No	:WO 2022/055578
(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)REILLY, David J.

(57) Abstract :
Systems and methods related to low power cryo-CMOS circuits with non-volatile threshold voltage offset compensation are provided. A system (700) includes a plurality of devices (760) configured to operate in a cryogenic environment (300 K), where a first distribution of a threshold voltage associated with the plurality of devices (760) has a first value indicative of a measure of spread of the threshold voltage. The system (700) further includes control logic (712, 714), coupled to each of the plurality of devices (760), configured to modify (714out) a threshold voltage associated with each of the plurality of devices (760) such that the first distribution is changed to a second distribution having a second value of the measure of spread of the threshold voltage representing a lower variation among threshold voltages of the plurality of devices.

No. of Pages : 20 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023

(21) Application No.202317012441 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BALANCED DISCHARGE IN MULTI-BATTERY SYSTEM

(51) International classification	:H02J 7/00, H02J 7/34, H01M 10/44
(31) Priority Document No	:63/076044
(32) Priority Date	:09/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/033282
Filing Date	:20/05/2021
(87) International Publication No	:WO 2022/055566
(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)JUSTIN, Ajit

(57) Abstract :
A multi-battery system implements operations to equalize discharge path impedance. The system includes first and second batteries of different capacities each coupled to a battery rail that supports source load electronics. The system includes charge control electronics configured to decouple the first battery from the battery rail when the discharge path of the first battery and the discharge path of the second battery have unequal impedance and to recouple the first battery to the battery rail when the discharge path of the first battery and the discharge path of the second battery have substantially equal impedance.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012442 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPUTING DEVICE WITH INDEPENDENTLY COHERENT NODES

(51) International classification	:G06F 12/02, G06F 12/06, G06F 3/06, G06F 9/50
(31) Priority Document No	:17/016156
(32) Priority Date	:09/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/035078
Filing Date	:01/06/2021
(87) International Publication No	:WO 2022/055580
(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)TAVALLAEI, Siamak
2)AGARWAL, Ishwar

(57) Abstract :
A computing device comprises two or more compute nodes, that each include two or more processor cores. Each compute node comprises an independently coherent domain that is not coherent with other compute nodes. A central IO die is communicatively coupled to each of the two or more compute nodes. A plurality of natively-attached volatile memory units are attached to the central IO die via one or more memory controllers. The central IO die includes one or more home agents for each compute node. The home agents are configured to map memory access requests received from the compute nodes to one or more addresses within the natively attached volatile memory units.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012449 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMPLANT USING NANOCOMPOSITE HYDROGEL

(51) International classification	:A61L 27/02, A61L 27/10, A61L 27/16, A61L 27/52
(31) Priority Document No	:2020-130868
(32) Priority Date	:31/07/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/028245
Filing Date	:30/07/2021
(87) International Publication No	:WO 2022/025225
(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)JBM INCORPORATION
(72)**Name of Inventor :**
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2)HARAGUCHI, Kazutoshi

(57) Abstract :
The present invention addresses the problem of providing an implant capable of maintaining, even when being implanted in a body for a long period of time, desirable mechanical properties, non-bioabsorbable properties, and/or biocompatibility. Said problem is solved through provision of an implant characterized by containing a nanocomposite hydrogel obtained through formation of an organic-inorganic network structure in which an amide group-containing polymer compound and an inorganic clay nano-sheet are linked.

No. of Pages : 28 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012452 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TOILET DEVICE AND TOILET SEAT DEVICE

(51) International classification :A47K 13/10, E03D 5/10
(31) Priority Document No :2020-132878
(32) Priority Date :05/08/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/027240
Filing Date :20/07/2021
(87) International Publication No :WO 2022/030256
(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 : NA**
Address of Inventor : NA

(57) Abstract :
When there is a washing command from a washing command means and a toilet lid 20 is open, a toilet lid closing action of a toilet lid driving unit 22 is initiated, and a sequence action, in which a toilet washing unit 13 performs a washing action, is allowed after the toilet lid 20 is closed. A washing command according to a timer setting is included among the washing commands from the washing command means. When there is a washing command according to the timer setting, a control unit 5 disallows the sequence action while the toilet lid 20 is open, and causes the toilet washing unit 13 to perform a bowl 12 washing action regardless of whether the toilet lid 20 is open or closed.

No. of Pages : 40 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012144 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEATSINK, METHOD FOR MANUFACTURING HEATSINK, AND ELECTRONIC COMPONENT PACKAGE USING SAID HEATSINK

(51) International classification	:H01L 23/36, H05K 7/20
(31) Priority Document No	:2020-169917
(32) Priority Date	:07/10/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/043772
Filing Date	:25/11/2020
(87) International Publication No	:WO 2022/074856
(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)NOZAKI Masaaki
2)TANAKA Yuji
3)MATSUURA Shu
4)NAKAMURA Yousuke

(57) Abstract :
Provided is a heatsink in which a plurality of members are firmly connected together. The heatsink comprises: a plate-like base portion 11 having an electronic component contact surface 11a on one side thereof in the thickness direction for contact with an electronic component X; a plate-like column portion 12 provided on the other side of the base portion 11 in parallel thereto with a heat-dissipating space S therebetween; and column portions 22, 12 provided between the base portion 11 and a heat-dissipating portion 21. Insertion holes 20a, 10a are provided spanning across the heat-dissipating portion 21, the column portions 22, 12, and the base portion 11. The heat-dissipating portion 21, the column portions 22, 12, and the base portion 11 are fixed by an inside member 30 inserted into the insertion holes 20a, 10a.

No. of Pages : 25 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012146 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOCKING MECHANISM FOR A FOLDING KNIFE AND FOLDING KNIFE UTILIZING SAME

(51) International classification :B26B 1/04
(31) Priority Document No :202000243
(32) Priority Date :22/07/2020
(33) Name of priority country :EAPO
(86) International Application No :PCT/EA2021/050003
Filing Date :08/06/2021
(87) International Publication No :WO 2022/017573
(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)PONOMAREV, Igor Vladimirovich

(57) Abstract :
A locking mechanism for a folding knife comprises a locking part of a heel (1) of a blade (2), said locking part having a radial portion (3) (projection AB) and a stop portion (4) (projection BC), the projections of which form an angle ß, the vertex of which is oriented in the direction of the blade (2). The adjacent angle a is acute. The heel (1) is in contact with an end face of a spring-loaded locking plate (6) horizontally movably disposed on a portion (5). The radial portion (3) and the stop portion (4) of the heel (1) are canted at an angle of from 6º to 10º. The folding knife comprises blades pivotally mounted on a pivot (9) and is equipped with a handle having a centre plate (15) disposed between scales. The centre plate (15) has locking plates (17 and 6) which are arranged symmetrically one above the other and are spring-loaded in opposite directions, said locking plates locking the blades when the latter are opened in opposite directions. The locking mechanisms of both blades are identical. The technical result is an increase in the reliability of the locking mechanism of a folding knife as a result of the redistribution of forces in the area of contact between the locking part of the heel of the blade and the locking plate (liner).

No. of Pages : 14 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012150 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SCALABLE INTERRUPTS

(51) International classification :G06F 9/48, G06F 9/50
(31) Priority Document No :63/077375
(32) Priority Date :11/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/049780
Filing Date :10/09/2021
(87) International Publication No :WO 2022/056207
(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)GONION, Jeffrey E.
2)TUCKER, Charles E.
3)KUZI, Tal
4)RUSSO, Richard F.
5)AGARWAL, Mridul
6)TSAY, Christopher M.
7)LEVINSKY, Gideon N.
8)WEN, Shih-Chieh
9)ZIMET, Lior

(57) Abstract :
An interrupt delivery mechanism for a system includes and interrupt controller and a plurality of cluster interrupt controllers coupled to respective pluralities of processors in an embodiment. The interrupt controller may serially transmit an interrupt request to respective cluster interrupt controllers, which may acknowledge (Ack) or non-acknowledge (Nack) the interrupt based on attempting to deliver the interrupt to processors to which the cluster interrupt controller is coupled. In a soft iteration, the cluster interrupt controller may attempt to deliver the interrupt to processors that are powered on, without attempting to power on processors that are powered off. If the soft iteration does not result in an Ack response from one of the plurality of cluster interrupt controllers, a hard iteration may be performed in which the powered-off processors may be powered on.

No. of Pages : 47 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012151 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WIRELESS POWER SYSTEM WITH COMMUNICATIONS

(51) International classification	:H02J 50/90, H02J 50/80, H02J 50/10
(31) Priority Document No	:63/075035
(32) Priority Date	:04/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044809
Filing Date	:05/08/2021
(87) International Publication No	:WO 2022/051053
(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)PATEL, Parin
2)KUMAR, Daniel, P.
3)CHANG, Andrew, C.

(57) Abstract :
A wireless power system may include an accessory configured to transfer or relay wireless power to a portable electronic device. The portable electronic device may include wireless charging circuitry and sensors configured to detect compatible accessories currently coupled with the portable electronic device. The portable electronic device performs wireless charging or related functions in accordance with the coupled accessories.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012013 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RAW MATERIAL GASIFICATION DEVICE, FILM COATING DEVICE, FILM COATING APPARATUS AND FEEDING METHOD THEREFOR

(51) International classification	:C23C 16/448, C23C 16/452, C23C 16/513, C23C 16/455
(31) Priority Document No	:202010729972.X
(32) Priority Date	:27/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/102447
Filing Date	:25/06/2021
(87) International Publication No	:WO 2022/022188
(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)ZONG, Jian

(57) Abstract :
Disclosed in the present invention are a raw material gasification device, a film coating apparatus and a gasification method therefor. The raw material gasification device comprises: a first-stage gasification component, the first-stage gasification component being configured to perform primary gasification on fed raw materials; a second-stage gasification component, the second-stage gasification component being configured to perform further gasification on the raw materials subjected to the primary gasification by the first-stage gasification component; and a feeding control portion, the feeding control portion being configured to feed the raw materials to be gasified, and the feeding control portion being in controlled communication with the first-stage gasification component, thereby increasing the gasification efficiency of the raw materials.

No. of Pages : 43 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012019 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR SETTING A POWER CLASS OF AN INVERTER, AND INVERTER

(51) International classification	:H02J 3/38, H02M 1/00
(31) Priority Document No	:10 2020 122 705.1
(32) Priority Date	:31/08/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/074017
Filing Date	:31/08/2021
(87) International Publication No	:WO 2022/043582
(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)THIEL, Raimund

(57) Abstract :
The invention relates to a method for setting a power class of an inverter (10), wherein the inverter (10) has a device type plate (12) containing information about the inverter (10) which is device-specific and independent of the selected power class, and wherein the inverter (10) has a class plate (14) which is selected from a plurality of power class-specific class plates (14.1, 14.2, 14.3, 14.4) each assigned to one power class from a plurality of power classes and contains information about the assigned power class. The method comprises the following steps: - capturing an image of the device type plate (12) and the class plate (14) and reading out the device-specific information and the information about the assigned power class from the data captured as an image, - transferring a setting sequence to the inverter (10), wherein the setting sequence has the information about the assigned power class, - setting the power class of the inverter (10) using the setting sequence following authentication of the read-out information. The invention also relates to an inverter having a power class that can be set.

No. of Pages : 11 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012020 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICE FOR TREATING SEMICONDUCTOR PROCESS EXHAUST GAS

(51) International classification :B01D 53/32, H05H 1/34, H01L 21/67
(31) Priority Document No :10-2021-0051514
(32) Priority Date :21/04/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/005650
Filing Date :20/04/2022
(87) International Publication No :WO 2022/225326
(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)YOON, Jong Pil

(57) Abstract :
Provided is a device for treating a semiconductor process exhaust gas, for treating an exhaust gas which is produced from a semiconductor process and is directed toward a vacuum pump. The device for treating a semiconductor process exhaust gas comprises: a plasma generating part for generating a plasma; a reaction chamber in which a perfluoride is decomposed by the plasma so as to generate a decomposition gas; and a gas supply part for supplying the decomposition gas from the reaction chamber to a treatment chamber in which the exhaust gas from a semiconductor process is introduced and treated exhaust gas is discharged to the vacuum pump, wherein the decomposition gas may react with the exhaust gas in the treatment chamber so as to suppress the generation of solid state salts by a component of the exhaust gas.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012021 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MIMO ANTENNA ARRAY FOR CROSS DIVISION DUPLEX

(51) International classification	:H04B 7/06, H04B 7/08, H04B 7/0413, H04B 1/401, H04L 5/00
(31) Priority Document No	:63/055068
(32) Priority Date	:22/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2021/009465
Filing Date	:22/07/2021
(87) International Publication No	:WO 2022/019669
(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)XU, Gary
2)MUHAMMAD, Khurram
3)YUAN, Jin
4)ZHANG, Jianzhong

(57) Abstract :
A radio frequency (RF) unit and method of operation of the RF unit are disclosed herein. The RF unit comprises an antenna array, and the antenna array comprises a plurality of antenna elements. A first set of the plurality of antenna elements is configured to operate in a first mode and a second set of the plurality of antenna elements is configured to operate in a second mode. In the first mode, the first set of the plurality of antenna elements is configured to transmit and receive. In the second mode, the second set of the plurality of antenna elements is configured to only receive.

No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010761 A
(19) INDIA
(22) Date of filing of Application :17/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : REMOVING IMPURITIES IN A PROCESS FOR PRODUCING HYDROCARBON PRODUCTS

(51) International classification	:C10G 45/02, C10G 45/58, C10G 3/00, C10G 65/12, C10G 47/00
(31) Priority Document No	:20196013.5
(32) Priority Date	:14/09/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/072607
Filing Date	:13/08/2021
(87) International Publication No	:WO 2022/053260
(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)SALA, Facundo

(57) Abstract :
Process for producing a hydrocarbon product, said process comprising: i) passing a feedstock originating from a renewable source and/or from a fossil source through a hydroprocessing step for producing a main hydrotrotreated stream; said hydroprocessing step comprising: passing the feedstock through one or more catalytic hydrotreating units under the addition of hydrogen for producing a first hydrotreated stream; passing the first hydrotreated stream to a first separation step comprising the use of a separation unit for particularly removing the impurities H2S, CO, CO2 and H2O; withdrawing from said first separation step an overhead stream and separating an overhead hydrocarbon liquid stream thereof which is passed as a reflux stream to said first separation unit; withdrawing from said first separation step a bottom stream and passing at least a portion of said bottom stream to a dewaxing step comprising the use of one or more catalytic hydrotreating units under the addition of hydrogen for producing said main hydrotreated stream; and ii) passing the main hydrotreated stream to a second separation step for producing said hydrocarbon product.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010762 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FUSION PROTEINS COMPRISING MILK PROTEINS AND COMPOSITIONS THEREOF

(51) International classification	:C07K 14/47, C07K 14/765, C12N 9/08, C07K 14/79, C07K 5/02
(31) Priority Document No	:63/061656
(32) Priority Date	:05/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044696
Filing Date	:05/08/2021
(87) International Publication No	:WO 2022/031941
(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)GEISTLINGER, Timothy
3)WAGONER, Ty B.
4)TSAN-HUEI LIN, Janine

(57) Abstract :
The present invention relates generally to a recombinant protein, compositions comprising such recombinant protein, and to methods for producing such recombinant protein and compositions.

No. of Pages : 93 No. of Claims : 77

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010766 A
(19) INDIA
(22) Date of filing of Application :17/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR PRODUCING VISUAL EFFECTS VIA TRANSDUCER-ACTUATED SHOW ACTION EQUIPMENT

(51) International classification	:A63J 1/02, A63J 5/02, A63G 31/02, A63G 31/16
(31) Priority Document No	:63/059550
(32) Priority Date	:31/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/041311
Filing Date	:12/07/2021
(87) International Publication No	:WO 2022/026164
(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)KOERS, Andrew Christopher
2)BROWN, Gary Andrew
3)BURGOS, Phillip Ben

(57) Abstract :
A system for providing an actuated-wall visual effect in an amusement park environment, the system comprising a panel mounting frame and a panel coupled to the panel mounting frame via a damper. The system also comprises a transducer mounting frame and a transducer configured to convert an audio signal into mechanical energy. The transducer comprises a first portion coupled to the transducer frame and a second portion coupled to the panel such that the transducer is configured to oscillate the panel relative to the transducer mounting frame in response to receiving the audio signal.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317010788 A
(19) INDIA
(22) Date of filing of Application :17/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHANNEL INFORMATION PROCESSING METHOD AND APPARATUS, DEVICE AND STORAGE MEDIUM

(51) International classification :H04W 72/12
(31) Priority Document No :202010808390.0
(32) Priority Date :12/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/107716
Filing Date :21/07/2021
(87) International Publication No :WO 2022/033285
(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)HAN, Huben

(57) Abstract :
The embodiments of the present application disclose a channel information processing method and apparatus, a device, and a storage medium. Said method comprises: generating de-mapping related parameters of each CORESET and a first start parameter of each search space; generating a second start parameter of each CORESET according to the first start parameter; traversing each second start timing, calculating index information of blind detection parameters and the de-mapping parameters, and storing the index information of the blind detection parameters and the de-mapping parameters into a search space associated with the traversed second start timing; traversing the search space, and determining whether the traversed search space is activated, and if so, updating the state of an activation flag in the second start timing of the CORESET which is associated with the search space to an activated state; and sequentially traversing the second start timing in the second start parameter of each CORESET according to a time sequence, and if the state of an activation flag in a traversed second start timing is the activated state, reading the de-mapping related parameters and the blind detection parameters corresponding to the second start timing. The amount of data calculation in a channel is reduced.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012455 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AAV5-BASED VACCINE AGAINST SARS-COV-2

(51) International classification	:A61K 39/125, A61P 31/12, C12N 15/861, C07K 14/165, A61P 11/00
(31) Priority Document No	:2020128658
(32) Priority Date	:28/08/2020
(33) Name of priority country	:Russia
(86) International Application No	:PCT/RU2021/050279
Filing Date	:27/08/2021
(87) International Publication No	:WO 2022/045935
(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)STRELKOVA, Anna Nikolaevna
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6)IAKOVLEV, Pavel Andreevich
7)MOROZOV, Dmitry Valentinovich

(57) Abstract :
The present application relates to the fields of biotechnology, immunology, virology, genetics, and molecular biology. More specifically, the present invention relates to an isolated recombinant receptor-binding domain of the S glycoprotein (RBD-S) of SARS-CoV-2 (severe acute respiratory syndrome-related coronavirus 2), to a nucleic acid that encodes RBD-S of SARS-CoV-2, to an expression cassette and a vector based thereon, as well as to a recombinant AAV5 (adeno-associated virus serotype 5)-based virus for the induction of specific immunity to SARS-CoV-2 and/or prevention of the SARS-CoV-2-related coronavirus infection, to an AAV5-based vaccine for the induction of specific immunity to SARS-CoV-2 and/or prevention of the SARS-CoV-2-related coronavirus infection, and to their use for the induction of specific immunity to SARS-CoV-2 and/or prevention of the SARS-CoV-2-related coronavirus infection.

No. of Pages : 30 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012457 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POLYCYCLIC CAP-DEPENDENT ENDONUCLEASE INHIBITORS FOR TREATING OR PREVENTING INFLUENZA

(51) International classification	:A61K 31/4738, A61K 31/53, C07D 253/10, C07D 471/04
(31) Priority Document No	:63/056861
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/042711
Filing Date	:22/07/2021
(87) International Publication No	:WO 2022/026285
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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5)ZHAO, Kake
6)BENNETT, Frank
7)KIM, Ronald M.
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9)SHURTLEFF, Valerie W.
10)DE LERA RUIZ, Manuel
11)PLOTKIN, Michael A.
12)SU, Hua
13)FELLS, James
14)CROWLEY, Brendan M.
15)CHOBANIAN, Harry R.
16)EMBREY, Mark, W.
17)MORRIELLO, Gregori, J.

(57) Abstract :
The present invention provides a compound of Formula (I) and pharmaceutical compositions comprising one or more said compounds, and methods for using said compounds for treating or preventing influenza. The compounds are cap-dependent endonuclease inhibitors.

No. of Pages : 160 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012487 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MASONRY BLOCK

(51) International classification	:E02D 29/02, E04B 2/00, E04D 5/20
(31) Priority Document No	:17/066656
(32) Priority Date	:09/10/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/047439
Filing Date	:25/08/2021
(87) International Publication No	:WO 2022/076096
(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)STELL, Jason

(57) Abstract :
A masonry block has a front, a back, a top surface, a bottom surface, a first side and a second side. The front has a front-top edge and a front- bottom edge. A number of steps (e.g. two steps) that rise above the top surface are setback from the front-top edge by a first setback distance. An equal number of notches are formed/cut into the bottom surface. A first notch of the notches is setback from the front-bottom edge by a second setback distance. When stacked to form a wall, the steps of a lower masonry block interface with the notches of a next higher masonry block and the first setback distance is greater than the second setback distance resulting in an overall setback as defined by a difference between the first setback distance minus the second setback distance.

No. of Pages : 19 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012488 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : REINFORCING FIBERS AND MOLDED BODY USING SAME

(51) International classification	:D06M 15/61, C08J 5/06, D06M 13/332, D06M 15/693
(31) Priority Document No	:2020-141954
(32) Priority Date	:25/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/020032
Filing Date	:26/05/2021
(87) International Publication No	:WO 2022/044460
(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)CHO, Tetsuyuki
3)TAKEMOTO, Shinichi
4)ASADA, Toru
5)TANAKA, Jiro

(57) Abstract :
Provided are: reinforcing fibers exhibiting excellent adhesiveness to rubber without the need to use resorcinol, formaldehyde or an epoxy compound; and a molded body that uses the same. The reinforcing fibers are characterized: by comprising fibers, a surface-modifying layer for coating at least a portion of the surface of the fibers, and an adhesive layer that contains a conjugated diene rubber and covers at least a portion of the surface-modifying layer; and in that the surface-modifying layer has a weight-average molecular weight (Mw) of 300 or greater and contains a polyamine compound that has one or more functional groups selected from imino groups and primary to tertiary amine groups.

No. of Pages : 45 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012496 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VIDEO ENCODING AND DECODING USING RANDOM BLOCK PARTITION

(51) International classification :H04N 19/119, H04N 19/109, H04N 19/513, H04N 19/124, H04N 19/70
(31) Priority Document No :10-2020-0097611
(32) Priority Date :04/08/2020
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2021/010248
Filing Date :04/08/2021
(87) International Publication No :WO 2022/031018
(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)PARK, Sea Nae
3)PARK, Jun Taek
4)CHOI, Han Sol
5)PARK, Seung Wook
6)LIM, Wha Pyeong

(57) Abstract :
The present invention provides an image decoding method for decoding a target block by using intra prediction. The decoding method comprises the steps of: decoding boundary line information that specifies at least one boundary line for partitioning a target block from a bitstream, the boundary line information permitting the target block to be partitioned into a plurality of non-rectangular blocks; determining intra prediction modes for the non-rectangular blocks on the basis of the boundary line information; using the intra prediction modes to perform intra prediction on each of the non-rectangular blocks, and thus generate a prediction block of the target block; restoring a residual block of the target block from the bitstream; and adding the prediction block and the residual block to restore the target block.

No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012156 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SHADER CORE INSTRUCTION TO INVOKE DEPTH CULLING

(51) International classification :G06T 15/00, G06T 15/40
(31) Priority Document No :17/007935
(32) Priority Date :31/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/047914
Filing Date :27/08/2021
(87) International Publication No :WO 2022/047136
(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)BRENNAN, Christopher J.

(57) Abstract :
Systems, apparatuses, and methods for executing a shader core instruction to invoke depth culling are disclosed. A shader core executes an instruction to invoke a culling function on a depth culling unit for one or more entities prior to completing a corresponding draw call. The shader core provides a mode and coordinates to the depth culling unit as a result of executing the instruction. The depth culling unit implements the culling function to access a live depth buffer to determine whether one or more primitives corresponding to the entities are occluded. The culling unit returns indication(s) to the shader core regarding the result(s) of processing the one or more primitives. For example, if the results indicate a primitive is occluded, the shader core cancels the draw call for the primitive.

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012171 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WI-FI POSITIONING BASED CONTACT TRACING

(51) International classification :H04W 4/029, H04W 4/80, G16H 50/80
(31) Priority Document No :202041045195
(32) Priority Date :16/10/2020
(33) Name of priority country :India
(86) International Application No :PCT/US2021/051421
Filing Date :22/09/2021
(87) International Publication No :WO 2022/081315
(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)CHAUHAN, Ravindra

(57) Abstract :
Techniques are provided for utilizing Wi-Fi positioning based contact tracing. An example method for reporting signal measurements to a contact tracing network includes activating a contact tracing application on a user equipment based on a proximity to the contact tracing network, receiving one or more measurement signals from a station in the contact tracing network, and reporting a signal measurement and station identification to a network entity.

No. of Pages : 54 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012176 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SELF-CHARGING SYSTEM FOR MULTIFUNCTION LIGHT BULBS

(51) International classification	:H01L 35/00, F21K 9/237, F21S 9/03, F21V 23/04, F21V 29/54
(31) Priority Document No	:102020000017983
(32) Priority Date	:24/07/2020
(33) Name of priority country	:Italy
(86) International Application No	:PCT/IT2021/050231
Filing Date	:26/07/2021
(87) International Publication No	:WO 2022/018778
(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)DI FOGLIO, Andrea

(57) Abstract :
The invention refers to a lighting device, it concerns an electronic circuit, equipped with different technical devices, assembling in the same lighting device: an e-storage micro battery, an IOT Wireless system, a mini thermoelectric generator and a photovoltaic film. This product makes it possible to replace the deteriorated and / or worn component characterized by each part is removable.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012177 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS RELATED TO PREDICTING AND PREVENTING HIGH RATES OF AGENT ATTRITION IN CONTACT CENTERS

(51) International classification :G06Q 10/06
(31) Priority Document No :63/074035
(32) Priority Date :03/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/048918
Filing Date :02/09/2021
(87) International Publication No :WO 2022/051538
(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)GOKULAKANNAN, Balaji
3)JAYARAGHAVENDRAN, Vidhyasimham

(57) Abstract :
A method related to predicting agent attrition rate that includes: providing an attrition model; measuring and recording agent journey data of a first agent of a contact center, the agent journey data describing aspects related to an employment of the first agent and having data types that corresponds in kind to data types of inputs of the attrition model; determining that prediction of an attrition rate of the first agent is required; using the attrition model to predict the attrition rate by providing values for the inputs from applicable values taken from the agent journey data of the first agent, and calculating the attrition rate as the output of the attrition model; determining if the calculated current attrition rate indicates a high risk of attrition; and transmitting an alert communication to a supervisor of the first agent.

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012250 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SECURE CONTENT DELIVERY COMPUTER SYSTEM

(51) International classification :G06F 21/00
(31) Priority Document No :16/998919
(32) Priority Date :20/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/046289
Filing Date :17/08/2021
(87) International Publication No :WO 2022/040174
(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)HOESLEY, Corey
3)WILSON, Nick
4)PULEC, Vladan

(57) Abstract :
Systems and methods for secure content delivery are disclosed herein. The system can include a content driver communicatingly connected with a user device via a layered protocol model or via a User Datagram Protocol (UDP). The content driver can generate a signal directing the creation of a secured partition on a bootable media device connected to a user device, identify content for delivery, and generate pixel data for the content. The content driver can send the pixel data to the user device, wherein the user device is configured to store the pixel data in the secured partition of the bootable media device. The content driver can receive a plurality of response inputs from the user device, wherein the response inputs are generated by a software application running on the bootable media device, generate a response based on the received response inputs, and provide the generated response to an evaluation module.

No. of Pages : 61 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012040 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMPROVING THE PURITY OF A CO2-RICH STREAM

(51) International classification :B01D 53/86, C01B 3/36, C01B 32/50
(31) Priority Document No :202011040821
(32) Priority Date :21/09/2020
(33) Name of priority country :India
(86) International Application No :PCT/EP2021/075794
Filing Date :20/09/2021
(87) International Publication No :WO 2022/058585
(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)DAHL, Per Juul
2)GHILADI, Morten
3)SAHAI, Arunabh
4)SKOTTE, Johannes

(57) Abstract :
A process and plant for producing a high purity CO2 product, comprising:providing a CO2-rich stream containing hydrocarbons, hydrogen and/or CO, combining it with a stream rich in methane (CH4), and mixing it with oxygen, thereby forming a CO2/O2-mixture; subjecting the CO2/O2- mixture to a catalytic oxidation step, thereby producing a purified stream having a higher CO2 and/or H2O concentration; removing H2O from said purified stream, for producing said high purity CO2 product stream. The CO2-rich stream is for instance derived from the CO2-removal section of a plant for producing hydrogen.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012067 A
(19) INDIA
(22) Date of filing of Application :22/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROL OF A TECHNICAL SYSTEM BY MEANS OF A COMPUTING UNIT FOR ARTIFICIAL INTELLIGENCE

(51) International classification :G05B 19/05
(31) Priority Document No :20196314.7
(32) Priority Date :15/09/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/073741
Filing Date :27/08/2021
(87) International Publication No :WO 2022/058140
(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)BOTERO HALBLAUB, Andrés
2)SCHENK, Tim
3)THON, Ingo
4)WINCHERINGER, Christoph

(57) Abstract :
The invention relates to a computer-implemented method for controlling a technical system, comprising the method steps of: - reading in (S1) hardware configuration parameters and a value of a real-time requirement of a control unit, - reading in (S2) hardware configuration parameters of a computing unit for artificial intelligence (NPU), - reading in (S3) a control application for controlling the technical system, the control application being configured to generate an input value for the control unit in accordance with an artificial intelligence, - determining (S4) a processing time of the control application for execution of the control application on the computing unit for artificial intelligence, taking into account the hardware configuration parameters of the control unit and the hardware configuration parameters of the computing unit for artificial intelligence, - checking (S5) the determined processing time on the basis of the value of the real-time requirement of the control unit and outputting a check result, and - outputting (S6) the control application, depending on the check result, for the control of the technical system.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012069 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SPLIT CYCLE INTERNAL COMBUSTION ENGINE PROVIDED WITH A WATER INJECTION

(51) International classification	:F02M 25/03, F02B 33/22, F02B 47/02, F02M 25/022, F02M 31/02
(31) Priority Document No	:2012337.8
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/051949
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/029409
(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)MORGAN, Rob
4)ATKINS, Andrew

(57) Abstract :
A split cycle internal combustion engine comprises a combustion cylinder and a compression cylinder arranged to receive air and compress the air to provide a compressed working fluid to the combustion cylinder for combustion. The compression cylinder is coupled to a water reservoir. The engine further comprises a controller arranged to receive an indication of at least one parameter associated with the engine and/or a fluid associated therewith, and control delivery of the mass of water delivered to the compression cylinder based on the indication of the at least one parameter such that the total mass of water in the compressed working fluid at the end of the compression stroke results in a level of water concentration in the compressed working fluid that is less than a threshold water concentration level.

No. of Pages : 32 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012071 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STEEL SHEET AND METHOD FOR MANUFACTURING SAME

(51) International classification	:C21D 8/02, C21D 9/46, C22C 38/00, C22C 38/60, B22D 11/00
(31) Priority Document No	:2020-174217
(32) Priority Date	:15/10/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/038323
Filing Date	:15/10/2021
(87) International Publication No	:WO 2022/080497
(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)HAYASHI Kunio
3)YOKOYAMA Takafumi

(57) Abstract :
This steel sheet has a specified chemical composition, in which a microstructure located at a position corresponding to the depth of 1/4 of the thickness of the steel sheet from the surface contains, in terms of volume fractions, 0% to 50% of ferrite, 6% to 30% of retained austenite, 5% to 60% of bainite, 5% to 50% of tempered martensite, 0% to 10% of fresh martensite and 0% to 5% of perlite, the ratio of the grains of the retained austenite each of which has an aspect ratio of 2.0 or more in all of grains of the retained austenite is 50% or more and the number density of inclusions and precipitates each having a grain diameter of 1 μm or more is 30 grains/mm2 or less at the aforementioned position corresponding to the depth of 1/4 of the thickness of the steel sheet from the surface, the average distance between Mn-rich regions in the direction orthogonal to the rolling direction is 300 μm or less at a position corresponding to the depth of 1/20 of the thickness of the steel sheet from the surface, and the standard deviation of Mn concentrations in the retained austenite is 0.40% or less.

No. of Pages : 93 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023

(21) Application No.202317010813 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTIBODY THAT BINDS TO VEGF-A AND ANG2 AND METHODS OF USE

(51) International classification	:A61K 39/395, A61P 27/02, C07K 16/22, C07K 16/46, A61K 39/00
(31) Priority Document No	:20194610.0
(32) Priority Date	:04/09/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/074195
Filing Date	:02/09/2021
(87) International Publication No	:WO 2022/049165
(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)FENN, Sebastian
3)HARTMANN, Guido
4)IMHOF-JUNG, Sabine
5)JENSEN, Kristian, Hobolt
6)MOELLEKEN, Joerg
7)MOLHOJ, Michael
8)SCHANTZ, Christian
9)SPECK, Janina
10)ULLMER, Christoph
11)WEISER, Barbara

(57) Abstract :
The present invention relates to anti-VEGF-A/anti-ANG2 antibodies, e.g. in the form of a bispecific Fab fragment, and methods of using the same.

No. of Pages : 106 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010834 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM FOR CONVEYING PASTA

(51) International classification :A21C 9/02, B65G 17/12, F26B 15/12
(31) Priority Document No :20195589.5
(32) Priority Date :10/09/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/073109
Filing Date :20/08/2021
(87) International Publication No :WO 2022/053286
(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)KAST, Simon

(57) Abstract :
The present invention relates to a conveyor system (1) for an apparatus for producing elongate pasta, for example spaghetti, comprising a transfer unit (3) for transferring conveyor elements (4) from a first conveyor unit (2a) to a second conveyor unit (2b), wherein the transfer unit (3) comprises a rotatably mounted cam disc element (3a) having a gripping device (3b) and comprises a fixed guide element (3c) having an approximately circular-segment-shaped surface portion (3d), which cam disc element and guide element are arranged in relation to one another in such a way that, due to rotation of the cam disc element (3a), a conveyor element (4) accepted by the gripping device (3b) of the cam disc element (3a) from the first conveyor unit (2a) can be moved along the approximately circular-segment-shaped surface portion (3d) of the guide element (3c) as far as a position in which the conveyor element (4) can be accepted by the second conveyor unit (2b). The present invention further relates to an apparatus (A) for producing elongate pasta and to a method for conveying elongate pasta.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010890 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC DEVICE AND MANUFACTURING METHOD THEREFOR

(51) International classification	:G04B 37/11, G04B 37/08, F16J 15/10, G04G 99/00
(31) Priority Document No	:10-2021-0004528
(32) Priority Date	:13/01/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/000324
Filing Date	:07/01/2022
(87) International Publication No	:WO 2022/154396
(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)PARK, Sungeun

(57) Abstract :
An electronic device according to various embodiments of the present disclosure is disclosed. An electronic device according to various embodiments of the present disclosure may comprise: a housing for accommodating a printed circuit board; a cover which coupled to the housing, and which includes a coupling protrusion protruding toward one side of the housing so as to be accommodated in the housing, and a coupling hole formed in the coupling protrusion; a fastening pin arranged in the coupling hole and coupled to the housing; and a sealing member arranged between the fastening pin and an inner wall forming the coupling hole, so as to seal the coupling hole. Other various embodiments are possible.

No. of Pages : 43 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/02/2023
(21) Application No.202317010934 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BATTERY MODULE AND BATTERY PACK INCLUDING SAME

(51) International classification :H01M 10/6551, H01M 10/6566, H01M 10/647, H01M 10/653, H01M 10/613
(31) Priority Document No :10-2021-0003180
(32) Priority Date :11/01/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/000250
Filing Date :06/01/2022
(87) International Publication No :WO 2022/149886
(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)SEONG, Junyeob
3)PARK, Won Kyoung
4)PARK, Subin

(57) Abstract :
A battery module according to an embodiment of the present invention comprises: a battery cell lamination in which a plurality of battery cells including a first electrode lead and a second electrode lead are stacked; and a cooling fin located between the battery cells. The first electrode lead and the second electrode lead protrude from the battery cell in directions away from each other. The cooling fin comprises a first area, a second area, and a third area. The first area and the second area are located to be spaced apart from each other, along a direction parallel to the protruding directions of the first electrode lead and the second electrode lead, and the third area is located between the first area and the second area. The thickness of the third area is smaller than the thickness of the first area and the thickness of the second area.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012749 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IL27Ra BINDING MOLECULES AND METHODS OF USE

(51) International classification	:A61K 38/02, A61K 39/395, A61K 39/42, C07K 16/244
(31) Priority Document No	:63/061562
(32) Priority Date	:05/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044576
Filing Date	:04/08/2021
(87) International Publication No	:WO 2022/031870
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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4)VIVONA, Sandro

(57) Abstract :
The present disclosure relates to biologically active molecules comprising a single domain antibody (sdAb) that specifically binds to the extracellular domain of human IL27Ra, compositions comprising such antibodies, and methods of use thereof.

No. of Pages : 75 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012750 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : GP130 BINDING MOLECULES AND METHODS OF USE

(51) International classification :C07K 16/24
(31) Priority Document No :63/061562
(32) Priority Date :05/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/044575
Filing Date :04/08/2021
(87) International Publication No :WO 2022/031869
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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(57) Abstract :
The present disclosure relates to biologically active molecules comprising a single domain antibody (sdAb) that specifically binds to the extracellular domain of human gp130, compositions comprising such antibodies, and methods of use thereof.

No. of Pages : 110 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012751 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NAVIGATING USER INTERFACES USING HAND GESTURES

(51) International classification :G06F 1/16, G06F 3/048
(31) Priority Document No :63/190783
(32) Priority Date :19/05/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/030021
Filing Date :19/05/2022
(87) International Publication No :WO 2022/246060
(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)CRANFILL, Elizabeth, C.
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5)FORD, Joshua, R.
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7)MAALOUF, Charles
8)SEYED MOUSAVI, Hojjat
9)NIETO, Heriberto
10)PATTON, Jennifer, D.
11)SCULLY, Shawn, R.
12)YUSUF, Ibrahim, G.

(57) Abstract :
The present disclosure generally relates to navigating user interfaces using hand gestures.

No. of Pages : 102 No. of Claims : 62

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317013036 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMPLANT LOADING TOOL AND MEDICAL DEVICE

(51) International classification :A61F 2/24
(31) Priority Document No :202010912005.7
(32) Priority Date :02/09/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/108774
Filing Date :27/07/2021
(87) International Publication No :WO 2022/048349
(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)GUI, Baozhu
4)CHEN, Guoming

(57) Abstract :
An implant loading tool and a medical device. The implant loading tool comprises a guide cover (10) and a guide base (20) that is configured to be detachably connected to the guide cover (10); the guide base (20) is used for passing through the guide cover (10) in a first direction to perform first compression on an implant, and is configured to be detachably connected to the guide cover (10) in a second direction opposite to the first direction, so as to perform second compression on the implant; and when the guide base (20) is connected to the guide cover (10) in the second direction, the guide base (20) and the guide cover (10) are coaxial, and the guide base (20) is limited to be radially and axially displaced with respect to the guide cover (10). In this way, compression is performed on the implant twice by ingeniously using the guide base (20) in forward and reverse directions, such that the structure of the loading tool is simplified, and the guide base (20) and the guide cover (10) are kept coaxially during the process of second compression, and thus, the operation difficulty for an operator is reduced, and the whole pressing and holding process is convenient and efficient.

No. of Pages : 45 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013042 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : KARHUNEN LOEVE TRANSFORM FOR VIDEO CODING

(51) International classification	:H04N 19/12, H04N 19/176, H04N 19/60, H04N 19/70
(31) Priority Document No	:20306120.5
(32) Priority Date	:29/09/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/076155
Filing Date	:23/09/2021
(87) International Publication No	:WO 2022/069331
(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)LE LEANNEC, Fabrice
3)GALPIN, Franck
4)DUMAS, Thierry

(57) Abstract :
In one implementation, KLT transform matrices are derived during the encoding or decoding process. In particular, the KLT transform matrices can be derived for either the primary transforming stage or the secondary transforming stage, or both. Because the KLT transform matrices can be derived at both the encoder and decoder sides, the KLT transform matrices do not need to be signaled in the bitstream. To derive the KLT transform matrix for a current block to be encoded or decoded, a template for the current block is defined, and is used to search in reconstructed regions multiple blocks with templates similar to the current template. Those multiple blocks are used to train the KLT transform matrix.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013043 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS

(51) International classification	:C07C 29/149, C07C 31/22
(31) Priority Document No	:2017457.9
(32) Priority Date	:04/11/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/052849
Filing Date	:03/11/2021
(87) International Publication No	:WO 2022/096874
(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)GRAINGER, Damian
3)ZANOTTI-GEROSA, Antonio

(57) Abstract :
The present invention relates to a process for hydrogenation of a glycerol ester, comprising treating a composition which comprises a glycerol ester with a base and a transition metal catalyst in the presence of molecular hydrogen, wherein the base is present in at least 7 wt% based upon the total weight of said composition and wherein the catalyst is present in less than or equal to 0.05 wt% based upon the total weight of said composition.

No. of Pages : 40 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013047 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

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

(51) International classification	:G06F 16/2458, G06F 3/0484, G06F 9/06, G06F 9/4401, G06F 16/2455
(31) Priority Document No	:2050999-8
(32) Priority Date	:28/08/2020
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/SE2021/050808
Filing Date	:18/08/2021
(87) International Publication No	:WO 2022/045944
(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)RISCH, Tore

(57) Abstract :
System (100) comprising several edge computing devices (ECD), each comprising a sensor (S); a memory (M); a Central Processing Unit, CPU; and a digital communication interface (IF), for communication across a network (NW). The invention is characterised in that each edge computing device is arranged with a respective interpreting software function, arranged to interpret computer code, according to a query language having a predetermined syntax. Said syntax is arranged to define queries the results of which are streams of data and said first software function is arranged to pose a first query to a second edge computing device (120); a second such software function of said type is arranged to, in response thereto, generate and communicate a second stream of data; the first software function is arranged to preprocessing said second stream so that it adheres to a predefined global data ontology. The invention also relates to a method.

No. of Pages : 67 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013086 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL CORONAVIRUS RECOMBINANT SPIKE PROTEIN, POLYNUCLEOTIDE ENCODING SAME, VECTOR COMPRISING POLYNUCLEOTIDE, AND VACCINE FOR PREVENTING OR TREATING CORONAVIRUS INFECTION, COMPRISING VECTOR

(51) International classification	:A61K 39/215, A61P 31/14, C07K 14/005, C12N 15/86
(31) Priority Document No	:10-2020-0108276
(32) Priority Date	:27/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011512
Filing Date	:27/08/2021
(87) International Publication No	:WO 2022/045827
(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)SHIN, Seung-Phil
3)SHIN, Kwang-Soo
4)OH, Tae-Gwon

(57) Abstract :
The present invention relates to a novel coronavirus recombinant spike protein, a polynucleotide encoding same, a vector comprising the polynucleotide, and a vaccine for preventing or treating coronavirus infection, comprising the vector. The coronavirus recombinant spike protein of the present invention is stable and thereby not easily decomposed in cells, and effectively activates immune cells thereby resulting in a high antibody production amount and T cell reactivity. It was confirmed that the vector of the present invention exhibits a high antigen expression level and thereby has a high antibody production amount and T cell reactivity, has a long antibody production period and expression period, and does not show liver toxicity. Accordingly, the vector of the present invention can be helpfully used as a vaccine for preventing or treating coronavirus infection.

No. of Pages : 49 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013087 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLUNGER AND FINGER GRIP FOR A SYRINGE ASSEMBLY, METHOD FOR MAKING THEM, SYRINGE ASSEMBLY, KIT AND USE OF THE SAME

(51) International classification :A61M 5/31
(31) Priority Document No :20194478.2
(32) Priority Date :03/09/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/074265
Filing Date :02/09/2021
(87) International Publication No :WO 2022/049192
(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)WORTMANN, Uwe
3)BOROWEK, Dany
4)NIPPRASCH, Dirk
5)TIESBERGER, Kai

(57) Abstract :
The present invention relates to a plunger (20) and a finger grip (30) for a syringe assembly (100), methods for manufacturing them, to a syringe assembly (100), to a kit comprising parts of a syringe assembly (100), and to the use of a syringe assembly (100) or of a kit, wherein the syringe assembly (100) comprises a syringe barrel (10), a finger grip (30) having flanges (31, 32), and a plunger (20) having a plunger rod (21) and a plunger head (22). The plunger (20) comprises a grip pad (23) made by injection molding and attached to a proximal facing surface (24) of the plunger head. The finger grip (20) comprises a grip pad (35) also made by injection molding and attached to a distal facing surface of at least one flange (31, 32) of the finger grip (30).

No. of Pages : 40 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013088 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLAKOPHILIN-2 (PKP2) GENE THERAPY USING AAV VECTOR

(51) International classification	:A61K 38/00, A61K 48/00, C12N 15/09, C12N 15/11, C12N 15/113
(31) Priority Document No	:63/063032
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/045220
Filing Date	:09/08/2021
(87) International Publication No	:WO 2022/032226
(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)SACRAMENTO, Chester Bittencort
3)PRABHAKAR, Raj
4)RICKS, David

(57) Abstract :
Provided herein is a gene therapy for PKP2 (Plakophilin-2), e.g. using an adeno-associated virus (AAV) vector. The promoter of the vector may be a MHCK7 promoter or a cardiac troponin T (HTNNT2) promoter. The capsid may be an AAV9 or AAVrh74 capsid or a functional variant thereof. Other promoters or capsids may be used. Further provided are methods of treatment, such as by intravenous, intracoronary, intracarotid or intracardiac administration of the rAAV vector, and other compositions and methods.

No. of Pages : 67 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013096 A
(43) Publication Date : 19/04/2024

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

(51) International classification	:G06F 16/2458, G06F 3/0484, G06F 9/06, G06F 9/4401, G06F 16/2455
(31) Priority Document No	:2051000-4
(32) Priority Date	:28/08/2020
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/SE2021/050809
Filing Date	:18/08/2021
(87) International Publication No	:WO 2022/045945
(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)RISCH, Tore
2)RISCH, Johan

(57) Abstract :
A method and a system (100) comprising several edge computing devices (ECD), each comprising a sensor (S); a memory (M); a Central Processing Unit, (CPU); and a digital communication interface (IF), arranged to communicate across a network (NW). Each edge computing device interpret computer code, received via said interface and stored in said memory; a syntax is arranged to define queries sent from a requesting device to a responding edge device, in terms of calculations to be performed by the responding device based on a measured value from the sensor of the responding device the results of which queries are streams of data returned to the requesting device; an interactive Graphical User Interface, (GUI) allows a user to visually view said computer code using a visual notation system; and the GUI allows said user to graphically and interactively change queries visually, whereupon the GUI as a result communicates updated computer code to concerned devices.

No. of Pages : 67 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012498 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SERVO SYSTEM BOLTED ON DESIGN

(51) International classification	:F03C 1/40, F04B 1/295, F04B 1/324, F04B 49/00, F04B 53/10
(31) Priority Document No	:10 2020 210 397.6
(32) Priority Date	:14/08/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/071438
Filing Date	:30/07/2021
(87) International Publication No	:WO 2022/033899
(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)GOELLNER, Wilhelm
2)BABUSA, Andrej
3)LAFFRENZEN, Heiko

(57) Abstract :
Hydrostatic servo assembly unit (1) for being arranged inside, outside or distant from a variable displacement hydrostatic unit (100) and for controlling the displacement of the variable displacement hydrostatic unit (100). The servo assembly unit (1) comprises a servo housing (10) in which at least one servo piston (40) is arranged. The piston head (42) of the servo piston (40) can be pressurized such that the servo piston (40) can move linear relative to a servo cylinder (12) formed in the servo housing (10). The servo assembly unit (100) further comprises a movable output element (49) protruding outside of the servo housing (10), which can be mechanically coupled to a displacement element (102) of a variable displacement hydrostatic unit (100).

No. of Pages : 28 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012504 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITIONS AND METHODS FOR IMPROVING GASTROINTESTINAL ABSORPTION OF ELECTROLYTES

(51) International classification	:A23L 2/38, A61K 31/702, A23L 33/16, A23L 2/00, A23L 33/00	(71)**Name of Applicant :** **1)IGH NATURALS, INC.** Address of Applicant :4465 Granite Drive, Suite 700 Rocklin, California 95677 U.S.A.
(31) Priority Document No	:16/941385	(72)**Name of Inventor :** **1)KHARAIT, Sourabh**
(32) Priority Date	:28/07/2020	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2021/070960	
Filing Date	:27/07/2021	
(87) International Publication No	:WO 2022/026994	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure relates generally to compositions and methods for improving gastrointestinal absorption function and correct deficiencies by preserving intestinal epithelial absorptive function. In particular, the compositions and methods for useful for improving gastrointestinal absorption of electrolytes.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012516 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FUSED BICYCLIC RAF INHIBITORS AND METHODS FOR USE THEREOF

(51) International classification	:A61P 35/00, C07D 405/14, C07D 417/14, C07D 471/04, C07D 519/00
(31) Priority Document No	:63/057536
(32) Priority Date	:28/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2021/071212
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/023447
(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)BELFIELD, Andrew
2)JONES, Clifford David
3)MARGATHE, Jean-François
4)COLLETTO, Chiara

(57) Abstract :
The present disclosure relates to fused bicyclic Raf inhibitors of formula (I), (II), or (III), or a pharmaceutically acceptable salt, tautomer, or stereoisomer thereof. The disclosure also relates to method of using the compound of formula (I), (II), or (III), or a pharmaceutically acceptable salt, tautomer, or stereoisomer thereof, for treating diseases such as cancer, including colorectal cancer.

No. of Pages : 174 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012544 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS FOR IDENTIFYING CHROMOSOMAL SPATIAL INSTABILITY SUCH AS HOMOLOGOUS REPAIR DEFICIENCY IN LOW COVERAGE NEXT-GENERATION SEQUENCING DATA

(51) International classification	:G16B 20/00, G16B 30/00, G16B 40/20
(31) Priority Document No	:20187813.9
(32) Priority Date	:27/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/071073
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/023381
(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 :Rue du Centre 172 1025 Saint-Sulpice Switzerland
(72)**Name of Inventor :**
1)POZZORINI, Christian
2)ANDRE, Gregoire
3)COLETTA, Tommaso
4)XU, Zhenyu

(57) Abstract :
A genomic data analyzer may be configured to detect and characterize, with a machine learning model such as a trained convolutional neural network, the presence of a genomic instability in a tumor sample. The genomic data analyzer may use whole genome sequencing reads as input data even at low sequencing coverage in a high throughput sequencing workflow as may be routinely employed in a diversity of clinical oncology setups. The genomic data analyzer may arrange the aligned read data coverage from chromosome arms or full chromosomes to form a coverage data signal array possibly as an image. The trained machine learning model may process the coverage data signal array to determine whether a chromosomal spatial instability (CSI) such as for instance a genomic instability caused by a homologous repair or recombination deficiency (HRD) is present in the tumor sample. The latter indication may guide the choice of a preferred anticancer treatment for the tumor.

No. of Pages : 48 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012545 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR MANUFACTURING POLYMER COMPOSITES WITH EMBEDDED FUNCTIONALITIES

(51) International classification	:B29C 70/88, B29C 70/86
(31) Priority Document No	:20382664.9
(32) Priority Date	:24/07/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/070322
Filing Date	:21/07/2021
(87) International Publication No	:WO 2022/018111
(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)FUNDACION TECNALIA RESEARCH & INNOVATION
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1)BUSTERO MARTINEZ DE ZUAZO, Izaskun
2)VAQUERO MORALEJO, Celina
3)BILBAO ALBA, Leire
4)MAUDES PUENTEDURA, Jon
5)OLLO ESCUDERO, Olatz
6)OBIETA VILALLONGA, Isabel

(57) Abstract :
A method of manufacturing a polymer composite having an embedded functionality, the method comprising: providing a dry non-conductive fiber fabric (11) having a nominal weight from 25 - 600 g/m2; selecting a paste having viscosity below 600 Pa-s, the paste being a conductive paste, dielectric paste and/or a sensing paste; applying the selected paste on the dry non-conductive fiber woven fabric (11) by means of either screen-printing or micro- dispensing, thus making a printed functionality; forming a laminate comprising the dry non- conductive fiber woven fabric (11) having the printed functionality and at least one additional fabric or core; obtaining a polymer composite from said laminate.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012251 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : MULTIPLE TEMPERATURE-CONTROL PROCESS FOR WORKPIECES BY MEANS OF A TRIPLEX FURNACE

(51) International classification	:H02K 15/12, C21D 8/12, F27B 17/00, F27D 99/00
(31) Priority Document No	:10 2020 004 905.2
(32) Priority Date	:12/08/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/072456
Filing Date	:12/08/2021
(87) International Publication No	:WO 2022/034164
(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)BAUCH, Karl
2)MAIS, Gerhard Karl
3)WEISS, Wolfgang

(57) Abstract :
Multiple temperature-control process for stators (7) and rotors of electric motors and components consisting of materials with different magnetic properties by means of a triplex furnace (1) for the quick, efficient and uniform heating-up of preferably tubular components such as stators (7), wherein the magnetic parts of a component are primarily heated up by means of induction and at the same time non-magnetic parts of the same component are primarily heated up by means of infrared radiation, and at the same time and subsequently secondary heating takes place by means of convection, in particular by passive heating elements (10), which serves for finely adjusting the target temperature and for maintaining it.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012252 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POROUS ELECTROLYZER GAS DIFFUSION LAYER AND METHOD OF MAKING THEREOF

(51) International classification	:C25B 11/032, C25B 9/23, C25B 1/04, B22F 3/11, B22F 3/22
(31) Priority Document No	:63/056820
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043047
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/026332
(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)OHMIUM INTERNATIONAL, INC.
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1)BALLANTINE, Arne
2)KARUPPAIAH, Chockkalingam
3)NGUYEN, Dien
4)NGUYEN, James

(57) Abstract :
A porous titanium sheet configured to function as an anode side gas diffusion layer of a proton exchange membrane (PEM) electrolyzer is formed by a powder technique, such as tape casting or powder metallurgy.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012254 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : FOOD COMPOSITION FOR ALLEVIATING OR TREATING CARDIO-CEREBROVASCULAR DISEASE, AND PHARMACEUTICAL COMPOSITION FOR PREVENTING OR TREATING CARDIO-CEREBROVASCULAR DISEASE, COMPRISING 2'-FUCOSYLLACTOSE

(51) International classification	:A61K 31/702, A61P 9/00, A61P 9/10, A61P 7/02, A61P 9/12
(31) Priority Document No	:10-2020-0117862
(32) Priority Date	:14/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/006498
Filing Date	:25/05/2021
(87) International Publication No	:WO 2022/055073
(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, Kyung Ho
2)SHIN, Chul Soo
3)YOON, Jong Won
4)JEON, Seon Min
5)SONG, Young Ha
6)JEON, Ok Seon

(57) Abstract :
The present invention relates to a 2'-fucosyllactose-containing food composition and pharmaceutical composition effective in alleviating, preventing, or treating various cardio-cerebrovascular diseases caused by thrombus formation, and 2'-fucosyllactose (2'-FL) of the present invention exhibits agonistic (inhibitory) action with respect to collagen and collagen-related peptide (CRP), which is a platelet agonist, and thus may be used to suppress thrombus formation caused by abnormal action of platelets.

No. of Pages : 25 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012260 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CIRCULAR EXHAUST-DIFFUSER SYSTEM

(51) International classification :F01N 13/08, F01N 3/05
(31) Priority Document No :20200100510
(32) Priority Date :24/08/2020
(33) Name of priority country :Greece
(86) International Application No :PCT/GR2021/000056
Filing Date :23/08/2021
(87) International Publication No :WO 2022/043719
(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)PKHAKADZE, Alexander

(57) Abstract :
The invention is a circular system with an integrated exhaust- diffuser that reveals an inlay construction of an air passage similar to a tunnel. The present invention through use of aerodynamics, completely releases the exhaust gas and soot layer from the system. It consists of three main parts: the receptacle chamber, the outer frame and the inner frame, which make up the whole construction. The exhaust gas entering the receptacle chamber is split in two and then it heads to the main body (5), where from a viscous form it turns to a sparse-thin form, then the compressed exhaust gas exits to the air tunnel through the slot (6). Above the slot, a short distance away is the stabilizer (3). The stabilizer (3) by compressing the exhaust air mixtures with high pressure is then mixed at the rear of the vehicle with ambient air inside the tunnel. When the vehicle is moving and developing high speed, the air-exhaust mixture is easily merged and the invention that way effectively removes exhaust gases from the system.

No. of Pages : 6 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012261 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SPINDLE AND ROLLING EQUIPMENT COMPRISING SAME

(51) International classification	:F16C 13/00, F16D 3/16, F16N 21/00
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/032846
Filing Date	:31/08/2020
(87) International Publication No	:WO 2022/044313
(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)WATANABE, Hiroaki
2)HIURA, Tadashi
3)ABE, Yuji
4)SUGIMOTO, Tatsunori

(57) Abstract :
A spindle for transmitting rotational driving force to a rolling roll comprises: a female coupling part having on one end side an engaging recess that can receive an engaging protrusion of a male coupling part; and a rotary joint that is provided on the other end side of the female coupling part, and that includes an annular rotating part configured to rotate together with the female coupling part and an annular stationary part positioned on the outer peripheral side of the annular rotating part. The female coupling part includes on said one end side a pair of projecting parts having facing surfaces defining the engaging recess, the female coupling part has a plurality of oil supply channels for supplying oil to the engaging recess, and the rotary joint has a plurality of annular oil channels that each communicate with any of the plurality of oil supply channels. The plurality of oil supply channels includes at least one oil supply channel corresponding to each of four areas resulting from the engaging recess being divided by a center line between the pair of facing surfaces and a straight line orthogonal to the center line in a cross section orthogonal to the axial direction of the spindle. Said at least one oil supply channel provided corresponding to one of the four areas communicates with an annular oil channel that, among the plurality of annular oil channels, is not the annular oil channel that communicates with said at least one oil supply channel corresponding to an area adjacent to said one area of the four areas.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013099 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHANNEL-RETAINING DEVICE, DRAINAGE SYSTEM AND METHOD

(51) International classification :E03F 3/04
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2020/074033
Filing Date :27/08/2020
(87) International Publication No :WO 2022/042849
(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 :Am Ahlmannkai 24782 Büdelsdorf Germany
(72)**Name of Inventor :**
1)MEIER, Stephan
2)MEINCKE, Arne
3)WANDKOWSKI, Marco

(57) Abstract :
According to different embodiments, a channel-retaining device (200) can comprise: - a retaining holder (102), which has a first coupling region (102k) and a retaining region (102a) for retaining a drainage channel extending in a direction; - a retaining socket (104), which has a second coupling region (104k), the first coupling region (102k) and the second coupling region (104k) forming, when joined together, a joint (106), which provides the retaining holder (102) and the retaining socket (104) with a rotational degree of freedom (111) relative to each other in the direction; - a locking device (108), which is designed to block the rotational degree of freedom (111) when the locking device is brought into a first state, so that the retaining holder (102) and the retaining socket (104) are locked to each other, and to release the rotational degree of freedom (111) when the locking device is brought into a second state, so that the retaining holder (102) and the retaining socket (104) can be moved relative to each other.

No. of Pages : 48 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013110 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR NASH RISK ASSESSMENT

(51) International classification :G01N 33/68
(31) Priority Document No :20305895.3
(32) Priority Date :03/08/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/071548
Filing Date :02/08/2021
(87) International Publication No :WO 2022/029066
(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)MAJD, Zouher
2)CHAUMAT, Pierre

(57) Abstract :
The present invention relates to a new assay to diagnose nonalcoholic steatohepatitis (NASH), NASH progression and NASH fibrosis stage.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013112 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PRODRUGS OF PHOSPHONAMIDE NUCLEOTIDE ANALOGUES AND THEIR PHARMACEUTICAL USE

(51) International classification	:A61K 31/675, A61K 45/06, A61P 31/12, A61P 31/18, C07F 9/6561
(31) Priority Document No	:63/062899
(32) Priority Date	:07/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044615
Filing Date	:05/08/2021
(87) International Publication No	:WO 2022/031894
(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)CHUN, Byoung-Kwon
3)CLARKE, Michael O.
4)JANSA, Petr
5)NADUTHAMBI, Devan
6)SQUIRES, Neil H.

(57) Abstract :
Compounds, compositions, and method useful for treating a viral infection, such as human immunodeficiency virus (HIV) and/or hepatitis B virus (HBV) infection, are disclosed. In particular, prodrugs of phosphonamide nucleotide analogues and methods for their preparation and use as therapeutic or prophylactic agents are disclosed.

No. of Pages : 256 No. of Claims : 90

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013122 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR ADDRESSING DISINFORMATION

(51) International classification	:G06F 16/2457, G06F 16/248, G06F 16/9535, G06F 17/30
(31) Priority Document No	:63/057171
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043229
Filing Date	:26/07/2021
(87) International Publication No	:WO 2022/026416
(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)SEHREMELIS, George

(57) Abstract :
A system for addressing disinformation in news includes a non-transitory computer-readable storage medium having software instructions stored therein, which, when executed by a processor, cause the processor to display, on a display of an electronic device, a content feed comprising a series of news items, such as news articles and other news media, received from one or more news organizations, and restrict the electronic device from publishing news articles to the content without prior authorization, such as vetting.

No. of Pages : 25 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013124 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR PROVIDING PERSISTENCE TO REMOTE NON-VOLATILE MEMORY

(51) International classification	:G06F 3/06, G06F 13/16
(31) Priority Document No	:17/031518
(32) Priority Date	:24/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/051580
Filing Date	:22/09/2021
(87) International Publication No	:WO 2022/066789
(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)AGA, Shaizeen

(57) Abstract :
A processing device and methods of controlling remote persistent writes are provided. Methods include receiving an instruction of a program to issue a persistent write to remote memory. The methods also include logging an entry in a local domain when the persistent write instruction is received and providing a first indication that the persistent write will be persisted to the remote memory. The methods also include executing the persistent write to the remote memory and providing a second indication that the persistent write to the remote memory is completed. The methods also include providing the first and second indications when it is determined not to execute the persistent write according to global ordering and providing the second indication without providing the first indication when it is determined to execute the persistent write to remote memory according to global ordering.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013125 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONJUGATED HEPCIDIN MIMETICS

(51) International classification	:A61K 38/04, A61K 38/08, A61K 38/10, A61P 7/06
(31) Priority Document No	:63/057574
(32) Priority Date	:28/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043581
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/026631
(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)BHANDARI, Ashok
3)ZHANG, Jie
4)FREDERICK, Brian Troy
5)SMYTHE, Mark Leslie
6)TARANATH, Roopa

(57) Abstract :
The present invention provides hepcidin analogues with improved in vivo half lives, and related pharmaceutical compositions and methods of use thereof.

No. of Pages : 211 No. of Claims : 218

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012073 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMIC DELIVERY OF OLIGONUCLEOTIDES

(51) International classification :A61K 47/54, C12N 15/113
(31) Priority Document No :63/060715
(32) Priority Date :04/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/042469
Filing Date :21/07/2021
(87) International Publication No :WO 2022/031433
(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)WANG, Weimin
2)BROWN, Bob, Dale
3)YU, Hongchuan
4)CAI, Xiaochuan
5)ABRAMS, Marc

(57) Abstract :
The disclosure provides oligonucleotide-ligand conjugates to facilitate the systemic delivery of oligonucleotides designed to prevent, limit or modulate the expression of mRNA molecules. The conjugates comprise nucleotides which are linked to lipid conjugate moieties or adamantyl groups.

No. of Pages : 164 No. of Claims : 43

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023

(21) Application No.202317012081 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW-LATENCY TRANSMISSION IN RESERVED TXOP

(51) International classification :H04W 74/08, H04W 16/10, H04W 84/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/EP2020/074356
Filing Date :01/09/2020
(87) International Publication No :WO 2022/048731
(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)SEDIN, Jonas
2)DI TARANTO, Rocco
3)PETTERSSON, Charlie
4)SUNDMAN, Dennis
5)WILHELMSSON, Leif, R.

(57) Abstract :
A wireless device (AP1) contends for access to a medium. In response to gaining access to the medium, the wireless device (AP1) reserves a TXOP on the medium. Further, the wireless device (AP1) configures a set of resources (501, 502, 503) in the reserved TXOP to be available to at least one other wireless device (AP2, STA31) for one or more transmissions of data (D) arriving after beginning of the TXOP.

No. of Pages : 29 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012084 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POWER CONVERSION DEVICE

(51) International classification :H02M 7/48
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2021/026406
Filing Date :14/07/2021
(87) International Publication No :WO 2023/286189
(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)MORITO Chikara
2)TOBAYASHI Shunsuke

(57) Abstract :
A power conversion device according to the present invention comprises a first relay unit, one or more second relay units, and a safety control unit. The first relay unit comprises a first logical processing unit that sends, to an upstream side, a response signal from a first power conversion unit and a response signal from a further downstream side than a host first relay unit. Each of the one or more second relay units includes a second logical processing unit that sends, to a further upstream side than the one second relay unit, a response signal from one second power conversion unit of the one or more second power conversion units and a response signal from a further downstream side than the one second relay unit. The safety control unit is disposed at an upstream side of the first logical processing unit, implements functional safety control of the first power conversion unit and the one or more second power conversion units by sending a control command for functional safety control to the first relay unit, and monitors the state of functional safety control of the first power conversion unit and the state of functional safety control of the one or more second power conversion units.

No. of Pages : 36 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012085 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DRIVE SYSTEM AND CONTROL DEVICE FOR DRIVE SYSTEM

(51) International classification :H02M 7/483
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2021/004577
Filing Date :08/02/2021
(87) International Publication No :WO 2022/168310
(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)KAWAI Shinya
2)TAKAO Kenshi
3)TOBAYASHI Shunsuke
4)MORITO Chikara
5)YAMAGUCHI Haruyuki

(57) Abstract :
A drive system (1) drives a multi-phase AC motor (2) having a plurality of windings. The drive system (1) comprises a first power conversion unit (3U), a second power conversion unit (3V), a first conversion control unit (20U), and a second conversion control unit (20V). In the first power conversion unit (3U), current flows to first phase windings of the multi-phase AC motor (2). In the second power conversion unit (3V), current flows to second phase windings of the multi-phase AC motor (2). The first conversion control unit (20U) determines either a three-level phase voltage waveform or a five-level phase voltage waveform based on setting information that specifies the type of phase voltage waveform, and controls the first power conversion unit (3U) to have the determined phase voltage waveform outputted from the first power conversion unit (3U). The second conversion control unit (20V) controls the second power conversion unit (3V) based on the setting information that specifies the type of phase voltage waveform to have the same type of phase voltage waveform as the phase voltage waveform of the first power conversion unit (3U) outputted from the second power conversion unit (3V).

No. of Pages : 48 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/02/2023
(21) Application No.202317012086 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DSB OPERATION WITH EXCLUDED REGION

(51) International classification :G06F 9/52, G06F 12/0831, G06F 12/1027, G06F 15/78
(31) Priority Document No :63/077385
(32) Priority Date :11/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/049750
Filing Date :10/09/2021
(87) International Publication No :WO 2022/056187
(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 :One Apple Park Way Cupertino, California 95014 U.S.A.
(72)**Name of Inventor :**
1)GONION, Jeff
2)KELM, John H.
3)VASH, James
4)KANAPATHIPILLAI, Pradeep
5)AGARWAL, Mridul
6)LEVINSKY, Gideon N.
7)RUSSO, Richard F.
8)TSAY, Christopher M.

(57) Abstract :
Techniques are disclosed relating to data synchronization barrier operations. A system includes a first processor that may receive a data barrier operation request from a second processor include in the system. Based on receiving that data barrier operation request from the second processor, the first processor may ensure that outstanding load/store operations executed by the first processor that are directed to addresses outside of an exclusion region have been completed. The first processor may respond to the second processor that the data barrier operation request is complete at the first processor, even in the case that one or more load/store operations that are directed to addresses within the exclusion region are outstanding and not complete when the first processor responds that the data barrier operation request is complete.

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012555 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR SWITCHING ZERO CHARGE CALLERS

(51) International classification	:H04M 3/38, H04M 3/42, H04M 15/00, H04W 4/24
(31) Priority Document No	:16/938236
(32) Priority Date	:24/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/042917
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/020690
(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)KAHN, Ari

(57) Abstract :
Asynchronous and/or synchronous zero charge telephony protocol systems and methods may include an asynchronous signaling switch and/or a call duration time quota from a synchronous charging onset to place and complete a call. A first device call request is received with a second device mobile address. The asynchronous systems include instructions to automatically modify the mobile address with a routing prefix when the first device has insufficient balance or independent of balance, route to the asynchronous signaling switch based on an associated modified address trunk path, revert the modified call signal at the asynchronous signaling switch to the call signal, and deliver and automatically disconnect the call immediately when the call is completed. The synchronous systems include instructions to automatically set the call duration time quota upon insufficient balance, and deliver and automatically disconnect the call from the second user mobile device when the call is completed and the call duration time quota is exceeded.

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012560 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION OF METOMINOSTROBIN, TEBUCONAZOLE AND PROPINEB

(51) International classification	:A01N 37/50, A01N 43/653, A01N 47/14, A01N 25/04, A01N 25/12
(31) Priority Document No	:202011032607
(32) Priority Date	:30/07/2020
(33) Name of priority country	:India
(86) International Application No	:PCT/IB2021/056888
Filing Date	:29/07/2021
(87) International Publication No	:WO 2022/024012
(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)DUTTA, Ashim Kumar
2)GADE, Vishwanath

(57) Abstract :
The present invention discloses a synergistic combination of metominostrobin, tebuconazole and propineb with its composition and a method for controlling a wide variety of undesired phytopathogenic fungi and/or microorganisms, for plants, including the treatment of plant/plant parts and a region around the plant. The present invention also discloses an enhanced efficacy against phytopathogenic fungi and other diseases in comparison to the individual components of the said combination. The combination also widens the spectrum and said to have longer residual effect against undesired phytopathogenic fungi and/or microorganisms. The combination is also able to increase plant health.

No. of Pages : 33 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012569 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC EXPANSION VALVE

(51) International classification :F16K 31/06, F16K 1/32
(31) Priority Document No :202021868628.0
(32) Priority Date :31/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/103189
Filing Date :29/06/2021
(87) International Publication No :WO 2022/042006
(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)ZHAN, Shaojun
2)DI, Zhiqiang

(57) Abstract :
An electronic expansion valve, comprising: a valve base (10), the valve base (10) being provided with a valve port (11); a nut (20), the nut (20) being connected to the valve base (10); a valve needle (30), the valve needle (30) being provided in the nut (20) in a penetrating manner and capable of controlling the opening degree of the valve port (11); a magnetic rotor (40), the magnetic rotor (40) being rotatably provided in the valve base (10) and located outside the nut (20); a stop (50), the stop (50) being connected to an inner wall of the magnetic rotor (40) and integrated with the magnetic rotor (40), the stop (50) and the magnetic rotor (40) synchronously rotating, and the valve needle (30) being provided on the stop (50) in a penetrating manner; and a connecting sleeve (60), the connecting sleeve (60) being provided between the stop (50) and the valve needle (30), the connecting sleeve (60), stop (50), and valve needle (30) being integrated and synchronously rotating. By means of the valve, the problem in the prior art that the structure of electronic expansion valves is complicated is solved.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012582 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHANNEL QUALITY REPORTING METHOD AND DEVICE, CHANNEL QUALITY RECEIVING METHOD AND DEVICE, TERMINAL, SERVICE NODE, AND MEDIUM

(51) International classification :H04L 1/00, H04W 72/04
(31) Priority Document No :202010790892.5
(32) Priority Date :07/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/106858
Filing Date :16/07/2021
(87) International Publication No :WO 2022/028233
(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)BIAN, Luanjian
2)DAI, Bo
3)HU, Youjun
4)FANG, Huiying
5)LIU, Kun
6)YANG, Weiwei

(57) Abstract :
The present application provides a channel quality reporting method and device, a channel quality receiving method and device, a terminal, a service node, and a medium. The method comprises: determining a first channel quality indicator (CQI) set, the first CQI set comprising an association relationship between a CQI and channel quality parameters; and reporting the CQI on the basis of the first CQI set. The channel quality parameters comprise at least one of a modulation mode, a code rate, spectral efficiency, a modulation and coding scheme (MCS) index, a transport block size (TBS) index, and the number of times of repetition.

No. of Pages : 36 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013199 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHARMACEUTICAL COMPOSITION OF AQUAPORIN INHIBITOR AND PREPARATION METHOD THEREOF

(51) International classification	:A61K 31/167, A61K 31/6615, A61K 31/24, A61P 25/00, A61P 25/14
(31) Priority Document No	:202010779964.6
(32) Priority Date	:05/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/110506
Filing Date	:04/08/2021
(87) International Publication No	:WO 2022/028459
(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)SHI, Ruiwen
3)LIU, Amy
4)SONG, Tian
5)LIU, Yanhong
6)FENG, Aijuan
7)REN, Jinsheng

(57) Abstract :
Provided are a pharmaceutical composition of an aquaporin inhibitor and a preparation method thereof. The pharmaceutical composition comprises 2-((3,5-bis (trifluoromethyl) phenyl)carbamoyl)-4-chlorophenyl dihydrogen phosphate or a pharmaceutically acceptable salt thereof, or a pharmaceutically acceptable solvate thereof, and meglumine. The pharmaceutical composition of the aquaporin inhibitor and the preparation method thereof have the following advantages: the process is simple, has strong operability, and is conducive to industrial production, and the product has good stability, and obviously less content of degradable impurities, which ensures the effectiveness of the medicine.

No. of Pages : 38 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013203 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEAT EXCHANGER AND METHOD FOR MANUFACTURING HEAT EXCHANGER

(51) International classification	:F28D 9/02, F28F 3/10
(31) Priority Document No	:2020-158900
(32) Priority Date	:23/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/033113
Filing Date	:09/09/2021
(87) International Publication No	:WO 2022/065046
(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)KASAI Masaya
2)NAKAZAWA Takema
3)SUEOKA Takahisa

(57) Abstract :
In this heat exchanger (10), partition members (15) and space-retaining members (25, 55) are alternately positioned. The space-retaining members (25, 55) have frame parts (30, 60) that follow the peripheral edges of the partition members (15). Notches (38, 68) that open on the outer-side surface of the frame parts (30, 60) are formed at prescribed positions on the frame parts (30, 60). The surfaces of the notches (38, 68) in the space-retaining members (25, 55) are covered by sealing members (81).

No. of Pages : 38 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013210 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISPLAY PANEL

(51) International classification	:H01L 23/60, H01L 27/12, H01L 23/64
(31) Priority Document No	:202210494533.4
(32) Priority Date	:07/05/2022
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/094176
Filing Date	:20/05/2022
(87) International Publication No	:WO 2023/216307
(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)WU, Yongbo

(57) Abstract :
A display panel (100), comprising a substrate (10), a thin film transistor layer (20) located in a display area (A1) on the substrate (10), a shielding layer (30) located between the substrate (10) and the thin film transistor layer (20) and located in the display area (A1), and peripheral wires (40) located in a non-display area (A2) and electrically connected to the shielding layer (30), the peripheral wires (40) comprising wire portions (401) and resistor portions (402), and the resistance of the resistor portions (402) being greater than the resistance of a shortest wire portion (401) connected between the shielding layer (30) and the wire portions (401).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013217 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPUTING DEVICE, NETWORK NODE, AND METHODS THEREOF

(51) International classification	:G06F 16/9538, H04L 29/08, H04W 24/08
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/EP2020/071336
Filing Date	:29/07/2020
(87) International Publication No	:WO 2022/022815
(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)ARKKO, Jari

(57) Abstract :
A computing device is disclosed. The computing device comprises processing circuitry that is configured to expose (110) a resource that is hosted at the computing device, wherein the resource comprises a digital interface for a physical entity to which the resource corresponds, and expose (120) information about a relation between a state of the resource and a state of the physical entity to which the resource corresponds. Also disclosed is a network node, the network node comprising processing circuitry that is configured to discover a resource that is hosted at the computing device, and to discover information about a relation between a state of the resource and a state of the physical entity to which the resource corresponds. The processing circuitry is further configured to prepare an action relating to the physical entity corresponding to the resource on the basis of a current state of the resource and the information, and to initiate execution of the prepared action.

No. of Pages : 26 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/02/2023
(21) Application No.202317013337 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CAMERA MODULE AND ELECTRONIC DEVICE COMPRISING SAME

(51) International classification	:G03B 17/17, G03B 17/12, G03B 3/00, G03B 5/02, H02K 33/18
(31) Priority Document No	:10-2021-0158252
(32) Priority Date	:17/11/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/015257
Filing Date	:11/10/2022
(87) International Publication No	:WO 2023/090645
(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)KIM, Bongchan
3)PARK, Jaeheung
4)BYON, Kwangseok
5)AN, Hyosang
6)WON, Jonghoon
7)HEU, Min

(57) Abstract :
According to various embodiments of the present invention, a camera module and/or an electronic device comprising same comprises: a camera housing; a barrel structure including at least one lens aligned along the direction of a first optical axis and at least partially accommodated in the camera housing; a guide unit at least partially accommodated in the camera housing and configured to guide the barrel structure so that the barrel structure can reciprocate along the direction of the first optical axis or reciprocate on a plane crossing the first optical axis; a driving unit including at least one coil and at least one magnet disposed at least partially facing the at least one coil in a direction crossing the first optical axis; a reflective member at least partially accommodated in the camera housing and configured to refract or reflect, in the direction of a second optical axis crossing the first optical axis, light that has entered through the at least one lens; and an image sensor that is disposed on the camera housing, aligned with the reflective member in the direction of the second optical axis, and configured to receive the light refracted or reflected by the reflective member. The at least one coil or the at least one magnet may be disposed at a position at least partially facing the reflective member in a direction crossing the first optical axis. Various other embodiments are possible.

No. of Pages : 46 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012271 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PESTICIDALLY ACTIVE MIXTURE COMPRISING PYRAZOLOPYRIDINE ANTHRANILAMIDE COMPOUND, OXIDES OR SALTS THEREOF

(51) International classification	:A01N 43/90, A01N 37/46, A01N 53/00, A01N 47/38, A01N 43/80
(31) Priority Document No	:202011032003
(32) Priority Date	:27/07/2020
(33) Name of priority country	:India
(86) International Application No	:PCT/IB2021/056717
Filing Date	:26/07/2021
(87) International Publication No	:WO 2022/023931
(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)SARAGUR, Ravikumar Suryanarayana
3)GARG, Ruchi
4)PABBA, Jagadish
5)AUTKAR, Santosh Shridhar

(57) Abstract :
The present invention relates to a pesticidal active mixture comprising pyrazolopyridine anthranilamide compound of formula (I), oxides or a salt thereof, Formula (I) wherein, R1, R2, R3, R4, Z and E are as defined in the description, and at least one insecticidally active compound (II) or at least one fungicidally active compound (III).

No. of Pages : 112 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012275 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MUTATED BETA-GLUCOCEREBROSIDASE WITH IMPROVED STABILITY

(51) International classification :C12N 9/24, A61K 38/47
(31) Priority Document No :2011813.9
(32) Priority Date :29/07/2020
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2021/051969
Filing Date :29/07/2021
(87) International Publication No :WO 2022/023761
(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)COMPER, Fabrizio
2)NATHWANI, Amit
3)MCINTOSH, Jenny
4)CORBAU, Romuald
5)KIA, Azadeh
6)MIRANDA, Carlos

(57) Abstract :
The present invention relates to a modified ß-Glucocerebrosidase (GCase) polypeptide and a polynucleotide comprising a modified glucocerebrosidase (GBA) nucleotide sequence. The invention further relates to a viral particle comprising a recombinant genome comprising the polynucleotide of the invention, and a composition comprising the modified GCase polypeptide, polynucleotide, or viral particle of the invention. The invention also relates to methods of using, and uses of, the modified GCase polypeptide, polynucleotide, viral particle and/or composition of the invention. The invention further relates to the modified GCase polypeptide, polynucleotide, viral particle, or composition of the invention for use in a method of treatment, or use in the manufacture of a medicament for use in a method of treatment.

No. of Pages : 194 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012306 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHIRAL SYNTHESIS OF FUSED BICYCLIC RAF INHIBITORS

(51) International classification	:C07D 405/04, C07D 471/04, A61P 35/00, A61K 31/4375, A61K 31/4439
(31) Priority Document No	:63/057531
(32) Priority Date	:28/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/EP2021/071219
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/023450
(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)HAWKINS, Neil
3)GLOSSOP, Steven Christopher
4)MARGATHE, Jean-François
5)JONES, Clifford David
6)COLLETTO, Chiara

(57) Abstract :
The present disclosure generally relates to improved synthesis of fused bicyclic Raf inhibitor enantiomers of formula (I), (Ia), (Ib), (II), (IIa), or (IIb), or a pharmaceutically acceptable salt, tautomer, or stereoisomer thereof, with high enantiomeric excess (%ee). The disclosure also relates to method of using the compound of formula (I), (Ia), (Ib), (II), (IIa), or (IIb), or a pharmaceutically acceptable salt, tautomer, or stereoisomer thereof, for treating diseases such as cancer, including colorectal cancer.

No. of Pages : 135 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012331 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADAR DEPENDENT EDITING COMPOSITIONS AND METHODS OF USE THEREOF

(51) International classification :C12N 15/11, C12N 15/113, C12N 15/115
(31) Priority Document No :63/059084
(32) Priority Date :30/07/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/044074
Filing Date :30/07/2021
(87) International Publication No :WO 2022/026928
(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)LI, Zhen
2)ZHU, Rui
3)DA SILVA CORREIA, Jean
4)FULTZ, Kimberly
5)STUDER, Sean
6)LEAR, Sam

(57) Abstract :
Disclosed herein are compositions and methods for recruiting and using ADAR. In some aspects, compositions and methods for targeting ADAR activity to a desired region, sequence, or nucleotide are disclosed. In some aspects, compositions and methods for increasing the efficiency of directed ADAR editing are disclosed.

No. of Pages : 226 No. of Claims : 198

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012333 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIDELINK RESOURCE SELECTION METHOD AND TERMINAL

(51) International classification	:H04W 16/04, H04W 28/06, H04W 28/16, H04W 72/12
(31) Priority Document No	:202010734466.X
(32) Priority Date	:27/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/108619
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/022496
(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)WANG, Huan
2)JI, Zichao
3)PENG, Shuyan

(57) Abstract :
Disclosed are a sidelink resource selection method and a terminal. The sidelink resource selection method comprises: determining resource selection modes that can be used by a target operation, the resource selection modes comprising a first resource selection mode and a second resource selection mode, and resource selection auxiliary information being taken into consideration when the second resource selection mode is used; if the target operation is capable of simultaneously using the first resource selection mode and the second resource selection mode, determining, on the basis of a first mode, a resource selection mode used by the target operation; and executing the target operation according to the determined resource selection mode.

No. of Pages : 46 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012342 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BODY BALANCE CORRECTING APPARATUS AND BODY BALANCE CORRECTING METHOD

(51) International classification	:A61H 7/00, A61H 23/02
(31) Priority Document No	:2020-128883
(32) Priority Date	:30/07/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/023773
Filing Date	:23/06/2021
(87) International Publication No	:WO 2022/024603
(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)KAMEI Masamichi

(57) Abstract :
This body balance correcting apparatus 1 is capable of improving blood circulation, skeletal balance, and the like from the inside of the body by oscillating the body of a user, and comprises an oscillation panel 3 which supports the user in a recumbent state, a support device 2 which supports the oscillation panel 3 so as to enable the oscillation panel 3 to oscillate in the in-plane direction, a drive device 4 which oscillates the oscillation panel 3 in the axial direction of the body of a user H, and a controller 5 which controls the acceleration and deceleration of the oscillation by the drive device 4. The oscillation panel 3 can be adjusted to oscillate at an amplitude A in the horizontal direction with respect to the support device 1 in a range of about 0 to 6 cm and within 15 cm, and with a cycle T in a range of about 0.5 to 2.0 seconds, and by adjusting the acceleration and deceleration of the oscillation of the oscillation panel 3 by the control order from the controller 5, blood circulation and skeletal balance can be improved from the inside of the body of the user H.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012345 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW-PRESSURE HEAT PIPES AND HEAT TRANSFER METHODS USING LOW-PRESSURE FOR HEAT PIPES

(51) International classification	:C09K 5/04, F28D 15/02, F28D 21/00, H05K 7/20
(31) Priority Document No	:PCT/CN2020/116140
(32) Priority Date	:18/09/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/US2021/050897
Filing Date	:17/09/2021
(87) International Publication No	:WO 2022/061127
(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 :855 S. Mint Street Charlotte, NC 28202 U.S.A.
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1)LIU, Tao
2)ZHOU, Yong
3)LIN, Enxin

(57) Abstract :
Heat pipes and low-pressure working fluids used for heat pipes are described, by charging the low pressure working fluids with a level of non-condensable gases of less than 1% by volume, and the heat pipes can provide better thermal performance than aluminium plates while little or no additional cost is introduced for degassing.

No. of Pages : 45 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012346 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : DESALINATION OF WATER USING A COMPLEXING AGENT ATTACHED TO A MAGNETIC NANOPARTICLE

(51) International classification	:C02F 1/68, C09C 1/24, C09C 3/08, B82Y 30/00, C07D 323/00	(71)**Name of Applicant :** **1)N W P T - NANO WATER PURIFICATION TECHNOLOGY LTD** Address of Applicant :34 Itzhak Sade St. 6721207 Tel Aviv-Yafo Israel
(31) Priority Document No	:276904	
(32) Priority Date	:24/08/2020	(72)**Name of Inventor :**
(33) Name of priority country	:Israel	**1)KOGAN, Vladimir**
(86) International Application No	:PCT/IL2021/051033	**2)VIRTZER, Yaron**
Filing Date	:23/08/2021	**3)REMEZ, Lev Ari**
(87) International Publication No	:WO 2022/044000	**4)CARMIELLI, Shiri**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
There is disclosed, a desalination apparatus making use of a particles including covalently bonded functionalized magnetic nanoparticles coupled to a complexing agent. For example, the complexing agent may include a crown ether. The particles are optionally used for removing salt from water, for example sea water. The apparatus optionally includes a magnet for magnetic filtering, concentrating and/or removing the particles and/or contaminant (e.g., salt). In some embodiments, the salt is then separated back from the particles using UV light. The remaining unclarified water may be washed out with the contaminant and/or used for salt production and/or disposed of (e.g., dumped back to the sea). Optionally, the particles are regenerated. For example, the regenerated particulars may be reused for further desalination steps (e.g., further salt removal from the clarified water) to clarify new input water. Covalently bonded functionalized magnetic nanoparticles coupled to a complexing agent are also disclosed.

No. of Pages : 111 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012349 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : INK COMPOSITION FOR WRITING IMPLEMENT, WRITING IMPLEMENT, AND CARTRIDGE INK FOR WRITING IMPLEMENT

(51) International classification :C09D 11/16
(31) Priority Document No :2020-142853
(32) Priority Date :26/08/2020
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2021/030898
Filing Date :24/08/2021
(87) International Publication No :WO 2022/045092
(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)NISHIKAWA Tomoaki

(57) Abstract :
[Problem] The present invention addresses the problem of providing an ink composition for a writing implement having various characteristics such as dry-up resistance and writing density in addition to dispersion stability and writing fastness such as writing water resistance, and a writing implement that uses the same. [Solution] The ink composition for a writing implement according to the present invention includes a self-dispersing pigment, an a-glucan or an a-glucan derivative, and water. The present invention relates to the ink composition for a writing implement and to a writing implement and a cartridge for a writing implement that house the same.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012365 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AGROCHEMICAL ADJUVANTS

(51) International classification	:A01N 43/90, A01N 63/30, A01P 3/00, A01N 43/653, A01N 47/24
(31) Priority Document No	:63/066519
(32) Priority Date	:17/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/045902
Filing Date	:13/08/2021
(87) International Publication No	:WO 2022/040038
(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)HALTLI, Bradley, Arnold
3)KERR, Russell, Greig
4)GRUNWALD, Alyssa, Louise
5)CORREA VELANDIA, Hebelin

(57) Abstract :
A novel agrochemical formulation comprising adjuvants selected from diketopiperazines and an agrochemical active. A concentrate is also provided suitable for forming the formulation. The diketopiperazine provide adjuvancy in the concentrate and agrochemical formulations. There is also provided a method of making the formulation, and use of said diketopiperazines as adjuvants in agrochemical formulations is also provided. A method of obtaining the diketopiperazines from culturing of Metarhizium carneum, strain RKD0578 is also described. The extracted diketopiperazines may be used in a formulation for treating vegetation to control pests, or seed coating. Alternatively the strain RKD0578 itself may be used in a seed coating or in a formulation for treating vegetation to control pests.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012366 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM FOR THE FLUID-GUIDING CONNECTION OF AN ELEMENT TO A COUNTERPART, ADAPTER ELEMENT AND ADAPTER HOUSING FOR FLUID-GUIDING CONNECTION AND ADAPTER SYSTEM HAVING THE ADAPTER ELEMENT AND THE ADAPTER HOUSING

(51) International classification	:F16L 15/00, F16L 29/02, F16L 41/00, F16L 41/08, F16L 41/16
(31) Priority Document No	:10 2020 209 735.6
(32) Priority Date	:03/08/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/071272
Filing Date	:29/07/2021
(87) International Publication No	:WO 2022/029004
(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)ANDREAS, Jan

(57) Abstract :
The present invention relates to a system (100) for the flow-guiding or fluid-guiding connection of an element (200) to a counterpart 300, comprising: a first seal (110), consisting of a valve body (101) and a first seal element (102) which is arranged in a fluid channel (301), the valve body (101) being configured, by interaction with the seal element (102), to be able to be displaced or moved between an open position, in which a fluid, more particularly gas, can flow through the fluid channel (301), and a closed position, in which no fluid, more particularly gas, can flow through the fluid channel (301), and a second seal (120), which is arranged downstream of the first seal (110) in the fluid channel (301) in a flow-out direction A of the fluid flowing through/out of the fluid channel (301) and is configured to seal a connection region 302 between the fluid channel (301) and the element (200), more particularly to seal same in a gas-tight manner, the second seal (120) being designed such that, when the element (200) is connected to the counterpart (300), the second seal seals the connection region 302 before the first seal (110) can be or is mechanically displaced or moved into the open position.

No. of Pages : 22 No. of Claims : 24

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013129 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PRESSED COMPONENT MANUFACTURING METHOD, MOLD DESIGNING METHOD, MOLD SHAPE DESIGNING DEVICE, AND MOLD

(51) International classification	:B21D 22/00, B21D 22/26
(31) Priority Document No	:2020-147655
(32) Priority Date	:02/09/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/026673
Filing Date	:15/07/2021
(87) International Publication No	:WO 2022/049904
(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)NAKAGAWA Kinya
2)SHINMIYA Toyohisa
3)YAMASAKI Yuji

(57) Abstract :
Provided is a pressed component manufacturing method which can be applied even when a pressed component having a shape that cannot be molded unless the pressed component is significantly narrowed is manufactured. When a metal plate is press-molded into a final component shape through two or more press steps including a press step, if the metal plate is press-molded into the final component shape through a single press step, an inflow amount of a material required for forming the final component shape is calculated on the basis of an increment in the cross-sectional line length of the final component shape with respect to that before molding, the calculated inflow amount of the material is distributed to each step including a final press step, and a preformed shape after the press molding in a step other than the final press step is determined on the basis of the distributed inflow amount. As a cross section, a line is set which, in a plan view, is orthogonal to a direction in which the material flows when the metal plate is drawn, and a plurality of cross sections are set which are cut by planes orthogonal to the line in a plan view and extending in a direction along the plate thickness direction of the metal plate before molding.

No. of Pages : 53 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013130 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A COMPUTER-IMPLEMENTED METHOD FOR DETECTING GLOBAL NAVIGATION SATELLITE SYSTEM SIGNAL SPOOFING, A DATA PROCESSING APPARATUS, A COMPUTER PROGRAM PRODUCT, AND A COMPUTER-READABLE STORAGE MEDIUM

(51) International classification :G01S 19/21
(31) Priority Document No :20188808.8
(32) Priority Date :31/07/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/069344
Filing Date :12/07/2021
(87) International Publication No :WO 2022/023010
(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)SECO GRANADOS, Gonzalo
3)LOPEZ SALCEDO, Jose, Antonio
4)FERNANDEZ HERNANDEZ, Ignacio

(57) Abstract :
A computer-implemented method for detecting Global Navigation Satellite System (GNSS) signal spoofing. The method comprises: storing (120), at a GNSS receiver, sample sequences of the predictable part and of the unpredictable part of a GNSS signal, wherein the predictable part comprises predictable bits and the unpredictable part comprises unpredictable bits; verifying (125) the value of the unpredictable bits from which the unpredictable sample sequences are extracted; computing (130) a first and a second partial correlation between the unpredictable, respectively predictable, sample sequences and a locally stored GNSS signal replica; calculating (140) a predefined metric from the complex valued partial correlations; and comparing (150) the predefined metric with a predefined threshold value. In a zero-delay replay attack, the spoofer has to estimate the unpredictable bits introduced by a GNSS authentication protocol and thereby introduces a distortion into the signal. The method detects this distortion to indicate whether the signal under analysis is being spoofed or is authentic.

No. of Pages : 24 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013131 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLATFORM AND SYSTEM FOR EXTRACTING USER'S DATE OF BIRTH AND PROVIDING INFORMATION ON AI ROBOT AND CHATBOT-BASED CHAT, BLIND DATE, AND MARITAL HARMONY

(51) International classification	:G06Q 30/06, G06Q 50/10, G06Q 50/30
(31) Priority Document No	:10-2020-0098149
(32) Priority Date	:05/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/009723
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/030852
(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)KIM, Youn Ho
(72)**Name of Inventor :**
1)KIM, Man Yi
2)KIM, Youn Ho

(57) Abstract :
The present invention relates to an IoT-based platform and system for providing a product recommendation service by using date of birth information extracted from user information. An embodiment of the present invention proposes a system comprising: a management server for operating at least one of a website and a mobile app which provide a product recommendation service; and a user terminal for executing at least one of the website and the mobile app, wherein the management server receives personal information of a first user, which is input through the user terminal, configures characteristic information on the basis of the personal information, configures a recommended product corresponding to the characteristic information, and controls the recommended product to be displayed through the user terminal.

No. of Pages : 49 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012367 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HANDOVER SCHEMES IN MULTICAST BROADCAST SERVICES

(51) International classification :H04W 4/06
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/122714
Filing Date :22/10/2020
(87) International Publication No :WO 2022/082570
(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)DIAO, Xueying
2)CHEN, Lin
3)QI, Tao

(57) Abstract :
A method of wireless communication is described. The method includes receiving, by a first communication node from a second communication node, a first message that includes multicast broadcast service (MBS) information related to one or more multicast broadcast service (MBS) sessions; and sending, by the first communication node, to the second communication node, a second message that includes information for the one or more MBS sessions

No. of Pages : 18 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012368 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PUPILLATED ILLUMINATION APPARATUS

(51) International classification	:F21Y 151000, G03B 150500, H05B 453725, H05B 453750, H05B 453800
(31) Priority Document No	:63/058314
(32) Priority Date	:29/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043444
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/026543
(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)REALD SPARK, LLC
Address of Applicant :Suite A-2? 1930 Central Avenue? Boulder, Colorado 80301 U.S.A.
(72)**Name of Inventor :**
1)ROBINSON, Michael G.
2)WOODGATE, Graham J.
3)HARROLD, Jonathan

(57) Abstract :
A switchable backlight for a switchable privacy display apparatus comprises a collimated waveguide, first and second light sources and an optical turning film comprising elongate prismatic elements with facet orientations that pupillate the output of the waveguide in two orthogonal directions for each of first and second light sources. High luminance uniformity is achieved for a head-on user in privacy and public viewing modes and high uniformity of security factor is achieved for off-axis snoopers, with increased speed of privacy switch-on in privacy mode.

No. of Pages : 57 No. of Claims : 61

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012369 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : SPECTACLE LENS WITH ANTIBACTERIAL AND/OR ANTIVIRAL PROPERTIES AND METHOD FOR MANUFACTURING THE SAME

(51) International classification	:B29D 11/00, G02C 7/02, G02B 1/18
(31) Priority Document No	:PCT/CN2020/104011
(32) Priority Date	:24/07/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/EP2021/070730
Filing Date	:23/07/2021
(87) International Publication No	:WO 2022/018279
(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)CARL ZEISS VISION INTERNATIONAL GMBH
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2)CARL ZEISS VISION (CHINA) LTD.
(72)**Name of Inventor :**
1)AZIZ, Emad Flear
2)OUYANG, Liu
3)WAWERLA, Marc
4)YOU, Haiming

(57) Abstract :
A spectacle lens comprising at least one antibacterial and/or antiviral coating and a method for manufacturing the same.

No. of Pages : 44 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023

(21) Application No.202317012370 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONDITIONING AGENT FOR A PARTICULATE FERTILIZER

(51) International classification	:C05G 3/20, C05G 5/30
(31) Priority Document No	:20192401.6
(32) Priority Date	:24/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/073231
Filing Date	:23/08/2021
(87) International Publication No	:WO 2022/043243
(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)NAFISI, Vajiheh
2)TANDE, Terje

(57) Abstract :
The present disclosure is related to a conditioning agent for reducing water absorption and dust formation of a particulate fertilizer, comprising 50 to 60 weight% of wax, 30 to 40 weight% of oil, 1 to 15 weight% of a resin being oil-soluble and miscible with wax and oil, and optionally 0.01 to 2.0 weight% of a viscoelastic elastomer which is soluble in oil. The conditioning agent may be applied to a particulate substrate, in particular a fertilizer particulate substrate, to reduce the moisture uptake and the dust formation of the substrate, in particular wherein the substrate is blended with other particulate compositions.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012371 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EFFERVESCENT FORMULATION CONTAINING APOAEQUORIN

(51) International classification :A61K 9/00
(31) Priority Document No :63/068084
(32) Priority Date :20/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/046614
Filing Date :19/08/2021
(87) International Publication No :WO 2022/040380
(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 :726 Heartland Trail, Suite 300 Madison, WI 53717 U.S.A.
(72)**Name of Inventor :**
1)UNDERWOOD, Mark, Y.

(57) Abstract :
This invention relates generally to compositions useful for the maintenance of calcium homeostasis. In particular, this invention is directed to apoaequorin-containing effervescent compositions useful in preventing and/or alleviating diseases or symptoms associated with calcium imbalance. Certain embodiments of the invention further contain active ingredients including at least one stimulant (e.g., caffeine) and/or vitamin D.

No. of Pages : 17 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012372 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLAPPER VALVE FOR PERCUSSION DRILL TOOLS

(51) International classification :E21B 34/08
(31) Priority Document No :S2020/0186
(32) Priority Date :19/08/2020
(33) Name of priority country :Ireland
(86) International Application No :PCT/EP2021/072944
Filing Date :18/08/2021
(87) International Publication No :WO 2022/038188
(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)MINCON INTERNATIONAL LIMITED
Address of Applicant :Smithstown Industrial Estate Shannon, Co. Clare V14 N993 Ireland
(72)**Name of Inventor :**
1)SEXTON, Ben
2)KESKINIVA, Markku

(57) Abstract :
The present invention relates to a flapper valve for a percussion drill tool. The valve comprises a first side engageable with a planar surface of an element of the percussion drill tool to alternately close first and second fluid flow paths of the percussion drill tool. The planar surface comprises first and second apertures in fluid communication with the first and second fluid flow paths, respectively. The first side of the flapper valve comprises a first planar portion and a second planar portion and a first curved tip portion intermediate the first and second planar portions. The flapper valve is pivotable about the first curved tip portion between a first position, in which the first planar portion of the flapper valve is in sealing contact with the planar surface to close the first aperture, and a second position, in which the second planar portion of the flapper valve is in sealing contact with the planar surface to close the second aperture.

No. of Pages : 12 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012583 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONGESTION PROCESSING METHOD AND APPARATUS, AND DEVICE AND STORAGE MEDIUM

(51) International classification :H04W 28/02
(31) Priority Document No :202010761386.3
(32) Priority Date :31/07/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/109968
Filing Date :02/08/2021
(87) International Publication No :WO 2022/022734
(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 :ZTE Plaza, Keji Road South Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(72)**Name of Inventor :**
1)WANG, Liping
2)CHEN, Lin

(57) Abstract :
Disclosed are a congestion processing method and apparatus, and a device and a storage medium. The congestion processing method is applied to a first node, and comprises: receiving congestion information, wherein the congestion information is used for a first node to perform congestion processing; and performing congestion processing on the basis of the congestion information.

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012584 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : OPTICAL FIBER CONNECTOR ASSEMBLY, LABEL SYSTEM, LABEL MODULE AND IDENTIFICATION METHOD

(51) International classification	:G02B 6/38, G06K 7/10
(31) Priority Document No	:202010852565.8
(32) Priority Date	:21/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/082311
Filing Date	:23/03/2021
(87) International Publication No	:WO 2022/037057
(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)HU, Jian
2)LIN, Qinxian
3)WEN, Yida

(57) Abstract :
An optical fiber connector assembly (203, 401, 402, 1200, 1500, 2900, 3300, 3900, 4300, 4605), a label system (4600, 5200), a label module (503, 1206, 1501, 2001, 2901, 3303, 3903, 4303) and an identification method, which are used to improve the efficiency and accuracy of identifying the optical fiber connector assembly (203, 401, 402, 1200, 1500, 2900, 3300, 3900, 4300, 4605). The optical fiber connector assembly (203, 401, 402, 1200, 1500, 2900, 3300, 3900, 4300, 4605) comprises an optical fiber connector body (501, 411, 1201, 3901, 4301), a connecting member (502, 406, 3902, 4302) and the label module (503, 1206, 1501, 2001, 2901, 3303, 3903, 4303). The connecting member (502, 406, 3902, 4302) are separately connected to the optical fiber connector body (501, 411, 1201, 3901, 4301) and the label module (503, 1206, 1501, 2001, 2901, 3303, 3903, 4303). The label module (503, 1206, 1501, 2001, 2901, 3303, 3903, 4303) has a target surface (601, 4312). The target surface (601, 4312) faces away from the location of the optical fiber connector body (501, 411, 1201, 3901, 4301). The target surface (601, 4312) is used to set label information, and the label information is used to identify the optical fiber connector body (501, 411, 1201, 3901, 4301).

No. of Pages : 101 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012593 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FGFR3 ANTIBODIES AND METHODS OF USE

(51) International classification	:A61P 19/08, C07K 16/28
(31) Priority Document No	:63/068575
(32) Priority Date	:21/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/046958
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/040560
(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)BRONDYK, William
4)QIU, Huawei
5)PARK, Sunghae
6)WEI, Ronnie
7)QIU, Yu
8)ZHOU, Yanfeng
9)LEMOINE, Cendrine
10)CHO, HyunSuk

(57) Abstract :
Anti-FGFR3 antigen-binding proteins and antigen-binding binding fragments thereof are provided. Methods of inhibiting FGFR3 activity and methods of treating FGFR3-mediated diseases and disorders are also provided.

No. of Pages : 121 No. of Claims : 81

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012596 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DIRECT SINGLE PHASE IMMERSION COOLANT LIQUID

(51) International classification	:C09K 5/06, C09K 5/10, C09K 5/12, H01L 23/44, H01L 23/473
(31) Priority Document No	:20205816
(32) Priority Date	:21/08/2020
(33) Name of priority country	:Finland
(86) International Application No	:PCT/FI2021/050558
Filing Date	:19/08/2021
(87) International Publication No	:WO 2022/038313
(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)NESTE OYJ
Address of Applicant :Keilaranta 21 02150 Espoo Finland
(72)**Name of Inventor :**
1)HARTIKAINEN, Jukka
2)THOMAS, David

(57) Abstract :
Use of a renewable paraffinic composition that contains at least 80 wt-% paraffins in the C16-C19 range for direct single phase immersion cooling is disclosed. A direct single phase immersion cooling system and a method for direct single phase immersion cooling are also disclosed.

No. of Pages : 59 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012601 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WATER SOLUBLE FIBERS WITH POST PROCESS MODIFICATIONS AND ARTICLES CONTAINING SAME

(51) International classification	:C11D 1/37, C11D 17/04, C11D 3/37
(31) Priority Document No	:63/074716
(32) Priority Date	:04/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/049069
Filing Date	:03/09/2021
(87) International Publication No	:WO 2022/051623
(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)ZEESE, Nicholas
2)KNIGHT, Jonathon
3)GOETZ, Richard
4)BRIDEWELL, Victoria
5)SHUEY, Alyssa

(57) Abstract :
Methods of treating fibers comprising a polymer including at least one of a vinyl acetate moiety or a vinyl alcohol moiety, and resulting fibers or the products comprising the resulting fibers are disclosed. In an example embodiment, a fiber having a surface region and an interior region, includes a polymer comprising at least one of a vinyl acetate moiety or a vinyl alcohol moiety chemically modified with a modification agent. The fiber has a transverse cross-section including the interior region comprising the polymer having a first degree of modification and the surface region comprising the polymer having a second degree of modification greater than the first degree of modification.

No. of Pages : 128 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012603 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL BIARYL DERIVATIVE USEFUL AS DIACYLGLYCEROL ACYLTRANSFERASE 2 INHIBITOR, AND USE THEREOF

(51) International classification	:C07D 401/04, A61K 31/4965, A61K 31/497, A61K 31/216, A61P 1/16
(31) Priority Document No	:10-2020-0112843
(32) Priority Date	:04/09/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011906
Filing Date	:03/09/2021
(87) International Publication No	:WO 2022/050749
(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)YOON, Seung Hyun
2)JOO, Hyun Woo
3)SEO, Bo Kyung
4)LEE, Eun Jin
5)JUNG, Jin Young
6)YOON, Su Young
7)CHO, Woo Young

(57) Abstract :
The present invention relates to a biaryl derivative compound, which exhibits the activity of a diacylglycerol acyltransferase 2 (DGAT2) inhibitor and is represented by chemical formula (1), a pharmaceutical composition comprising same as an active ingredient, and a use thereof.

No. of Pages : 71 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012609 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENZYMATIC DEGRADATION OF CELLULOSIC SUBSTRATES IN THE PRESENCE OF LIGNOCELLULOSE MILLING PARTICLES

(51) International classification	:C12M 1/33, C12M 1/00, C12M 1/12, C12P 19/14, C12P 7/06
(31) Priority Document No	:2013321.1
(32) Priority Date	:26/08/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2021/052207
Filing Date	:25/08/2021
(87) International Publication No	:WO 2022/043685
(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)SERVIN, Lars Fredrik Paul
2)PALMER-LILLEY, Richard Elliot
3)ABERCROMBIE, Elizabeth Jean
4)JENKINS, Stephen Derek

(57) Abstract :
A process and apparatus for the enzymatic degradation of a cellulosic substrate is disclosed. The process comprises agitating a composition with milling particles, wherein the milling particles are or comprise a lignocellulosic material and wherein the composition comprises: a. the cellulosic substrate; b. a cellulase enzyme; and c. a liquid medium.

No. of Pages : 22 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012611 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SCALABLE SYNTHESIS OF PERIMORPHIC CARBONS

(51) International classification	:C01B 32/194, C01B 32/05, C01B 32/18, C09C 1/44
(31) Priority Document No	:63/075918
(32) Priority Date	:09/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/049195
Filing Date	:07/09/2021
(87) International Publication No	:WO 2022/060588
(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)BISHOP, Matthew
2)BRILL, David
3)CARSTENS, Christopher
4)THOMAS, Abhay
5)WESTLE, Andrew

(57) Abstract :
The present disclosure is directed to the scalable synthesis of carbonaceous perimorphic materials, including carbonaceous perimorphic frameworks, on recyclable templates, and using recyclable process liquids. The present disclosure also demonstrates novel perimorphic architectures. In particular, perimorphic frameworks comprising synthetic anthracitic networks are demonstrated. Using these methods, three-dimensional architectures constructed from grapheme carbon can be scalably produced.

No. of Pages : 85 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012623 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PENTAVALENT VACCINE AGAINST NEISSERIA MENINGITIDIS COMPRISING A SYNTHETIC MEN A ANTIGEN

(51) International classification	:A61K 39/095, A61P 31/04, C07K 14/22, A61K 39/00
(31) Priority Document No	:2013262.7
(32) Priority Date	:25/08/2020
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2021/073217
Filing Date	:23/08/2021
(87) International Publication No	:WO 2022/043238
(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)ADAMO, Roberto
2)ROMANO, Maria Rosaria
3)TONTINI, Marta

(57) Abstract :
The inventors have identified a combined vaccine for immunisation against bacterial meningitis caused by multiple pathogens.

No. of Pages : 106 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012624 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SOLID ELECTROLYTE MEMBRANE AND SOLID-STATE BATTERY COMPRISING SAME

(51) International classification	:H01M 10/0565, H01M 10/42, H01M 10/052
(31) Priority Document No	:10-2020-0104846
(32) Priority Date	:20/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011145
Filing Date	:20/08/2021
(87) International Publication No	:WO 2022/039564
(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 ENERGY SOLUTION, LTD.
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(72)**Name of Inventor :**
1)JIN, Guilong
2)KANG, Sung-Joong
3)KIM, Eun-Bee
4)KIM, Ji-Young

(57) Abstract :
A solid electrolyte membrane of the present invention uses, as a filler for the solid electrolyte membrane, composite particles in which the pores of porous particles are filled with a phase change material, and thus a solid electrolyte membrane having high ion conductivity and mechanical strength while comprising a minimized amount of a phase change material can be obtained.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012636 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TAU VACCINE FOR THE TREATMENT OF ALZHEIMER'S DISEASE

(51) International classification :A61P 25/28, A61P 37/04, A61K 39/00
(31) Priority Document No :63/062971
(32) Priority Date :07/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/033189
Filing Date :19/05/2021
(87) International Publication No :WO 2022/031342
(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)BARBOUR, Robin
2)KINNEY, Gene
3)ZAGO, Wagner
4)NIJJAR, Tarlochan, S.

(57) Abstract :
The disclosure provides peptides, peptide compositions, immunotherapy compositions, pharmaceutical compositions and nucleic acids comprising one or more tau peptides. The disclosure also provides methods of treating or effecting prophylaxis of Alzheimer's disease or other diseases characterized at least in part by aberrant tau pathology (e.g., aggregation in neurofibrillary tangles) in a subject, including methods of clearing deposits, inhibiting or reducing aggregation of tau, blocking the uptake by neurons, clearing tau, and inhibiting propagation of tau seeds in a subject having or at risk of developing Alzheimer's disease or other diseases containing tau accumulations. The methods include administering to such patients the compositions comprising one or more tau peptides.

No. of Pages : 79 No. of Claims : 111

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012642 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONSTRAINED CONDITIONALLY ACTIVATED BINDING PROTEINS

(51) International classification :C07K 16/28, A61P 35/00, A61K 39/395
(31) Priority Document No :63/066565
(32) Priority Date :17/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/046217
Filing Date :17/08/2021
(87) International Publication No :WO 2022/040128
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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5)DETTLING, Danielle
6)DEGENHARDT, Jeremiah

(57) Abstract :
The invention relates to Conditional Bispecific Redirected Activation constructs, or COBRAs, that are administered in an active pro-drug format. Upon exposure to tumor proteases, the constructs are cleaved and activated, such that they can bind one or more tumor target antigens (TTAs) as well as CD3, thus recruiting T cells expressing CD3 to the tumor, resulting in treatment. In some embodiments, the tumor target antigen includes B7H3, CA9 (CAIX), EGFR, EpCAM, FOLR1, HER2, LyPD3, and/or Trop2.

No. of Pages : 125 No. of Claims : 52

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012648 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : ORAL CARE COMPOSITIONS

(51) International classification	:A61K 082100, A61K 083400, A61K 088100, A61P 010200, A61Q 110000
(31) Priority Document No	:63/073784
(32) Priority Date	:02/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/048239
Filing Date	:30/08/2021
(87) International Publication No	:WO 2022/051227
(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)FEI, Lin
3)CHOPRA, Suman
4)KULKARNI, Pooja

(57) Abstract :
Described herein are high water oral care composition comprising an orally acceptable vehicle; a thickening system; one or more abrasives; and one or more gelling agents, wherein the one or more gelling agents comprise a salt of a fatty acid; and wherein the salt is a monovalent salt, a divalent salt, or a combination thereof. Also disclosed are methods of making and using the same.

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012376 A
(19) INDIA
(22) Date of filing of Application :23/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : MAIN BEAM FOR USE IN WIND-DRIVEN GENERATOR BLADE AND MANUFACTURING METHOD THEREFOR

(51) International classification :F03D 1/06
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/105013
Filing Date :28/07/2020
(87) International Publication No :WO 2022/021039
(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)LIANG, Yuan
2)MA, Hao
3)LARS, Overgaard
4)SUN, Jianxu

(57) Abstract :
A main beam (100) for use in a wind-driven generator blade (1) and a manufacturing method therefor. The main beam comprises: one or more carbon fiber pultrusion plates (101) that are arranged along the length direction of the blade (1); one or more glass fiber pultrusion plates (102) that are arranged along the length direction of the blade (1), wherein each carbon fiber pultrusion plate (101) and each glass fiber pultrusion plate (102) are arranged in a mixing mode, so that the carbon fiber pultrusion plate (101) and the glass fiber pultrusion plate (102) that are mixed have a forward hybrid effect and/or a bending-torsion coupling effect; and a first pouring material that wets the carbon fiber pultrusion plate (101) and the glass fiber pultrusion plate (102).

No. of Pages : 23 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012377 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR TRANSMITTING OR RECEIVING DATA USING COOPERATIVE COMMUNICATION IN WIRELESS COMMUNICATION SYSTEM

(51) International classification	:H04W 72/12, H04W 72/04, H04B 7/024, H04B 7/06
(31) Priority Document No	:10-2020-0108783
(32) Priority Date	:27/08/2020
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/011470
Filing Date	:26/08/2021
(87) International Publication No	:WO 2022/045807
(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)YOON, Suha
3)NOH, Hoondong
4)PARK, Jinhyun

(57) Abstract :
The present disclosure relates to a 5th generation (5G) or pre-5G communication system for supporting a higher data transmission rate than that of a beyond-4th generation (4G) communication system such as long-term evolution (LTE). The present disclosure relates to inter-cell cooperative transmission through a multi-transmission reception point (TRP) in a wireless or communication system. An operation method of a terminal comprises the steps of: receiving configuration information related to a multi-TRP; checking whether inter-cell multi-TRP transmission is configured on the basis of the configuration information; when the inter-cell multi-TRP transmission is configured, checking a control resource set (CORESET) for the multi-TRP on the basis of the configuration information; receiving downlink control information (DCI) for the multi-TRP through the CORESET; and receiving data from the multi-TRP on the basis of the DCI.

No. of Pages : 39 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012378 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD AND AN APPARATUS FOR UE COORDINATION

(51) International classification	:H04W 72/02, H04W 72/04, H04W 72/10, H04W 92/18
(31) Priority Document No	:202010779500.5
(32) Priority Date	:05/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/KR2021/010277
Filing Date	:04/08/2021
(87) International Publication No	:WO 2022/031042
(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)SUN, Feifei
3)WU, Min

(57) Abstract :
The present disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). The invention provides a method performed by a first user equipment (UE) in a wireless communication, the method comprising: identifying trigger for generating first information related to sidelink communication; in response to the trigger, generating the first information; determining resource locations for transmitting the first information; and transmitting first signaling to a second UE based on the resource locations, wherein the first signaling includes the first information.

No. of Pages : 50 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012382 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEATING CONTROL METHOD AND APPARATUS, IMAGE FORMING DEVICE, AND STORAGE MEDIUM

(51) International classification :G03G 15/20
(31) Priority Document No :202010778662.7
(32) Priority Date :05/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/110222
Filing Date :03/08/2021
(87) International Publication No :WO 2022/028394
(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 heating control method and apparatus for an image forming device, and the image forming device. The method comprises: when an image forming device is turned on, wakes up from sleep, or receives a task to be processed, preheating a heater and heating to a first target temperature (step 101); determining temperature change characteristics of the heater in a heating process in a current power supply environment or voltage parameters of a current power supply (step 102); and determining, according to the temperature change characteristics or the voltage parameters of the current power supply, a heating start time for a second heating of the preheated heater, and triggering the second heating at the heating start time to enable the temperature of the heater to reach a second target temperature within a set time before an image to be fixed moves to a fixing assembly (step 103). The adjustment of the heating start time of the heater in each fixing operation in real time according to the actual voltage change prevents the problems of weak fixation or image ghosting in the prior art.

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012649 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : POLYCYLOOLEFINIC POLYMERS AND ANION EXCHANGE MEMBRANES DERIVED THEREFROM

(51) International classification	:C08G 61/08, H01M 8/1023, H01M 8/1067
(31) Priority Document No	:63/058738
(32) Priority Date	:30/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043839
Filing Date	:30/07/2021
(87) International Publication No	:WO 2022/026794
(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)BARCHOK, Matthew, L.
4)SKILSKYJ, Doug
5)RHODES, Larry, F.

(57) Abstract :
Embodiments in accordance with the present invention encompass a variety of polymers derived from polycyclic olefin monomers, such as hydrocarbon functionalized norbornenes. The polymers so formed function as ionomers and are suitable as anion exchange membrane for fabricating a variety of electrochemical devices, among others. More specifically, the ionomeric polymers used herein are derived from a variety of quaternized amino functionalized norbornene monomers and are lightly crosslinked (less than ten mol%). The membranes made therefrom exhibit very high ionic conductivity of up to 198 mS/cm at 80 °C. This invention also relates to using an anion conducting solid polymer electrolyte as the ion conducting medium between the two electrodes and the ion conducting medium within the electrodes acting as the ionic conduit between electroactive material and electrolyte. The electrochemical devices made in accordance of this invention are useful as fuel cells, gas separators, and the like.

No. of Pages : 37 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012650 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND DEVICE FOR CLASSIFICATION OF UNCORRELATED STEREO CONTENT, CROSS-TALK DETECTION, AND STEREO MODE SELECTION IN A SOUND CODEC

(51) International classification :G10L 19/008, H04S 7/00
(31) Priority Document No :63/075984
(32) Priority Date :09/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2021/051238
Filing Date :08/09/2021
(87) International Publication No :WO 2022/051846
(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)VAILLANCOURT, Tommy

(57) Abstract :
The present disclosure describes the classification of uncorrelated stereo content (hereinafter UNCLR classification) and the cross-talk detection (hereinafter XT ALK detection) in an input stereo sound signal. The present disclosure also describes the stereo mode selection, for example an automatic LRTD/DFT stereo mode selection. Additionally, the disclosure uses said classification so as to select one of a first stereo mode and a second stereo mode for coding a stereo sound signal including a left channel and a right channel; detect cross-talk in a stereo sound signal including a left channel and a right channel in response to features extracted from the stereo sound signal including the left and right channels; or classify of uncorrelated stereo content in a stereo sound signal including a left channel and a right channel in response to features extracted from the stereo sound signal including the left and right channels.

No. of Pages : 87 No. of Claims : 146

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012653 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DOWNLINK CONTROL INFORMATION INDICATING TRANSMISSION CONTROL INDICATOR STATES

(51) International classification :H04L 5/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/117678
Filing Date :25/09/2020
(87) International Publication No :WO 2022/061699
(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)LIU, Bingchao
3)ZHANG, Yi

(57) Abstract :
Apparatuses, methods, and systems are disclosed for downlink control information indicating transmission control indicator states. One method (500) includes transmitting (502), to a UE, a DCI format indicating a PDSCH to the UE, wherein: the PDSCH comprises two TCI states corresponding to a plurality of DMRS antenna ports; a first TCI state of the two TCI states is associated with a first set of DMRS antenna ports of the plurality of DMRS antenna ports; a second TCI state of the two TCI states is associated with a second set of DMRS antenna ports of the plurality of DMRS antenna ports; and a first number of DMRS antenna ports of the first set of DMRS antenna ports is equal to a second number of DMRS antenna ports of the second set of DMRS antenna ports.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012655 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CARTRIDGE SYSTEM, BEVERAGE PREPARATION MACHINE, AND PROCESS FOR MANUFACTURING A CARTRIDGE SYSTEM

(51) International classification	:B67D 1/00, A47J 31/40, B67D 1/04, B67D 7/02, B65D 85/804
(31) Priority Document No	:10 2020 213 332.8
(32) Priority Date	:22/10/2020
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2021/079271
Filing Date	:21/10/2021
(87) International Publication No	:WO 2022/084476
(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)EMPL, Günter

(57) Abstract :
Proposed is a cartridge system for making a beverage, the cartridge system being insertable into a beverage preparation machine and comprising: a cartridge that includes a reservoir filled with a beverage substance; and a cartridge receptacle; the cartridge receptacle includes a mixing chamber fluidically connectable to the reservoir, and a fluid feed line extending into the mixing chamber; characterized in that the cartridge system comprises an intermediate cap, the cartridge includes a first connection means, the intermediate cap includes a first mating connection means that is complementary to the first connection means, and the first mating connection means is connected to the first connection means.

No. of Pages : 41 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012389 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PYRIMIDINONE COMPOUNDS AND USES THEREOF

(51) International classification	:C07D 239/02, C07D 403/12, A61K 31/505, A61P 35/00, A61P 37/00
(31) Priority Document No	:202010840261.X
(32) Priority Date	:18/08/2020
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2021/113038
Filing Date	:17/08/2021
(87) International Publication No	:WO 2022/037585
(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)DENG, Wei
4)YANG, Haibin

(57) Abstract :
It relates to pyrimidinone compounds and uses thereof. In particular, it relates to pyrimidinone compounds of formula (I), and the pharmaceutical compositions, the preparing methods and the uses thereof, wherein the variables are as defined in the description.

No. of Pages : 118 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012408 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONFIGURING RANDOM ACCESS PROCEDURES

(51) International classification	:H04W 74/00, H04W 74/08, H04L 1/08
(31) Priority Document No	:63/083486
(32) Priority Date	:25/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/058799
Filing Date	:27/09/2021
(87) International Publication No	:WO 2022/064462
(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)GANESAN, Karthikeyan
4)CHEEMA, Sher Ali
5)NANGIA, Vijay

(57) Abstract :
Apparatuses, methods, and systems are disclosed for configuring random access procedures. One method (1000) includes receiving (1002), at a user equipment, a first configuration from a network. The first configuration corresponds to performing a physical random access channel transmission on multiple random access channel occasions. The method (1000) includes receiving (1004) a second configuration from the network. The second configuration corresponds to performing Msg3 repetition, MsgA repetition, or a combination thereof. The method (1000) includes performing (1006) a random access procedure based on the first configuration and the second configuration.

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012415 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIMESTONE CALCINED CLAY CEMENT (LC3) CONSTRUCTION COMPOSITION

(51) International classification :C04B 28/14, C04B 28/16
(31) Priority Document No :20192857.9
(32) Priority Date :26/08/2020
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2021/073436
Filing Date :25/08/2021
(87) International Publication No :WO 2022/043349
(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)SACHSENHAUSER, Bernhard
4)DHERS, Sebastian

(57) Abstract :
A limestone calcined clay cement construction composition comprises a) a cementitious binder comprising one or more calcium silicate mineral phases and one or more calcium aluminate mineral phases, and having a Blaine surface area of at least 3800 cm2/g, in an amount of 180 to 400 kg per m³ of the freshly mixed construction composition; b) a supplementary cementitious material having a Dv90 of less than 200 µm, in a total amount of 50 to 100 parts by weight, relative to 100 parts by weight of cementitious binder a), the supplementary cementitious material comprising (b-1) a calcined clay material and (b-2) a carbonate rock powder in a weight ratio of (b-1) to (b-2) in the range of 0.5 to 2; c) optionally, an extraneous aluminate source; d) a sulfate source; and e) a polyol in an amount of 0.3 to 2.5 wt.-%, relative to the amount of cementitious binder a). The composition contains available aluminate, calculated as Al(OH)4-, from the calcium aluminate mineral phases plus the optional extraneous aluminate source, per 100 g of cementitious binder a), in a total amount of at least 0.08 mol, if the amount of cementitious binder a) is in the range of 180 to less than 220 kg per m³ of the freshly mixed composition, at least 0.06 mol, if the amount of cementitious binder a) is in the range of 220 to less than 280 kg per m³ of the freshly mixed composition, and at least 0.05 mol, if the amount of cementitious binder a) is 280 kg or more per m³ of the freshly mixed composition; and the molar ratio of total available aluminate to sulfate is 0.4 to 2.0. The construction composition further comprises f) an ettringite formation controller comprising (i) glyoxylic acid, a glyoxylic acid salt and/or a glyoxylic acid derivative; and (ii) at least one of (ii-a) a borate source and (ii-b) a carbonate source, wherein the carbonate source is selected from inorganic carbonates having an aqueous solubility of 0.1 g·L-1 or more, organic carbonates, and mixtures thereof; and g) a co-retarder selected from (g-1) a-hydroxy monocarboxylic acids and salts thereof, (g-2) phosphonic acids and salts thereof, (g-3) polycarboxylic acids and salts thereof, and mixtures thereof. The limestone calcined clay cement construction composition is a reduced carbon footprint composition and exhibits high early strength, high final strength, sufficient open time and high durability. Ingredients of the construction composition are abundantly available.

No. of Pages : 38 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012416 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR USER EQUIPMENT (UE) SELECTION FROM AMONG ASYMMETRIC UPLINK (UL) ANTENNA PANELS

(51) International classification :H04B 7/06
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/107084
Filing Date :05/08/2020
(87) International Publication No :WO 2022/027306
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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7)NIU, Huaning
8)OTERI, Oghenekome
9)FAKOORIAN, Seyed Ali Akbar
10)YE, Sigen
11)ZENG, Wei
12)YANG, Weidong

(57) Abstract :
An example method for wireless communication includes: transmitting to a base station, via a user device: (1) a capability report for each of a plurality of antenna panels; and (2) an initial antenna panel index; receiving, from the base station, configuration information corresponding to each antenna panel of the plurality of antenna panels; selecting a first antenna panel for a first uplink (UL) transmission to the base station, wherein the first antenna panel corresponds to the antenna panel with the initial antenna panel index; selecting first configuration information corresponding to the selected first antenna panel; and transmitting the first UL transmission to the base station, using the selected first antenna panel and the selected first configuration information. In other aspects, rather than initially receiving configuration information corresponding to each antenna panel, the user device may receive the configuration information for each panel as it is selected for an UL transmission.

No. of Pages : 51 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012417 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SCALABLE CACHE COHERENCY PROTOCOL

(51) International classification :G06F 12/0817
(31) Priority Document No :63/077371
(32) Priority Date :11/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/049777
Filing Date :10/09/2021
(87) International Publication No :WO 2022/056206
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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6)LEVY-RUBIN, Lital
7)HAMMARLUND, Per H.
8)KAUSHIKKAR, Harshavardhan

(57) Abstract :
A scalable cache coherency protocol for system including a plurality of coherent agents coupled to one or more memory controllers is described. The memory controller may implement a precise directory for cache blocks from the memory to which the memory controller is coupled. Multiple requests to a cache block may be outstanding, and snoops and completions for requests may include an expected cache state at the receiving agent, as indicated by a directory in the memory controller when the request was processed, to allow the receiving agent to detect race conditions. In an embodiment, the cache states may include a primary shared and a secondary shared state. The primary shared state may apply to a coherent agent that bears responsibility for transmitting a copy of the cache block to a requesting agent. In an embodiment, at least two types of snoops may be supported: snoop forward and snoop back.

No. of Pages : 46 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012418 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FORGED PART OF STEEL AND A METHOD OF MANUFACTURING THEREOF

(51) International classification	:C22C 38/02, C22C 38/04, C22C 38/40, C22C 38/58, C22C 38/60
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/IB2020/058301
Filing Date	:07/09/2020
(87) International Publication No	:WO 2022/049412
(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)FORGEOUX, Didier
3)RESIAK, Bernard
4)BORDEREAU, Victor

(57) Abstract :
A steel for forging mechanical parts comprising of the following elements 0.04% ? C ? 0.28 %; 1.2 % ? Mn ? 2.2 %; 0.3% ? Si ? 1.2 %; 0.5% ? Cr ? 1.5 %; 0.01% ? Ni ? 1%;0% ? S ? 0.06%; 0% ? P ? 0.02%; 0% ? N ? 0.015%; 0 % ? Al ? 0.1%; 0.03% ? Mo ? 0.5%; 0% ? Cu ? 0.5%; 0.04% ? Nb ? 0.15%; 0.01% ? Ti ? 0.1%; 0% ? V? 0.5%; 0.0015% ? B ? 0.004%; the remainder composition being composed of iron and unavoidable impurities caused by processing, the microstructure of said steel having microstructure comprising in area fraction, 55% to 85% of Martensite, 20% to 45% of Auto-tempered Martensite, 0 to 10% Residual Austenite and, wherein cumulated amounts of Auto-tempered martensite and martensite is at least 90%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023

(21) Application No.202317012419 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A DETECTION METHOD

(51) International classification	:C12Q 1/70, C12Q 1/6888
(31) Priority Document No	:2020902627
(32) Priority Date	:27/07/2020
(33) Name of priority country	:Australia
(86) International Application No	:PCT/AU2021/050813
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/020885
(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)HUYGENS, Flavia

(57) Abstract :
The present invention relates to a method for detecting severe acute respiratory syndrome coronavirus 2 (SARS-CoV-2) in a sample, said method including the step of analysing at least a portion of a viral RNA-dependent RNA polymerase (RdRP) gene or gene product from the sample for the presence or absence of at least one single nucleotide polymorphism (SNP), wherein SARS-CoV-2 is detected in the sample based on the presence or absence of the at least one SNP.

No. of Pages : 49 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012420 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS FOR PROVIDING NETWORK INDICATIONS FOR SELECTING ASYMMETRIC UPLINK (UL) ANTENNA PANELS AT USER EQUIPMENT (UE)

(51) International classification	:H04B 1/40, H04B 7/0404
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2020/107033
Filing Date	:05/08/2020
(87) International Publication No	:WO 2022/027295
(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)YAO, Chunhai
3)YE, Chunxuan
4)ZHANG, Dawei
5)SUN, Haitong
6)HE, Hong
7)NIU, Huaning
8)OTERI, Oghenekome
9)FAKOORIAN, Seyed Ali Akbar
10)YE, Sigen
11)ZENG, Wei
12)YANG, Weidong

(57) Abstract :
A method for wireless communication includes: receiving, at a base station: (1) a capability report for each of a plurality of antenna panels of a first user device; and (2) an initial antenna panel index for the first user device; transmitting, to the first user device, configuration information corresponding to each antenna panel of the plurality; selecting first configuration information corresponding to the antenna panel with the initial antenna panel index; and receiving a first uplink transmission from the first user device, wherein the first user device uses a selected first antenna panel corresponding to the initial antenna panel index and the first configuration information corresponding to the selected first antenna panel. In other aspects, rather than initially transmitting configuration information corresponding to each antenna panel, the base station may transmit the configuration information for each panel as it is selected by the first user device for an uplink transmission.

No. of Pages : 51 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012421 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FILTRATION SYSTEM

(51) International classification	:C23C 2/00, C23C 2/16, C23C 2/18, C23C 2/20, C23C 2/26
(31) Priority Document No	:PCT/IB2020/058336
(32) Priority Date	:08/09/2020
(33) Name of priority country	:International Bureau of the World Intellectual
(86) International Application No	:PCT/IB2021/058104
Filing Date	:06/09/2021
(87) International Publication No	:WO 2022/053927
(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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4)HILGER, Jan-Erik
5)DIEZ, Luc

(57) Abstract :
This patent relates to a cooling method of a travelling coated steel strip, exiting a hot-dip coating bath, comprising the steps of: A) sucking a gas into a cooling device, B) filtering said sucked gas by means of a filtering system capturing at least 50% of the particles having a size of at least 2.5 µm, C) blowing, at a velocity comprised from 1 to 80 m.s-1, said sucked and filtered gas onto said coated steel strip.

No. of Pages : 9 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012656 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VIDEO LARYNGOSCOPE AND METHOD FOR USING SAME

(51) International classification	:A61B 1/267, A61B 1/00
(31) Priority Document No	:63/071209
(32) Priority Date	:27/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/048013
Filing Date	:27/08/2021
(87) International Publication No	:WO 2022/047197
(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)VASAN, Nilesh, R.
2)HAGEN, Henry, Paul

(57) Abstract :
A laryngoscope is described. The laryngoscope has a handle, a tube, and a camera. The handle has proximal and distal ends. The tube has a proximal end, a distal end, a length extending between the proximal end and the distal end, and a first longitudinal axis along the length. The proximal end is connected to the proximal end of the handle. The tube has an inner surface defining a lumen internal space along the length. The lumen internal space creating a line of sight along a longitudinal axis through the tube. The camera is positioned on the inner surface of the tube to have a field of view out of the distal end of the tube. The camera has a second longitudinal axis offset from the first longitudinal axis of the tube, such that the line of sight along the first longitudinal axis through the tube is maintained.

No. of Pages : 26 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012669 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR BIOPROCESS MONITORING

(51) International classification	:C12M 1/36, G05B 15/00, G06N 3/00, G16B 40/00, G16C 20/10
(31) Priority Document No	:202011043053
(32) Priority Date	:03/10/2020
(33) Name of priority country	:India
(86) International Application No	:PCT/EP2021/076015
Filing Date	:22/09/2021
(87) International Publication No	:WO 2022/069307
(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)VISWANATHAN, Aravind, Kumar
2)SESHADRI, Jaisimha
3)SANDUSKY, Christopher
4)S, Suthish, Kumar
5)CA, Shanmuganathan
6)ARUMUGAM, Sasikumar

(57) Abstract :
Methods and apparatus for bioprocess monitoring are disclosed. An example apparatus includes a controller to monitor a first bioprocess instrument, a data logger to collect data for the first bioprocess instrument, the collected data including data collected while the first bioprocess instrument is transferred from a first location to a second location, a configurator to configure the first bioprocess instrument to operate in a first mode at the first location and in a second mode at the second location, the first or second mode determined based on a type of processing at the first or second location, and a user interface to display the collected data to a user, the collected data including real-time bioprocess monitoring data, the controller to adjust a setting of the first bioprocess instrument based on the monitoring data, the monitoring data used to maintain controlled environmental conditions within a vessel of the instrument.

No. of Pages : 41 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012678 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS AND CATALYSTS FOR HYDROGEN MEDIATED ANIONIC POLYMERIZATION OF CONJUGATED DIENES AND LIQUID POLYMERS THEREOF

(51) International classification	:C08F 2/38, C08F 4/48, C08F 136/06, C08F 136/08, C08F 236/08
(31) Priority Document No	:63/073388
(32) Priority Date	:01/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/048684
Filing Date	:01/09/2021
(87) International Publication No	:WO 2022/051376
(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)LAYMAN, JR., William J.

(57) Abstract :
The disclosure relates to hydrogen mediated anionically polymerized conjugated diene compositions, including homopolymers and copolymers of isoprene and/or butadiene, and processes and compositions for preparing them.

No. of Pages : 96 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012679 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR CHARGING AND DISCHARGING SECONDARY BATTERY

(51) International classification	:H01M 10/44, H01M 4/1391, H01M 4/04, H01M 4/48, H01M 4/38
(31) Priority Document No	:10-2021-0006098
(32) Priority Date	:15/01/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2021/019765
Filing Date	:23/12/2021
(87) International Publication No	:WO 2022/154309
(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)JUN, Chan Soo
2)CHAE, Jong Hyun
3)KIM, Young Jae

(57) Abstract :
The present invention relates to a method for charging and discharging a secondary battery, the method comprising: a step for pre-lithiating a negative electrode including a silicon-based active material; a step for manufacturing a secondary battery including the pre-lithiated negative electrode, a positive electrode, a separator, and an electrolyte; and a step for performing one or more cycles of electrochemically charging and electrochemically discharging the secondary battery, wherein the electrochemical charging and discharging of the secondary battery is performed such that the difference between the charging SOC and discharging SOC of the pre-lithiated negative electrode is 18% to 32%.

No. of Pages : 49 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012680 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NON-ISOLATED SOFT SWITCH CIRCUIT

(51) International classification :H02M 3/156, H02M 3/158
(31) Priority Document No :202010763499.7
(32) Priority Date :31/07/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/104403
Filing Date :05/07/2021
(87) International Publication No :WO 2022/022228
(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)WANG, Linguo
3)GAO, Wei
4)ZHANG, Bin

(57) Abstract :
Embodiments of the present invention provide a non-isolated soft switch circuit, comprising: an input power supply, a power conversion circuit, a transformer circuit, a controller, and a load. The power conversion circuit comprises a first inductive element, a first switch element, and a first rectifying element, wherein the first inductive element is connected to the first switch element and the first rectifying element respectively. A primary side circuit of the transformer circuit is connected in parallel to the first switch element, and a secondary side circuit of the transformer circuit is connected in parallel to the first rectifying element. The controller is connected to the first switch element and the transformer circuit respectively. The input power supply is connected to the first inductive element by means of the first switch element. The load is connected to the power conversion circuit and the transformer circuit. The embodiments of the present invention effectively reduce the switching losses of each element in a power conversion circuit.

No. of Pages : 15 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012689 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS AND SYSTEM FOR HYDROTREATING RENEWABLE FEEDSTOCK

(51) International classification :C10G 3/00
(31) Priority Document No :10202008815X
(32) Priority Date :09/09/2020
(33) Name of priority country :Singapore
(86) International Application No :PCT/TH2021/000051
Filing Date :08/09/2021
(87) International Publication No :WO 2022/055437
(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)SIRIMITRTRAKUL, Supakorn
2)SODSAI, Nuttapong

(57) Abstract :
The present invention provides a process for producing one or more of hydrocarbon products from a renewable feedstock comprising triglycerides, free fatty acids or combinations thereof. The process may comprise the steps of mixing the renewable feedstock with a diluent to form a diluted feedstock; supplying or providing hydrogen gas to the diluted feedstock so that the hydrogen gas may dissolve in the diluted feedstock to form a diluted feedstock enriched with dissolved hydrogen; and feeding the diluted feedstock enriched with dissolved hydrogen to at least a reactor having at least a reaction zone comprising at least a catalyst bed under predefined conditions, thereby producing a reaction effluent which can be further processed (e.g. by using one or more distillation units and one or more adsorption units) to form one or more of hydrocarbon products.

No. of Pages : 39 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317012691 A
(19) INDIA
(22) Date of filing of Application :24/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : CODE RATE DETERMINATION FOR MULTIPLEXING OF HARQ-ACK WITH DIFFERENT PRIORITIES ON PUCCH WITH SEPARATE CODING

(51) International classification	:H04W 72/04, H04W 72/12, H04W 28/04, H04W 28/06
(31) Priority Document No	:63/061765
(32) Priority Date	:05/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/JP2021/028887
Filing Date	:04/08/2021
(87) International Publication No	:WO 2022/030525
(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)YIN, Zhanping
2)YOKOMAKURA, Kazunari
3)YING, Kai

(57) Abstract :
A user equipment (UE) is described. The UE includes a processor configured to determine a maximum code rate for a low priority hybrid automatic repeat request-acknowledgement (HARQ-ACK) that is multiplexed with a high priority HARQ-ACK on a physical uplink control channel (PUCCH). The low priority HARQ-ACK has a separate code rate than the high priority HARQ-ACK. The processor is also configured to multiplex the low priority HARQ-ACK and the high priority HARQ-ACK based on the determined maximum code rate for the low priority HARQ-ACK. The UE also includes transmitting circuitry configured to transmit the multiplexed HARQ-ACK on the PUCCH.

No. of Pages : 59 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012693 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS OF PREPARING LIPID NANOPARTICLES

(51) International classification	:A61K 9/127, A61K 9/51, A61K 47/14, A61K 47/28
(31) Priority Document No	:63/062369
(32) Priority Date	:06/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/044928
Filing Date	:06/08/2021
(87) International Publication No	:WO 2022/032087
(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)AUER, Jason
4)SKINNER, Brie

(57) Abstract :
The present disclosure provides methods of producing lipid nanoparticle (LNP) formulations and the produced LNP formulations thereof. The present disclosure also provides therapeutic and diagnostic uses related to the produced LNP formulations.

No. of Pages : 329 No. of Claims : 124

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012694 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR IMPROVING THE RAINFASTNESS OF BENEFICIAL MICROORGANISMS

(51) International classification	:A01N 25/10, A01N 43/16, A01N 63/00, C12N 1/00, A01N 65/20
(31) Priority Document No	:20190391.1
(32) Priority Date	:11/08/2020
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2021/071149
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/033874
(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)ADAMY, Monique
2)LAMBERT, Florence

(57) Abstract :
The present invention relates to a composition comprising at least one beneficial microorganism and at least one guar gum. It relates more especially to the use of at least one guar gum as a rainfastness agent in a composition comprising at least one beneficial microorganism.

No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012695 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AUTOMATIC SYSTEM FOR THE CONSERVATION OF OXYGEN AND OTHER SUBSTANCES

(51) International classification	:A61M 16/06, A61M 16/00, A61M 16/20, A62B 7/04
(31) Priority Document No	:63/056944
(32) Priority Date	:27/07/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/043333
Filing Date	:27/07/2021
(87) International Publication No	:WO 2022/026479
(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)BAZOBERRY, Carlos, Fernando
2)YOUNG, Brent, H.

(57) Abstract :
A system (10) and method for conserving oxygen and other gases supplied to a recipient. A supply conduit (408) supplies gas from a source (406) to a reservoir (404), which retains a volume of gas at ambient pressure. A conduit (422) supplies gas from the reservoir (404) to the recipient. An inflation detection system, such as an electro-mechanical system or a contactless system (456), detects when the reservoir (404) is below a state of inflation and when the reservoir (404) is inflated to the state of inflation. A valve system prevents gas from flowing from the source (406) and into the reservoir (404) when the reservoir (404) is at the predetermined state of inflation, and the valve system permits gas to flow from the source (406) into the reservoir (404) when the reservoir (404) is below the predetermined state of inflation whereby gas within the reservoir (404) can be continually replenished without pressurization above ambient pressure.

No. of Pages : 27 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012705 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A CATALYST ARTICLE AND THE USE THEREOF FOR FILTERING FINE PARTICLES

(51) International classification	:B01D 53/94, B01J 23/63, B01J 37/02, F01N 3/035
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/US2020/053318
Filing Date	:29/09/2020
(87) International Publication No	:WO 2022/071926
(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)CLOWES, Lucy
3)GOODWIN, John
4)RAVENSCROFT, Alex
5)ROBSON, Chris
6)WARREN, Sarah

(57) Abstract :
A catalyst article and its use in an exhaust system for internal combustion engines is disclosed. The catalyst article comprises a substrate which is a wall-flow filter, a first catalyst composition, and a second catalyst composition. The first and second catalyst compositions each independently comprise an oxygen storage component (OSC) derived from a CeZr mixed oxide sol having a D90 of less than 1.3 micron and a particulate inorganic oxide having a D90 of from 1 to 20 microns.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012706 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STEERING WHEEL DEVICE FOR VEHICLE

(51) International classification	:B62D 1/04, F16F 15/02, F16F 15/08, B60R 21/203
(31) Priority Document No	:2020-144815
(32) Priority Date	:28/08/2020
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2021/027859
Filing Date	:28/07/2021
(87) International Publication No	:WO 2022/044668
(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)TANAKA Kaname
2)HONMA Keisuke
3)ABE Kazuhiro

(57) Abstract :
[Problem] To provide a steering wheel device for vehicles, which has a simple structure and which can effectively control low-frequency vibrations prompted on a steering wheel. [Solution] This steering wheel device for vehicles is configured to have an air bag module 3 attached thereto by using engaging elements engaged with a steering wheel. The engaging elements each have an engaging portion that is provided to the air bag module side and that is to be disengageably engaged with an engagement-counterpart portion formed on the steering wheel side. The engaging elements include at least a first engaging element 11 that is positioned at the lower side relative to the steering center C, when the neutral position of the steering wheel is regarded as the reference, and second engaging elements 31 positioned at the upper side relative to the steering center. The first engaging element is a vibration damping part that has an elastic member, and the second engaging elements each include a second bushing which is formed from a material with higher Young's modulus than that of the elastic member.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012708 A
(43) Publication Date : 19/04/2024

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

(51) International classification	:G06F 16/2458, G06F 9/06, G06F 9/4401, G06F 16/2455, G06N 20/00
(31) Priority Document No	:2050998-0
(32) Priority Date	:28/08/2020
(33) Name of priority country	:Sweden
(86) International Application No	:PCT/SE2021/050807
Filing Date	:18/08/2021
(87) International Publication No	:WO 2022/045943
(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)RISCH, Tore

(57) Abstract :
System (100) comprising several edge computing devices (ECD), each one comprising a sensor (S), a memory (M), a Central Processing Unit, CPU and a digital communication interface (IF) allowing digital communication digitally across a network (NW). The invention is characterised in that each device (ECD) is arranged with a respective interpreting software function, arranged to interpret computer code, received via said interface (IF) and stored in said memory (M), according to a query language having a predetermined syntax; in that said syntax is arranged to define queries the results of which are streams of data; in that each device is arranged to produce a result to at least one query and to communicate said result via said interface (IF), in that said syntax allows said query to be defined in terms of a calculation to be performed based on a measured value from said sensor (S), and in that the device in question is arranged to perform, as a part of said interpretation, said calculation. The invention also relates to a method.

No. of Pages : 66 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012722 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EXENDIN-4 PEPTIDE ANALOGUES

(51) International classification	:C07K 14/575, C07K 14/605, A61K 38/00, A61K 38/26, A61P 3/00
(31) Priority Document No	:PA 2020 70526
(32) Priority Date	:12/08/2020
(33) Name of priority country	:Denmark
(86) International Application No	:PCT/EP2021/072251
Filing Date	:10/08/2021
(87) International Publication No	:WO 2022/034062
(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)JONASSEN, Thomas, Engelbrecht, Nordkild
2)BOESEN, Thomas

(57) Abstract :
The present invention relates to exendin-4 peptide analogues comprising an exendin-4 peptide and functional variants thereof, and one or more branched amino acid probes.

No. of Pages : 63 No. of Claims : 58

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202317012723 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RESOURCE PROCESSING METHOD AND APPARATUS, AND MEDIUM

(51) International classification :H04W 4/70, H04W 72/04
(31) Priority Document No :202010890881.4
(32) Priority Date :29/08/2020
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/108986
Filing Date :28/07/2021
(87) International Publication No :WO 2022/042190
(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)HE, Hongli
2)LI, Xueru
3)PENG, Lan

(57) Abstract :
Provided are a resource processing method and apparatus, and a medium, which are used for reducing a data delay, improving the utilization rate of channel resources, and reducing the waste of channel resources. The method comprises: a first device sending a beacon message on beacon indication resources corresponding to first resources, wherein the beacon message is used for indicating that the first resources are used by a device of a first UE group, and other UE groups cannot use all or some of the first resources; or the first device not sending the beacon message on the beacon indication resources corresponding to the first resources, such that devices of the other UE groups determine that the first resources are not used by the device of the first UE group, and all or some of the first resources can be temporarily used by the devices of the other UE groups, wherein the first device belongs to the first UE group, the first resources belong to a first resource pool, the first resource pool comprises a plurality of periodic resources which are allocated to the first UE group and which are used for sidelink (SL) communication, and each resource corresponds to a beacon indication resource.

No. of Pages : 76 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202318009403 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLYWHEEL SYSTEMS AND RELATED METHODS

(51) International classification	:F16C 21/00, F03G 3/08, F16C 35/02, H02K 7/02
(31) Priority Document No	:16/291,895
(32) Priority Date	:04/03/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CA2020/050358
Filing Date	:18/03/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117003100
Filed on	:22/01/2021

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(72)**Name of Inventor :**
1)GAGNE, Christian
2)ARCAND, Sebastien
3)DOYON, Nicolas

(57) Abstract :
A flywheel system (100) comprises a flywheel rotor (104) comprising a rotor disc (106) and a rotor shaft (108) and has a longitudinal axis (112) extending centrally through the rotor disc (106) and the rotor shaft (108). The system (100) further comprises a journal assembly (200) configured to facilitate rotation of the flywheel rotor (104). The journal assembly (200) comprises a sleeve (204) having an aperture (224) extending therethrough from a first end (226) to a second, opposite end (228), a rod (202) at least partially disposed within the aperture (224) of the sleeve (204), and a nut (206) coupled to a portion of the rod (202). A method of forming the flywheel (100) comprises coupling the rod (202) to the rotor shaft (108) and pulling the second end (218) of the rod (202) to tension the rod (202). The nut (206) maintains the tension in the rod (202) when coupled thereto

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/02/2023
(21) Application No.202318009513 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : THUMB-DOMINANT ULTRASOUND IMAGING SYSTEM

(51) International classification	:A61B 8/00, H04M 1/725, A61B 8/08
(31) Priority Document No	:62/638,471
(32) Priority Date	:05/03/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/020338
Filing Date	:01/03/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202017038936
Filed on	:09/09/2020

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(72)**Name of Inventor :**
1)AKKARAJU, Sandeep

(57) Abstract :
Disclosed herein are portable ultrasound imaging systems for thumb-dominant operations comprising: a portable ultrasound probe, wherein the portable ultrasound probe is configured to be operable using a first hand of the user; a mobile device comprising a mobile application installed thereon, the mobile application comprising a user interface, the mobile application configured to be operable using a second hand of the user and; and direct electronic 10 communication between the portable ultrasound probe and the mobile device, the direct electronic communication configured to allow a user to control an operation of the portable ultrasound probe for imaging via user interaction with the user interface.

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202318009796 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RADIO STATION SYSTEM, RADIO TERMINAL, AND METHOD FOR THESE

(51) International classification	:H04W 4/00, H04L 29/04, H04W 48/12, H04W 72/04
(31) Priority Document No	:2016-002878
(32) Priority Date	:08/01/2016
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2016/087329
Filing Date	:15/12/2016
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:201817019913
Filed on	:15/12/2016

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)FUTAKI Hisashi
2)HAYASHI Sadafuku

(57) Abstract :
A radio station (2) transmits configuration information (501) to 5a radio terminal (1). The configuration information (501) indicates, on a cell-by-cell basis, at least one specific cell on which the radio terminal (1) is allowed to perform at least one of data transmission and data reception on a radio bearer used for uplink transmission or downlink transmission or both via a common Packet Data Convergence 10 Protocol (PDCP) layer (402). As a result, in a radio architecture that provides tight interworking of two different Radio Access Technologies (RATs), it is for example possible to allow a NB to indicate, to a radio terminal (UE), a specific cell on which the UE should perform uplink transmission.

No. of Pages : 68 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202318009798 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS AND METHOD FOR CODING IMAGE

(51) International classification	:H04N 19/117, H04N 19/82, H04N 19/137, H04N 19/132, H04N 19/186
(31) Priority Document No	:62/893,757
(32) Priority Date	:29/08/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2020/011600
Filing Date	:31/08/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202217015859
Filed on	:31/08/2020

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CHOI, Jangwon
2)NAM, Junghak

(57) Abstract :
ABSTRACT OF THE DISCLOSURE APPARATUS AND METHOD FOR CODING IMAGE According to one embodiment of the present document, an in-loop filtering procedure in an image/video coding procedure may comprise a cross-component adaptive loop filtering procedure. CCALF, according to the present embodiment, can increase the accuracy of in-loop filtering.

No. of Pages : 126 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/02/2023
(21) Application No.202318009808 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISC BRAKE AND COVER COMPONENT

(51) International classification	:F16B 2/24, F16D 55/226, F16D 65/00, F16D 65/02
(31) Priority Document No	:2019-228246
(32) Priority Date	:18/12/2019
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/046108
Filing Date	:10/12/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202217033492
Filed on	:10/06/2022

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)LIM, Khai Piau
2)SUZUKI, Shinji

(57) Abstract :
ABSTRACT This disc brake includes a mounting member, a pair of brake pads, a caliper, a cover member, and a locking member. The caliper includes a cylinder part having a cylinder hole in which a piston for moving one of the pair of brake pads is disposed, a 5 bridge part extending across an outer circumferential surface of a disc from the cylinder part, a plurality of claw parts formed on an extended distal end side of the bridge part and disposed to face the cylinder part, and a recessed part provided between the plurality of claw parts, having an opening at a disc radial direction inner end, and formed to face the cylinder hole. The locking member includes a fixing part fixed to the cover member, and 10 a plurality of locking pieces extending from the fixing part in a direction inclined with respect to a movement direction of the piston to come into contact with an inner surface of the recessed part with an elastic force.

No. of Pages : 67 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012422 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : OXYGEN STORAGE CAPACITY ENHANCED COMPOSITIONS

(51) International classification	:B01J 20/04, B01J 20/06, B01J 20/28, B01J 20/30, B01J 23/00
(31) Priority Document No	:63/064610
(32) Priority Date	:12/08/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2021/000511
Filing Date	:22/07/2021
(87) International Publication No	:WO 2022/034373
(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)NG, Szu Hwee
2)DENG, Suzi
3)KOH, Perlyn
4)TAN, Steffi

(57) Abstract :
Disclosed herein are compositions having enhanced oxygen storage capacity (OSC). The OSC enhanced compositions contain cerium, zirconium, lanthanum, and neodymium, and a dopant element selected from the group consisting of Ti, Mn, Fe, Co, Cu, Zn, Ga, Ge, Ta, W, Mo, Nb, In, Sn, Ba, and mixtures thereof. In certain embodiments, these compositions contain two dopants. In certain embodiments of these compositions, the compositions comprising cerium, zirconium, lanthanum, and neodymium and one or more dopant elements have an OSC after aging at 1000°C for 10 hours which is improved by 1 to 50%, compared to an undoped composition comprising cerium, zirconium, lanthanum, and neodymium. Aging can be conducted in an air environment. Further disclosed are processes of producing these compositions having enhanced oxygen storage capacity (OSC). The compositions can be used as a catalyst.

No. of Pages : 15 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012429 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SATELLITE DATA PROVISIONING IN A NON-TERRESTRIAL NETWORK

(51) International classification	:H04B 7/185, H04L 5/00, H04W 36/00
(31) Priority Document No	:63/104082
(32) Priority Date	:22/10/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/SE2021/051041
Filing Date	:20/10/2021
(87) International Publication No	:WO 2022/086412
(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)ÅSTRÖM, Magnus
2)KHAN, Talha
3)LIN, Xingqin
4)MÄÄTTÄNEN, Helka-Liina

(57) Abstract :
A method by a wireless device includes receiving, from a network node, data associated with the airborne or spaceborne system. The data includes satellite ephemeris data and a validity duration for the ephemeris data.

No. of Pages : 71 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012431 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ORAL CARE COMPOSITIONS

(51) International classification	:A61K 082100, A61K 083400, A61K 088100, A61P 010200, A61Q 110000
(31) Priority Document No	:63/073702
(32) Priority Date	:02/09/2020
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2021/048172
Filing Date	:30/08/2021
(87) International Publication No	:WO 2022/051209
(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)PAN, Guisheng
2)FEI, Lin
3)CHOPRA, Suman

(57) Abstract :
Described herein are nonaqueous oral care compositions comprising an orally acceptable vehicle, a whitening agent; and one or more gelling agents wherein the one or more gelling agents comprises a salt of a fatty acid; along with methods of making and using same.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/02/2023
(21) Application No.202317012438 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ROTATABLY COUPLED TOUCH SCREEN DISPLAYS

(51) International classification :G06F 3/041, G06F 3/044, G06F 1/16
(31) Priority Document No :17/014661
(32) Priority Date :08/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/035077
Filing Date :01/06/2021
(87) International Publication No :WO 2022/055579
(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)ZMIRI, Zvika
3)GORBANEV, Anton
4)SLASSI, Matan
5)BIRENBERG, Dmitry

(57) Abstract :
Examples are disclosed relating to computing devices and methods for performing capacitive touch detection in rotatably coupled displays. In one example, a method comprises: in a first display, providing a first signal at a first frequency to a first drive electrode in a first frequency region abutting a first non-coupled side opposite to a first coupled side. Other signals at other frequencies are provided to other drive electrodes in other frequency regions. In a second display, a second signal at the first frequency is provided to a second drive electrode located in a different first frequency region abutting a second coupled side opposite to a second non-coupled side. The other frequency regions of the first display are positioned between the first frequency region and the different first frequency region, thereby spatially separating the first frequency region from the different first frequency region.

No. of Pages : 21 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/02/2023
(21) Application No.202318007534 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADJUSTABLE BLADE ASSEMBLY HAVING MAGNETIC TENSIONING

(51) International classification :B26B 19/06, B26B 19/20
(31) Priority Document No :62/719,281
(32) Priority Date :17/08/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/046656
Filing Date :15/08/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202117005047
Filed on :05/02/2021

(71)**Name of Applicant :**
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1)WERNER, Edwin Alen
2)TRINGALI, Richard J.
3)TITZKOWSKI, Ervin
4)NOVAK, Joseph
5)GROSS, Jeffrey D.

(57) Abstract :
A hair clipper or cutter is provided with an adjustment slider that adjusts the gap between an inner and outer blade. A yoke is attached to the inner blade. 5 The adjustment slider may be configured with preset gap lengths and may be adjustable before, after, or during a hair cutting operation. A T-guide couples the adjustment slider to the inner blade to slidably move the inner blade relative to the outer blade. The yoke, inner blade, outer blade and/or T-guide may be magnetized to create an attractive or repulsive force between the inner blade and 10 the outer blade. In some embodiments, the yoke is not metallic. The magnetized yoke may be a non-conductive magnet carrier (e.g., plastic) or conductive material (e.g., ferromagnetic).

No. of Pages : 66 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202318007764 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EPITHELIAL CELL DIFFERENTIATION OF HUMAN MESENCHYMAL STROMAL CELLS

(51) International classification :A61P 11/00
(31) Priority Document No :61/866,570
(32) Priority Date :16/08/2013
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2014/050815
Filing Date :13/08/2014
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :201617004865
Filed on :11/02/2016

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)NIKLASON, Laura E.
2)MENDEZ, Julio J.

(57) Abstract :
ABSTRACT The present invention relates to the discovery that different stem cell types (e.g., bone marrow-derived mesenchymal stem cells (BM-MSC) and adipose-derived mesenchymal stem cells (AT-MSC)) undergo large changes in lung epithelial marker 5 expression depending on the substrate on which they are cultured. The present invention includes methods and compositions for differentiating of mesenchymal stem cells, such as bone marrow and adipose tissue mesenchymal stem cells, into lung cells, populations of lung cells, and methods of alleviating or treating a lung defect in a subject in need thereof.

No. of Pages : 69 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202318007773 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NONAQUEOUS ELECTROLYTE SOLUTION AND NONAQUEOUS ELECTROLYTE SECONDARY BATTERY

(51) International classification	:H01M 10/052, H01M 10/0567, H01M 10/0568, H01M 10/0569, H01M 4/36, H01M 4/38, H01M 4/505, H01M 4/525
(31) Priority Document No	:2019-167451
(32) Priority Date	:13/09/2019
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2020/034583
Filing Date	:11/09/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202217009283
Filed on	:22/02/2022

(71)**Name of Applicant :**
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2)MATSUOKA, Naoki
3)ITO, Makoto
4)ZHANG, Xun

(57) Abstract :
The present invention provides a nonaqueous electrolyte solution which contains: a nonaqueous solvent containing acetonitrile and vinylene carbonate; and a compound represented by general formula (1) R1-A-R2 (wherein A represents a divalent group that has a structure represented by one of formulae (1-2) to (1-5); and each of R1 and R2 independently represents an aryl group, an alkyl group which may be substituted by a halogen atom, while having from 1 to 4 carbon atoms, an alkyl group, a vinylidene group which may be substituted by a halogen atom, or an aryl group which may be substituted by a halogen atom; or alternatively, R1 and R2 may combine with each other and form, together with A, a ring structure that may have an unsaturated bond). With respect to this nonaqueous electrolyte solution, the total content of the vinylene carbonate and the compound represented by general formula (1) is not less than 0.1% by volume but less than 10% by volume relative to the total amount of the nonaqueous solvent; and the content of the vinylene carbonate is lower than the content of the compound represented by general formula (1)

No. of Pages : 151 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202318007951 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS FOR TREATING URINARY TRACT INFECTIONS

(51) International classification	:A61B 18/04, A61M 25/01, A61B 34/30, A61B 18/00
(31) Priority Document No	:1807114.2
(32) Priority Date	:01/05/2018
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2019/061056
Filing Date	:30/04/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202017049218
Filed on	:11/11/2020

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3)TURNER, Louis
4)SWAIN, Sandra
5)EBBUTT, Julian Mark
6)BISHOP, John
7)CRAVEN, Richard

(57) Abstract :
A treatment apparatus (10) which uses thermal or non5 thermal plasma to treat urinary tract infections (UTIs) by destroying bacteria. The apparatus comprises an elongate probe that includes a coaxial cable (12) for conveying radiofrequency (RF) electromagnetic (EM) energy and/or microwave EM energy, a probe tip (14, 100, 120) connected at the distal end of the coaxial cable for receiving the RF and/or microwave EM energy, and a gas conduit (106) for conveying gas to the probe tip. The probe tip comprises a first electrode (102) connected to the inner conductor (108) of the coaxial cable, and a second electrode (104) connected to the outer conductor (110) of the coaxial cable, and wherein the first electrode and second electrode are arranged to produce an electric field from the received RF and/or microwave EM energy across a flow path of gas received from the gas conduit to produce a thermal or a non-thermal plasma.

No. of Pages : 23 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/02/2023
(21) Application No.202318007955 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : T-SHAPED CAP FOR MEDICAL INJECTOR

(51) International classification :A61M 5/32
(31) Priority Document No :62/264,509
(32) Priority Date :08/12/2015
(33) Name of priority country :France
(86) International Application No :PCT/IB2016/057445
Filing Date :08/12/2016
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :201817023488
Filed on :23/06/2018

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(72)**Name of Inventor :**
1)NGUYEN, Emilie

(57) Abstract :
A medical injector includes an injector housing defining a reservoir, a plunger rod, and a stopper engaged with a portion of the plunger rod. The stopper being 5 slidably disposed within the reservoir and sized relative to an interior of the injector housing to provide sealing engagement with a sidewall of the injector housing. The medical injector further includes a needle having a sharpened first end and a second end in communication with the reservoir, a first cap covering the sharpened first end of the needle, and a second cap covering at least a part of 10 the first cap. The second cap includes a body having a proximal end, a distal end, and a flange provided adjacent the distal end. The second cap is engaged with the first cap such that removal of the second cap simultaneously removes the first cap from the first end of the needle.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010349 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A DISPLAY DEVICE

(51) International classification	:G02B 6/00, G02B 27/22, G02B 27/26, G02F 1/01, G02F 1/13
(31) Priority Document No	:62/622,001
(32) Priority Date	:25/01/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/014889
Filing Date	:24/01/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202017035848
Filed on	:20/08/2020

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1)ROBINSON, Michael G.
2)WOODGATE, Graham J.
3)HARROLD, Jonathan
4)RAMSEY, Robert A.

(57) Abstract :
A display device comprising: a spatial light modulator (SLM); a display polariser arranged on at least one side of the SLM, the display polariser being a linear polariser; a first additional polariser arranged on the same side of the SLM as one of the at least one display polarisers, the first additional polariser being a linear polariser; and first polar control retarders arranged between the first additional polariser and the one of the at least one display polarisers; a further additional polariser arranged on the same side of the SLM as said one of the at least one display polarisers, outside the first additional polariser, the further additional polariser being a linear polariser; and further polar control retarders arranged between the first additional polariser and the further additional polariser, wherein the first polar control retarders comprise a pair of passive retarders which have optical axes in the plane of the retarders that are crossed and extend at 45º and 135º, respectively, with respect to an electric vector transmission direction of the output polariser, the further polar control retarders comprise a further pair of passive retarders which have optical axes in the plane of the retarders that are crossed and extend at 45º and 135º, respectively with respect to an electric vector transmission direction of the output polariser, and the optical axes of the one of the first pair of passive polar control retarders and the one of the further pair of passive polar control retarders that are closest to each other extend in the same direction.

No. of Pages : 159 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010414 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESSES FOR THE PREPARATION OF SUGAMMADEX

(51) International classification :C08B 37/16, A61K 31/724
(31) Priority Document No :62/681,889
(32) Priority Date :07/06/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/035104
Filing Date :03/06/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202017054818
Filed on :03/06/2019

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4)CAO, Yang
5)GAUTHIER, Donald, R., Jr.
6)HYDE, Alan Michael
7)ZULTANSKI, Susan, L.

(57) Abstract :
The present invention provides processes for the preparation of sugammadex: In one aspect, there is provided a process for the preparation of sugammadex from 6-per-deoxy- 6-bromo-γ-cyclodextrin and 3-mercaptopropionic acid. In another aspect, there is provided an alternative process for the preparation of sugammadex from 6-per-deoxy-6-bromo-γ-cyclodextrin and disodium 3-mercaptopropionate. In another aspect, there is provided a process for the preparation of 6-per-deoxy-6-bromo-γ-cyclodextrin, which may be used in the production of sugammadex. In one such aspect, there is provided a process for the preparation of 6-per-deoxy-10 6-bromo-γ-cyclodextrin from γ-cyclodextrin and a brominating agent. In another such aspect, there is provided a process for the preparation of 6-per-deoxy-6-bromo-γ-cyclodextrin comprising, inter alia, reacting γ-cyclodextrin with an electrophilic brominating agent, a deoxygenating agent, and an acid in the presence of an organic solvent.

No. of Pages : 27 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010487 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMAGE DATA ENCODING/DECODING METHOD AND APPARATUS

(51) International classification	:H04N 19/625, H04N 19/103, H04N 19/176, H04N 19/129, H04N 19/124
(31) Priority Document No	:10-2016-0127893
(32) Priority Date	:04/10/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/011149
Filing Date	:10/10/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:201917017277
Filed on	:30/04/2019

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(72)**Name of Inventor :**
1)KIM, Ki Baek

(57) Abstract :
Disclosed is an image data encoding/decoding method and apparatus. A method for decoding a 360-degree image comprises the steps of: receiving a bitstream obtained by encoding a 360-degree image; generating a prediction image by making reference to syntax information obtained from the received bitstream; combining the generated prediction image with a residual image obtained by dequantizing and inverse-transforming the bitstream, so as to obtain a decoded image; and reconstructing the decoded image into a 360-degree image according to a projection format. Here, the step of generating the prediction image comprises the steps of: obtaining, from motion information included in the syntax information, a motion vector candidate group including a motion vector of a block adjacent to a current block to be decoded; deriving a prediction motion vector from the motion vector candidate group, on the basis of selection information extracted from the motion information; and determining a prediction block for the current block to be decoded, using a fmal motion vector derived by adding the prediction motion vector to a differential motion vector extracted from the motion information. To be published with Figure 44

No. of Pages : 338 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010488 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMAGE DATA ENCODING/DECODING METHOD AND APPARATUS

(51) International classification	:H04N 19/625, H04N 19/103, H04N 19/176, H04N 19/129, H04N 19/124
(31) Priority Document No	:10-2016-0127893
(32) Priority Date	:04/10/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/011149
Filing Date	:10/10/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:201917017277
Filed on	:30/04/2019

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1)KIM, Ki Baek

(57) Abstract :
Disclosed is an image data encoding/decoding method and apparatus. A method for decoding a 360-degree image comprises the steps of: receiving a bitstream obtained by encoding a 360-degree image; generating a prediction image by making reference to syntax information obtained from the received bitstream; combining the generated prediction image with a residual image obtained by dequantizing and inverse-transforming the bitstream, so as to obtain a decoded image; and reconstructing the decoded image into a 360-degree image according to a projection format. Here, the step of generating the prediction image comprises the steps of: obtaining, from motion information included in the syntax information, a motion vector candidate group including a motion vector of a block adjacent to a current block to be decoded; deriving a prediction motion vector from the motion vector candidate group, on the basis of selection information extracted from the motion information; and determining a prediction block for the current block to be decoded, using a fmal motion vector derived by adding the prediction motion vector to a differential motion vector extracted from the motion information. To be published with Figure 44

No. of Pages : 338 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010489 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMAGE DATA ENCODING/DECODING METHOD AND APPARATUS

(51) International classification	:H04N 19/625, H04N 19/103, H04N 19/176, H04N 19/129, H04N 19/124
(31) Priority Document No	:10-2016-0127893
(32) Priority Date	:04/10/2016
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2017/011149
Filing Date	:10/10/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:201917017277
Filed on	:30/04/2019

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(72)**Name of Inventor :**
1)KIM, Ki Baek

(57) Abstract :
Disclosed is an image data encoding/decoding method and apparatus. A method for decoding a 360-degree image comprises the steps of: receiving a bitstream obtained by encoding a 360-degree image; generating a prediction image by making reference to syntax information obtained from the received bitstream; combining the generated prediction image with a residual image obtained by dequantizing and inverse-transforming the bitstream, so as to obtain a decoded image; and reconstructing the decoded image into a 360-degree image according to a projection format. Here, the step of generating the prediction image comprises the steps of: obtaining, from motion information included in the syntax information, a motion vector candidate group including a motion vector of a block adjacent to a current block to be decoded; deriving a prediction motion vector from the motion vector candidate group, on the basis of selection information extracted from the motion information; and determining a prediction block for the current block to be decoded, using a fmal motion vector derived by adding the prediction motion vector to a differential motion vector extracted from the motion information. To be published with Figure 44

No. of Pages : 339 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010497 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TECHNIQUES FOR SECURE VIDEO FRAME MANAGEMENT

(51) International classification	:H04N 21/234, H04N 21/2347, H04N 5/14, H04N 21/4408
(31) Priority Document No	:62/853,408
(32) Priority Date	:28/05/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/034763
Filing Date	:27/05/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117055179
Filed on	:29/11/2021

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2)RAUENBUEHLER, Keith W.
3)YORK, Kenneth A.
4)SINGH, Varinder
5)FRAIOLI, Nicholas M.

(57) Abstract :
Embodiments of the present disclosure can provide devices, methods, and computer-readable medium for secure frame management. The techniques disclosed herein provide an intelligent method for detecting triggering items in one or more frames of streaming video from an Internet Protocol camera. Upon detection, the camera transmits one or more frames of the video over a network to a computing device. Upon detecting a triggering item in a frame of the video stream, the computing device can begin a streaming session with a server and stream the one or more frames of video and accompanying metadata to the server. The frames, metadata, and associated keys can all be encrypted prior to streaming to the server. For each subsequent segment of video frames that includes the triggering item, the server can append the frames of that segment to the video clip in an encrypted container. Once the triggering item is no longer detected, the streaming session can be closed.

No. of Pages : 70 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023

(21) Application No.202318010510 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SMART MECHANISM TO MANAGE THERMAL IMPACT IN 5G NR

(51) International classification	:H04B 7/0404, H04B 7/06, H04B 17/17, H04B 17/18, H04B 7/08
(31) Priority Document No	:62/951,232
(32) Priority Date	:20/12/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2020/065007
Filing Date	:15/12/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202217025620
Filed on	:02/05/2022

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8)GOVINDARAJU, Vishwanth Kamala
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11)ZHANG, Wei
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13)SUNKESALA, Sandeep K.
14)NIMMALA, Srinivasan
15)DHANAPAL, Muthukumaran
16)DHANANI, Tarakkumar G.
17)KODALI, Sree Ram
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20)TRAVOSTINO, Franco
21)ELANGOVAN, Thanigaivelu
22)CHAUDHARY, Madhusudan
23)HALL, Geoffrey, R.

(57) Abstract :
This disclosure relates to methods and devices for mitigating overheating in a user equipment device (UE). The UE is configured to communicate over each of LTE and 5G NR and may be configured to communicate through 5G NR over each of a Sub-6GHz and a millimeter Wave (mmW) frequency band. The UE is configured to establish an ENDC connection with an enB and one or more gNBs. The UE implements intelligent transmission modification and cell measurement adjustments to mitigate overheating and reduce battery drain.

No. of Pages : 73 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010511 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RANGING BETWEEN MOBILE DEVICES

(51) International classification	:G06F 3/0482, H04W 4/80, H04W 4/02, H04W 12/06
(31) Priority Document No	:62/738,915
(32) Priority Date	:28/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/053448
Filing Date	:27/09/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117010127
Filed on	:10/03/2021

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2)KROCHMAL, Marc J.
3)BRUMLEY, Robert W.
4)HARIHARAN, Sriram

(57) Abstract :
A mobile device can include ranging circuitry to determine distance to another mobile device. A first wireless protocol can establish an initial communication session to perform authentication and/or exchange ranging settings. A second protocol can perform ranging, and other wireless protocols can transmit content. In one example, the distance information can be used to display a relative position of another device on a user interface of a sending device. The user interface can allow a user to quickly and accurately select the recipient device for sending the data item. As other example, the distance information obtained from ranging can be used to trigger a notification (e.g., a reminder) to be output from a first mobile device or used to display a visual indicator on a receiving device. Proximity of a device (e.g., as determined by a distance) can be used to suggest recipient for a new communication. To be published with figure 8

No. of Pages : 105 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/02/2023
(21) Application No.202318010513 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RANGING BETWEEN MOBILE DEVICES

(51) International classification	:G06F 3/0482, H04W 4/80, H04W 4/02, H04W 12/06
(31) Priority Document No	:62/738,915
(32) Priority Date	:28/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/053448
Filing Date	:27/09/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117010127
Filed on	:10/03/2021

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3)BRUMLEY, Robert W.
4)HARIHARAN, Sriram

(57) Abstract :
A mobile device can include ranging circuitry to determine distance to another mobile device. A first wireless protocol can establish an initial communication session to perform authentication and/or exchange ranging settings. A second protocol can perform ranging, and other wireless protocols can transmit content. In one example, the distance information can be used to display a relative position of another device on a user interface of a sending device. The user interface can allow a user to quickly and accurately select the recipient device for sending the data item. As other example, the distance information obtained from ranging can be used to trigger a notification (e.g., a reminder) to be output from a first mobile device or used to display a visual indicator on a receiving device. Proximity of a device (e.g., as determined by a distance) can be used to suggest recipient for a new communication. To be published with figure 8

No. of Pages : 106 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012547 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SOLID FORMS OF AN FGFR INHIBITOR AND PROCESSES FOR PREPARING THE SAME

(51) International classification :C07D 471/14, A61K 31/519, A61P 35/00
(31) Priority Document No :62/667,166
(32) Priority Date :04/05/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/030633
Filing Date :03/05/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202017052609
Filed on :03/12/2020

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5)TAO, Ming
6)WANG, Dengjin
7)ZHOU, Jiacheng
8)LI, Qun

(57) Abstract :
The present disclosure relates to solid forms and polymorphs of compound (1): 3-(2,6-difluoro3,5-dimethoxyphenyl) -l-ethyl-8-(morpholin-4-ylmethyl)-l,3,4,7-tetrahydro-2Hpyrrolo[3',2':5,6]pyrido[4,3-d]pyrimidin-2-one, methods of preparation thereof, and intermediates in the preparation thereof, which are useful in the treatment of the FGFRassociated or mediated diseases such as cancer

No. of Pages : 251 No. of Claims : 63

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012589 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTI-COMPLEMENT FACTOR BB ANTIBODIES AND USES THEREOF

(51) International classification	:C07K 16/18, C07K 16/36, C07K 16/40, A61K 39/395
(31) Priority Document No	:62/317,897
(32) Priority Date	:04/04/2016
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2017/025784
Filing Date	:03/04/2017
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:201817040457
Filed on	:26/10/2018

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2)PARRY, GRAHAM
3)CHRISTOPHERSON, KAREN SUE
4)BYUN, TONY SANGYOUNG

(57) Abstract :
A humanized antibody specific for complement factor Bb, wherein the antibody is selected from the group consisting of: a) an antibody comprising light chain complementarity determining regions (CDRs) of an antibody light chain variable (VL) region comprising amino acid sequence SEQ ID NO:7; b) an antibody comprising light chain CDRs of an antibody heavy chain variable (VH) region comprising amino acid sequence SEQ ID NO:8; c) an antibody comprising light chain CDRs of an antibody VL region comprising amino acid sequence SEQ ID NO:15; d) an antibody comprising heavy chain CDRs of an antibody VH region comprising amino acid sequence SEQ ID NO:16; e) an antibody comprising light chain CDRs of an antibody VL region comprising amino acid sequence SEQ ID NO:23; f) an antibody comprising heavy chain CDRs of an antibody VH region comprising amino acid sequence SEQ ID NO:24; g) an antibody comprising light chain CDRs of an antibody VL region comprising amino acid sequence SEQ ID NO:31; h) an antibody comprising heavy chain CDRs of an antibody VH region comprising amino acid sequence SEQ ID NO:32; i) an antibody comprising light chain CDRs of an antibody VL region comprising amino acid sequence SEQ ID NO: 39; j) an antibody comprising heavy chain CDRs of an antibody VH region comprising amino acid sequence SEQ ID NO:40; k) an antibody comprising light chain CDRs of an antibody VL region comprising amino acid sequence SEQ ID NO:47; and l) an antibody comprising heavy chain CDRs of an antibody VH region comprising amino acid sequence SEQ ID NO:48.

No. of Pages : 144 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012645 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS, KITS AND APPARATUS FOR EXPANDING A POPULATION OF CELLS

(51) International classification :G01N 1/30, G01N 33/557, C12N 5/0783
(31) Priority Document No :61/980,506
(32) Priority Date :16/04/2014
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/EP2015/058339
Filing Date :16/04/2015
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :201617035177
Filed on :14/10/2016

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)GERMEROTH, Lothar
2)STEMBERGER, Christian

(57) Abstract :
ABSTRACT The present invention relates to multimerization reagent capable of stimulating a population of cells, wherein the multimerization reagent is in soluble form; and a composition comprising said multimerization reagent. The present invention also relates to an arrangement of a bioreactor and a stationary phase for chromatography and an apparatus for purification and expansion of target cells, the apparatus comprising said arrangement. 105

No. of Pages : 157 No. of Claims : 176

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012660 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD IN BIOPROCESS PURIFICATION SYSTEM

(51) International classification :C12M 1/36, C12P 21/00, C12Q 3/00, G06N 20/00
(31) Priority Document No :1810772.2
(32) Priority Date :29/06/2018
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2019/067643
Filing Date :01/07/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202017056907
Filed on :29/12/2020

(71)**Name of Applicant :**
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1)HYCKENBERG, Key
2)SKOGLAR, Helena
3)MALMQUIST, Gunnar
4)CARLSTEN, Mikael
5)LUNDQVIST, Roger
6)ANDERSSON, Dan
7)MATHIASSON, Linda
8)MATTSSON, Lars
9)SENDABO, Sara
10)BERG, Mikael

(57) Abstract :
The present invention relates to a method for optimizing a bioprocess purification system 5 comprising a bioreactor configured to provide a harvest comprising a target composition, and a purification process arranged downstream the bioreactor and being configured for purification of the harvest to produce a target product having a desired characteristics. The method comprising: a) detecting (32) at least one quality attribute indicative of characteristics of the target product in a downstream process, b) identifying (33) correlations between the at 10 least one quality attribute measured in the downstream process and parameters to control a cell culture process in the bioreactor, and c) controlling (34) the cell culture process to meet the desired characteristics based on the identified correlations, whereby the target characteristics is within a p re- determined range.

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023

(21) Application No.202318012739 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TRANSFORM-BASED IMAGE CODING METHOD AND DEVICE

(51) International classification	:H04N 19/60, H04N 19/137, H04N 19/132, H04N 19/119, H04N 19/18
(31) Priority Document No	:62/903,823
(32) Priority Date	:21/09/2019
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/KR2020/012707
Filing Date	:21/09/2020
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202217021895
Filed on	:21/09/2020

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1)KOO, Moonmo
2)LIM, Jaehyun
3)KIM, Seunghwan

(57) Abstract :
An image decoding method according to the present document comprises a step of deriving a residual sample, wherein the step of deriving the residual sample comprises the steps of: when a current block is divided into sub-partition blocks, deriving a transform kernel for an inverse primary transform applied to a sub-partition block on the basis of a horizontal or a vertical length of the sub-partition block; and deriving the residual sample from transform coefficients on the basis of the transform kernel.

No. of Pages : 112 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012744 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MONOVALENT SELECTIVE CATION EXCHANGE MEMBRANE

(51) International classification	:B01J 47/12, C08J 5/22, C25B 13/08
(31) Priority Document No	:62/736,176
(32) Priority Date	:25/09/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/052889
Filing Date	:25/09/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117014416
Filed on	:25/09/2019

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1)GU, George
2)HADJIKYRIACOU, Savvas
3)DUKES, Simon P.
4)SHAW, Michael J.

(57) Abstract :
A monovalent selective ion exchange membrane is disclosed. The membrane includes a polymeric microporous substrate, a cross-linked ion-transferring polymeric layer on a surface of the substrate, and a charged functionalizing layer covalently bound to the ion-transferring layer by an acrylic group. A method of producing a monovalent selective cation exchange membrane is also disclosed. The method may include chemically adsorbing an acrylic intermediate layer comprising a chlorosulfonated methacrylate group to a cross-linked ion-transferring polymeric layer on a surface of a polymeric microporous substrate, aminating the chlorosulfonated methacrylate group to attach an amine group layer, and functionalizing the amine group layer with a charged compound layer to produce the cation exchange membrane. Water treatment systems including the monovalent selective cation exchange membrane and methods of facilitating water treatment including providing the monovalent selective cation exchange membrane are also disclosed.

No. of Pages : 53 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :24/02/2023
(21) Application No.202318012745 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLASTIC MOLDING APPARATUS AND METHOD WITH SHAPER MODULE

(51) International classification	:B29C 45/64, B29C 45/28, B29C 45/36, B29C 45/33
(31) Priority Document No	:62/724,790
(32) Priority Date	:30/08/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/CA2019/051204
Filing Date	:29/08/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117007746
Filed on	:01/01/1900

(71)**Name of Applicant :**
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1)NOGUEIRA, Joaquim Martins
2)ULEMEK, Adam Christopher
3)FISCH, Ralf Walter
4)KMOCH, Sven
5)TENG, Alex

(57) Abstract :
An apparatus for operating a mold having a cavity assembly (192) and a core (190, 3112, 3114) that cooperatively define a mold for molding of plastic articles, comprising: a carriage comprising a support plate (3052); a clamping assembly (3042) mounted to said support plate; first and second mold support plates (196) mounted to said clamping assembly, and movable by said clamping assembly between a closed position in which cavity plates (194) of the cavity assembly (192) abut one another in clamped contact to define a surface of an article to be molded, and an open position for removal of molded articles; said clamping assembly operable to exert a clamp force on said first and second mold support plates to hold the cavity plates in said closed position during molding of an article, wherein said clamp force is applied through a central axis of said mold support plates.

No. of Pages : 250 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013132 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TUNABLE GLASS COMPOSITIONS HAVING IMPROVED MECHANICAL DURABILITY

(51) International classification :C03C 3/064, C03C 3/091, C03C 10/00
(31) Priority Document No :63/070462
(32) Priority Date :26/08/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/047057
Filing Date :23/08/2021
(87) International Publication No :WO 2022/046586
(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)GUO, Xiaoju
2)LEZZI, Peter Joseph
3)LUO, Jian

(57) Abstract :
A glass composition includes: greater than or equal to 24 mol% and less than or equal to 60 mol% SiO_2; greater than or equal to 23 mol% and less than or equal to 35 mol% Al_2O_3; greater than or equal to 3.5 mol% and less than or equal to 35 mol% B_2O_3; greater than 0 mol% and less than or equal to 20 mol% Li_2O; greater than or equal to 0 mol% and less than or equal to 10 mol% Na_2O; and greater than or equal to 0 mol% and less than or equal to 3 mol% K_2O. The sum of Li_2O, Na_2O, and K_2O (i.e., R_2O) in the glass composition may be greater than or equal to 12 mol% and less than or equal to 20 mol%.

No. of Pages : 51 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202317013147 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VEGETATION MAINTENANCE SYSTEM

(51) International classification :E01C 11/22
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2020/105206
Filing Date :28/07/2020
(87) International Publication No :WO 2022/021069
(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)RICHARDS, Owen Emanuel
2)HAN, Chunqiao

(57) Abstract :
A vegetation maintenance system, comprising a permeable curb (10) provided on at least one side of a road along a road direction; a water guide layer (30) located on the side surface of the permeable curb (10) and provided close to the bottom of the permeable curb (10); a water storage layer (50) provided on the side of the water guide layer (30) away from a road surface and used for storing water; a nutrient layer (70) provided on the side of the water storage layer (50) away from the water guide layer (30) and used for providing water, soil and nutrients needed for the growth of the vegetation; and a vegetation planting groove (90) that penetrates through the water guide layer (30) and the water storage layer (50) and is embedded into the nutrient layer (70), and is used for planting vegetation. The vegetation maintenance system completely simulates a natural mode that natural rainfalls nourish plants from top to bottom, thus ensuring the healthy growth of plants in an urban environment, fully utilizing rainwater for vegetation irrigation, reducing labor costs, and further effectively preventing the occurrence of water logging on road surfaces and flood disasters.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/02/2023
(21) Application No.202317013340 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LASER PROCESSING METHOD

(51) International classification	:B23K 26/067, B23K 26/21
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2020/034367
Filing Date	:10/09/2020
(87) International Publication No	:WO 2022/054211
(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)YAGI, Takahiro
2)KAGA, Shinichi
3)WATANABE, Yujiro
4)OKUDA, Takehisa

(57) Abstract :
A laser processing method is provided with a step for relatively moving a material to be processed to a plurality of laser spots including a first spot, a second spot, and a third spot in such a manner that the first spot, the second spot, and the third spot linearly arranged are passed through a processing subject portion of the material to be processed in this order, thereby processing the material to be processed. To a total amount of energy of laser light in the first spot, the second spot, and the third spot, a ratio of energy in the first spot is 20% to 30% (both inclusive), a ratio of energy in the second spot is 20% to 30% (both inclusive), and a ratio of energy in the third spot is 45% to 55% (both inclusive).

No. of Pages : 21 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202317013404 A
(19) INDIA
(22) Date of filing of Application :28/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : NON-AQUEOUS ELECTROLYTE FOR LITHIUM SECONDARY BATTERY, AND LITHIUM SECONDARY BATTERY COMPRISING SAME

(51) International classification	:H01M 10/0567, H01M 10/052, H01M 4/525, H01M 4/505, H01M 4/58	(71)**Name of Applicant :** **1)LG ENERGY SOLUTION, LTD.** Address of Applicant :Tower 1, 108, Yeoui-daero Yeongdeungpo-gu Seoul 07335 Republic of Korea
(31) Priority Document No	:10-2021-0037733	(72)**Name of Inventor :**
(32) Priority Date	:24/03/2021	**1)OH, Jeong Woo**
(33) Name of priority country	:Republic of Korea	**2)PARK, Sung Guk**
(86) International Application No	:PCT/KR2022/004127	**3)LEE, Chul Haeng**
Filing Date	:24/03/2022	
(87) International Publication No	:WO 2022/203417	
(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 non-aqueous electrolyte for a lithium secondary battery; and a lithium secondary battery comprising same, the non-aqueous electrolyte comprising a lithium salt, an organic solvent, and a first additive which is a compound represented by chemical formula 1.

No. of Pages : 42 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/02/2023
(21) Application No.202317013587 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LANGUAGE AUTODETECTION FROM NON-CHARACTER SUB-TOKEN SIGNALS

(51) International classification :G06F 40/263
(31) Priority Document No :17/024428
(32) Priority Date :17/09/2020
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/035563
Filing Date :03/06/2021
(87) International Publication No :WO 2022/060439
(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)GLASS, Andrew Stuart
2)MAGNUS, Margaret Hope
3)RADTKE, Roland

(57) Abstract :
In non-limiting examples of the present disclosure, systems, methods and devices for determining a language of a text string are presented. A language detection model may be maintained. The language detection model may comprise identities and weights for initial and final consonants, identities and weights for prefixes and suffixes, and identities and weights for vowel sequences, where each identity is derived from a training corpus. The weights may correspond to a frequency of a text unit in the corpus. A text string may be received and a match score between the text string and the language of the language detection model may be determined. The match score may be based on initial and final consonant scores, prefix and suffix scores, and/or vowel sequence scores for each word in the text string. If the match score meets a threshold value a follow-up action associated with the language may be performed.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/02/2023
(21) Application No.202318008400 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PD-1/PD-L1 INHIBITORS

(51) International classification	:A61P 35/00, C07D 213/74, C07D 241/20, C07D 401/06, C07D 401/12
(31) Priority Document No	:62/697,932
(32) Priority Date	:13/07/2018
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2019/041657
Filing Date	:12/07/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117005496
Filed on	:09/02/2021

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3)GRAUPE, Michael
4)LAD, Lateshkumar Thakorlal
5)MACHICAO TELLO, Paulo A.
6)MEDLEY, Jonathan William
7)METOBO, Samuel E.
8)NADUTHAMBI, Devan
9)PHILLIPS, Barton W.
10)SIMONOVICH, Scott Preston
11)WANG, Peiyuan
12)WATKINS, William J.
13)XU, Jie
14)Yang, Kin Shing
15)ZIEBENHAUS, Christopher Allen

(57) Abstract :
Compounds and methods of using said compounds singly or in combination with additional agents and compositions of said compounds for the treatment of cancer are disclosed.

No. of Pages : 298 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/02/2023
(21) Application No.202318008435 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MODIFIED SUPPORTED CHROMIUM CATALYSTS AND ETHYLENE-BASED POLYMERS PRODUCED THEREFROM

(51) International classification :C08F 10/02
(31) Priority Document No :62/732,020
(32) Priority Date :17/09/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2019/051212
Filing Date :16/09/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202117010545
Filed on :12/03/2021

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)CRUZ, Carlos A.
2)MONWAR, Masud M.
3)BARR, Jared L.
4)MCDANIEL, Max P.

(57) Abstract :
Supported chromium catalysts with an average valence less than +6 and having a hydrocarbon-containing or halogenated hydrocarbon-containing ligand attached to at least one bonding site on the chromium are disclosed, as well as ethylene-based polymers with terminal alkane, aromatic, or halogenated hydrocarbon chain ends. Another ethylene polymer characterized by at least 2 wt. % of the polymer having a molecular weight greater than 1,000,000 g/mol and at least 1.5 wt. % of the polymer having a molecular weight less than 1000 g/mol is provided, as well as an ethylene homopolymer with at least 3.5 methyl short chain branches and less than 0.6 butyl short chain branches per 1000 total carbon atoms.

No. of Pages : 66 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :27/02/2023
(21) Application No.202318013182 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MOLDING APPARATUS AND METHODS

(51) International classification :B29C 45/53
(31) Priority Document No :62/724,790
(32) Priority Date :30/08/2018
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2019/051205
Filing Date :29/08/2019
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :202117007751
Filed on :24/02/2021

(71)**Name of Applicant :**
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4)YANKOV, Peter
5)KMOCH, Sven
6)FISCH, Ralf Walter
7)HALTER, Christophe
8)MACLEOD, Darrin Albert
9)GUO, Teng

(57) Abstract :
A plastic molding system comprises: dispensing, pre-shaping and shaping cells and a transport subsystem. The dispensing cell has a station for dispensing a dose of plastic feedstock. The pre-shaping and shaping cells each comprise a plurality of stations for shaping the workpiece into a preform shape and into a final shape, respectively. The transport subsystem advances a workpiece along a selected one of a plurality of process paths to form a molded article. Each of the plurality of process paths is defined by a combination of stations of the dispensing cell, the pre-shaping cell and the shaping cell.

No. of Pages : 257 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202318013194 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND COMPOSITIONS FOR AFFECTING THE FLAVOR AND AROMA PROFILE OF CONSUMABLES

(51) International classification :A23D 7/005, A23D 9/013, A23L 1/30
(31) Priority Document No :61/751,816
(32) Priority Date :11/01/2013
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2014/011347
Filing Date :13/01/2014
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :6509/DELNP/2015
Filed on :13/01/2014

(71)**Name of Applicant :**
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1)FRASER, Rachel
2)BROWN, Patrick O'Reilly
3)KARR, Jessica
4)HOLZ-SCHIETINGER, Celeste
5)COHN, Elysia

(57) Abstract :
This document relates to food products containing highly conjugated heterocyclic 5 rings complexed to an iron ion and one or more flavor precursors, and using such food products to modulate the flavor and/or aroma profile of other foods. The food products described herein can be prepared in various ways and can be formulated to be free of animal products.

No. of Pages : 94 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202318013291 A
(19) INDIA
(22) Date of filing of Application :27/02/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR IDENTIFYING THRUST COUNTERFORCE WORKING POINT POSITIONS AND METHOD FOR ROLLING ROLLED MATERIAL

(51) International classification	:B21B 37/00, B21B 37/28, B21B 37/38, B21B 37/58, B21B 37/68, B21B 38/00, B21B 38/08, B21C 51/00
(31) Priority Document No	:2018-152179
(32) Priority Date	:13/08/2018
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2019/031437
Filing Date	:08/08/2019
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202117008919
Filed on	:03/03/2021

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(72)**Name of Inventor :**
1)YAMAGUCHI, Kazuma
2)ISHII, Atsushi
3)NIKKUNI, Daisuke

(57) Abstract :
There is provided a method for identifying thrust counterforce working point positions of backup rolls of a rolling mill of four-high or more, the method including: a step of changing at least either friction coefficients and inter-roll cross angles between the rolls with an unchanged kiss roll load to cause thrust forces at a plurality of levels to act between the rolls, and measuring thrust counterforces in a roll-axis direction acting on 10 rolls forming at least one of roll pairs other than a roll pair of the backup rolls and measuring backup roll counterforces acting in a vertical direction on the backup rolls at reduction support positions at the plurality of levels of thrust force in a kiss roll state; and a step of identifying, based on the measured thrust counterforces acting on the rolls, thrust counterforce working point positions of thrust counterforces acting on the 15 backup rolls, using first equilibrium conditional expressions relating to forces acting on the rolls and second equilibrium conditional expressions relating to moments acting on the rolls.

No. of Pages : 111 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/07/2022

(21) Application No.202221034142 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADVANCED VIDEO CONFERENCING DEVICE

(51) International classification	:H04N0007150000, H04N0007140000, H04M0001725000, G06F0003010000, G16H0040670000
(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)Anshuman Garg
Address of Applicant :1102, Cypress Building, Marigold Society, Kalyani Nagar, Pune PUNE Maharashtra India
2)Jyoti Garg
(72)**Name of Inventor :**
1)Anshuman Garg

(57) Abstract :
The proposed invention provides a system (100) to facilitate humans especially the elderly/disable care. An advanced video conferencing system having processing capabilities of a smart phone with camera (8)and wired/wireless interface for establishing communicative coupling with display unit to familiar elderly/disabled people with latest communication technology. The system (100) includes a mobile computing device (1), a smart box (2) with data capturing unit (5) and an output unit (4) for video conferencing. The mobile computing device (1) receives user's input and send it to data capturing unit (5). The microprocessor of data capturing unit (5) processes the users input to control the camera (8) and/or microphone (9) to start or stop capturing voice and /or images (15, 16) of all users and send it to output unit(4). The output unit (4) receives voice and/or images (15,16) of users taking part in video conferencing and display it. FIG. 2

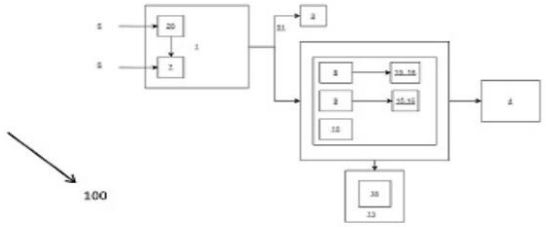

Fig. 2

No. of Pages : 40 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/07/2022

(21) Application No.202221041646 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A GEAR ADAPTER IMPLEMENTED A GEAR ASSEMBLY FOR REPLACEMENT OF A GEAR

(51) International classification	:B60W0010110000, B60K0025060000, E05C0009020000, G01B0005200000, E06B0009720000
(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)ELECTROMOTION E-VIDYUT VEHICLES PVT. LTD.
Address of Applicant :AIC@36INC, 3rd Floor, City Center Mall, Pandri, Raipur, Chhattisgarh 492001, India Raipur Chattisgarh India
(72)**Name of Inventor :**
1)Pulkit Jain
2)Gaurav Kumar Singh
3)Kailash Pati Dutta
4)Surya Pratap Singh
5)Bishwajeet Kumar

(57) Abstract :
The present disclosure relates to gear assembly (100) with a gear adapter (101) comprising a bore (401) through which the gear adapter (101) is mounted over a shaft (102). The gear adapter (101) may further comprise a flange (104) with a gear attachment section (301) on which a gear (103) is inserted from an open end of the gear attachment section (301) and attached over the attachment section (301). The gear (103) attached on the gear attachment section (301) is replaceable by attachment of a new gear selected from a plurality of gears. In an embodiment, when any alteration is made in the assembly and there is a requirement of a different gear with different size and different profile at the position of the gear adapter (101), then the gear which is mounted on the gear adapter (101) is replaced with a desired gear as per the requirement.

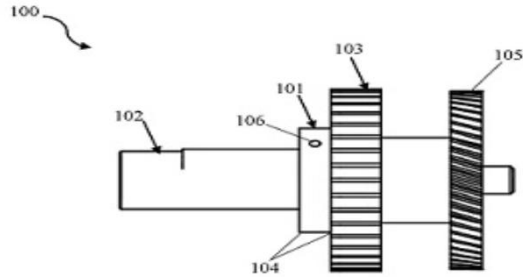

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022
(21) Application No.202221058931 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR LONG-FORM ANSWER EXTRACTION BASED ON COMBINATION OF SENTENCE INDEX GENERATION TECHNIQUES

(51) International classification	:G06N0003040000, G06N0003080000, G06F0016310000, G10L0015060000, G06F0016330000
(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 :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India

(72)**Name of Inventor :**
1)DASGUPTA, Anumita
2)MALLICK, Prabir
3)NAYAK, Tapas
4)BHATTACHARYA, Indrajit
5)PATIL, Sangameshwar Suryakant

(57) Abstract :
This disclosure relates generally to long-form answer extraction and, more particularly, to long-form answer extraction based on combination of sentence index generation techniques. Existing answer extractions techniques have achieved significant progress for extractive short answers; however, less progress has been made for long form questions that require explanations. Further the state-of-art long- answer extractions techniques result in poorer long-form answers or not address sparsity which becomes an issue longer contexts. Additionally, pre-trained generative sequence-to-sequence models are gaining popularity for factoid answer extraction tasks. Hence the disclosure proposes a long-form answer extraction based on several steps including training a set of generative sequence-to-sequence models comprising a sentence indices generation model and a sentence index spans generation. The trained set of generative sequence-to-sequence models is further utilized for model long-form answer extraction based on a union of several sentence index generation techniques comprising a sentence indices and a sentence index spans. [To be published with FIG. 2]

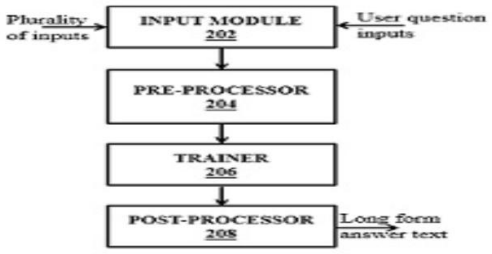


FIG. 2

No. of Pages : 28 No. of Claims : 12

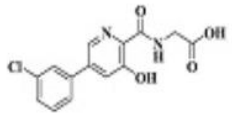
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022

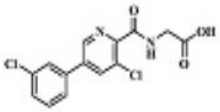
(21) Application No.202221058992 A
(43) Publication Date : 19/04/2024

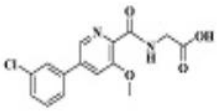
(54) Title of the invention : A PROCESS FOR THE PREPARATION OF VADADUSTAT OR SALTS THEREOF

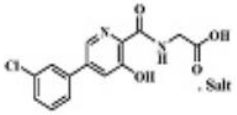
(51) International classification	:A61P0007060000, C07D0213810000, A61K0009200000, C07D0403040000, A61K0031410000	(71)**Name of Applicant :** **1)Ami Lifesciences Private Limited** Address of Applicant :7th Floor, Lilleria 1038, Gotri Sevasi Road, New Alkapuri, Vadodara – 390 021, Gujarat, India. Vadodara Gujarat India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Dr. Kalpesh Ravajibhai Patel**
(33) Name of priority country	:NA	**2)Dr. Virendra Haridas Thakrar**
(86) International Application No	:NA	**3)Dr. Tushar Bharatkumar Mehta**
Filing Date	:NA	**4)Mr. Atul Gajanan Wagh**
(87) International Publication No	: NA	**5)Mr. Jignesh Ashokbhai Patel**
(61) Patent of Addition to Application Number	:NA	**6)Mr. Rohit Ravindra Patil**
Filing Date	:NA	**7)Mr. Yogshakti Udeshinh Solanki**
(62) Divisional to Application Number	:NA	**8)Mr. Chiman Balubhai Ladumor**
Filing Date	:NA	

(57) Abstract :
ABSTRACT A PROCESS FOR THE PREPARATION OF VADADUSTAT OR SALTS THEREOF The present invention relates to an efficient and industrially advantageous process for the preparation of Vadadustat of Formula-I or salt thereof. The present invention also relates to a process for the preparation of Vadadustat intermediates namely {[3-chloro-5-(3-chlorophenyl)pyridine-2-carbonyl]amino}acetic acid of Formula-IV, {[5-(3-chlorophenyl)-3-methoxypyridine-2-carbonyl]amino}acetic acid of Formula-V and their use for the preparation of Vadadustat or salt thereof. The present invention also relates to Vadadustat salt of Formula-VI, and process thereof. Formula-I Formula-IV Formula-V Formula-VI Dated this 12th October 2023 Mr. Raju Sharma, Sr. Manager-IPR, Ami Lifesciences Pvt. Ltd


Formula-I


Formula-IV


Formula-V


Formula-VI

No. of Pages : 33 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058285 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A LINKAGE MECHANISM

(51) International classification	:F16C0011060000, A61B0018000000, A61J0007000000, G01B0007310000, G01B0021240000	(71)**Name of Applicant :** **1)Deere & Company** Address of Applicant :One John Deere Place, Moline, Illinois, 61265 USA U.S.A. (72)**Name of Inventor :** **1)Gupta, Saurabh** **2)Vunnava, Gopichand** **3)Gill, Ranvir Singh**
(31) Priority Document No	:NA	
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
In accordance with the present invention, there is provided a linkage mechanism (10) disposed between a ball element (12) and a socket element (14), defining a ball joint (16) therebetween. A sensor (18) is mounted on the ball element (12). A first link cooperating with the sensor (18). The second link (26) is rotatably coupled to the socket element (14). An intermediate link (32) is disposed between the first link (20) and the second link (26) and cooperates with a fastener (14a) through alignment of a first opening (36a, 36b) and a complementary opening (34a, 34b). The fastener (14a) is moveable in the clearance (C) defined after alignment of the first opening (36a, 36b) and the complementary opening (34a, 34b). The present invention enables determining angle of rotation with a simple arrangement of links. FIGURE 1

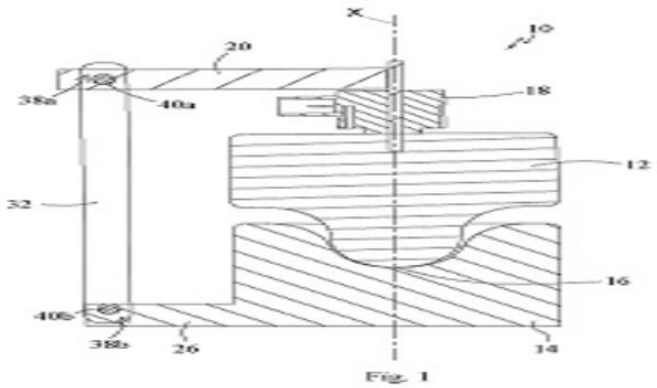


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058303 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RUBBER FORMULA TO DEVELOP FLANGE OF A TAIL PIPE

(51) International classification	:E03B0007070000, H05K0009000000, F16L0023180000, F01N0013080000, F16L0023000000	(71)**Name of Applicant :** **1)Jaljeevan Agrotech Private Limited** Address of Applicant :Awchar Bungalow, Gate no.156, Gavthan, Hakigatpur, tal-parner, Ahmednagar, Maharashtra-414306 Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Naresh Awchar**
(32) Priority Date	:NA	
(33) Name of priority country	:NA	
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure generally relates to the wastage of water during the irrigation of agricultural fields. In particular, the invention presents the development of a flange of a tail pipe using a rubber formula, that aims at reducing wastage of water. The claimed product provides perfect sealing between the tail pipe and the water supply equipment thus preventing water leakage. The flange/gasket is developed using a rubber prepared using a special rubber formula. The claimed product also has the capability to withstand a temperature of up to 48 degrees Celsius. Therefore, the claimed product has better durability in comparison to the gaskets used in the conventional tail pipe. It does not deteriorate or break quickly, thus extending the life expectancy of the water supply equipment. Representative Figure 2

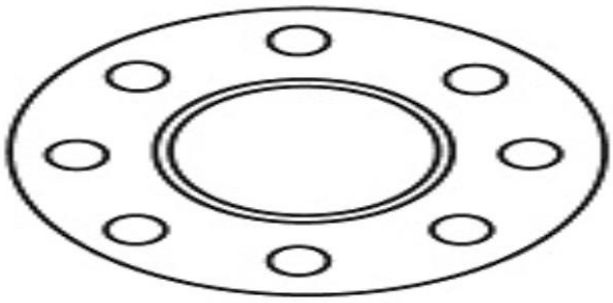


Fig 2

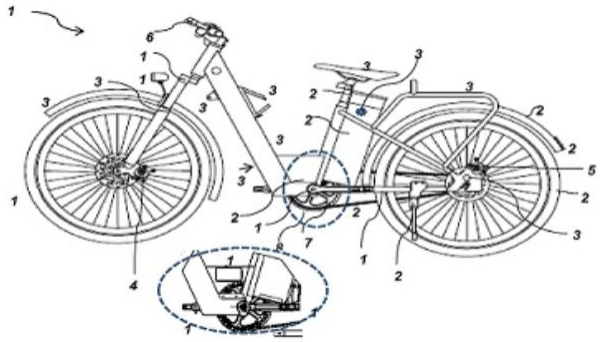
No. of Pages : 11 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058309 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : E-CYCLE UB2GM

(51) International classification	:B62K0021120000, B62M0006900000, B66F0009075000, H01M0050200000, B62J0011000000	(71)**Name of Applicant :** **1)Godawari Electric Motors Pvt Ltd** Address of Applicant :G7,G8 Hira Arcade, Near new Bus Stand, Pandri, Raipur – 492004, Chhattisgarh, India Raipur Chattisgarh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Pravin Hanmant Kulkarni**
(33) Name of priority country	:NA	**2)Ravi Singh**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 electric bicycle (100) having which has two different locking arrangements (37, 38), one locking arrangement (37) is restricting the 360 degree movement of the handlebar and the bicycle chassis. The second locking arrangement (38) discloses a specifically designed for locking a rechargeable battery locking in a battery.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202221058411 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATION OF DESCRIPTIVE COPY OF GROCERY PRODUCTS

(51) International classification	:G06N0003040000, B62B0003140000, G06N0020000000, G06Q0010060000, G16H0050700000	(71)**Name of Applicant :** **1)Tata Consultancy Services Limited** Address of Applicant :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)VASUDEVAN, Bagya Lakshmi**
(33) Name of priority country	:NA	**2)BARUAH, Sudesna**
(86) International Application No	:NA	**3)PATIDAR, Mayur**
Filing Date	:NA	
(87) 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 :
E-commerce industry is currently expanding rapidly, worldwide. A process of generating product copy for grocery items, which is very challenging as food items, do not have features in common, unlike fashion products. A data associated with one or more grocery products is received as an input. The data is processed to obtain one or more sorted similar grocery products. One or more relevant attributes and an allergen information associated with the one or more sorted similar grocery products are extracted. A vocabulary model is created based the one or more relevant attributes and the allergen information associated with the one or more sorted similar grocery products. The vocabulary model is validated based on one or more assigned weights on a training data. The one or more descriptive copies associated with grocery product is generated by mapping the validated vocabulary model with the training data. [To be published with FIG. 2]

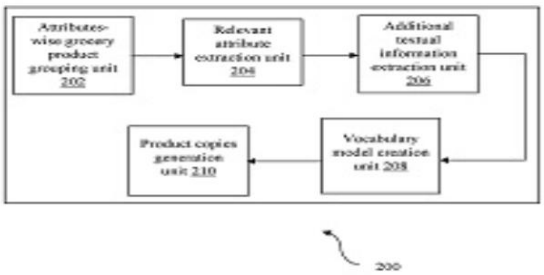


FIG. 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202221058421 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NON-POLLUTING, LIQUID FUEL BASED COOKING STOVE

(51) International classification	:F02M0025080000, A47J0037060000, B60K0015035000, A61M0001000000, G11B0033120000	(71)**Name of Applicant :** **1)PRAVIIN KEKAL** Address of Applicant :B5, Garud Heritage, Behind PNB, Baner, Pune 411045 Pune Maharashtra India (72)**Name of Inventor :** **1)PRAVIIN KEKAL**
(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 non-polluting, liquid fuel based cooking stove includes a duality of retractable slide rails, a press fit locking mechanism assembly, a canister holder. The retractable slide rails are integrally coupled to a canister holder at a pre-determined position. The stove enables easy refilling of liquid fuel in the canister and provides a thermal combustion efficiency in the range of 62 to 65%, with a blue flame and minimum soot generation.

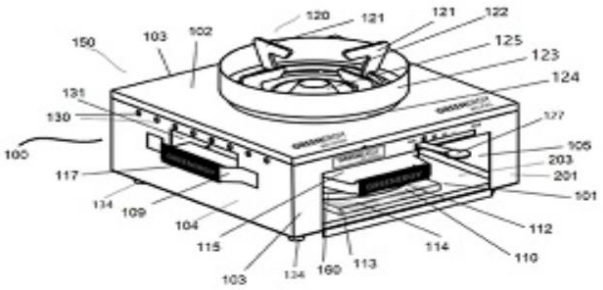


Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/10/2022

(21) Application No.202221059002 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IOT BASED SYSTEM AND METHOD FOR GENERATING UNIQUE IDENTIFICATION MARKER (UIM)

(51) International classification	:G06Q0010060000, G06Q0010100000, G06F0011360000, G16H0040200000, G16H0020100000	(71)**Name of Applicant :** **1)JOSHI AKSHAY SATISH** Address of Applicant :Joshi Akshay Satish, Diksha Apartment, Flat no. D3, Plot no.9, Girijadevi Housing Society, Gajanan Maharaj Mandir Pundliknagar Road, Garkheda, Aurangabad, Maharashtra, India Garkheda Maharashtra India
(31) Priority Document No	:NA	
(32) Priority Date	:NA	(72)**Name of Inventor :**
(33) Name of priority country	:NA	**1)JOSHI AKSHAY SATISH**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
IoT BASED SYSTEM AND METHOD FOR GENERATING UNIQUE IDENTIFICATION MARKER (UIM) The present invention pertain to the realm of generating unique identification marker and, more specifically, to IoT based system and method for generating unique identification marker (UIM) for pharmacy practice improving healthcare management systems, wherein a system comprising a database server to store the patient's information, a device to fetch patient's information from the database server by the paramedical workforces, a printer to enable UIM on the medicated products; and a device in built scanner connected through a network to read the UIM tagged on medicated products. Figure 2

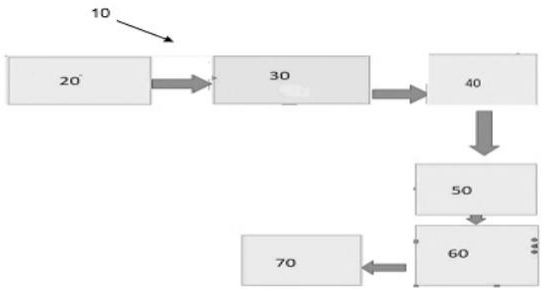


FIGURE 2

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221059011 A
(19) INDIA
(22) Date of filing of Application :16/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR EXTRACTING OIL FROM SEEDS IN CONTROLLED ENVIRONMENT

(51) International classification	:E21B0043120000, C11B0001100000, B30B0009120000, C11B0001040000, F16H0059720000	(71)**Name of Applicant :** **1)Shelke Pallavi Shivaji** Address of Applicant :Plot No 8, Meghdoot Colony, Sambhajinagar, MIDC,City: Satara, State: Maharashtra, Country: India, Pin Code: 415004 Satara Maharashtra India **2)Shelke Shivaji Ramdas**
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Shelke Pallavi Shivaji**
(33) Name of priority country	:NA	**2)Shelke Shivaji Ramdas**
(86) International Application No	:NA	
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
SYSTEM AND METHOD FOR EXTRACTING OIL FROM SEEDS IN CONTROLLED ENVIRONMENT System (100)and method for extracting oil from seeds in a confined space and controlled environment retains nutrition in oilas compared to known systems that during oil extraction increases oil temperature deteriorating nutrition. System (100) includes a cylinder (10), a feeding screw (20), a pressing screw (30), a sensor arrangement (40), an inner coolant line (50), an outer coolant line (60), a coolant reservoir (70), a coolant pumping unit (80), a cooling tower (90), a flow control valve (110) and a control unit (120).The control unit (120) firstly compares the sensed temperature of the sensor arrangement with the temperature limit fed in the instruction registry (121) and secondly controls flow of the flow control valve arrangement (110) based on the compared temperature.

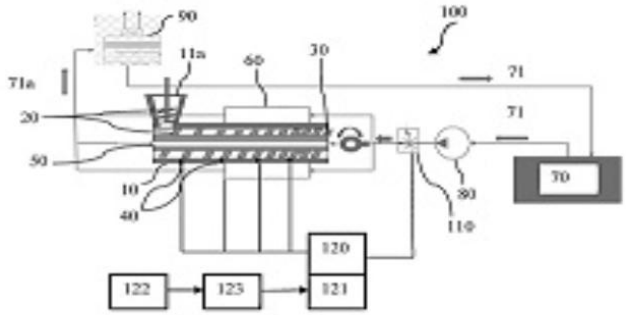


FIGURE 1

No. of Pages : 24 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202221059168 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AN EXHAUST GAS RECIRCULATION MIXER

(51) International classification	:F01N0003280000, F02M0026190000, F01N0013180000, F01N0013000000, F02B0037000000	(71)**Name of Applicant :** **1)Deere & Company** Address of Applicant :One John Deere Place, Moline, Illinois, USA U.S.A. (72)**Name of Inventor :** **1)KERIPALE, UTTAM**
(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 an exhaust gas recirculation mixer (10), disposed between an engine (E), an exhaust manifold (M), a fresh air source (F) and an outlet passage (16). A mixing chamber (20) is defined at the point of intersection of the fresh air inlet passage (12), the exhaust gas inlet passage (14) and the outlet passage (16). An exhaust gas chamber (22), in fluid communicating with the exhaust gas inlet passage (14), is positioned within the mixing chamber (20). The exhaust gas chamber (22) has exhaust gas outlets (24a, 24b, 24c, 24d, 24e, 24f) for flow of the exhaust gas into the mixing chamber (20). Exhaust gas is mixed with the fresh air to form an admixture, which flows out from an outlet passage (16), into the engine (E). The present invention reduces back flow of the exhaust gas into the exhaust manifold, thereby improving burning of fuel. Figure 1

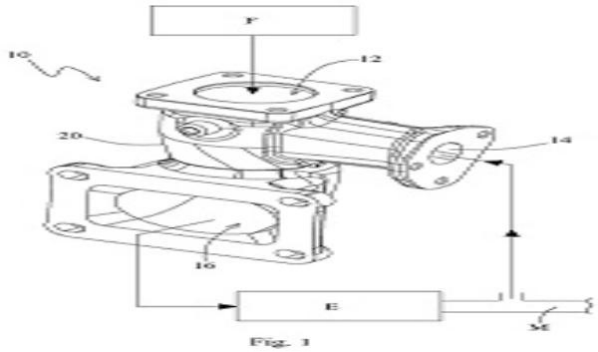


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202221059184 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ADDITIZED DME/LPG FUEL FOR IMPROVING COMBUSTION EFFICIENCY

(51) International classification	:F02M0021020000, F02D0019020000, C10L0001040000, F23D0014660000, B01J0021060000
(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 Oil Corporation Limited
Address of Applicant :IndianOil Bhavan, G-9, Ali Yavar Jung Marg, Bandra (East), Mumbai – 400051, Maharashtra, India Mumbai Maharashtra India
(72)**Name of Inventor :**
1)BHOWMIK, Koushik
2)JAIN, Ruchi
3)OTA, Jyotiranjan
4)HAIT, Samik Kumar
5)KANNAN, Chandrasekaran
6)RAMAKUMAR, Sankara Sri Venkata

(57) Abstract :
The present invention relates to an additized blended fuel composition comprising of 97 to 50 weight % of liquified petroleum gas (LPG); 3 to 50 weight % of dimethyl ether (DME); and a nanocatalyst. More particularly, the present invention relates to an improvement in the combustion efficiency of the DME blended LPG fuel by using catalytic amount of the nano-catalyst, when introduced in ppm level enhances the combustion properties, thereby increasing the flame temperature and reducing the consumption of fuel gas mixture.

No. of Pages : 24 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022

(21) Application No.202221059185 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DIRECT IN-SCOPE SUCTION SYSTEM

(51) International classification	:A61M0001000000, F02B0027020000, B64C0021060000, A61C0017080000, B41F0021100000	(71)**Name of Applicant :** **1)BIORAD MEDISYS PRIVATE LIMITED** Address of Applicant :Survey No. 48, 3 & 48 7, Pashan - Sus Rd, Sus, Pune, Maharashtra 411021 PUNE Maharashtra India (72)**Name of Inventor :** **1)DEBASISH PRADHAN** **2)SATEJ VILASRAO JAGATAP** **3)NILESH GORAKH KALE**
(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 Direct In-Scope Suction System The invention disclosed in this document presents a novel direct in-scope suction system designed for the retrieval of calculus fragments within the body. This system comprises two key components: a calculus fragments retrieval device and a pump unit. The calculus fragments retrieval device features a body with a single working channel that includes both an irrigation port and a suction port, which are connected to respective irrigation and suction pumps via elastomer-based rubber tubes. This setup allows for the controlled infusion of saline solution into the body lumens during lithotripsy procedures, ensuring clear visibility and fragment clearance. The retrieval device includes a trigger lever connected to a pincher tab. When the operator presses the trigger lever, the suction port is opened by releasing the pinched suction tube, increasing pressure inside the body. (To be published with figure 1)

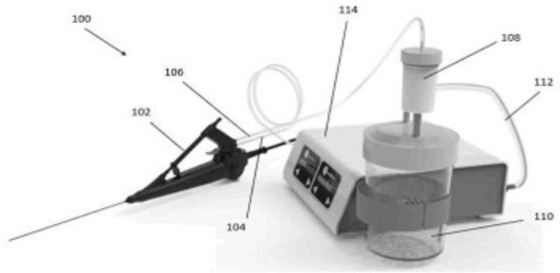


FIGURE 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202221058427 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR PROCESSING INQUIRY AND DATA

(51) International classification	:G06F0016250000, G06N0020000000, G06Q0040000000, G06N0003040000, H04L0067020000
(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)WELSPUN CORP LIMITED
Address of Applicant :WELSPUN HOUSE, 5th FLOOR, KAMAL CITY , LOWER PAREL, SENAPATI BAPAT MARG MUMBAI, MAHARASHTRA, INDIA 400 013 Maharashtra India
(72)**Name of Inventor :**
1)Mr. BALAKRISHNA GOENKA
2)Mr. P N MAHIDA
3)Mr. SNEHAL M PATEL

(57) Abstract :
A method includes receiving an inquiry from a client including a specification including at least one identifier and a cost sheet; accessing a database including a plurality of existing clients and a plurality of existing models corresponding to the plurality of existing clients; determining if the client is present in the plurality of existing clients; determining if the at least one identifier matches the at least one existing identifier of an existing specification of one of the existing models; extracting a relevant information from a master model stored in the database upon determining that the client is a non-existing client and the specification is a non-existing specification; generating a new specification based at least on the relevant information; generating a new specification based at least on the relevant information; and generating an output file based at least on the new specification, the user inputs, and the cost sheet.

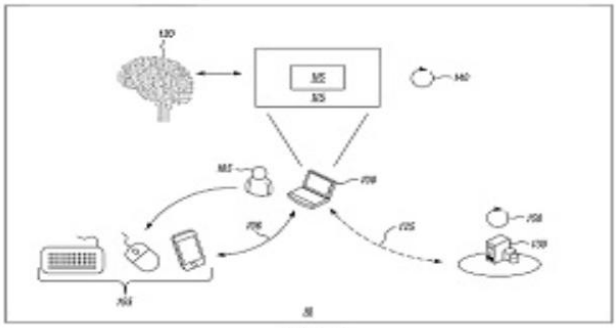


FIG. 1

No. of Pages : 54 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058458 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTERACTIVE SYSTEM AND METHOD TO CREATE AN INFLUENCING AND HEALTHY ENVIRONMENT

(51) International classification	:G06Q0010100000, G06F0016248000, G06F0016951000, H04W0072120000, G06F0016280000	(71)**Name of Applicant :** **1)saurabh vikas chaudhari** Address of Applicant :1341, near swaminarayan temple savda, tal- raver, dist- jalgaon 425502 Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)saurabh vikas chaudhari**
(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 system and method comprising; electronically receiving a scheduling request in the calendar with a plurality of event-related inputs, a request for creating an environment related to the event. Verifying the plurality of inputs of the user and identifying a category of the event. Synchronizing and transferring a predefined number of a requested subset of the content of the identified category of the event to the memory of one or more computing devices of the end user. Tracking the current date and time with the scheduled date and time of the calendar event. Creating an influencing environment for the upcoming scheduled event by means of interactive visual and/or audible mediums through computing device(s) and/or IoT device(s) of an end user from configured time starting before the actual scheduled date and time of the event. Notifying the end user of the scheduled event on the scheduled date and time of the event. FIG. 4

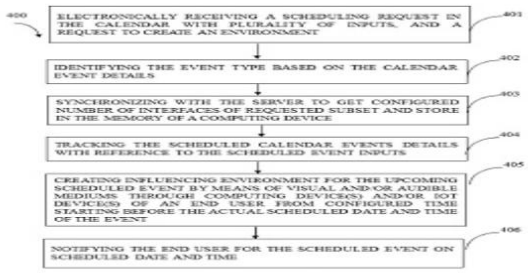


FIG. 4

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022

(21) Application No.202221058463 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM FOR WI-FI BASED REMOTE MONITORING ELECTROCARDIOGRAM

(51) International classification	:A61B0005000000, G16H0020170000, G16H0050200000, A61P0035000000, A61K0039000000	(71)**Name of Applicant :** **1)ABHAYA INFORMATION TECHNOLOGY LLP** Address of Applicant :3C 1304 DHEERAJ DREAMS CHS LBS MARG BHANDUP WEST MUMBAI 400078. Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)TARAK NAGARAJ**
(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 various embodiments of the present invention provide a system for wi-fi based remote monitoring of electrocardiogram of a patient to monitor the heart conditions of a patient. The present invention also enables near real-time monitoring of ECG without the need for healthcare personnel to be in close proximity with the patient. The present invention also enables artificial intelligence-based detection of abnormality in the cardiac conditions and alerting the medical personnel. FIG. 1

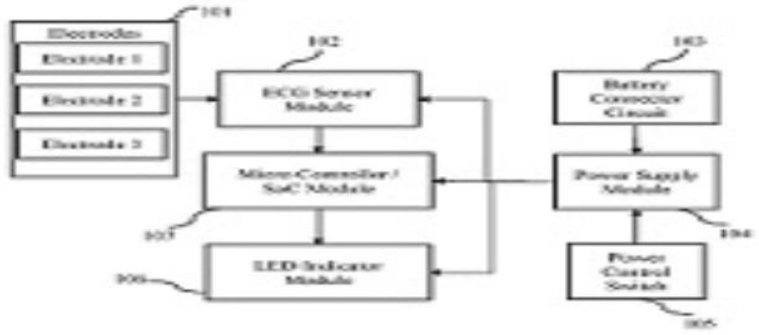


FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058490 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PROCESS FOR THE PREPARATION OF DEUCRAVACITINIB AND A NOVEL INTERMEDIATE THEREOF

(51) International classification	:C07D0213300000, A61K0009200000, A61P0007020000, A61P0003100000, C07C0067080000
(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)ZYDUS LIFESCIENCES LIMITED
Address of Applicant :Zydus Corporate Park, Scheme No. 63, Survey No. 536, Plot No. 103, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle, Sarkhej - Gandhinagar Highway, Ahmedabad-382481, Gujarat, India Ahmedabad Gujarat India
(72)**Name of Inventor :**
1)SINGH, Kumar Kamlesh
2)DIWAKAR, Santosh Devidas
3)VACHHANI, Dipakkumar Dhanjibhai
4)PANDYA, Dhaivat Harikrishnabhai
5)MODI, Gaurav Kishor
6)WALUNJ, Ganesh Madhav

(57) Abstract :
ABSTRACT A PROCESS FOR THE PREPARATION OF DEUCRAVACITINIB AND A NOVEL INTERMEDIATE THEREOF
The present invention relates to a process for the preparation of deucravacitinib, or a pharmaceutically acceptable salt, or a solvate thereof. Further, the present invention relates to a novel intermediate compound and process for the preparation thereof. More particularly, the present invention relates to use of the novel intermediate compound for the preparation of deucravacitinib, or a pharmaceutically acceptable salt, or a solvate thereof.

No. of Pages : 36 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058524 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : LYOPHILIZED PHARMACEUTICAL COMPOSITION

(51) International classification	:A61K0009000000, A61K0031430000, A61K0009190000, C07D0503000000, A61K0047220000
(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)TRIPATHI, Vinay Shankar
Address of Applicant :K23, New Ranibag, Khandwa Road, Indore-453920, Madhya Pradesh, India. Indore Madhya Pradesh India
(72)**Name of Inventor :**
1)TRIPATHI, Vinay Shankar

(57) Abstract :
The present invention discloses to a lyophilized composition suitable for parenteral administration. More particularly, the present invention discloses to an injectable lyophilised pharmaceutical composition comprising a ß-lactam antibiotic and a ß-lactamase inhibitor with improved stability.

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221059243 A
(19) INDIA
(22) Date of filing of Application :17/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : COATING COMPOSITION AND A PROCESS FOR ITS PREPARATION

(51) International classification	:C09D0175040000, A61K0009240000, C09D0007400000, H01L0029660000, C09D0005140000	(71)**Name of Applicant :** **1)KANSAI NEROLAC PAINTS LIMITED** Address of Applicant :NEROLAC HOUSE, GANPATRAO KADAM MARG, LOWER PAREL, MUMBAI- 400 013, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)NIKAM, Laxman Shankar**
(33) Name of priority country	:NA	**2)DAREKAR, Mahesh Raghunath**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 COATING COMPOSITION AND A PROCESS FOR ITS PREPARATION The present disclosure relates to a coating composition and a process for its preparation. The coating composition comprises at least one polyhydroxylic acrylic resin, at least one first fluid medium, at least one crosslinking agent, at least one catalyst, at least one additive, and at least one second fluid medium. The coating composition of the present disclosure is easy to handle, easy to use, and is a 1k coating system. Further, the present disclosure provides a simple and economical process for the preparation of the coating composition.

No. of Pages : 30 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202221059254 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AN ASSEMBLY FOR MOUNTING A COMPONENT OF A VEHICLE AND MEHOD OF OPERATING THEREOF

(51) International classification	:G06F0011140000, B65D0047240000, H01J0037147000, G06F0021570000, B05B0011000000	(71)**Name of Applicant :** **1)TATA MOTORS PASSENGER VEHICLES LIMITED** Address of Applicant :Floor 3, 4, Plot-18, Nanavati Mahalaya, Mudhana Shetty Marg, BSE, Fort, Mumbai, Mumbai City, Maharashtra, 400001, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)SAGAR RAMACHANDRA DESHMUKH**
(33) Name of priority country	:NA	**2)SUSHANT SATISH RAJMANE**
(86) International Application No	:NA	**3)SANDIP HAZRA**
Filing Date	:NA	
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure discloses an assembly (100) for mounting a component of a vehicle and method of operating thereof. The assembly (100) comprises a mounting unit (5), a first piston (3) and a first stopper (4). The assembly comprises a first piston (3) coupled with a first stopper (4) movably disposed in a first passage (6) to be displaced on supply of the fluid to the first passage (6). The first stopper (4) is configured to adjust relative position between the first stopper (4) and the vehicle component (16) in response to displacement of the first piston (3) in the first passage (6). With such configuration, the assembly (100) may reduce or eliminate the wear due to creep and may reduce the need for replacing the mounting assembly (100) in the vehicle. Figure 1a is a representative figure.

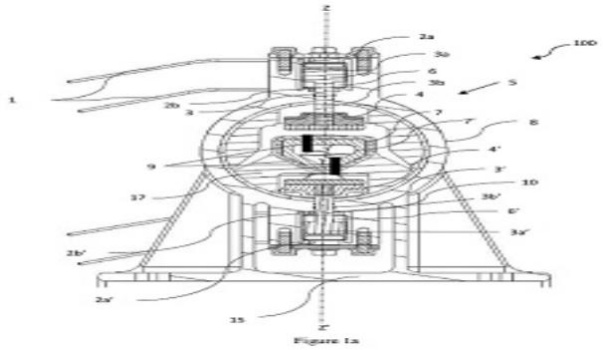


Figure 1a

No. of Pages : 32 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2022
(21) Application No.202221059277 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEMS AND METHODS GENERATING SALES OPPORTUNITY-HEALTH ASSESSMENT AND PREDICTABILITY BASED ON ASSOCIATED INTENTS

(51) International classification	:G06N0020000000, G06N0003040000, G06N0005040000, G06F0040440000, G06N0005000000	(71)**Name of Applicant :** **1)Tata Consultancy Services Limited** Address of Applicant :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)SRIVASTAVA, Amit**
(33) Name of priority country	:NA	**2)KULKARNI, Sandeep**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :
Selling solutions to customers has been a core part of business engagements across Industries. Applying learning from past/previous engagements for new opportunities and extracting sales insights has been a challenge. Existing approaches are statistical machine learning (ML) models based and these are inaccurate when new scenarios are imposed. Present disclosure provides systems and methods that process data related to sales opportunities specific to entities in various data formats to obtain one or more intents. The intents are mapped to opportunities wherein mapped data is processed by a machine learning model to determine feature values and weights comprised in the processed data. Opportunity impacting parameters are determined based on feature values and weights and a score is computed for each opportunity impacting parameter. Using score, system generates explainability text and opportunity behaviour for qualified sales opportunities wherein explainability text and opportunity behaviour comprises sales opportunity-health assessment and win/loss predictability. [To be published with FIG. 2]

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221059282 A
(19) INDIA
(22) Date of filing of Application :17/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPACT DOOR HANDLE ASSEMBLY

(51) International classification	:E05B0001000000, E05B0085160000, E05B0077060000, E05B0079060000, E05B0085100000	(71)**Name of Applicant :** **1)ILLINOIS TOOL WORKS INC.** Address of Applicant :155 Harlem Avenue, Glenview, Illinois 60025, United States of America U.S.A.
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)JOSHI, Shriram** **2)KUNIYIL, Nidhin**
(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 COMPACT DOOR HANDLE ASSEMBLY Examples of the present subject matter disclose a door handle assembly (100). The door handle assembly (100) includes a frame (101), a door handle (102) disposed in a cavity of the frame (101), a bell crank lever (106) pivotably connected to the frame (101) about a crank axis substantially perpendicular to the plane of the frame (101). A push-push mechanism (104) to actuate the door handle (102) and an actuator (105) pivotably connected to the frame (101) about an actuator axis substantially perpendicular to the plane of the frame (101). The actuator axis being substantially parallel to the crank axis and offset therefrom, the actuator (105) having: two longitudinal ends (105-1, 105-2) and being pivoted to the frame (101) at a point (108) between the two longitudinal ends; and a first edge (109-1) and a second edge (109-2), both, extending between the two longitudinal ends.

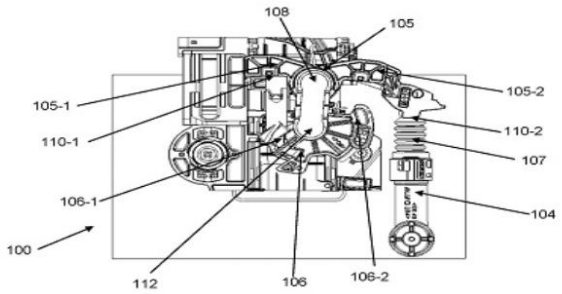


FIGURE 1B

No. of Pages : 40 No. of Claims : 11

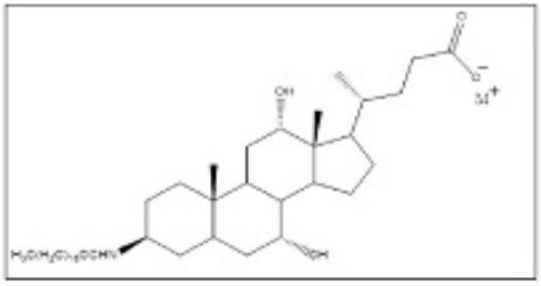
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058573 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL SALTS OF ARAMCHOL AND PROCESS THEREOF

(51) International classification	:A61K0031575000, A61P0001160000, A61P0003100000, A61K0009000000, A61P0003060000
(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)Alkem Laboratories Limited
Address of Applicant :Alkem Laboratories Limited Senapati Bapat Marg, Lower Parel Mumbai Maharashtra India
(72)**Name of Inventor :**
1)PARIHAR Jayprakash Ajitsingh
2)PAWAR PRASHANT PANDURANG
3)SANTOSH VITTHAL PUNE
4)PANCHAL JAYKUMAR RAJESHBHAI

(57) Abstract :
ABSTRACT NOVEL SALTS OF ARAMCHOL AND PROCESS THEREOF The present invention provides novel salts of Aramchol with an improved water solubility, physicochemical stability and dissolution characteristics. Particularly, the present invention provides sodium, potassium, magnesium, calcium and zinc salts of Aramchol and process for the preparation thereof. The present invention provides crystalline form of each of the individual novel salt and with methods of its preparation. Further, the present invention provides a pharmaceutical composition comprising novel salts of the present invention and use thereof of in the treatment of Nonalcoholic steatohepatitis (NASH) or any disease that its treatment may benefit from modulating cholesterol or lipid balance. Wherein, M+ represents a suitable cation selected from sodium, potassium, calcium, magnesium and zinc.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058587 A
(43) Publication Date : 19/04/2024

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

(51) International classification	:A61P0007040000, A01N0043880000, C07C0281140000, A01N0057140000, C07D0277340000
(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)Dr. Ankur Vermani
2)Jay Shankar
3)Sushil Gather
4)Dr. Jayant Umarye
5)Samson Waghmare
6)Rajavelu N. K.

(57) Abstract :
ABSTRACT A SYNERGISTIC INSECTICIDAL COMPOSITION The present disclosure relates to synergistic insecticide composition comprising at least one insecticide selected from class of isooxazoline compound and at least one insecticide selected from class of organochlorine compound with one or more agrochemically acceptable excipients. More particularly, present invention discloses the insecticide composition comprising a) fluxametamide and b) pyridaben with one or more agrochemically acceptable excipients selected from carrier, defoamer, wetting agent, disintegrating agent, anti-caking agent, dispersing agent, anionic emulsifier, non-ionic emulsifier sticking agent, anionic surfactant, non-ionic surfactant, polymeric surfactant, oil stabilizer, preservative, thickener, viscosity modifying agent/Rheology modifying agent, biocidal agent and anti-freezing agent and/or mixtures thereof.

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058588 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MACHINE LEARNING BASED PREDICTION OF FASTEST SOLVER COMBINATION FOR SOLUTION OF MATRIX EQUATIONS

(51) International classification	:G06N0003080000, G06F0111100000, G06F0030200000, G06N0020000000, G06N0005040000
(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 :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India
(72)**Name of Inventor :**
1)KULKARNI, Hrishikesh Nilkanth
2)AHMAD, Dilshad

(57) Abstract :
Machine Learning approaches in literature for determining optimal solver-preconditioner-smoother for solving matrix equations in computer modelling of any systems are directly dependent on matrix property calculation as an intermediate step. However, in CFD domain, this matrix system is generated from simulation input parameters. Also, part of simulation parameter's relation with the matrix equations can be derived from the theory. Embodiments of the present disclosure provide a method and system for prediction of fastest solver combination for solution of matrix equations during CFD simulations. The system trains a Machine Learning (ML) model using a set of relevant input parameters, based on domain knowledge of a CFD problem of interest, as a plurality of input features. The ML model is a multi-class classification model for the prediction of solver combination taking the CFD simulation parameters as an input. [To be published with 2]

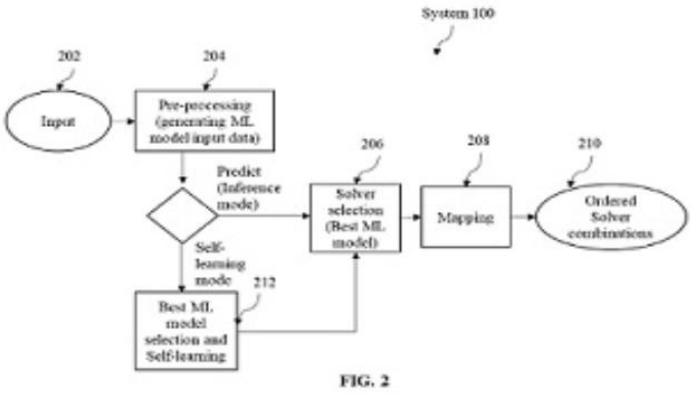

FIG. 2

No. of Pages : 49 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058590 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR STABILIZING AND ACCELERATING ITERATIVE NUMERICAL SIMULATION

(51) International classification	:G05B0017020000, G06F0009500000, G06F0111100000, H04L0045000000, G06F0119080000	(71)**Name of Applicant :** **1)Tata Consultancy Services Limited** Address of Applicant :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)MAURYA, Mithilesh Kumar**
(33) Name of priority country	:NA	**2)BANERJEE, Dighanchal**
(86) International Application No	:NA	**3)AHMAD, Dilshad**
Filing Date	:NA	**4)DEY, Sounak**
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
ABSTRACT SYSTEM AND METHOD FOR STABILIZING AND ACCELERATING ITERATIVE NUMERICAL SIMULATION
Simulation of dynamic physical systems is done using iterative solvers. However, this iterative process is a time consuming and compute intensive process and, for a given set of simulation parameters, the solution does not always converge to a physically meaningful solution, resulting in huge waste of man hours and computation resource. Embodiments herein provide a method and system for stabilizing a diverged numerical simulation and accelerating a converged numerical simulation by changing one or more control parameters. An automatic monitoring mechanism of residue history (to interpret convergence or divergence) and a subsequent control logic to auto-tune the under-relaxation factor would help in stabilizing a diverging simulation and reaching faster convergence by accelerating converging simulation. [To be published with FIG. 2]

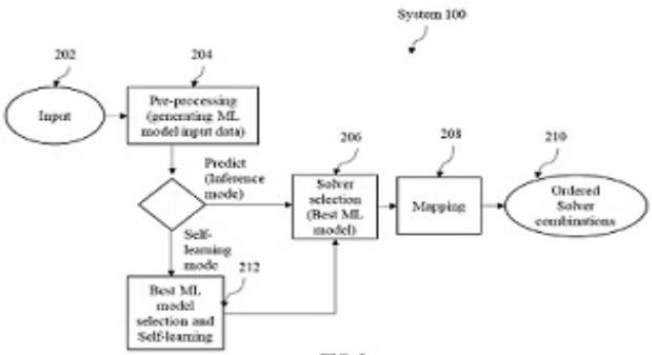

FIG. 2

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058599 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : LUBRICATING HERBAL JELLY COMPOSITION

(51) International classification	:B41J0011000000, B29C0045270000, G06F0016954000, G06Q0040060000, A61K0009700000	(71)**Name of Applicant :** **1)TRIPATHI, Vinay Shankar** Address of Applicant :K23, New Ranibag, Khandwa Road, Indore-453920, Madhya Pradesh, India. Indore Madhya Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)TRIPATHI, Vinay Shankar**
(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 novel lubricating herbal jelly formulation/composition and process for the preparation thereof. More particularly, the present invention relates to a glycerin based jelly formulation, which dries off automatically without leaving any vestige.

No. of Pages : 11 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058611 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A HERBAL COMPOSITION FOR ERECTILE DYSFUNCTION

(51) International classification	:A61K0036470000, A61K0036484000, A61K0036906600, A61P0009000000, A01H0006380000
(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)TRIPATHI, Vinay Shankar
Address of Applicant :K23, New Ranibag, Khandwa Road, Indore-453920, Madhya Pradesh, India. Indore Madhya Pradesh India
(72)**Name of Inventor :**
1)TRIPATHI, Vinay Shankar

(57) Abstract :
Disclosed herein is a herbal composition comprising Euphorbia royleana succinate and suitable pharmaceutical excipients. The invention also disclosed herein is process for preparation of said herbal composition.

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058612 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTERLOCKING FEMORAL AUGMENTS

(51) International classification	:H04W0072000000, H04W0072040000, A61F0002300000, H04L0005000000, H04L0067561000	(71)**Name of Applicant :** **1)BIORAD MEDISYS PRIVATE LIMITED** Address of Applicant :Survey No. 48, 3 & 48 7, Pashan - Sus Rd, Sus, Pune, Maharashtra pune Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)DEBASISH PRADHAN** **2)ANKITA PATIL**
(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 INTERLOCKING FEMORAL AUGMENTS The interlocking femoral augment system is disclosed herein. This system comprises a distal femoral augment and a posterior femoral augment, each with predetermined thickness, and a femoral prosthesis. These components are intricately designed to interlock with each other and with the femoral prosthesis, establishing primary and secondary locking mechanisms that effectively eliminate rotation and dislocation issues associated with augmentations. The distal femoral augment compensates for bone defect volume on the distal flange of the prosthesis, while the posterior femoral augment addresses defects on the posterior flange. The system provides the flexibility to choose from different augment thicknesses and includes features like pockets on the augment's top face for cementing and protrusions on the bottom surface for interlocking. This innovative system promises to enhance the success of orthopedic procedures involving femoral augmentations while reducing the risk of complications. Figure 2

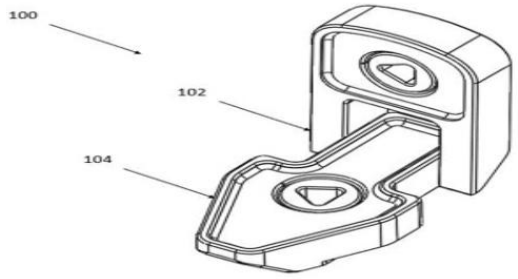

FIGURE 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022

(21) Application No.202221058653 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR IDENTIFYING CANDIDATE GENOME SEQUECNCES BY ESTIMATING COVERAGE

(51) International classification	:C12Q0001688300, G01N0033500000, G06F0016215000, G16B0020200000, A61B0005110000	(71)**Name of Applicant :** **1)Tata Consultancy Services Limited** Address of Applicant :Nirmal Building, 9th Floor, Nariman Point Mumbai Maharashtra India 400021 Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)WALIA, Vidushi**
(33) Name of priority country	:NA	**2)VANGALA GOVINDAKRISHNAN, Saipradeep**
(86) International Application No	:NA	**3)SIVADASAN, Naveen**
Filing Date	:NA	**4)SRINIVASAN, Rajgopal**
(87) 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 disclosure relates generally to identifying candidate genome sequences. Next generation sequencing (NGS) is a massively parallel sequencing technique for identifying candidate genome sequences. The current state-of-the-art techniques for identifying candidate genome sequences does not efficiently address the problem of distributing abundance values across several related strains that are present in the reference under the same species. The disclosed technique proposes a technique for identifying candidate genome sequences by estimating coverage. The disclosed technique includes a local search-based optimization to compute maximum likelihood-based estimates using constrains on coverage/cardinality thresholds for identifying candidate genome sequences. [To be published with FIG. 2]

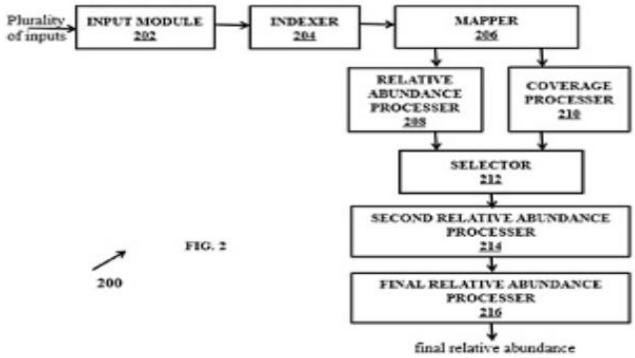

FIG. 2

No. of Pages : 48 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058654 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CORROSION INHIBITOR FOR IRON AND IRON ALLOYS

(51) International classification	:G01N0017000000, C22C0037100000, G01N0030020000, C22C0038500000, B23K0101000000
(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 :Nirmal Building, 9th Floor, Nariman Point Mumbai Maharashtra India 400021 Mumbai Maharashtra India
(72)**Name of Inventor :**
1)KUMAR, Dharmendr
2)KANAMARLAPUDI, Venkata Muralidhar
3)JAIN, Vinay
4)RAI, Beena

(57) Abstract :
Metal corrosion is a ubiquitous phenomenon costing the global economy, trillions of dollars annually. Conventional corrosion inhibitor compounds are either not so effective or require huge amount of inhibitor for adequate protection. The present disclosure addresses the problem of acid corrosion of iron and iron alloys which is relevant for a wide variety of industries such as oil and gas production and acid pickling etc. The technical solution provided in the present disclosure is a new corrosion inhibitor composition including Naphthalene-1-thiocarboxamide for iron and iron alloys in HCl media. This is specifically relevant for acid well stimulation in the oil and gas industries. [To be published with FIG. 2]

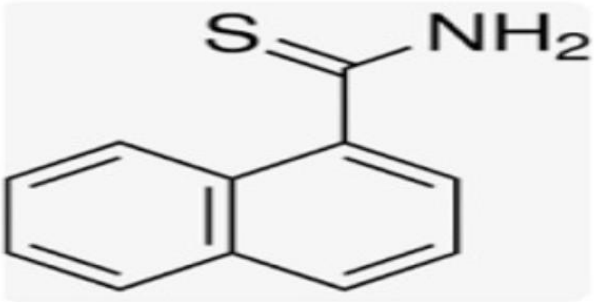

FIG. 2

No. of Pages : 17 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221055488 A
(19) INDIA
(22) Date of filing of Application :13/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : DELOUSER DEVICE AND SYSTEM FOR REMOVING PARASITES FROM AQUATIC ORGANISMS

(51) International classification	:C09D0005160000, C02F0103000000, C02F0101160000, A01K0061130000, C02F0001320000	(71)**Name of Applicant :** **1)GARWARE TECHNICAL FIBRES LIMITED** Address of Applicant :Plot No.11, Block D-1, MIDC, Chinchwad, Pune - 411019, Maharashtra, India. Pune Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)GARWARE, Vayu Ramesh**
(33) Name of priority country	:NA	**2)CHARATI, Sanjay Gurbasappa**
(86) International Application No	:NA	**3)GUNARI, Nikhil Arun**
Filing Date	:NA	**4)KULKARNI, Anirudha Ashok**
(87) International Publication No	: NA	**5)DOLE, Ajay Hemant**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
The present disclosure provides a delouser device (100) and a system (200) for removing parasites (230) from aquatic organisms (110). The delouser device (100) includes an inlet (120), an outlet (160), and a perforated mesh (140) configured to connect along the perimeters of the inlet (120) and the outlet (160). The delouser device (100) allows the aquatic organism (110) to enter the delouser device (100) through the inlet (120), passes through the perforated mesh (140) where the perforated mesh (140) engages with the surface of the aquatic organism (110) and removes the parasites (230) therefrom. The system (200) includes one or more passages (220), each having one or more delouser devices (100) that remove the parasites (230) from the aquatic organisms (110) as they pass therethrough. The system (200) also includes pumps (240, 260) and parasite collection bags (250) to facilitate the removal of the parasites (230).

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022

(21) Application No.202221059416 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PYROGRAPHY SOLDERING IRON

(51) International classification	:B44C0001020000, B23K0003030000, B23K0003020000, B44B0007020000, B44C0005040000	(71)**Name of Applicant :** **1)Jaini Nandu** Address of Applicant :301, divine castle, cross road no 4, Liberty garden Malad West mumbai 400064, India. Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Jaini Nandu**
(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 :
Pyrography soldering iron having 21 multi use tips, a plastic case, and a wood burning pen. The pen only has two watts: 30W for wood burning and 15W for leather burning. The method for pyrography using Pyrography soldering iron comprises the steps of : a) First, through free hand art portray designs and sketches on a piece of wood; b) Second, make the art by burning the traces of drawing on a piece of wood with the help of an iron.

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022

(21) Application No.202221059421 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A VALVE SYSTEM FOR CONTROLLING FLUID FLOW AND A METHOD THEREOF

(51) International classification	:F16K0099000000, H04W0028020000, G06Q0030060000, G06Q0040040000, G06Q0020400000	
(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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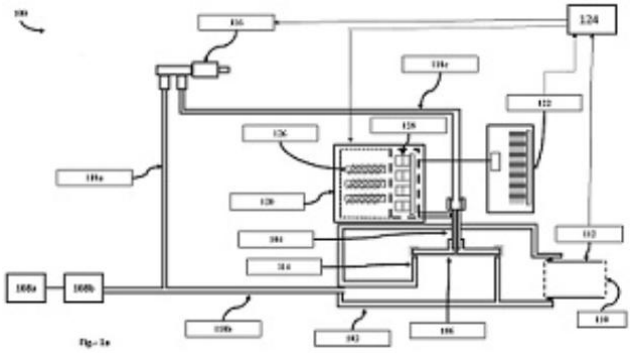
(72)**Name of Inventor :**
1)Aditya Shekhar Kumar
2)Vaibhav Bhagat
3)Amol Hari Metkari
4)Nikhil Kurele

(57) Abstract :
Disclosed herein is a valve system for controlling fluid flow and a method thereof. The valve system comprises a valve housing connected with a plunger having a diaphragm attached therewith such that the plunger is movably placed upon a valve seat within the valve housing, wherein the valve housing is connected with an inlet port and an outlet port for receiving and supplying fluid respectively. The valve system further comprises a control unit configured to control positioning of the plunger along with inflation of the diaphragm within the valve housing in such a manner that both the positioning of the plunger and the inflation of the diaphragm creates a pressure within the valve housing so that a desired fluid is discharged from the outlet port. [Figure 1]



No. of Pages : 35 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221059530 A
(19) INDIA
(22) Date of filing of Application :18/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR MANUFACTURING RECOMBINANT TRANSFERRIN BINDING PROTEINS AND VACCINE COMPOSITIONS COMRPISING SAME

(51) International classification	:A61K0039000000, A61K0039390000, C07K0014790000, A61K0038400000, A61K0039012000
(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 :212/2, Off Soli Poonawalla Road, Hadapsar, Pune-411028, Maharashtra, India Maharashtra India
(72)**Name of Inventor :**
1)KARALE ABHIJEET JAGANNATH
2)MALLYA ASHA DINESH
3)DHERE RAJEEV MHALASAKANT
4)SONI DIPEN JAGDISHBHAI
5)PATNI SUSHIL VARDHAMAN
6)GAVADE VINAY VIJAY

(57) Abstract :
METHOD FOR MANUFACTURING RECOMBINANT TRANSFERRIN BINDING PROTEINS AND VACCINE COMPOSITIONS COMRPISING SAME The present disclosure relates to manufacturing transferrin binding proteins. Specifically, the present disclosure relates to a simple, scalable, commercially viable fermentation and purification process for obtaining recombinant transferrin binding protein (rTbp-B) along with high recovery, low impurity/ aggregate content, and at the same time retains the integrity of the protein. The method uses a single chromatographic step and does not require tagging of proteins as compared to multiple chromatographic steps used previously and still manages to provide r-Tbp-B with at least 95 % purity.

No. of Pages : 67 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022

(21) Application No.202221059541 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING KEY PERFORMANCE INDICATOR PREDICTION MODEL FOR MULTI-CLOUD APPLICATIONS

(51) International classification	:H04W0024100000, G06F0009500000, H04L0041500000, G06N0020000000, H04L0041500900	(71)**Name of Applicant :** **1)Tata Consultancy Services Limited** Address of Applicant :Nirmal Building, 9th floor, Nariman point, Mumbai 400021, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)BANERJEE, Sujoy**
(33) Name of priority country	:NA	**2)BANERJEE, Tanmoy**
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 disclosure relates generally to method and system for generating key performance indicator prediction model for multi-cloud applications. The disclosed method determines an optimized resource model and a predictive cost structure for one or more multi-cloud applications. The method receives a composite usage request to obtain a current resource consumption metrics and a cost structure for each cloud application identifier (ID). Further, a set of cloud provider API endpoints are invoked to obtain a plurality of usage tracking metrics. Further, a plurality of views are generated for each cloud application ID by processing every record associated with each API response file with allocated resource data. Then, a KPI prediction model is generated by leveraging autoregressive integrated moving average on the KPI time series data to determine an optimized resource model and a cost structure. [To be published with FIG. 3]

No. of Pages : 34 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2022
(21) Application No.202221058690 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HERBAL JELLY ORGASM ENHANCER

(51) International classification	:A61K0036258000, A61K0036280000, C07D0401060000, A61K0039000000, A61K0009280000
(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)TRIPATHI, Vinay Shankar
Address of Applicant :K23, New Ranibag, Khandwa Road, Indore-453920, Madhya Pradesh, India. Indore Madhya Pradesh India
(72)**Name of Inventor :**
1)TRIPATHI, Vinay Shankar

(57) Abstract :
The present invention discloses a pharmaceutical composition useful for enhancing sexual peak performance. The present invention relates to a synergistic herbal composition comprising Sodium succinate derived from Panax notoginseng along with suitable excipients to possess excellent storage stability

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058700 A
(19) INDIA
(22) Date of filing of Application :14/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A ROTOGRAVURE CUM DIGITAL PRINTING MACHINE AND PROCESS OF CONVERTING ROTOGRAVURE TO ROTOGRAVURE CUM DIGITAL PRINTING MACHINE

(51) International classification	:B41F0009100000, B41J0003407000, G06K0015020000, B41F0009060000, B41N0001200000	(71)**Name of Applicant :** **1)VACHHANI BHAVESH MAGANLAL** Address of Applicant :11, Shantikunj Society, Opp. P. F. Office, Akota, Gujarat, India Gujarat India (72)**Name of Inventor :** **1)VACHHANI BHAVESH MAGANLAL**
(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 A ROTOGRAVURE CUM DIGITAL PRINTING MACHINE AND PROCESS OF CONVERTING ROTOGRAVURE TO ROTOGRAVURE CUM DIGITAL PRINTING MACHINE. The present invention relates to a rotogravure cum digital printing machine. More preferably, invention relates to rotogravure cum digital inkjet printing machine. The present invention also relates to a process of converting rotogravure printing machine into rotogravure cum digital inkjet printing machine, wherein process comprises installing a digital inkjet print engine bar with digital inkjet print heads (33), inkjet printheads auto cleaning system (34), cross and linear print registration system for the digital inkjet print engine bar (43), electrical and electronics control panel with DCS (Digital control systems) / PLC's (Programmable logic controllers) computer and softwares (44) into a rotogravure printing machine.

No. of Pages : 25 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2022

(21) Application No.202221058762 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR GENERATING USEFUL INSIGHTS

(51) International classification	:F01K0023100000, C10L0001020000, B08B0007000000, G06Q0010100000, H04W0048180000	
(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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1)ZENSAR TECHNOLOGIES LIMITED
Address of Applicant :Plot#4 Zensar Knowledge Park, MIDC, Kharadi, Off Nagar Road, Pune, Maharashtra – 411014, India Maharashtra India

(72)**Name of Inventor :**
1)Sridhar Gadi
2)Varsha Vishwakarma
3)Manish Kumar
4)Pavan Jakati
5)Upasana Gupta
6)Sumit Patil

(57) Abstract :
Disclosed herein is a system (104) for applying data filtering technique to filter unwanted data from the data set and classifying the filtered data set into a plurality of distinct features, calculating a correlation score for each of the classified feature with respect to a target variable, selecting a plurality of features, among the classified features, having correlation score greater than or equal to a first pre-defined threshold, generating a feature correlation matrix for the selected plurality of features and grouping the selected plurality of features in one or more clusters based on a correlation value, selecting one or more clusters among the plurality of clusters containing the features having f-score greater than equal to a second predefined threshold, selecting at least two features from the one or more selected clusters having a highest correlation degree, and processing the at least two selected features to generate the useful insights. [To be published with FIG. 1]

No. of Pages : 36 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221058793 A
(19) INDIA
(22) Date of filing of Application :14/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : MODIFIED RELEASE FORMULATION COMPRISING CAPSAICINOIDS AND A PROCESS FOR PREPARATION THEREOF

(51) International classification	:A61K0009500000, A61K0009280000, A61K0009200000, A61K0009160000, A61K0031165000	(71)**Name of Applicant :** **1)Inventia Healthcare Limited** Address of Applicant :Unit 703 & 704, 7th floor, Hubtown Solaris, N S Phadke Marg, Andheri (East), Mumbai, Maharashtra, India Mumbai Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)Shah Rajat Vishal**
(33) Name of priority country	:NA	**2)Shah Vishal Janak**
(86) International Application No	:NA	**3)Shajahan Abdul**
Filing Date	:NA	
(87) 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 modified release capsaicinoids formulation comprising of active core, at least one emulsifier and at least one gastro-resistant pH dependent polymer. The active core may be coated with at least one release modifying agent and optionally the outermost coating. The invention as described herein also relates to the solvent-free process, wherein emulsion comprising capsaicinoids is entrapped in at least one gastroresistant pH dependent polymer and deposited on non-pareil seeds to get active core, which may be further coated using at least one release modifying agent to get the beadlets. The formulation releases not more than 10% by weight of capsaicinoids in stomach within 2 hours, followed by release of not less than 75% of capsaicinoids in the intestine within 1 hour. The modified release formulation does not exhibit the alcohol dose dumping effect in stomach and it is safe for oral administration to the consumers.

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022
(21) Application No.202221059582 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HERBICIDE COMBINATIONS WITH SAFENER

(51) International classification	:A01N0025320000, B60K0017160000, A01N0047380000, A01N0043707000, A01N0043360000
(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)UPL EUROPE SUPPLY CHAIN GMBH
(72)**Name of Inventor :**
1)CABONA, Fernando César

(57) Abstract :
The present disclosure relates to combinations for the selective control of weeds. More particularly, the present disclosure relates to combination of herbicides with safeners for the selective control of weeds.

No. of Pages : 52 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202221059628 A
(19) INDIA
(22) Date of filing of Application :18/10/2022
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PROCESS FOR A HYBRID RENEWABLE ENERGY SYSTEM

(51) International classification	:H02J0003380000, G06Q0050060000, C25B0001040000, H01M0008065600, C10G0002000000
(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)ASHIWANI YADAV
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(72)**Name of Inventor :**
1)ASHIWANI YADAV
2)RAMESH SINGH PARIHAR
3)POORVA SHARMA
4)DEWASHRI PANSARI
5)NITAI PAL
6)FAIZAN ARIF KHAN
7)ROHIT KUMAR VERMA

(57) Abstract :
ABSTRACT TITLE: A PROCESS FOR A HYBRID RENEWABLE ENERGY SYSTEM The present invention relates to a process 100 for sustainable power supply in a hybrid renewable energy system (HRES) 400, the process comprising: collecting meteorological 111, social 112, financial 113 and real time load estimation 114 input data of the selected site for the HRES by a data collection unit 101, from a central server database 115 through one or more cloud network 116; optimizing a hybrid renewable energy system (HRES) 400 by processing the input data upon receipt from the data collection unit 101 by an optimization unit 104 comprising of method of optimizing 200 for economical 203, technical 205, social 207 and environment 209 analysis followed by determining sensitivity 302 and robustness 304 of the optimized hybrid renewable energy system (HRES) by a determination unit 103 upon receipt of optimized combination of hybrid renewable energy system (HRES) among a plurality of combinations from the optimization unit 104. {To be published with Figure 1}

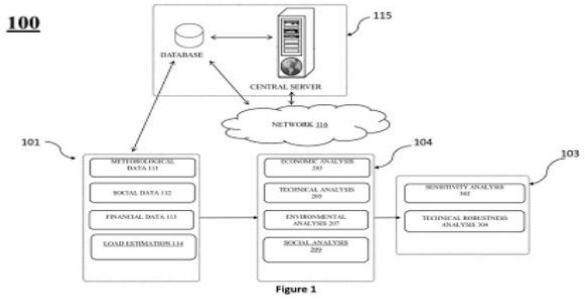

Figure 1

No. of Pages : 33 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/10/2022

(21) Application No.202221059715 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL ANODE ELECTRODES FOR BATTERIES

(51) International classification	:H01M0010052500, H01M0004587000, H01M0004525000, H01M0004620000, H01M0004020000
(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)Hemantkumar Narsinham Aiyer
2)Srinivasan Sampath
3)Prashantha Kumar TKM
4)Debashis Tripathy
5)Ramasubramanian N

(57) Abstract :
The present disclosure describes a novel electrode comprising rGO/Bi2Sn2O7 composites leading to their higher electrochemical performance (capacity of over 1000 mAh/g) in Lithium-Ion battery device in contrast with Graphite (372mAh/g) and also Graphene (470 mAh/g) and even the Bi2Sn2O7 based anodes. Graphene-Bi2Sn2O7 composite electrode operates on synergistic effects between Graphene and Bi2Sn2O7 oxide, where reduced graphene oxide (rGO) can work as an excellent conducting layer for better charge transport and strong adhesion of the Bi2Sn2O7 oxide with the oxygen functional groups of rGO.

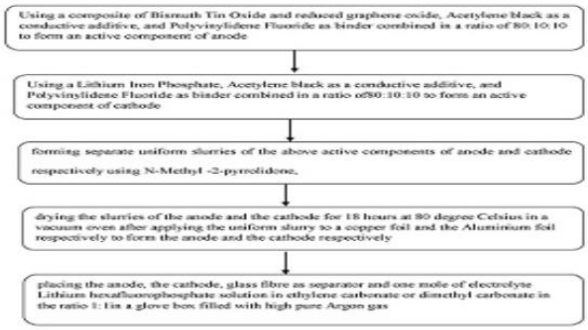

Figure 9

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/11/2022

(21) Application No.202227068733 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WATER PURIFIER SYSTEM

(51) International classification :C02F 9/02
(31) Priority Document No :202210467953.3
(32) Priority Date :29/04/2022
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/130465
Filing Date :08/11/2022
(87) International Publication No :WO 2023/207027
(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, Yaqing

(57) Abstract :
The present invention relates to the field of water purifiers, in particular to a water purifier system. Disclosed is a water purifier system. The system comprises a raw water inlet pipe communicated with a pre-filter cartridge, the pre-filter cartridge is communicated with a middle filter cartridge by means of a water purification pipe I, and the middle filter cartridge is communicated with a reverse osmosis (RO) filter cartridge by means of a water purification pipe II; the raw water inlet pipe, a waste water discharge pipe, and a waste water return pipe are fixed on a raw water end of the pre-filter cartridge, the waste water discharge pipe and the waste water return pipe are respectively communicated with a waste water container, and a pre-water purification end of the pre-filter cartridge is communicated with the raw water inlet pipe by means of a backwashing water return pipe; the water purification pipe II and a concentrated water discharge pipe are fixed to an RO water purification end of the RO filter cartridge, the concentrated water discharge pipe is communicated with the waste water container, and a waste water discharge pipe is fixed to the waste water container; and turbidity detectors are provided in both the raw water end of the pre-filter cartridge and the waste water container. According to the present invention, waste water and concentrated water are collected and also effectively utilized to wash the pre-filter cartridge, so that the waste water is utilized to the maximum extent, and water resources are saved.

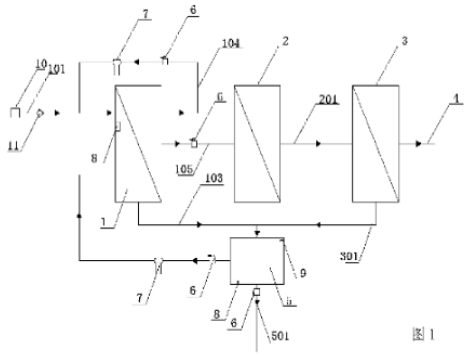

图 1

No. of Pages : 8 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :04/10/2023
(21) Application No.202324066525 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VISUAL SEARCH DETERMINATION FOR TEXT-TO-IMAGE REPLACEMENT

(51) International classification	:G06T0019000000, A61F0013420000, H04L0041220000, G06F0016332000, B01D0035143000
(31) Priority Document No	:17/968,430
(32) Priority Date	:18/10/2022
(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)Google LLC
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(72)**Name of Inventor :**
1)KHARBANDA, Harshit
2)KELLEY, Christopher James
3)YOUSEFI, Pendar

(57) Abstract :
Systems and methods for textual replacement can include the determination of a visual intent, which can trigger an interface for selecting an image to replace visual descriptors. The visually descriptive terms can be identified, and an indicator can be provided to indicate the text replacement option may be initiated. An image can then be selected by a user to replace the visually descriptive terms. Figure 2C is the representative figure.

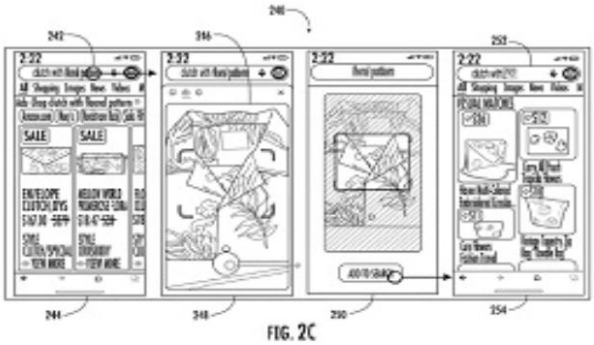

FIG. 2C

No. of Pages : 54 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :05/10/2023

(21) Application No.202324066811 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR CREATING A TRUSTED MAP OF VERIFIED SECURE NODES FOR A NETWORK OF NODES IN A QUANTUM INTERNET

(51) International classification	:G06N0010000000, G09G0003200000, H04L0009320000, H04L0005140000, H04L0069166000	(71)**Name of Applicant :** **1)BULL SAS** Address of Applicant :Rue Jean Jaurès, 78340 LES CLAYES SOUS BOIS, France. France
(31) Priority Document No	:22306537.6	(72)**Name of Inventor :** **1)FREDERIK, Kerling**
(32) Priority Date	:11/10/2022	
(33) Name of priority country	:EPO	
(86) International Application No	:NA	
Filing Date	:NA	
(87) 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 :
Method for providing a ledger of verified nodes for a network of nodes in a quantum internet, comprising: /a/ sending (101), by a central node (N-CH), first qubits (qb1) to a first node (N-U1) and second qubits (qb2) to a second node (N-U2), wherein each first qubit (qb1) is entangled with a second qubit (qb2); /b/ sending (102), by the central node (N-CH), digital coins to each first node (N-U1) and each second node (N-U2); /c/ saving (103) to a ledger: information regarding identities of the first, second and central nodes (N-U1, N-U2, N-CH), and information regarding a comparison of first information determined from the first qubits (qb1) to second information determined from the second qubits (qb2); and /d/ if the first information corresponds to the second information, sending (105), by the first and second nodes (N-U1, N-U2), said digital coins back to the central node (N-CH). Figure 4 is the representative figure.

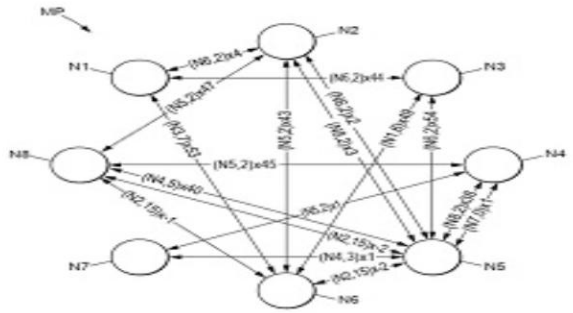

FIG. 4

No. of Pages : 24 No. of Claims : 13

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/10/2023
(21) Application No.202324067856 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISCHARGE LAMP LIGHTING DEVICE AND EXPOSURE APPARATUS INCLUDING SAME

(51) International classification :H05B0041288000, H05B0041292000, B60Q0001000000, H05B0041040000, H05B0041230000
(31) Priority Document No :2022-164418
(32) Priority Date :13/10/2022
(33) Name of priority country :Japan
(86) International Application No :NA
Filing Date :NA
(87) 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)Tomihiko IKEDA
2)Toshiaki TANIDA
3)Toshitaka FUJII

(57) Abstract :
It is intended to eliminate an adverse effect exerted on an igniter by ultraviolet rays emitted from a discharge lamp by disposing the igniter in adjacent to a power supply; namely, it is intended to provide a discharge lamp lighting device that eliminates necessity to dispose the igniter in adjacent to the discharge lamp. The present discharge lamp lighting circuit (10), provided in a discharge lamp lighting device (A) for lighting a discharge lamp (L) of a direct-current lighting type, activates and lights the discharge lamp (L) through an extension cable (C) and is composed of a ballast (12) for lighting the discharge lamp (L) and an igniter (14) for lighting activation. The igniter (14) is composed of a backflow prevention diode (20), which is connected at an input side thereof to an output side of the ballast (12), while being connected at an output side thereof to the discharge lamp (L), and a high voltage circuit (22) that is connected to the output side of the backflow prevention diode (20) and outputs a direct-current high voltage to be applied to the discharge lamp (L) in the lighting activation.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023

(21) Application No.202324068360 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIFTING POINT

(51) International classification	:B66C0001660000, A61F0002640000, F16C0011100000, A47J0043070000, B60N0002220000
(31) Priority Document No	:20 2022 105 774.5
(32) Priority Date	:12/10/2022
(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

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(72)**Name of Inventor :**
1)Jörg Wirtz
2)Jörg Sokolla
3)Martin Haverkamp

(57) Abstract :
ABSTRACT LIFTING POINT An attachment point 1 is described, which comprises a lower part 3 having a threaded bolt as connection means for connecting the attachment point 1 to an object 47 to be handled with it and with an upper part 2 which can be rotated relative to the lower part 3 and is connected to it and has a connecting element for connecting a lifting, attachment or lashing means, wherein, for mounting the upper part 2 relative to the lower part 3, one of the two parts 2 as an outer bearing part encloses at least one axial portion of the other part 3 as an inner bearing part, which attachment point 1 is provided with coupling means 36 for torque-locking coupling of the upper part 2 with the lower part 3 for the purpose of tool-free connection of the attachment point 1 to an object 47 to be handled with it, the coupling means 36 being a radially adjustable coupling bolt 37 held in the outer bearing part 2 and on the side of the inner bearing part 3 at least one rotary driving contour 16 accessible in the radial direction and acting in the circumferential direction is provided, with which rotary driving contour 16 the actuated coupling bolt 37 is engaged with a coupling portion 49 to bring about the torque-locking coupling of the upper part 2 and lower part 3. A special feature is that at least one restoring element 38 acts on the coupling bolt 37 in such a way that, in order to bring about a torque-locked coupling of the upper part 2 and the lower part 3, the coupling bolt 37 can be moved against the force of the at least one restoring element 38 and, when the coupling bolt 37 is not actuated, the upper part 2 is freely rotatable relative to the lower part 3.

No. of Pages : 27 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022

(21) Application No.202221058031 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A MECHANICAL LOCK SYSTEM

(51) International classification	:G07C0009000000, G06F0021570000, E05B0047000000, E05B0047060000, E05B0065462000	(71)**Name of Applicant :** **1)Kamalesh Kumar** Address of Applicant :S/o Madan Lal, 80, Shukkarwada Kalan, Babai, Hoshangabad, Madhya Pradesh India – Pin 461661 Babai Madhya Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)Kamalesh Kumar**
(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 mechanical lock system which can open when a secure code is entered in sequential order. The mechanical lock system evaluates the sequence order of each digit or character of the secure code. The mechanical lock system comprises digit or character keys on a keypad and a latch to unlock the object which are surfaced on the upper surface, coding pins and locking-unlocking pins housed inside a lock assembly which is located inside a body of the lock system, a reset knob integrated with the lock assembly and surfaced on the upper surface, and multiple shafts present inside the body of the lock system which enables locking and unlocking of the object. Fig. 1 is the mechanical lock system of the present invention.

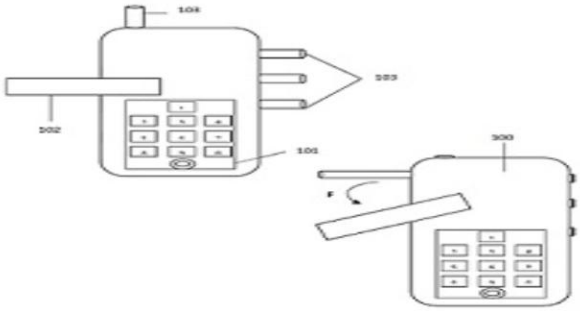


Fig 1

No. of Pages : 25 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058201 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD FOR SIGHTING KEEL AND DRAUGHT MARKING IN SHIPS

(51) International classification	:B63B0039120000, A61K0035020000, H04L0009060000, B67D0001080000, B63B0041000000
(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)Mazagon Dock Shipbuilders Limited
Address of Applicant :Dockyard Road, Mazgaon, Mumbai-400010, Maharashtra, India. Mumbai Maharashtra India
(72)**Name of Inventor :**
1)SINHA, Nitesh nath
2)PANDEY, Brijesh

(57) Abstract :
The present invention relates to an improved method of sighting keel and draught marking in ships. The method involves determining a geometrical mean of the keel plate 11 thickness across the length of a ship 10, transferring the geometrical mean of the keel plate 11 from aft 10A and fore 10B of the block to a fixed pillar 12 outside a ship 10 upon placement of the first block on the slipway and extrapolating along the length of a ship 10 on both sides while considering the slope of the slipway. Moreover, this method provides flexibility by allowing draught marks to be positioned independently of loading conditions, making it adaptable and efficient for shipbuilding processes.

No. of Pages : 11 No. of Claims : 2

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058221 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR SAFE STORAGE, SEPARATION, AND RECYCLING OF COMPONENTS FROM EMISSIONS AND EFFLUENTS

(51) International classification	:B01J0020060000, B29B0017020000, G06K0009620000, B01J0020080000, B01D0053140000	(71)**Name of Applicant :** **1)PRERNA GORADIA** Address of Applicant :1101 OPTIONS EMPORIO, SV ROAD, VILE PARLE WEST, MUMBAI 400056, MAHARASHTRA, INDIA MUMBAI Maharashtra India
(31) Priority Document No	:NA	(72)**Name of Inventor :** **1)PRERNA GORADIA**
(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 SYSTEM AND METHOD FOR SAFE STORAGE, SEPARATION, AND RECYCLING OF COMPONENTS FROM EMISSIONS AND EFFLUENTS The present invention discloses a filtering cartridge for storage and separation of gases from chamber emissions. The invention further discloses a method to separate the waste streams of gases from the effluents on the basis of physical properties such as polarity, thermal stability, molecular weight, molecular size and others. The toxic components from the effluent are safely stored and recycled, and high-pressure storage of gases is avoided and they are stored at or below atmospheric pressure. [FIGURE 3]]

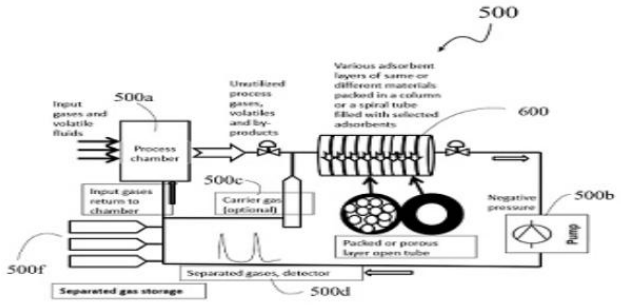


FIGURE 3

No. of Pages : 49 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202221058242 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : READY TO USE ANTIBIOTIC SOLUTION FOR VETERINARY USE

(51) International classification	:A61P0029000000, A61K0039000000, A61P0017000000, A61P0001000000, A61K0009080000	(71)**Name of Applicant :** **1)TRIPATHI, Vinay Shankar** Address of Applicant :K23, New Ranibag, Khandwa Road, Indore-453920, Madhya Pradesh, India Indore Madhya Pradesh India
(31) Priority Document No	:NA	(72)**Name of Inventor :**
(32) Priority Date	:NA	**1)TRIPATHI, Vinay Shankar**
(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 to ready to use antibiotic parenteral solution for veterinary use. Particularly, the invention discloses antibiotic parenteral solution prepared in large volume which can be administered in various dosages.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070064 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HIGH SPRING FORCE SHUTTER FOR DYNAMIC SHADE, AND/OR ASSOCIATED METHODS

(51) International classification	:E06B 9/264, E06B 9/40, E06B 3/67, C23C 14/00, C23C 14/08
(31) Priority Document No	:17/232406
(32) Priority Date	:16/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2022/052329
Filing Date	:15/03/2022
(87) International Publication No	:WO 2022/219428
(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)GUARDIAN GLASS, LLC
Address of Applicant :2300 Harmon Road Auburn Hills, Michigan 48326 U.S.A.
(72)**Name of Inventor :**
1)BLUSH, Jason
2)HORN, Lindsay
3)PETRMICHL, Rudolph
4)FINCH, Joshua

(57) Abstract :
Certain example embodiments relate to electric, potentially-driven shades usable with insulating glass (IG) units, IG units including such shades, and/or associated methods. In such a unit, a dynamic shade is located between the substrates defining the IG unit, and is movable between retracted and extended positions. The dynamic shade includes on-glass layers including a transparent conductor and an insulator or dielectric film, as well as a shutter. The shutter includes a resilient polymer-based layer and layers on opposing surfaces thereof. A first voltage is applied to the transparent conductors to cause the shutter to extend to a closed position.

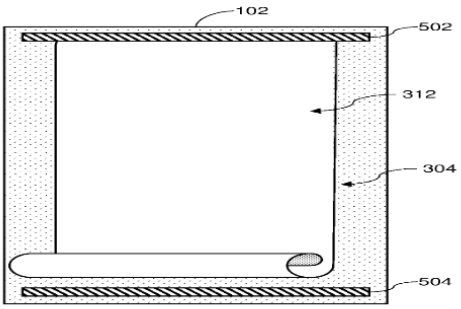


Fig. 5

No. of Pages : 34 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023

(21) Application No.202327068365 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VIDEO ANALYSIS PROGRAMME

(51) International classification :H04N 7/15
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2021/012360
Filing Date :24/03/2021
(87) International Publication No :WO 2022/201383
(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)I'MBESIDEYOU INC.
Address of Applicant :15F Toranomon Hills Business Tower, 1-17-1, Toranomon, Minato-ku, Tokyo 1056415 Japan
(72)**Name of Inventor :**
1)KAMIYA Shozo

(57) Abstract :
[Problem] To objectively evaluate online communications such as meetings and lectures, which have become mainstream, in order to carry out communication more efficiently. [Solution] A system of the present disclosure comprises: a video acquisition unit that acquires a video obtained by videoing participants during an online session; an analysis unit that analyzes changes in the biological reactions of the participants on the basis of the video acquired by the video acquisition unit; a target reading unit that reads target information relating to the analysis result; and an evaluation unit that carries out an evaluation by comparing the read target information and the analysis result for the participants.

FIGURE OF ABSTRACT

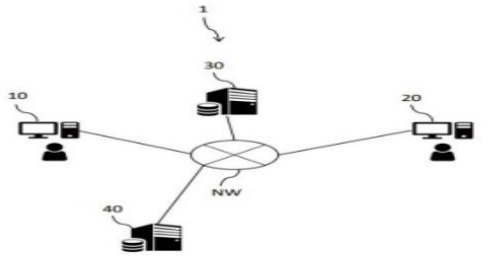


FIG. 1

No. of Pages : 25 No. of Claims : 4

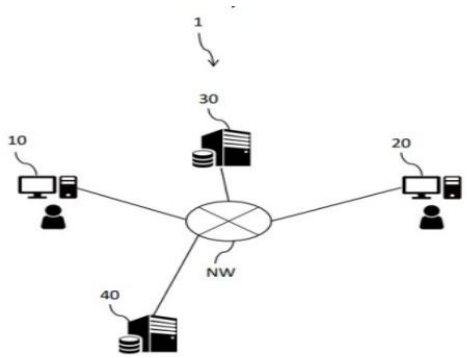
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023
(21) Application No.202327068366 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VIDEO ANALYSIS PROGRAM

(51) International classification :H04N 7/15
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/JP2021/011818
Filing Date :22/03/2021
(87) International Publication No :WO 2022/201273
(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)I'MBESIDEYOU INC.
Address of Applicant :15F Toranomon Hills Business Tower, 1-17-1, Toranomon, Minato-ku, Tokyo 1056415 Japan
(72)**Name of Inventor :**
1)KAMIYA Shozo

(57) Abstract :
[Problem] To objectively evaluate online communications such as meetings and lectures, which have become mainstream, in order to carry out communication more effectively. [Solution] A system of the present disclosure comprises: a video acquisition unit that acquires a video obtained by videoing participants during an online session; an analysis unit that analyzes changes in biological reactions of the participants on the basis of the video acquired by the video acquisition unit; a person identification unit that identifies a person included in the video; and an assessment unit that assesses the identified person.



No. of Pages : 25 No. of Claims : 4

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068535 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND APPARATUS FOR CONFIGURING INTRA-SLOT TIME-DIVISION MULTIPLEXED TRANSPORT BLOCKS

(51) International classification :H04W 72/02, H04L 5/00, H04L 1/18
(31) Priority Document No :17/343436
(32) Priority Date :09/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/071833
Filing Date :21/04/2022
(87) International Publication No :WO 2022/261583
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)XUE, Yisheng
2)ZHANG, Xiaoxia
3)SUN, Jing
4)LIU, Chih-Hao

(57) Abstract :
Aspects of the present disclosure include methods, apparatuses, and computer readable media for configuring, in a slot, a low-latency transport block (TB) occupying one or more first temporal resources, a non-low-latency TB occupying one or more second temporal resources different from the one or more first temporal resources, and control information occupying at least a portion of the one or more first temporal resources, wherein the low-latency TB and the non-low-latency TB are time division multiplexed, and transmitting the low-latency TB and the non-low-latency TB via a physical sidelink shared channel (PSSCH) and the control information via a physical sidelink control channel (PSCCH) to one or more peer UEs.

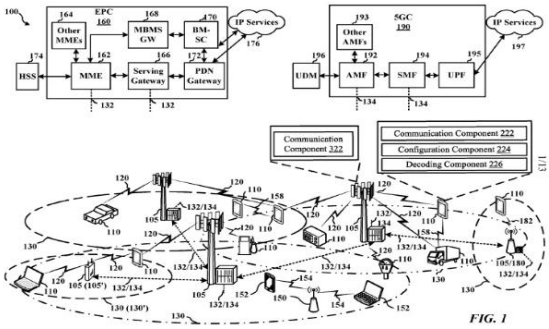


FIG. 1

No. of Pages : 48 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068605 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIQUID EGG-SUBSTITUTE COMPOSITION AND THERMALLY COAGULATED PRODUCT

(51) International classification	:A23J 1/14, A23J 3/00
(31) Priority Document No	:2021-073288
(32) Priority Date	:23/04/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/016551
Filing Date	:31/03/2022
(87) International Publication No	:WO 2022/224796
(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)KEWPIE CORPORATION
Address of Applicant :4-13, Shibuya 1-chome, Shibuya-ku, Tokyo 1500002 Japan
(72)**Name of Inventor :**
1)ISOBE, Kazuhiro
2)SUZUKI, Takahisa
3)SHIRAISHI, Atsushi

(57) Abstract :
A liquid egg-substitute composition according to the present invention contains curdlan and protein extracted from almond. The contained amount of the protein from almond is 1-15 mass%.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068627 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : GAS LIFT SYSTEM AND METHOD

(51) International classification	:E21B 43/12, E21B 34/08, F04F 1/20, F16K 31/122, F16K 31/126	(71)**Name of Applicant :** **1)SAM AND GAIL LLC** Address of Applicant :26860 Iron Squire Drive Kingwood, TX 77339 U.S.A.
(31) Priority Document No	:63/167297	(72)**Name of Inventor :**
(32) Priority Date	:29/03/2021	**1)WILDMAN, SR., Samuel, Levern**
(33) Name of priority country	:U.S.A.	**2)WILDMAN, William, Durell**
(86) International Application No	:PCT/US2022/022274	**3)WILDMAN, Maxwell, Ryan**
Filing Date	:29/03/2022	
(87) International Publication No	:WO 2022/212320	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A gas lift system for lifting oil with a production tube positioned inside a well casing with manifolds in the production tube spaced apart from each other; the system including valve assemblies on the manifolds that each have an open position and a closed position, each of the valve assemblies including a biasing device that biases the valve towards the closed position, where pressurizing each valve assembly with a control fluid generates a force that acts against the biasing force of the biasing device to open the valve, and a means to selectively control the pressure of the control fluid in the control line, where each of the valve assemblies includes different biasing forces in each valve, with a topmost valve having a highest biasing force and each sequentially lower valve having a lower biasing force. A method for using the gas lift system is also included.

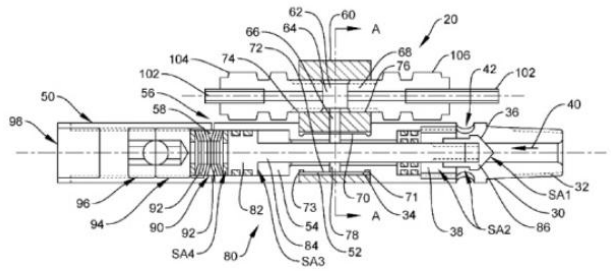


FIG. 4

No. of Pages : 17 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070107 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TIDAL BARRAGE

(51) International classification	:E02B 7/20, E02B 9/08, F03B 13/08, F03B 13/26
(31) Priority Document No	:2104198.3
(32) Priority Date	:25/03/2021
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2022/050730
Filing Date	:23/03/2022
(87) International Publication No	:WO 2022/200789
(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)VERDERG LIMITED
Address of Applicant :Sundial House 98 High Street Horsell Woking Surrey GU21 4SU U.K.
(72)**Name of Inventor :**
1)ROBERTS, Peter

(57) Abstract :
A tidal barrage comprising: a plurality of spaced towers, a plurality of barriers for controlling water flow through the barrage between the towers, and one or more turbine devices, wherein the towers comprise at least first, second and third towers, wherein the first tower is located between the second and third towers and houses one or more of the turbines, wherein one or more first barriers are provided between the first and second towers, and one or more second barriers are provided between the first and third towers, wherein the barriers are configured so that when the one or more first barriers and the one or more second barriers are in a first configuration, a first flow path through the barrage is defined from a first side of the barrage to a second side of the barrage, and when the one or more first barriers and the one or more second barriers are in a second configuration, a second flow path through the barrage is defined from the second side of the barrage to the first side of the barrage, and water flowing through the first and second flow paths flows through the one or more turbines housed in the first tower in the same direction, wherein one or more of the barriers comprises a water impervious flexible membrane, a buoyancy member; and one or more tethers.

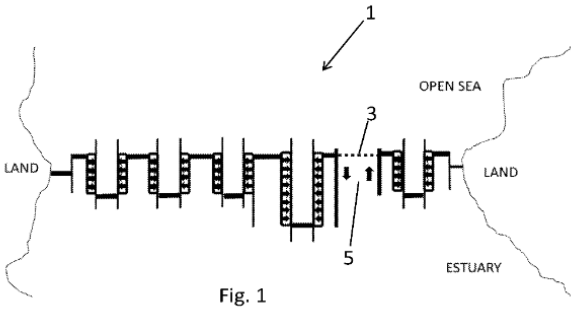


Fig. 1

No. of Pages : 25 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070158 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISCOVERY OF RECONFIGURABLE SURFACES

(51) International classification :H04B 7/026
(31) Priority Document No :17/362609
(32) Priority Date :29/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034728
Filing Date :23/06/2022
(87) International Publication No :WO 2023/278245
(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)QUALCOMM INCORPORATED
Address of Applicant :5775 Morehouse Drive ATTN: International IP Administration San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)NAM, Wooseok
2)DAI, Yucheng
3)LUO, Tao
4)GAAL, Peter
5)AKKARAKARAN, Sony
6)LI, Junyi

(57) Abstract :
Methods, systems, and devices for wireless communications are described. During an operation for discovering reconfigurable surfaces, a sensing signal may be transmitted. Based on the sensing signal being transmitted, another signal may be detected at the device that transmitted the sensing signal, another device, or both. The device that detects the signal may combine the detected signal with a modulation sequence that is associated with a reconfigurable surface, where the reconfigurable surface may be assigned a set of unique modulation sequences and configured to apply a modulation sequence to received signals. Based on combining the detected signal with the modulation sequence, the device may determine whether the reconfigurable surface is present within a geographic region.

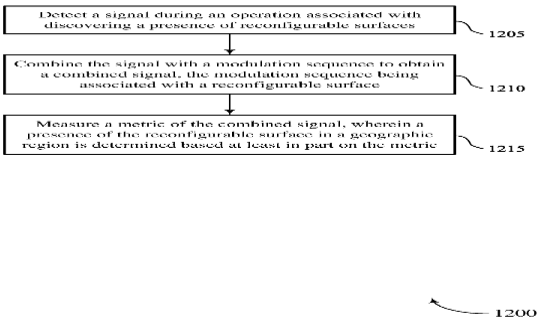


FIG. 12

No. of Pages : 57 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070199 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIQUID COOLED BOBBIN FOR A WIRE WOUND MAGNETIC DEVICE

(51) International classification :H01F 5/02, H01F 27/32, H01F 27/10, H02K 9/19
(31) Priority Document No :21382213.3
(32) Priority Date :17/03/2021
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2022/054839
Filing Date :25/02/2022
(87) International Publication No :WO 2022/194517
(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)PREMO, SL
Address of Applicant :Calle Severo Ochoa, 47 29590 Campanillas, Málaga Spain
(72)**Name of Inventor :**
1)CAÑETE CABEZA, Claudio
2)ROJAS CUEVAS, Antonio
3)NAVARRO PÉREZ, Francisco Ezequiel
4)ARIZA BAQUERO, Miguel Ángel

(57) Abstract :
A liquid cooled bobbin for a wire wound magnetic device comprises an electro-insulating bobbin (20) with a first outer surface (21) of a closed contour, therearound, for supporting at least one first conductor wire winding (DX) wound around a first axis (X) defined by the electro-insulating bobbin (20), and a chamber (30) within the electro-insulating bobbin (20), the chamber being integrable to a sealed cooling circuit through connection ports (31) allowing a path of a cooling liquid through the chamber (30). The chamber (30) is comprised between two parallel walls (32, 33) of the electro-insulating bobbin (20), one of said walls (32, 33) providing the first outer surface (21), and the chamber (30) extends at least around most of said closed contour of the first outer surface (21). A liquid cooled wire wound magnetic device is also provided as well as a set of magnetic devices interconnected to a cooling circuit.

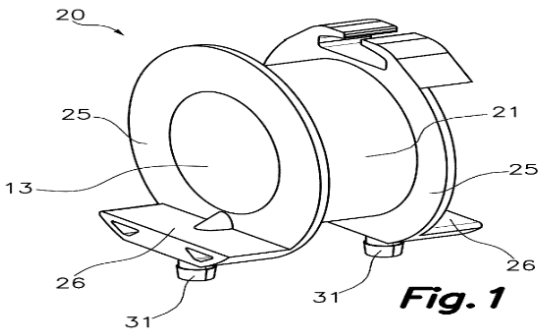


Fig. 1

No. of Pages : 19 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

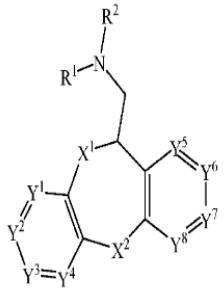
(21) Application No.202327070200 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TAAR1 AND SEROTONIN MODULATORS, AND PHARMACEUTICAL COMPOSITIONS, AND METHODS OF USE THEREOF

(51) International classification	:A61K 31/335, A61K 31/357, C07D 313/10, C07D 313/12, A61K 31/4353
(31) Priority Document No	:63/173368
(32) Priority Date	:10/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/071613
Filing Date	:08/04/2022
(87) International Publication No	:WO 2022/217265
(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)SUNOVION PHARMACEUTICALS INC.
Address of Applicant :84 Waterford Drive Marlborough, MA 01752 U.S.A.
(72)**Name of Inventor :**
1)HODGETTS, Kevin, Julian
2)XIE, Linghong

(57) Abstract :
Provided herein is a compound of Formula (I): or a pharmaceutically acceptable salt thereof, wherein values for the variables (e.g., R1, R2, X1, X2, Y1, Y2, Y3, Y4, Y5, Y6, Y7, and Y8) are as disclosed herein. Also provided herein are pharmaceutical compositions comprising a compound of Formula (I), or a pharmaceutically acceptable salt thereof, and methods of using the compounds, pharmaceutically acceptable salts thereof and pharmaceutical compositions of the foregoing, e.g., to treat a neurological or psychiatric disease or disorder.



(I)

No. of Pages : 228 No. of Claims : 51

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023

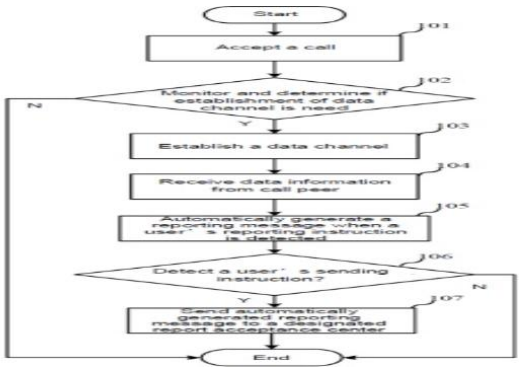
(21) Application No.202327068628 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR REPORTING MALICIOUS CALL, TERMINAL, ELECTRONIC DEVICE, AND STORAGE MEDIUM

(51) International classification	:H04M 1/725, H04M 3/42
(31) Priority Document No	:202110898019.2
(32) Priority Date	:05/08/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/099897
Filing Date	:20/06/2022
(87) International Publication No	:WO 2023/011024
(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)ZTE CORPORATION
Address of Applicant :ZTE Plaza Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(72)**Name of Inventor :**
1)YANG, Haicheng
2)ZHOU, Jinxing

(57) Abstract :
A method for reporting a malicious call, a terminal, an electronic device, and a computer storage medium. The method comprises: receiving data information sent by a peer end of a call; if a reporting instruction of a user is detected, automatically generating a reporting message, the reporting message carrying at least part of the data information; and sending the reporting message to a designated report receiving center.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068629 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHYSICAL BROADCAST CHANNEL (PBCH) RESOURCE ALLOCATION FOR REDUCED BANDWIDTH DEVICES

(51) International classification :H04L 5/00
(31) Priority Document No :17/357654
(32) Priority Date :24/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072850
Filing Date :09/06/2022
(87) International Publication No :WO 2022/272211
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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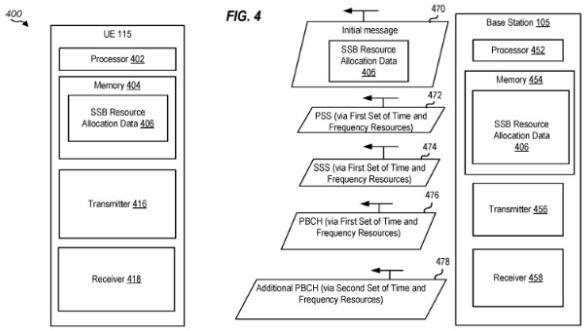
(72)**Name of Inventor :**
1)KWAK, Yongjun
2)LY, Hung Dinh
3)LEI, Jing
4)KIM, Yuchul
5)KWON, Hwan Joon

(57) Abstract :
This disclosure provides systems, methods, and devices for wireless communication that support allocation of resources for a physical broadcast channel (PBCH) for reduced bandwidth devices. In a first aspect, a method includes monitoring, by a user equipment (UE) configured for reduced bandwidth operation, at least a subset of a first set of time and frequency resources allocated to a synchronization signal block (SSB) for UEs configured for non-reduced bandwidth operation. The SSB includes synchronization signals and a PBCH. The method includes monitoring, by the UE, a second set of time and frequency resources allocated to the PBCH for UEs configured for reduced bandwidth operation. The method includes receiving, by the UE, the synchronization signals and the PBCH within at least the subset of the first set of time and frequency resources and the second set of time and frequency resources. Other aspects and features are also claimed and described.



No. of Pages : 49 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068699 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WINDOW CUTTING TOOL FOR MULTI-FIBER CABLE

(51) International classification :G02B 6/44
(31) Priority Document No :63/169195
(32) Priority Date :31/03/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/022968
Filing Date :31/03/2022
(87) International Publication No :WO 2022/212800
(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)PPC BROADBAND FIBER LTD.
Address of Applicant :Station Road, The Technology Centre Framlingham, Woodbridge IP13 9EZ U.K.
(72)**Name of Inventor :**
1)ETHERIDGE, Harvey
2)TREZISE, Shaun

(57) Abstract :
A window cutting tool (100) includes a first body (110), a second body (120) configured to be pivotally coupled with the first body (110) between an open configuration and a closed configuration, and a blade carriage (140) configured to carry a blade (150) and to be slidingly coupled with at least one of the first body (110) and the second body (120). At least one of the first body (110) and the second body (120) is configured to guide sliding movement of the blade carriage (140) relative to the first body (110) and the second body (120) in a longitudinal direction. The first body (110) and the second body (120) are configured to expose a portion of a multi-fiber cable (190) to the blade carriage (140) when the first body (110) and the second body (120) are in the closed configuration. The blade (150) is configured to cut through a jacket of the multi-fiber cable (190) without damaging an individual fiber within the multi-fiber cable (190) to form a window that is configured to allow a technician to access the individual fiber within the multi-fiber cable.

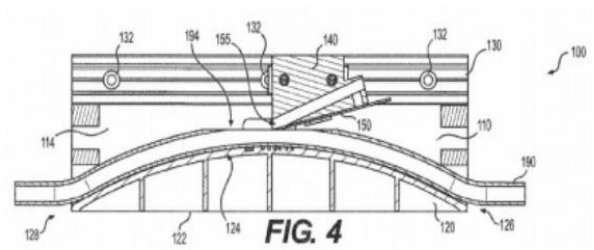


FIG. 4

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068700 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD, APPARATUS, AND SYSTEM FOR TRANSMITTING HARQ-ACK CODEBOOK IN WIRELESS COMMUNICATION SYSTEM

(51) International classification :H04L 1/18, H04L 5/00, H04W 72/12, H04W 72/04
(31) Priority Document No :10-2021-0042384
(32) Priority Date :31/03/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/004667
Filing Date :31/03/2022
(87) International Publication No :WO 2022/211557
(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)WILUS INSTITUTE OF STANDARDS AND TECHNOLOGY INC.
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(72)**Name of Inventor :**
1)CHOI, Kyungjun
2)NOH, Minseok
3)SEOK, Geunyoung
4)KWAK, Jinsam

(57) Abstract :
The present invention relates to a wireless communication system and, more particularly, to a method comprising the steps of: receiving a PDCCH for multi-slot scheduling; determining a PDSCH candidate for each slot on the basis of information in the PDCCH; and transmitting a semi-static HARQ-ACK codebook on the basis of the determined PDSCH candidate of each slot, and to an apparatus therefor.

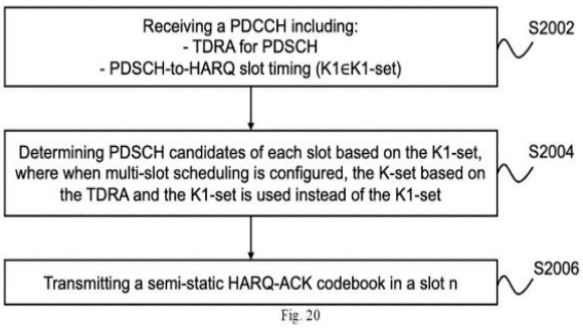

Fig. 20

No. of Pages : 111 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068725 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENHANCED REESTABLISHMENT PROCEDURE IN INTEGRATED ACCESS AND BACKHAUL NODES

(51) International classification :H04W 36/12
(31) Priority Document No :17/350722
(32) Priority Date :17/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072353
Filing Date :16/05/2022
(87) International Publication No :WO 2022/266568
(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)AKL, Naeem
2)HAMPEL, Karl Georg
3)ABEDINI, Navid
4)LUO, Jianghong
5)LI, Junyi
6)LUO, Tao

(57) Abstract :
Example aspects include a method, apparatus, and computer-readable medium for network-triggered reestablishment by a network node of a wireless communication network, comprising transmitting, to a user equipment (UE) in a connected state with a first central unit (CU), an indication to perform a radio resource control (RRC) reestablishment procedure with a second CU. The indication comprises a reestablishment cell identifier. The aspects further include performing the RRC reestablishment procedure with the UE to transfer the UE from the first CU to the second CU using the reestablishment cell identifier.

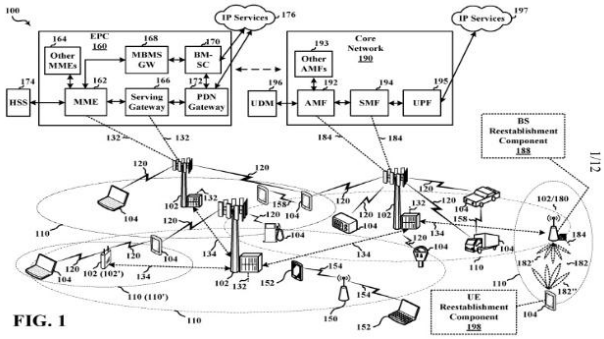

FIG. 1

No. of Pages : 54 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070201 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW PROFILE CONNECTION FOR PRESSURE CONTAINMENT DEVICES

(51) International classification :E21B 33/06, E21B 33/064
(31) Priority Document No :17/227808
(32) Priority Date :12/04/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/071600
Filing Date :07/04/2022
(87) International Publication No :WO 2022/221819
(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 OILFIELD OPERATIONS LLC
Address of Applicant :17021 Aldine Westfield Road Houston, Texas 77073 U.S.A.
(72)**Name of Inventor :**
1)GUSTAFSON, Ryan

(57) Abstract :
An annular blowout preventer (BOP). The annular BOP includes an annular housing having a base. The base includes a plurality of fasteners extending from an interior of the housing to an exterior of the housing via fastener holes formed through the connector base. The annular BOP further includes a seal plate positioned at least partially adjacent interior ends of the plurality of fastener. The annular BOP further includes an annular elastomeric element positioned within the interior of the housing and an annular piston positioned within the interior of the housing. The piston, when driven towards the elastomeric element, deforms the elastomeric element and forces the elastomeric element to constrict radially inward.

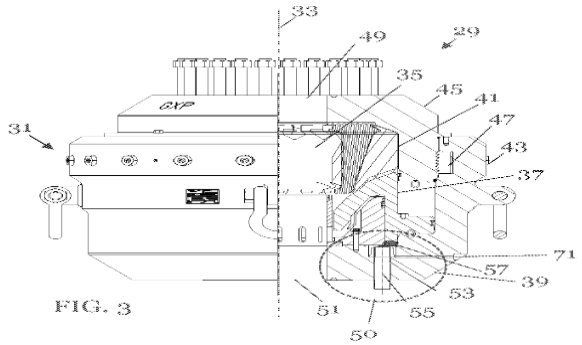

FIG. 3

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327070204 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTICORROSIVE COMPOSITION

(51) International classification	:C23F 11/08, C03C 25/007, C03C 13/06, F16L 58/04, C04B 28/26	(71)**Name of Applicant :** **1)ROCKWOOL A/S** Address of Applicant :Hovedgaden 584 2640 Hedehusene Denmark
(31) Priority Document No	:21164922.3	(72)**Name of Inventor :**
(32) Priority Date	:25/03/2021	**1)HAMZA, Osama**
(33) Name of priority country	:EPO	**2)MATTSSON, Rikke**
(86) International Application No	:PCT/EP2022/057838	**3)PAULSEN, Andreas Lundtang**
Filing Date	:24/03/2022	**4)HANSEN, Mikkel Østergaard**
(87) International Publication No	:WO 2022/200535	
(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 anticorrosive composition and the use of such a composition for imparting anticorrosive properties to a material, and a material comprising such a composition.

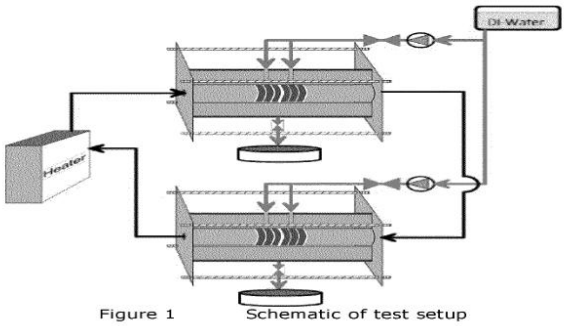

Figure 1 Schematic of test setup

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327070205 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification :H04W 72/12
(31) Priority Document No :202110506605.8
(32) Priority Date :10/05/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/087666
Filing Date :19/04/2022
(87) International Publication No :WO 2022/237468
(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)HOU, Hailong
2)JIN, Zhe
3)LUO, Zhihu
4)QU, Weilin

(57) Abstract :
Provided in the present application are a communication method and apparatus, by means of which the problem of transmission errors occurring when a network device schedules, when being uncertain about the type of a terminal device, some uplink channels involved in a random access process is solved. The method comprises: sending configuration information of a first initial uplink BWP to a first terminal device, and sending configuration information of a second initial uplink BWP to a second terminal device, wherein the first terminal device is a first-type terminal device, and the second terminal device is a second-type terminal device; and sending first information to the first terminal device, and/or sending the first information to the second terminal device, wherein a first frequency-domain resource indicated by the first information is within a frequency-domain range of the first initial uplink BWP, and the first frequency-domain resource is used for the first terminal device to send Msg3; and a second frequency-domain resource indicated by the first information is within a frequency-domain range of the second initial uplink BWP, and the second frequency-domain resource is used for the second terminal device to send Msg3.

FIG. 2

No. of Pages : 39 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327070234 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A VALVE FOR PRESSURIZED FLUIDS

(51) International classification	:F16K 1/30, F16K 31/524
(31) Priority Document No	:102021000015410
(32) Priority Date	:11/06/2021
(33) Name of priority country	:Italy
(86) International Application No	:PCT/IB2022/055299
Filing Date	:07/06/2022
(87) International Publication No	:WO 2022/259148
(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)NICOLINI, Giancarlo
2)ZACCHE', Vanni

(57) Abstract :
A valve comprising a valve body having an outflow pipe and comprising a valve seat which defines a first zone of the outflow pipe upstream of the valve seat and a second zone downstream of the valve seat, and a cam follower which is capable of moving with respect to the valve seat along an axis X between an open position, at least one partially open position and a closed position, and comprising a valve head which is capable of moving into abutment in a fluid-tight manner against an abutment surface of the valve seat, a rod which is fixedly joined to the valve head, in such a manner that there is defined a through-opening between a lateral surface of the rod and a corresponding internal surface of the valve seat which faces the lateral surface of the rod, characterized in that the through- opening is equal to a first value A when the cam follower is in the at least one partially open position and is equal to a second value B when the cam follower is in an open position, with BA.

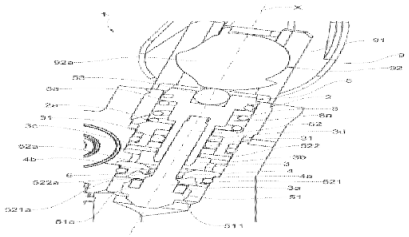

Fig. 2

No. of Pages : 24 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070257 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : END COVER ASSEMBLY, BATTERY CELL, BATTERY, AND POWER CONSUMING DEVICE

(51) International classification :H01M 50/188
(31) Priority Document No :202122633976.0
(32) Priority Date :29/10/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/073581
Filing Date :24/01/2022
(87) International Publication No :WO 2023/070970
(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)XU, Hu

(57) Abstract :
Provided in the present application are an end cover assembly, a battery cell, a battery, and a power consuming device, which belong to the technical field of batteries. The end cover assembly comprises an end cover, an electrode post, a first separator, a second separator, and an insulating member. The end cover is provided with a mounting hole, the mounting hole penetrating the end cover in a thickness direction of the end cover. The electrode post comprises a main body section which is arranged in the mounting hole in a penetrating manner. In the thickness direction of the end cover, the first separator and the second separator are respectively arranged on two sides of the end cover, and are used for insulating and isolating the end cover and the electrode post in a cooperating manner. The insulating member covers the main body section in a circumferential direction of the main body section, and the insulating member is used for blocking the main body section from making contact with a conductive medium entering the mounting hole. In the thickness direction of the end cover, gaps are formed at positions of the first separator and the second separator opposite the mounting hole, and two ends of the insulating member extend beyond the gaps. With such a configuration, the end cover assembly can reduce the phenomenon of current conduction between the electrode post and the end cover, which is advantageous for reducing the risk of short circuiting of the battery cell and the potential safety hazard of electric corrosion of the shell.

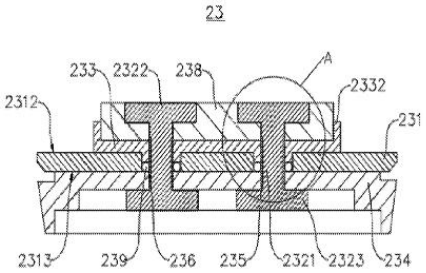

图6

No. of Pages : 31 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068736 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TEMPERATURE CONTROL SYSTEM FOR SOLID OXIDE CELLS AND METHOD OF ITS USE

(51) International classification	:H01M 8/0258, H01M 8/0267, H01M 8/12
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/FI2021/050303
Filing Date	:21/04/2021
(87) International Publication No	:WO 2022/223870
(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)ELCOGEN OY
Address of Applicant :Niittyvillankuja 4 01510 VANTAA Finland
(72)**Name of Inventor :**
1)NOPONEN, Matti

(57) Abstract :
An object of the invention is a temperature control system for solid oxide cells, a cell comprising a fuel side (100), an oxygen rich side (102), and an electrolyte element (104) between the fuel side and the oxygen rich side and the system comprising a repetitious unit structure for the solid oxide cells. The temperature control system comprises a fuel flow field plate structure (107) for fuel, an oxidant flow field plate structure (109) for oxidant, electric contacting structures (110) for the fuel and the oxidant and a temperature control fluid structure (112) in a flow field plate (121) for a temperature control fluid. The temperature control fluid structure (112) is located in the flow field plate (121) separately between the fuel flow field plate structure (107) and the oxidant flow field plate structure (109). The temperature control system comprises sealing structures (114) to prevent leakages in the structures (104, 107, 109, 110, 112) and means (116) for controlling operation temperature in the solid oxide cells.

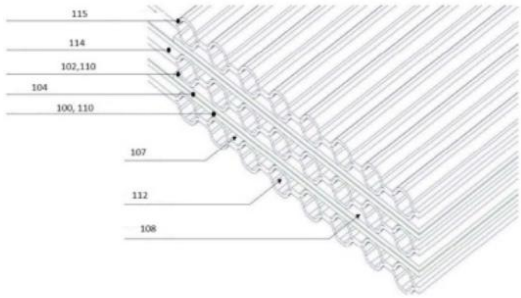

Fig. 3

No. of Pages : 25 No. of Claims : 6

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068739 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR APPLYING FIBER-REINFORCED PLASTIC SLEEVES

(51) International classification	:B29C 70/84, B29C 70/56, B29C 45/14, H02K 1/2726, H02K 1/2733	(71)**Name of Applicant :** **1)ALBANY ENGINEERED COMPOSITES, INC.** Address of Applicant :112 Airport Drive Rochester, NH 03867 U.S.A.
(31) Priority Document No	:63/178781	(72)**Name of Inventor :**
(32) Priority Date	:23/04/2021	**1)FUNCK, Ralph**
(33) Name of priority country	:U.S.A.	**2)JUNG, Jens**
(86) International Application No	:PCT/US2022/025430	**3)WELSCH, Martin**
Filing Date	:19/04/2022	
(87) International Publication No	:WO 2022/225990	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Disclosed is a method of pretensioning a fiber-reinforced plastic (FRP) sleeve (110) surrounding an assembly, comprising disposing the assembly within the FRP sleeve (110), the assembly having at least two parts; introducing a molding compound into at least one portion within the FRP sleeve to urge one of the at least two parts of the assembly toward an inner surface of the FRP sleeve, the molding compound introduced at a desired first pressure (P), first temperature (T), and first mass flow (rh); and pretensioning the FRP sleeve by hardening the molding compound while maintaining the first pressure. The method includes application of pretensioning FRP sleeves surrounding a permanent magnet rotor with surface magnets (112, 122).

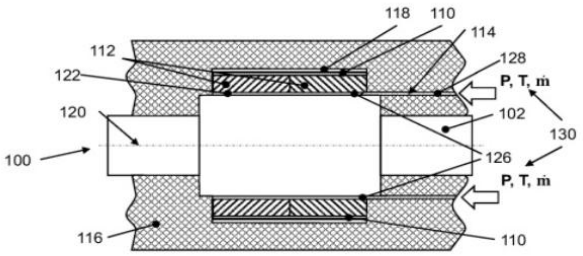

FIG. 1B

No. of Pages : 12 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068771 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DYNAMIC RATE MATCHING PATTERNS FOR SPECTRUM SHARING

(51) International classification	:H04L 5/00, H04W 72/00, H04L 1/00, H04L 27/26
(31) Priority Document No	:17/343635
(32) Priority Date	:09/06/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/032562
Filing Date	:07/06/2022
(87) International Publication No	:WO 2022/261137
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)YANG, Ming
2)RAY CHAUDHURI, Kausik
3)MONTOJO, Juan

(57) Abstract :
Methods, systems, and devices for dynamic rate matching patterns for spectrum sharing are described. In some examples, a user equipment (UE) may measure one or more interference levels associated with resources of a physical resource block (e.g., interference levels associated with respective subcarriers or other division in the frequency domain, with respective symbol durations or other division in the time domain, or a combination thereof), and determine a rate matching pattern based on the interference level measurements. In some examples, the rate matching pattern may include a pattern of resources for communications between the UE and a base station (e.g., for downlink communications). The UE may transmit an indication of the rate matching pattern to the base station, and the base station may schedule or transmit one or more subsequent downlink transmissions based at least in part on the indication of the rate matching pattern received from the UE.

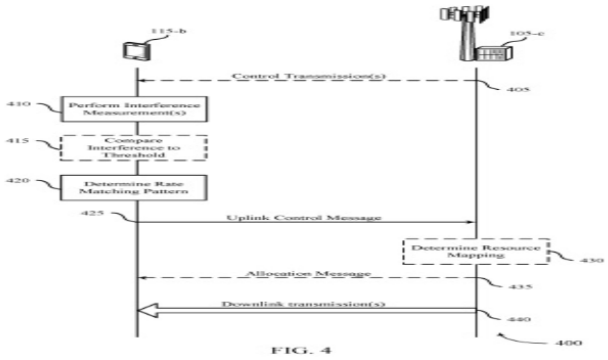


FIG. 4

No. of Pages : 65 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2023
(21) Application No.202327068787 A
(43) Publication Date : 19/04/2024

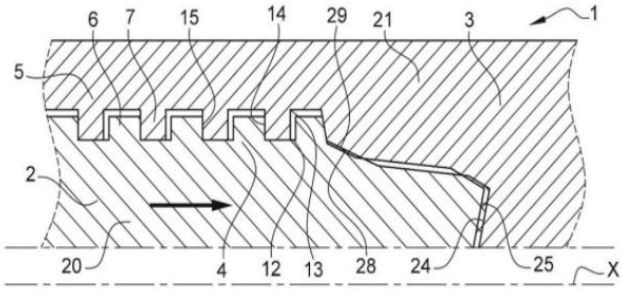
(54) Title of the invention : SIZING A THREAD AXIAL CLEARANCE

(51) International classification :E21B 17/042, F16L 15/06
(31) Priority Document No :FR2103327
(32) Priority Date :31/03/2021
(33) Name of priority country :France
(86) International Application No :PCT/FR2022/050508
Filing Date :21/03/2022
(87) International Publication No :WO 2022/207995
(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)VALLOUREC OIL AND GAS FRANCE
Address of Applicant :54 rue Anatole France 59620 AULNOYE-AYMERIES France
2)NIPPON STEEL CORPORATION
(72)**Name of Inventor :**
1)MATHON, Thibault
2)BOUFFLERS, Laurent
3)LUONGO, Matthieu

(57) Abstract :
The invention relates to a tubular threaded seal (1) for drilling, the exploitation of hydrocarbon wells, the transport of petroleum and gas, carbon capture or geothermal energy, comprising a male tubular element (2) and a female tubular element (3), each of said male tubular element (2) and female tubular element (3) respectively comprising a male threaded portion (4) and a female threaded portion (5). Either the male threaded portion (4) or female threaded portion (5) optionally comprises a solid anti-corrosion and/or lubricating coating (10), said male threaded portion (4) and female threaded portion (5) respectively comprising at least one male thread tooth (6) or one female thread tooth (5) and a thread axial clearance TAG (8) providing a space, in the installed state, between an engagement flank (14) of said male thread tooth and a bearing flank (15) of said female thread tooth (7), characterised in that said thread axial clearance TAG (8) is greater than or equal to a minimum clearance TAGmin.

[Fig 2]



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070258 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONSTRUCTING A DATA FLOW GRAPH FOR A COMPUTING SYSTEM OF AN ORGANIZATION

(51) International classification :G06F 16/245, G06F 11/36, G06F 8/75, G06F 8/73
(31) Priority Document No :17/204456
(32) Priority Date :17/03/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2021/048758
Filing Date :01/09/2021
(87) International Publication No :WO 2022/197322
(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)RELYANCE, INC.
Address of Applicant :707 Continental Circle, Unit 230 Mountain View, California 94040 U.S.A.
(72)**Name of Inventor :**
1)GOLCHEHREH, Leila Rose
2)SHARMA, Abhishek

(57) Abstract :
Technologies related to constructing a data flow graph are described herein, where the data flow graph indicates that personal data is passed from a first computer-executable module of an organization computing system to a second computer-executable module of the organization computing system. The data flow graph is constructed based upon static analysis data pertaining to source code of the organization computing system; the data flow graph is further constructed based upon infrastructure data that provides runtime information for the organization computing system.

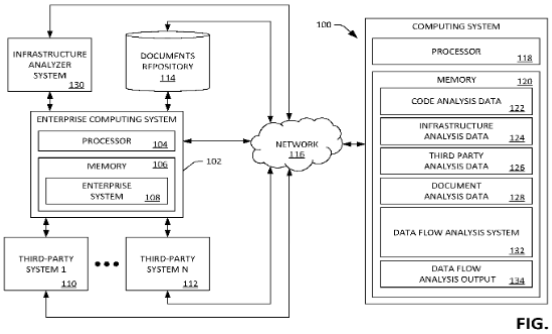


FIG. 1

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023

(21) Application No.202327070414 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITION ESTIMATION BASED ON TIME BIAS BETWEEN BASE STATION AND REFERENCE USER EQUIPMENT

(51) International classification	:G01S 5/10, H04W 64/00	(71)**Name of Applicant :**
(31) Priority Document No	:17/343089	**1)QUALCOMM INCORPORATED**
(32) Priority Date	:09/06/2021	Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(33) Name of priority country	:U.S.A.	(72)**Name of Inventor :**
(86) International Application No	:PCT/US2022/071541	**1)YERRAMALLI, Srinivas**
Filing Date	:05/04/2022	**2)PRAKASH, Rajat**
(87) International Publication No	:WO 2022/261578	**3)ZORGUI, Marwen**
(61) Patent of Addition to Application Number	:NA	**4)GUPTA, Piyush**
Filing Date	:NA	**5)LI, Junyi**
		6)ZHANG, Xiaoxia
(62) Divisional to Application Number	:NA	**7)FAHIM, Mohammad Tarek**
Filing Date	:NA	**8)WANG, Xiaojie**

(57) Abstract :
Disclosed are techniques for wireless communication. In an aspect, a position estimation entity, obtains first timing information that is associated with a first time-of-arrival (TOA) measurement of a first reference signal for positioning (RS-P) as communicated between a target user equipment (UE) and a base station with a first time basis, obtains second timing information that is associated with a second TOA measurement of a second RS-P as communicated between the target UE and a reference UE associated with a known location and having a second time basis that is different than the first time basis, determines a bias between the first time basis and the second time basis, and determines a position estimate of the target UE via a time differential of arrival (TDOA) positioning technique based at least in part upon the first timing information, the second timing information, and the bias.

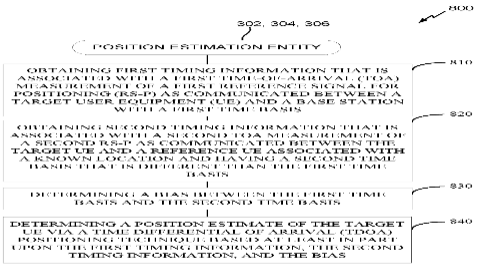


FIG. 8

No. of Pages : 62 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327070416 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : OIL-BASED BALLPOINT PEN

(51) International classification	:C09D 11/18, B43K 1/08
(31) Priority Document No	:2021-076180
(32) Priority Date	:28/04/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/017708
Filing Date	:13/04/2022
(87) International Publication No	:WO 2022/230671
(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)KABUSHIKI KAISHA PILOT CORPORATION (ALSO TRADING AS PILOT CORPORATION)
Address of Applicant :6-21, Kyobashi 2-chome, Chuo-ku, Tokyo 1048304 Japan
(72)**Name of Inventor :**
1)MASUDA, Hirotaka

(57) Abstract :
An oil-based ballpoint pen (100) comprises an ink reservoir tube (2), which has a ballpoint pen tip (4) at an end thereof, and, contained in the ink reservoir tube (2), an ink composition (10) for oil-based ballpoint pens which comprises a colorant, an organic solvent having a boiling point of 140°C or lower, and a resin. The ink composition (1) for oil-based ballpoint pens has an ink viscosity, as measured at 20°C and a shear rate of 200 sec-1, of 300 mPa?s or less. The oil-based ballpoint pen (100) has an ink consumption of 80 mg or greater per 100 m of writing distance, and the ratio of the ball diameter B (mm) to the ink consumption A (mg) per 100 m of writing distance is such that 100A/B600.

No. of Pages : 44 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070441 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ASEPTIC CONNECTOR FOR FLUID CONDUITS

(51) International classification :A61M 39/10, A61M 39/16, A61M 39/18
(31) Priority Document No :63/163167
(32) Priority Date :19/03/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/020695
Filing Date :17/03/2022
(87) International Publication No :WO 2022/197889
(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 :18 Shipyard Drive, Suite 2A Hingham, MA 02043 U.S.A.
(72)**Name of Inventor :**
1)BONNYMAN, Alexandra
2)LOVE, Kerry, R.
3)WEINER, Larry
4)LOVE, John, Christopher
5)KAHATT, Espir
6)AL-SHAMSIE, Ziad
7)REISMAN, Ben
8)GOLDBLATT, Alex

(57) Abstract :
An aseptic connector includes first and second matable housings each comprising a plurality of connectors for fluid conduits. The fluid conduits enter the housings and may be force-fitted onto barbs or flanges on one side of the connectors, or may instead be molded directly onto the connectors. When the housings are joined, the opposite sides of the connectors mate to form fluid seals, thereby establishing fluid pathways between now-connected sets of tubes.

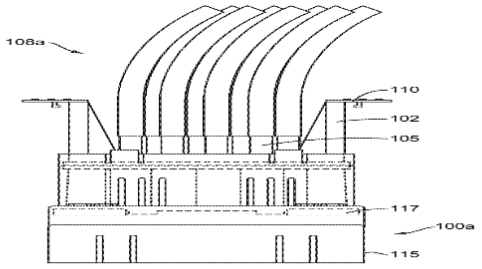


FIG. 1A

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070456 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROL RESOURCE SET WITH LARGER ALLOCATION IN THE TIME DOMAIN FOR REDUCED BANDWIDTH DEVICES

(51) International classification :H04L 5/00
(31) Priority Document No :17/357611
(32) Priority Date :24/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072848
Filing Date :09/06/2022
(87) International Publication No :WO 2022/272209
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)KWAK, Yongjun
2)LY, Hung Dinh
3)LEI, Jing
4)XU, Huilin
5)KIM, Yuchul
6)KWON, Hwan Joon
7)MONTOJO, Juan
8)GAAL, Peter

(57) Abstract :
This disclosure provides systems, methods, and devices for wireless communication that support reduced bandwidth devices and particularly, allocation of more than three orthogonal frequency division multiplexing (OFDM) symbols in the time domain to a control resource set (CORESET). In a first aspect, a method for wireless communication includes receiving, from a base station at a user equipment (UE), a first message that indicates a CORESET configuration. The CORESET configuration allocates more than three OFDM symbols in the time domain to a CORESET. The method further includes monitoring a set of time and frequency resources to receive a second message from the base station at the UE. The set of time and frequency resources have the CORESET configuration. Other aspects and features are also claimed and described.

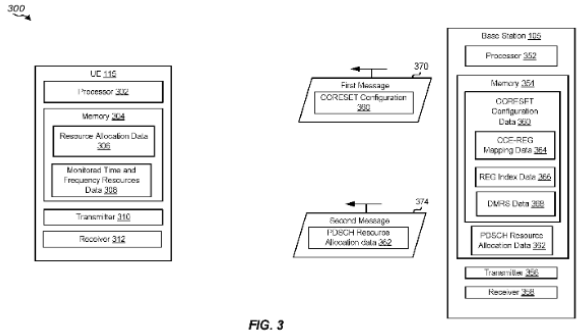


FIG. 3

No. of Pages : 51 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023

(21) Application No.202327068967 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TECHNIQUES FOR SHARING PROTOCOL DATA UNIT SESSIONS BETWEEN MULTIPLE SUBSCRIBER SERVICES

(51) International classification	:H04L 65/1016, H04L 65/1073, H04W 76/10, H04W 88/06
(31) Priority Document No	:63/202771
(32) Priority Date	:23/06/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/073089
Filing Date	:22/06/2022
(87) International Publication No	:WO 2022/272264
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)SHAHIDI, Reza
2)UMATT, Bhupesh Manoharlal
3)SINGH, Vikram
4)ZHAO, Suli
5)PAZOS, Carlos Marcelo Dias
6)XIE, Yong
7)SRIVASTAVA, Sankalp
8)SHELVANANDA, Ramananda Arkalgud

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may establish, via a first subscriber service, at least one protocol data unit (PDU) session. The UE may receive a first internet protocol (IP) address associated with the first subscriber service. The UE may register the first subscriber service with an IP multimedia subsystem (IMS) network using the first IP address. The UE may register a second subscriber service with the IMS network using a second IP address, wherein the second subscriber service uses the at least one PDU session of the first subscriber service. Numerous other aspects are described.

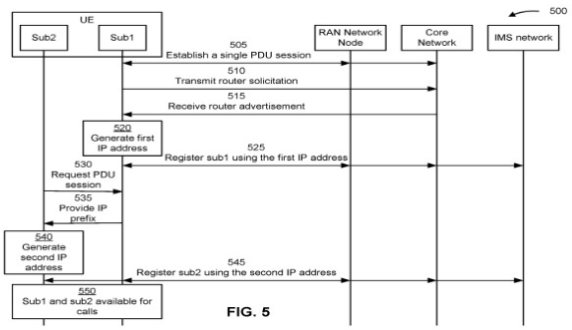


FIG. 5

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327068989 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITIONING USING TRAFFIC CONTROL

(51) International classification	:G08G 1/095, G08G 1/07, G08G 1/005, G01S 5/00, G08G 1/0962
(31) Priority Document No	:17/341951
(32) Priority Date	:08/06/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/025017
Filing Date	:15/04/2022
(87) International Publication No	:WO 2022/260753
(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)QUALCOMM INCORPORATED
Address of Applicant :5775 Morehouse Drive San Diego, California 92121 U.S.A.
(72)**Name of Inventor :**
1)ZHANG, Han
2)LUO, Ning
3)YANG, Yinghua
4)PENG, Yuxiang
5)ZHENG, Bo
6)ZHANG, Gengsheng
7)WANG, Min

(57) Abstract :
A positioning method includes: obtaining traffic control information indicative of transmission of a traffic control indication granting permission for vehicle motion, or permission for pedestrian motion, or a combination thereof; and determining, based on the traffic control information, position-related information including a location of a user equipment (UE), a heading of the UE, or a combination thereof.

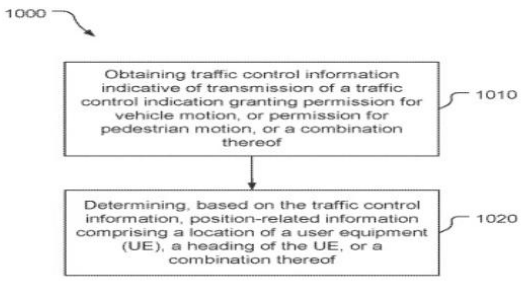


FIG. 10

No. of Pages : 65 No. of Claims : 28

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023

(21) Application No.202327069071 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PRIVACY SECURE BATCH RETRIEVAL USING PRIVATE INFORMATION RETRIEVAL AND SECURE MULTI-PARTY COMPUTATION

(51) International classification	:G06F 21/62, H04L 9/08
(31) Priority Document No	:292731
(32) Priority Date	:03/05/2022
(33) Name of priority country	:Israel
(86) International Application No	:PCT/US2023/020693
Filing Date	:02/05/2023
(87) International Publication No	:WO 2023/215290
(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)GOOGLE LLC
Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.
(72)**Name of Inventor :**
1)WANG, Gang
2)YUNG, Marcel M. Moti
3)YEO, Kevin Wei Li

(57) Abstract :
Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for batch retrieving data are described. In one aspect, a method includes receiving, from a client device and by a first multi-party computation (MPC) server of a cluster of MPC servers, a batch request for retrieving multiple database values stored in one or more databases. The batch request includes a first byte array that includes, for each requested key of multiple requested keys, a first secret share of the requested key. Each database includes multiple data items that each include a database key and a corresponding value. The MPC server processes each database key to generate first secret shares of matching data indicating whether the database key matches at least one requested key. The MPC server generates one or more results that represent database values corresponding to each database key that matches at least one requested key.

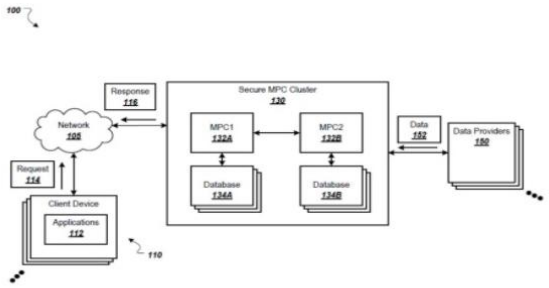


FIG. 1

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023

(21) Application No.202327069072 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SETTING A MAXIMUM QUANTIZATION PARAMETER FOR ENCODING A VIDEO FRAME

(51) International classification	:H04N 19/124, H04N 19/136, H04N 19/15, H04N 19/172, H04N 19/176	(71)**Name of Applicant :** **1)GOOGLE LLC** Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.
(31) Priority Document No	:17/943645	(72)**Name of Inventor :**
(32) Priority Date	:13/09/2022	**1)HOROWITZ, Michael**
(33) Name of priority country	:U.S.A.	**2)CHAPOVALOV, Danil**
(86) International Application No	:PCT/US2023/029199	**3)PANICONI, Marco**
Filing Date	:01/08/2023	
(87) International Publication No	:WO 2024/058879	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A computer-implemented method includes setting, by a participant computing device participating in a videoconference, a maximum quantization parameter (QP) value for encoding a predetermined type of video frame to a value which is the lesser of: a first QP value determined based on an average value of QP values used to encode video frames before the predetermined type of video frame, or a second QP value corresponding to an application-specified maximum QP value. The computer-implemented method further includes encoding the predetermined type of video frame using the set maximum QP value.

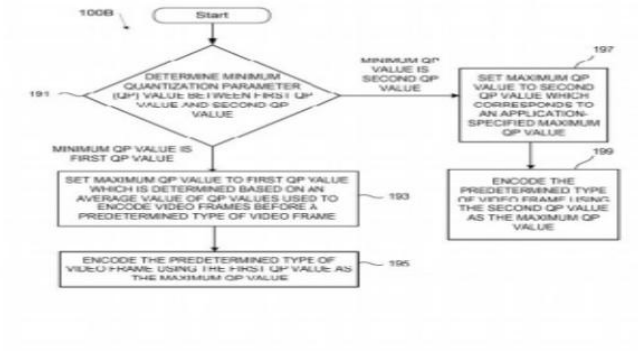


FIG. 1B

No. of Pages : 30 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023

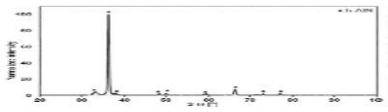
(21) Application No.202327069095 A
(43) Publication Date : 19/04/2024

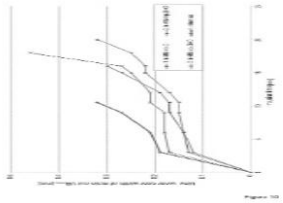
(54) Title of the invention : ALN-BASED HARD MATERIAL LAYER ON BODIES OF METAL, HARD METAL, CERMET OR CERAMICS, AND METHOD FOR THE PRODUCTION THEREOF

(51) International classification	:C23C 16/02, C23C 16/30, C23C 28/04, C30B 29/40, C30B 29/60
(31) Priority Document No	:10 2021 106 674.3
(32) Priority Date	:18/03/2021
(33) Name of priority country	:Germany
(86) International Application No	:PCT/EP2022/057100
Filing Date	:18/03/2022
(87) International Publication No	:WO 2022/195054
(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)FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.
Address of Applicant :Hansastr. 27c 80686 München Germany
(72)**Name of Inventor :**
1)HÖHN, Mandy

(57) Abstract :
The invention relates to the field of materials engineering and relates to an AlN-based hard material layer on bodies of metal, hard metal, cermet or ceramics and to a method for the production thereof. The aim of the invention is to provide an AlN hard material layer which has improved hardness and wear resistance and can be produced in an inexpensive and time-efficient manner. According to the invention, an AlN-based hard material layer is provided, which is an individual layer or a multi-layered layer system, wherein at least the one layer or at least one layer of the multi-layered layer system is an AlN-based hard material layer with a hexagonal lattice structure that has a 002 texture and is oxygen-doped, wherein the oxygen doping is in the range of 0.01 at.% to 15 at.%. The hard material layer can be used as a wear-protection layer for cutting tools.





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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327069118 A
(19) INDIA
(22) Date of filing of Application :13/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COOLED HIGH-CURRENT SYSTEM

(51) International classification :H02K 9/22, H02K 11/33, H02K 11/00
(31) Priority Document No :10 2021 203 801.8
(32) Priority Date :16/04/2021
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2022/059950
Filing Date :13/04/2022
(87) International Publication No :WO 2022/219083
(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)MOLABO GMBH
Address of Applicant :Alte Landstr. 23 85521 Ottobrunn Germany
(72)**Name of Inventor :**
1)BACHHEIBL, Florian
2)ROSSNER, Stefan

(57) Abstract :
The invention relates to an electric drive comprising a cooled high-current system, wherein the electric drive comprises at least one electric machine and at least one converter with at least one energy system which is designed to supply the at least one electric machine with energy. The energy system comprises a busbar system which is coupled to a direct current power source in an electrically conductive manner, at least one capacitor which is coupled to the busbar system in an electrically conductive manner, at least one semiconductor switch which is coupled to the busbar system in an electrically conductive manner, and at least one phase connection which is coupled to the at least one semiconductor switch in an electrically conductive manner. At least one part of the at least one energy system is coupled to at least one part of the electric machine in a thermally conductive manner in order to dissipate heat from the at least one part of the at least one energy system.

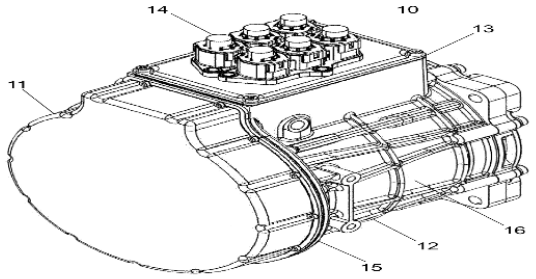


Fig. 1

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069119 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM FOR INTEGRATING VIDEO CONTENT IN A VIDEO CONFERENCE SESSION

(51) International classification	:H04M 3/56, H04N 7/15
(31) Priority Document No	:17/213574
(32) Priority Date	:26/03/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/020120
Filing Date	:14/03/2022
(87) International Publication No	:WO 2022/203891
(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 :101 Crawfords Corner Road Holmdel, New Jersey 07733 U.S.A.
(72)**Name of Inventor :**
1)EICHENBLAT, Kfir Arie
2)SISSO, Ofer Edmond
3)OROT, Ronny
4)YZHAKOV, Shay

(57) Abstract :
Methods and system for integrating video content in a video conference session are provided herein. In some embodiments, the system comprises a plurality of user devices corresponding to a presenter attendee and a plurality of non-presenter attendees of the video conference, where each of the plurality of user devices comprising: a video conferencing application, comprising: a first interface for receiving connection information to the video content as selected by the presenter attendee; a second interface for embedding and displaying the video content on each of the plurality of user devices, wherein the video content is streamed directly from the content provider to each of the plurality of user devices; and a video conference server for relaying state changes of the content video content as the video content is streamed to the plurality of non-presenter user devices.

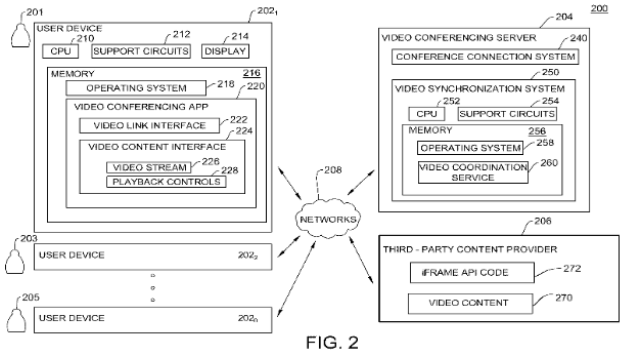


FIG. 2

No. of Pages : 19 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327069120 A
(19) INDIA
(22) Date of filing of Application :13/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHASE CONNECTION FOR ELECTRIC MOTORS FOR MEASURING PHASE CURRENTS

(51) International classification	:G01R 15/20, G01R 31/34, H02K 11/27, H02K 11/33, H02K 17/30	(71)**Name of Applicant :** **1)MOLABO GMBH** Address of Applicant :Alte Landstr. 23 85521 Ottobrunn Germany
(31) Priority Document No	:10 2021 203 802.6	(72)**Name of Inventor :** **1)BACHHEIBL, Florian** **2)ROSSNER, Stefan**
(32) Priority Date	:16/04/2021	
(33) Name of priority country	:Germany	
(86) International Application No	:PCT/EP2022/059943	
Filing Date	:13/04/2022	
(87) International Publication No	:WO 2022/219078	
(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 an electric drive comprising a phase connection for electric motors for measuring phase currents. The electric drive comprises a converter; an electric machine which comprises a plurality of phase current branches, said electric machine and converter being arranged together in a housing; and at least one magnetic field sensor without a magnetic core for measuring a current of at least one of the plurality of phase current branches, wherein at least one phase current branch of the plurality of phase current branches comprises a slot bar, which is at least partly arranged in a slot of the electric machine and forms a phase connection outside of the groove, and the phase connection has a curvature, in the region of which the at least one magnetic field sensor without a magnetic core is arranged.

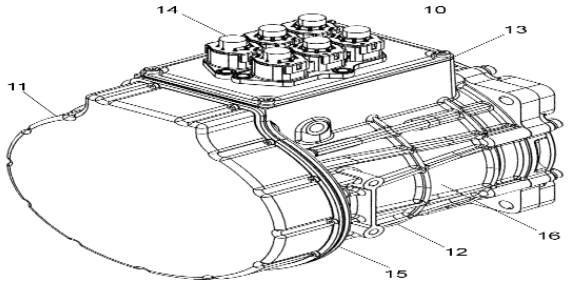


Fig. 1

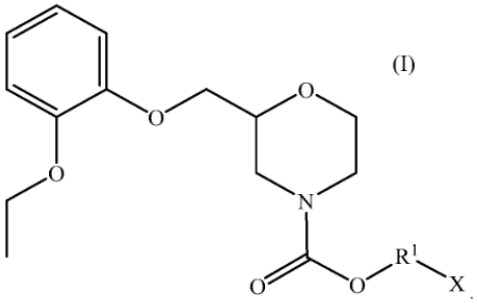
No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069128 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DERIVATIVES OF SUBSTITUTED MORPHOLINES AND USES THEREOF

(51) International classification	:C07D 265/30, C07D 413/12, A61K 31/5375, A61K 31/5377, A61P 25/00	(71)**Name of Applicant :** **1)SUPERNUS PHARMACEUTICALS, INC.** Address of Applicant :9715 Key West Ave. Rockville, Maryland 20850 U.S.A.
(31) Priority Document No	:63/162671	(72)**Name of Inventor :**
(32) Priority Date	:18/03/2021	**1)PADIA, Janak Khimchand**
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2022/020976	
Filing Date	:18/03/2022	
(87) International Publication No	:WO 2022/198062	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A compound of Formula I includes a stereoisomer thereof and/or a salt thereof; wherein R1 is a substituted alkane group, a heterocylic group, or a pyridine group; X is hydrogen, a halogen, an amino acid residue, a substituted amino acid residue, an alkyl group, or an ester. Such compounds may be used in pharmaceutical compositions and for the treatment of central nervous system (CNS) disorders:



(I)

No. of Pages : 60 No. of Claims : 48

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023

(21) Application No.202327069151 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD OF MEASURING SOIL

(51) International classification :G01N 33/24, G06Q 10/06
(31) Priority Document No :2021900744
(32) Priority Date :15/03/2021
(33) Name of priority country :Australia
(86) International Application No :PCT/AU2022/050220
Filing Date :15/03/2022
(87) International Publication No :WO 2022/192943
(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)LODGE, Benjamin Joe

(57) Abstract :
A method of measuring soil, the method including the steps of assessing the characteristics of a landscape under inspection to identify one or more feature groups of the landscape under inspection and the amount of area of land of each of the feature groups; identifying sampling locations in each of the feature groups; undertaking soil sampling at each identified sampling locations to calculate the content of the feature of the soil in each of the feature groups; and calculating the content of the feature of the landscape under inspection using the calculated content of a feature of the soil of each of the feature groups and the amount of area of land of each feature group as a proportion of the total area of the landscape under inspection.

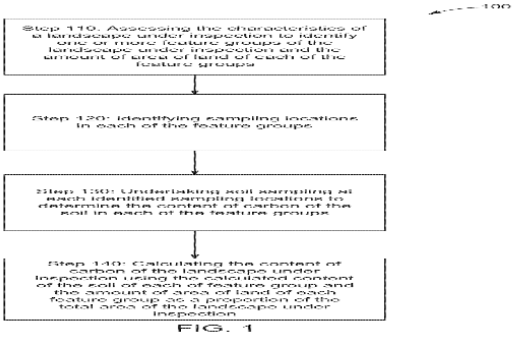

FIG. 1

No. of Pages : 9 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023
(21) Application No.202324068361 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LIFTING POINT

(51) International classification	:F03D0013200000, H05K0003460000, B66C0001660000, F16H0059020000, F16C0019100000
(31) Priority Document No	:20 2022 105 768.0
(32) Priority Date	:12/10/2022
(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

(71)**Name of Applicant :**
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(72)**Name of Inventor :**
1)Andreas Fröse
2)Dirk Mag
3)Martin Foitzik
4)Martin Haverkamp

(57) Abstract :
ABSTRACT LIFTING POINT The invention relates to an attachment point 1 with a lower part 3 having connection means for connecting the attachment point 1 to an object 47 to be handled with it, and with an upper part 2 which can be rotated relative to the lower part 3 and is connected to it and has a connection element 4 for connecting a lifting, attachment or lashing means, wherein, for the rotatable mounting of the upper part 2 relative to the lower part 3, the upper part 2 has an upper bearing surface 12 that tapers conically in the axial direction, the lower part 3 has a lower bearing surface 8 that tapers conically in the same direction, and wherein, according to an embodiment, between the two bearing surfaces 8, 12 there are roller bearing bodies 18 arranged with a form defined by an axis of rotation and a rotationally symmetrical lateral surface, the axes of rotation of which are aligned in the direction of the conical taper of the bearing surfaces 8, 12. A special feature is that the rolling bearing bodies 18 enclose an angle of 30° or more and not more than 60° with their axes of rotation relative to the axis of rotation of the upper part 2, the lower part 3 has a head portion 9 and a shaft portion 10, 10.1 formed with a smaller diameter compared to the head portion 9, wherein the bearing surface 12 of the lower part 3 is provided by a lateral surface portion of the head portion 9, which lower part 3 extends through the upper part 2, and that in order to hold the lower part 3 and the upper part 2 together, a closure body 25 connected to the shaft portion 10 of the lower part 3 and gripping from below the upper part 2 in the radial direction, at least in portion, is provided.

No. of Pages : 38 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/10/2023

(21) Application No.202324068390 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : 3D-PRINTED SEMI-FINISHED PART FOR MEDICAL DEVICE MANUFACTURING AND MEDICAL DEVICES THEREOF

(51) International classification	:B33Y0080000000, B33Y0010000000, H05K0003460000, B29C0045140000, B22F0010200000
(31) Priority Document No	:EP22201068.8
(32) Priority Date	:12/10/2022
(33) Name of priority country	:EPO
(86) International Application No	:NA
Filing Date	:NA
(87) 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)Arnaud Bruyas
2)Yannick Krieger
3)Stefan Leonhardt
4)Sebastian Pammer

(57) Abstract :
The present invention relates to a 3D-printed semi-finished part (100) for manufacturing at least one medical implant or medical instrument, the semi-finished part (100) including: at least one functional feature (10) provided at a predefined location of the semi-finished part (100). Figure of Abstract : Fig. 1

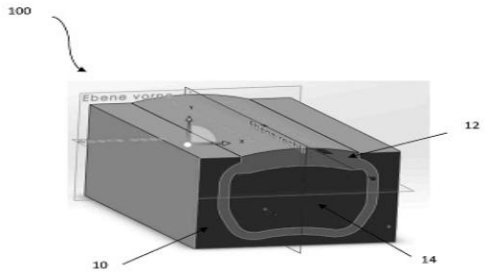

Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2023
(21) Application No.202327075785 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NETWORK MANAGER AND METHOD

(51) International classification	:H04L 12/18, H04W 4/06, H04L 41/0816, H04L 41/0823, H04W 24/02
(31) Priority Document No	:21172121.2
(32) Priority Date	:04/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/062008
Filing Date	:04/05/2022
(87) International Publication No	:WO 2022/233949
(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)TAGA, Aziz
2)OESTREICHER, Lars
3)SINNHUBER, Johannes
4)UHLMANN, Maurice
5)JANNER, Thomas
6)REITMEIER, Manfred

(57) Abstract :
The present disclosure provides a network manager comprising a data interface configured to communicatively couple to at least one radio access network of a broadcast network that is configured to wirelessly emit a load data signal, and to communicatively couple to a load data source network; and a network controller coupled to the data interface and configured to receive request data with regard to the transmission of the load data from the load data source network, and to provide configuration data to configure the at least one radio access network to use specific radio access network resources for transmission of the load data; wherein the network controller is configured to define the specific radio access network resources based on the received request data. Further, the present disclosure provides a respective method for operating a broadcast network.

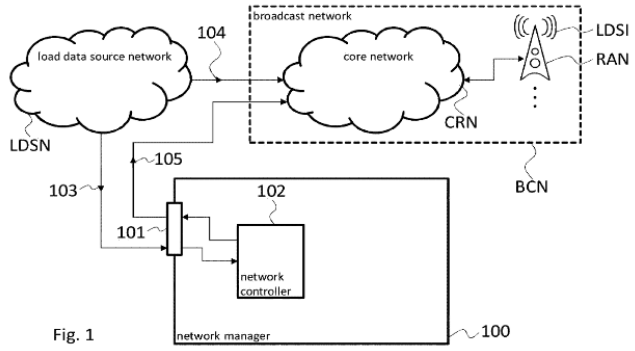

Fig. 1

No. of Pages : 24 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2023
(21) Application No.202327075786 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NETWORK MANAGER, RECEIVING DEVICE AND METHOD

(51) International classification :H04W 16/02, H04N 21/00, H04W 72/00
(31) Priority Document No :21172116.2
(32) Priority Date :04/05/2021
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2022/062013
Filing Date :04/05/2022
(87) International Publication No :WO 2022/233954
(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)TAGA, Aziz
2)OESTREICHER, Lars
3)SINNHUBER, Johannes
4)UHLMANN, Maurice
5)JANNER, Thomas
6)REITMEIER, Manfred

(57) Abstract :
The present disclosure provides a network manager comprising a data interface configured to communicatively couple to a first group of radio access networks that are configured to wirelessly emit a load data signal in geographical regions that overlap at least partially, and to communicatively couple to a load data source network that provides load data capable of being separated into load data parts; and a network controller communicatively coupled to the data interface and configured to provide different configuration data to at least two of the radio access networks of the first group for the purpose of configuring the at least two radio access networks to each use individual radio access network resources for transmission of at least two respective load data parts. The present invention further provides a respective receiving device and a respective method.

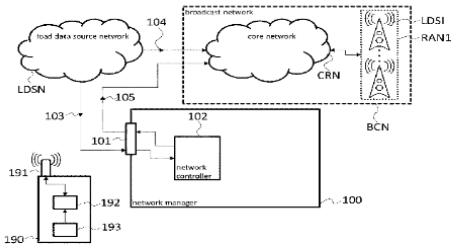

Fig. 1

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069169 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TIME DIVISION DUPLEXING PATTERN DETECTION FOR REPEATERS

(51) International classification :H04B 7/155
(31) Priority Document No :17/348528
(32) Priority Date :15/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/029860
Filing Date :18/05/2022
(87) International Publication No :WO 2022/265798
(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)LUO, Jianghong
2)ABEDINI, Navid
3)LI, Junyi
4)LUO, Tao

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A repeater may extend coverage of wireless communications services between two wireless nodes (e.g., a base station and a user equipment (UE)). A network control node (e.g., a base station) may receive a first indication of a capability of a repeater to detect a time division duplexing (TDD) pattern of a channel between the base station and the UE. The base station may transmit, to the UE and via the repeater, one or more parameters associated with the UE performing one or more channel measurements and reference signals for the channel measurements. The base station may transmit, to the repeater, a second indication of a TDD pattern of the channel based on the capability of the repeater. Based on the indication of the TDD pattern, the repeater may adjust one or more radio frequency components of the repeater.

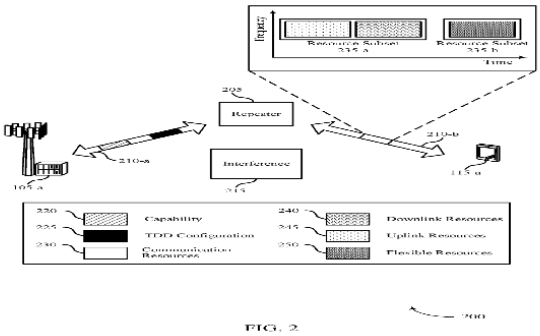

FIG. 2

No. of Pages : 68 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069241 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MACROSCOPIC REFRACTING LENS IMAGE SENSOR

(51) International classification :H01L 27/146
(31) Priority Document No :17/360547
(32) Priority Date :28/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072159
Filing Date :06/05/2022
(87) International Publication No :WO 2023/278911
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)PARK, Edwin Chongwoo
2)KADAMBALA, Ravi Shankar
3)GUMMADI, Bapineedu Chowdary

(57) Abstract :
At least one feature pertains to an image sensor having an array of pixels with a configuration that includes a first pixel type configured to detect red light, a second pixel type configured to detect green light, a third pixel type configured to detect blue light and a fourth pixel type configured to detect green light and an array of lenses overlaying the array of pixels that comprises a first lens type, a second lens type, a third lens type and a fourth lens type where the first lens type is configured to pass red light and refract blue light and green light, the second lens type is configured to pass green light and refract blue light and red light, the third lens type is configured to pass blue light and refract red light and green light, and the fourth lens type is configured to pass green light and refract blue light and red light.

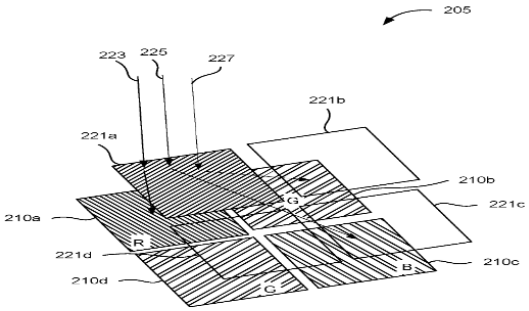

FIG. 2B

No. of Pages : 21 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069244 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS TO IMPROVE USER EQUIPMENT PERFORMANCE IN DSS DEPLOYMENTS

(51) International classification	:H04W 8/18, H04W 88/06, H04W 36/14, H04W 48/18, H04W 36/30
(31) Priority Document No	:17/304722
(32) Priority Date	:24/06/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/033904
Filing Date	:17/06/2022
(87) International Publication No	:WO 2022/271534
(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 :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)KUMAR, Akash
2)MADAN, Marian

(57) Abstract :
Wireless communications systems and methods related to downlink performance of a UE in a wireless communication network are provided. For example, method of wireless communication performed by a user equipment (UE), the method comprising determining a level of interference to a reference signal received from a serving base station operating a first radio access technology (RAT) and switching, based on the determined level of interference, a radio access technology mode preference of the UE to a second RAT, the second RAT being different from the first RAT. Other features are also claimed and described.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069251 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TIMING ADVANCE ASSIGNMENT PROCEDURES FOR ALIGNING SIDELINK POSITIONING REFERENCE SIGNAL (PRS) RECEPTIONS AT TARGET USER EQUIPMENTS (UES) OR ANCHOR (POS)-PEER UES

(51) International classification :H04W 56/00
(31) Priority Document No :20210100414
(32) Priority Date :23/06/2021
(33) Name of priority country :Greece
(86) International Application No :PCT/US2022/071970
Filing Date :28/04/2022
(87) International Publication No :WO 2022/272193
(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)MANOLAKOS, Alexandros
2)KUMAR, Mukesh
3)YERRAMALLI, Srinivas
4)DUAN, Weimin
5)HOSSEINI, Seyedkianoush

(57) Abstract :
This disclosure provides systems, methods, and devices for wireless communication that provide managing transmissions of sidelink positioning reference signals (PRS) with a timing advance offset (TA) from a sidelink node. In aspects, a sidelink node (e.g., a target user equipment (UE) or an assisting UE) may receive transmissions from a plurality of nodes (e.g., target UEs or assisting UEs). The sidelink node obtains at least one TA to be used by a transmitting node of the plurality of nodes for transmitting a sidelink PRS to the sidelink node (e.g., to advance the sidelink PRS transmission to the sidelink node with respect to the timing of the first transmission). The TA is an offset obtained by the sidelink node based on the receiving times of the transmissions from the plurality of nodes. The sidelink node may receive PRS transmissions from the plurality of nodes in a same symbol aligned within the same CP.

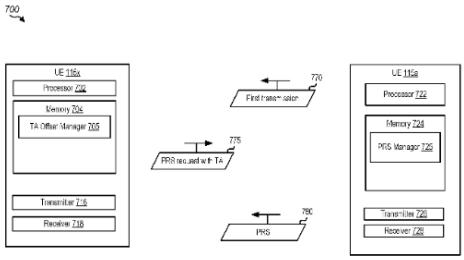

FIG. 7

No. of Pages : 52 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :12/10/2022
(21) Application No.202223058407 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMPROVED PROCESS FOR THE PREPARATION OF FERUMOXYTOL

(51) International classification	:A61P0007060000, A61K0009000000, A61P0025040000, A61K0033260000, A61P0025020000
(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	:202121004060
Filed on	:29/01/2021
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
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Address of Applicant :RK Pharma Inc., 401 N Middletown Rd Building 215/215A, Pearl River, NY 10965, United States. U.S.A.
2)Apicore Pharmaceuticals Private limited
(72)**Name of Inventor :**
1)Ravishankar Kovi
2)Jayraman Kannappan
3)Shivnath Patil
4)Govind ahirrao
5)Premasharan Shantaram Panchal
6)Harish Ramesh Borse

(57) Abstract :
New process for the isolation of ferumoxytol relates to Ferumoxytol of formula I. Specifically, the present application relates to novel process for the isolation of Ferumoxytol in solid form. The present application further provides novel process for the adjustment of pH as well as iron and carbohydrate ratio of Ferumoxytol using polyglucose sorbitol carboxymethylether to get stable regulatory compliant Ferumoxytol. The present application also relates to the use of this isolated ferumoxytol in preparation of formulation and use of this formulation in treatment of anemia.

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :28/03/2022
(21) Application No.202227017929 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS FOR ABSORBING A TARGETED COMPOUND FROM A GAS STREAM FOR SUBSEQUENT PROCESSING OR USE

(51) International classification	:B01D 53/02, B01D 53/14, B01D 53/58, B01D 53/74, B01D 53/73	(71)**Name of Applicant :** **1)STEEN RESEARCH, LLC** Address of Applicant :19363 Willamette Drive #235 West Linn, OR 97068 U.S.A.
(31) Priority Document No	:17/566961	(72)**Name of Inventor :** **1)TEMPLE, Stephen, R.** **2)TEMPLE, Bjorn**
(32) Priority Date	:31/12/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2022/054162	
Filing Date	:28/12/2022	
(87) International Publication No	:WO 2023/129597	
(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 describes methods for absorbing a targeted chemical compound from a gas stream into a scrubbing solution for various uses and with various benefits. Methods are described to produce a gas stream that can be further processed with operational benefits, such as through condensing and wastewater treatment with a lower load on the wastewater treatment system. Methods are described for adsorbing the targeted compound with reduced condensation of water from the gas stream. Methods are described for producing a liquid stream comprising an absorbed form of the targeted compound for use as a saleable product, such as adsorbing ammonia for the production of a fertilizer, wherein the concentration of the absorbed form may be increased through reduced condensation from the gas stream. Methods are described for producing a lower volume liquid waste stream from the absorption process through the use of reduced condensation of the gas stream.

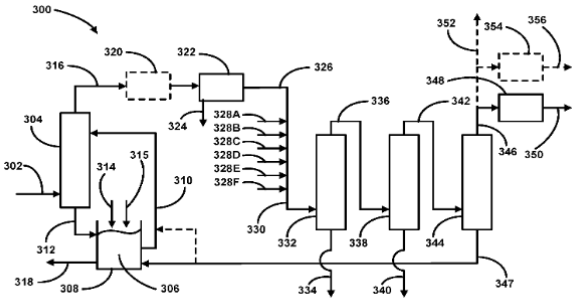

FIG. 3

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076267 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DYNAMIC CONNECTED DISCONTINUOUS RECEPTION CONFIGURATION SUPPORTING NETWORK POWER MODES

(51) International classification :H04W 52/02
(31) Priority Document No :17/379782
(32) Priority Date :19/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034323
Filing Date :21/06/2022
(87) International Publication No :WO 2023/003661
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)LY, Hung Dinh
2)XU, Huilin
3)ABDELGHAFFAR, Muhammad Sayed Khairy
4)KWON, Hwan Joon
5)MUKKAVILLI, Krishna Kiran
6)HE, Linhai

(57) Abstract :
Methods, systems, and devices for dynamically configuring connected discontinuous reception (C-DRX) configurations supporting network power modes are described. In some examples, a user equipment (UE) may receive a first control signaling configuring the UE with multiple C-DRX configurations, each C-DRX configuration of the multiple C-DRX configurations corresponding to a respective network power mode. In some examples, the UE may receive a second control signaling including an identifier indicating a C-DRX configuration, of the multiple C-DRX configurations, corresponding to a first network power mode (e.g., an enhanced network power savings mode) at a base station, where the first network power mode may indicated a set of features active at the base station. The UE may communicate with the base station in accordance with the indicated C-DRX configuration and based on the first network power mode.

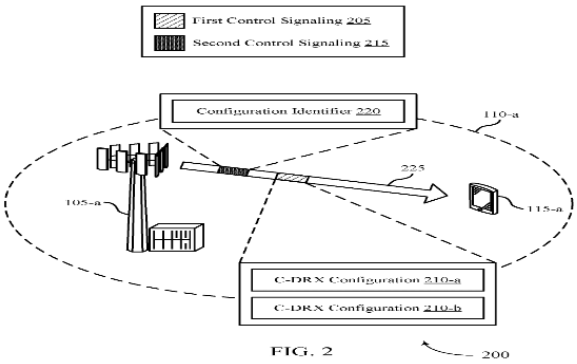

FIG. 2

No. of Pages : 75 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076312 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ULTRASONIC FINGERPRINT SENSOR TECHNOLOGIES AND METHODS FOR MULTI-SURFACE DISPLAYS

(51) International classification :G06V 40/13
(31) Priority Document No :17/443938
(32) Priority Date :28/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072632
Filing Date :27/05/2022
(87) International Publication No :WO 2023/009908
(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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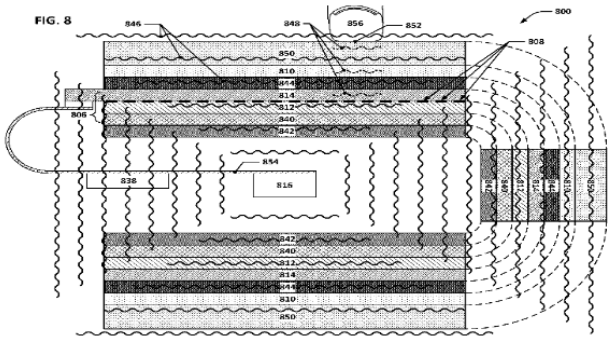
(72)**Name of Inventor :**
1)GUDIVADA, Naga Chandan Babu
2)TIWARI, Prakash
3)PALLERLA, Rakesh

(57) Abstract :
Apparatuses, systems, and methods are provided for ultrasonic fingerprint sensors that feature an ultrasonic transmitter and multiple subsets of ultrasonic sensor pixels, each subset of ultrasonic sensor pixels associated with a different ultrasonically sensitive display surface, at least two of which are non-coplanar with one another. In some implementations, the ultrasonically sensitive display surfaces may be provided by different portions of a flexible display that has been flexed into a configuration in which two or more portions thereof are non-coplanar. In some instances, a controller may be provided that selectively reads ultrasonic sensor signals from subset(s) of the ultrasonic sensor pixels that are associated with the ultrasonically sensitive display surfaces that a touch-sensing system indicates are experiencing touch events.

FIG. 8



No. of Pages : 55 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2023
(21) Application No.202327075787 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NETWORK MANAGER AND METHOD

(51) International classification :H04W 4/06, H04W 24/02, H04W 72/04, H04W 52/34
(31) Priority Document No :21172115.4
(32) Priority Date :04/05/2021
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2022/062012
Filing Date :04/05/2022
(87) International Publication No :WO 2022/233953
(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)ROHDE & SCHWARZ GMBH & CO. KG
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(72)**Name of Inventor :**
1)TAGA, Aziz
2)OESTREICHER, Lars
3)SINNHUBER, Johannes
4)UHLMANN, Maurice
5)JANNER, Thomas
6)REITMEIER, Manfred

(57) Abstract :
The present disclosure provides a network manager comprising a data interface configured to communicatively couple to at least one radio access network of a broadcast network that is configured to wirelessly emit a load data signal; and a network controller communicatively coupled to the data interface and configured to receive receiving device data, the receiving device data indicating reception parameters of the reception of the load data signal at at least one receiving device, and to provide configuration data to the at least one radio access network based on the received receiving device data, the configuration data indicating at least one optimized radio access network resource for transmission of the load data. Further, the present disclosure provides a respective method.

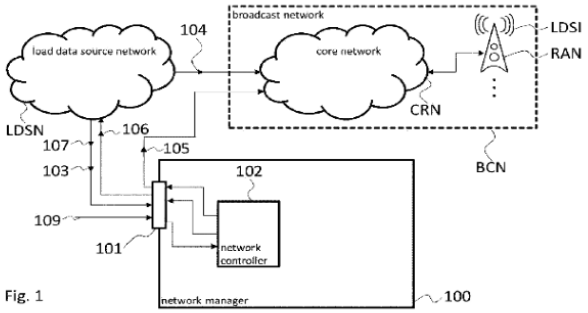

Fig. 1

No. of Pages : 23 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2023
(21) Application No.202327075822 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC DEVICE COMPRISING FLEXIBLE DISPLAY

(51) International classification :G06F 1/16, G09F 9/30, C03C 15/00
(31) Priority Document No :10-2021-0084042
(32) Priority Date :28/06/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/007645
Filing Date :30/05/2022
(87) International Publication No :WO 2023/277360
(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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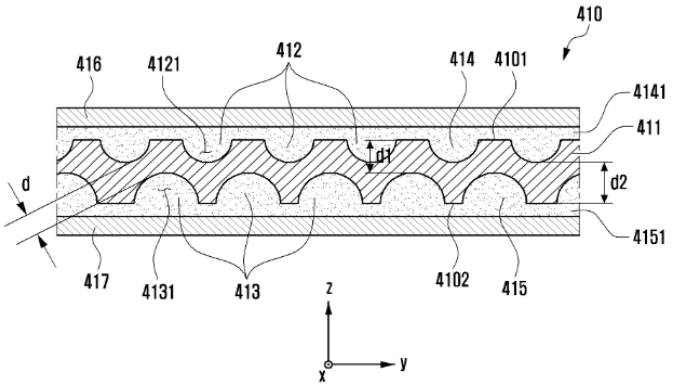
(72)**Name of Inventor :**
1)LEE, Sangbong
2)KIM, Hoyeon
3)KWON, Soonwoo
4)KIM, Yongyi
5)KIM, Jaesik
6)LEE, Kyuyoung
7)LEE, Jongsu
8)LEE, Juha

(57) Abstract :
According to various embodiments, an electronic device comprises: a first housing; a second housing foldably connected to the first housing through a hinge apparatus; and a flexible display disposed so as to be supported by the first housing and the second housing. The flexible display has a first surface and a second surface facing in the opposite direction as the first surface, and comprises: a window layer including a glass layer; and a display panel disposed below the window layer so as to correspond to the second surface. The glass layer includes, on the first surface, a plurality of first patterns formed lower than the first surface, and includes, on the second surface, a plurality of second patterns formed lower than the second surface. A first etching amount per unit area of the plurality of first patterns and a second etching amount per unit area of the plurality of second patterns may be set differently.



No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :06/11/2023

(21) Application No.202327075826 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RADIO ACCESS TECHNOLOGY SEARCHING IN DUAL ACTIVE MODE

(51) International classification :H04W 48/18, H04W 88/06
(31) Priority Document No :63/219674
(32) Priority Date :08/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072368
Filing Date :17/05/2022
(87) International Publication No :WO 2023/283504
(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)QUALCOMM INCORPORATED
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1)HEBEIN, Adam
2)FRANTTI, Qin Xue
3)A'HEARN, Brian
4)REJ, Rishav
5)CHEN, Qingxin
6)PATTANAYAK, Uttam
7)SINGH, Vikram
8)UMATT, Bhupesh Manoharlal
9)PAZOS, Carlos Marcelo Dias
10)LOTFALLAH, Osama
11)CHAN, Flora Pui San
12)PRIYADARSHINI, Manisha
13)BHATNAGAR, Abhishek
14)SHAHIDI, Reza
15)PARK, Cheol Hee

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may detect that a first subscription, of a plurality of subscriptions associated with the UE, is associated with an active service on a first cellular network. The UE may search, for a second subscription of the plurality of subscriptions, for radio access technologies (RATs) and frequency bands that are compatible with a dual active mode of the UE. In some aspects, the UE may detect that the active service on the first cellular network has ended. Accordingly, the UE may search, for the second subscription, for RATs and frequency bands that are compatible with the dual active mode of the UE and for RATs and frequency bands that are incompatible with the dual active mode, before expiry of a timer associated with a power saving state. Numerous other aspects are described.

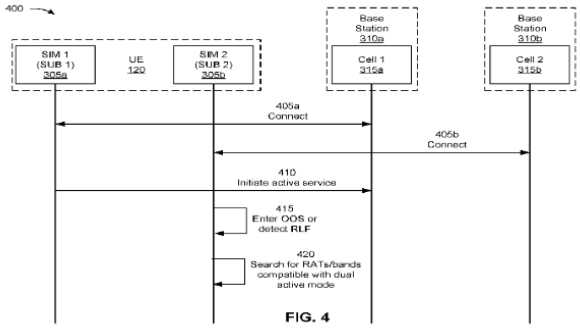

FIG. 4

No. of Pages : 31 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327075865 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VEHICLE ACCESSORY DEVICE AND SYSTEM

(51) International classification	:B60J 3/02, F16M 11/04, F16M 11/06, F16M 13/02
(31) Priority Document No	:17/225036
(32) Priority Date	:07/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/023910
Filing Date	:07/04/2022
(87) International Publication No	:WO 2022/216983
(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)SMART ADDITIONS, INC.
Address of Applicant :31 Centre Dr #1006 Central Valley, New York 10917 U.S.A.
(72)**Name of Inventor :**
1)JOHANANOFF, Daniel

(57) Abstract :
Disclosed herein are visor and accessory devices and systems for vehicles including: a base plate assembly comprising a base plate and an articulating bracket, the base plate configured to be secured to a portion of a vehicle and the articulating bracket configured to be releasably secured to the vehicle using the base plate at a plurality of locations; and at least one auxiliary visor panel or accessory connected to the base plate assembly. Also disclosed herein are method of using the disclosed devices and systems for interchangeably moving the base plate assembly with connected auxiliary visor panel or accessory between vehicles.

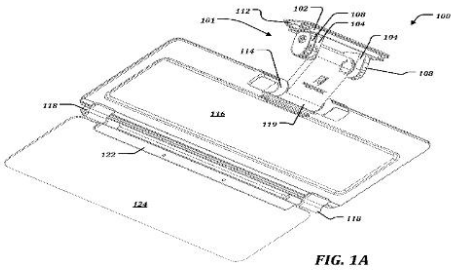

FIG. 1A

No. of Pages : 37 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/10/2023
(21) Application No.202327069261 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICE FOR PROVIDING IOT SERVICE AND METHOD THEREFOR

(51) International classification	:H04L 12/28, H04L 67/51, H04L 67/12, G06Q 10/08, G16Y 20/20
(31) Priority Document No	:10-2021-0034140
(32) Priority Date	:16/03/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/003663
Filing Date	:16/03/2022
(87) International Publication No	:WO 2022/197088
(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)PARK, Jihwa
2)KIM, Jonghwan

(57) Abstract :
Disclosed are a method for providing an IoT service and an electronic device therefor. The electronic device may comprise a communication module, a display, at least one processor, and a memory. The at least one processor may: receive a first message including purchase information of an external electronic device from an IoT server; display information about the external electronic device on the display in response to receiving the first message; receive a second message instructing completion of delivery of the external electronic device from the IoT server; and display a user interface for registration of the external electronic device on the display in response to receiving the second message. Various other embodiments identified through the present document are also possible.

3/19

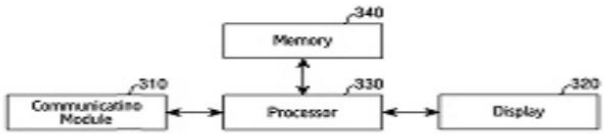

FIG.3

No. of Pages : 45 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327069269 A
(19) INDIA
(22) Date of filing of Application :14/10/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : USE OF A CATIONIC POLYMER FOR REINFECTION PREVENTION

(51) International classification :A01N 25/10, A01N 33/02, A01P 1/00
(31) Priority Document No :202121018489
(32) Priority Date :21/04/2021
(33) Name of priority country :India
(86) International Application No :PCT/EP2022/060423
Filing Date :20/04/2022
(87) International Publication No :WO 2022/223620
(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)UNILEVER GLOBAL IP LIMITED
Address of Applicant :Port Sunlight Wirral Merseyside CH62 4ZD U.K.
(72)**Name of Inventor :**
1)IYER, Vidula
2)KHOKHAR, Jasmeet Kaur
3)MUKHERJEE, Sayandip
4)NEGI, Ajay Singh
5)PALANISAMY, Bharath
6)PATHAK, Sandip Bhanudas

(57) Abstract :
The present invention relates to treating a surface with a polymer and compositions comprising it for preventing microbial reinfection especially that of virus and bacteria on the surface for a long period of time after the surface has been treated. The present invention also relates to certain liquid cleansing compositions, sanitizers, hand-held spray devices and towelettes comprising the polymer for delivering the above benefit.

No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2023
(21) Application No.202327069270 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ANTIMICROBIAL COMPOSITION

(51) International classification	:A01N 25/10, A01N 31/02, A01N 33/12, A01P 1/00, A61Q 17/00
(31) Priority Document No	:202121018488
(32) Priority Date	:21/04/2021
(33) Name of priority country	:India
(86) International Application No	:PCT/EP2022/060374
Filing Date	:20/04/2022
(87) International Publication No	:WO 2022/223589
(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)UNILEVER GLOBAL IP LIMITED
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1)CHANDAR, Prem
2)FREY, Gabriella, Satchi, Olivia
3)GUPTA, Sandeep
4)HUANG, Lei
5)MOADDEL, Teanoosh
6)NAIR, Rohini, Sukumaran
7)PALANISAMY, Bharath
8)SHILOACH, Anat

(57) Abstract :
An antimicrobial composition comprises water; alcohol; a cationic polymer; and a detackifying agent.

No. of Pages : 27 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/10/2023

(21) Application No.202327069291 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD FOR DIAGNOSING AND TREATING SUBJECTS HAVING SINGLE NUCLEOTIDE POLYMORPHISMS IN CHROMOSOME 2, 2:107,510,000-107,540,000 LOCUS

(51) International classification	:C12Q 1/6883, G01N 33/68
(31) Priority Document No	:63/187078
(32) Priority Date	:11/05/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IB2022/054347
Filing Date	:10/05/2022
(87) International Publication No	:WO 2022/238905
(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)ZISAPEL, Nava
2)LAUDON, Moshe

(57) Abstract :
Methods and products for identifying individuals who are likely to respond in a positive (benefit) or negative (harm) manner to a pharmacological drug treatment intended for treating or preventing a neuropsychiatric disorder, neurodegeneration, sleep-wake cycles such including and not limited to Alzheimer's disease, schizophrenia, autism and attention disorders based on single nucleotide polymorphisms (SNP) chromosome 2, 2: 107,510,000-107,540,000 locus (as disclosed in the Genome Reference Consortium Human genome build 37 (GRCh37)).

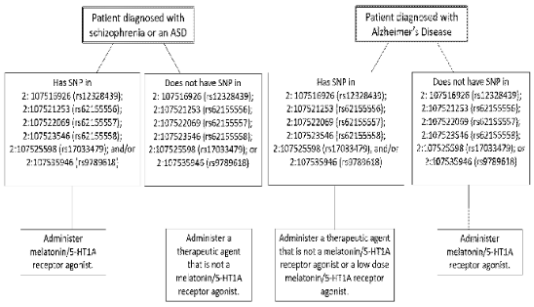

FIG. 1

No. of Pages : 37 No. of Claims : 56

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327069413 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WAKE UP SIGNAL FOR BASE STATION

(51) International classification :H04W 52/02
(31) Priority Document No :17/364466
(32) Priority Date :30/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072898
Filing Date :13/06/2022
(87) International Publication No :WO 2023/278936
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)LY, Hung Dinh
2)MUKKAVILLI, Krishna Kiran
3)KWON, Hwan Joon

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may transmit a wake up signal (WUS) to a base station in a WUS occasion that is configured for the WUS. The UE may transmit a communication to the base station after transmitting the WUS. Numerous other aspects are described.

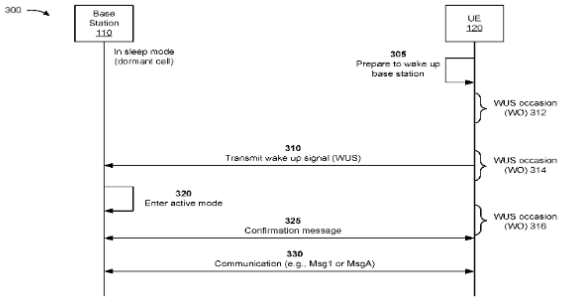

FIG. 3

No. of Pages : 27 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327069791 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOCATION-BASED SERVICE ACCESS FOR VEHICLE-TO-EVERYTHING (V2X) SYSTEMS

(51) International classification :H04W 4/40
(31) Priority Document No :PCT/CN2021/102620
(32) Priority Date :28/06/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/090174
Filing Date :29/04/2022
(87) International Publication No :WO 2023/273586
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)LI, Yan
2)CHEN, Shuping
3)YIN, Yue

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A user equipment (UE), such as a vehicle, may access a location-based service using information provided by a roadside unit (RSU). For example, the RSU may generate an indication of a network address associated with the location-based service and may broadcast a sidelink message that includes the indication of the network address to the UE. The UE may receive the sidelink message and may access the location-based service over a connection with a base station using the network address. The UE may access the location-based service based on a location of the UE and may receive location-based information from the location-based service over the connection with the base station.

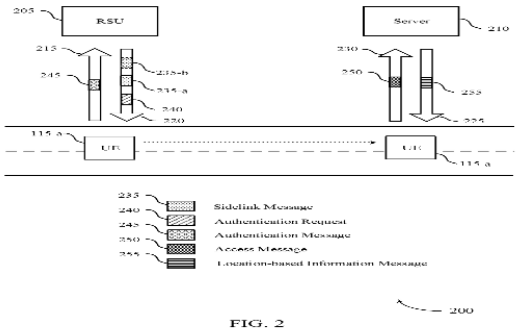

FIG. 2

No. of Pages : 72 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076326 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMUNICATION METHOD AND APPARATUS

(51) International classification :H04L 45/00
(31) Priority Document No :202110512937.7
(32) Priority Date :11/05/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/083664
Filing Date :29/03/2022
(87) International Publication No :WO 2022/237357
(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 Bantian, Longgang Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)ZHU, Yuanping
2)SHI, Yulong
3)LIU, Jing
4)CAO, Zhenzhen

(57) Abstract :
Provided in the present application is a communication method. The method comprises: a first node receiving first information from a second node, wherein the first information comprises the size of an available space in a first cache space of the second node, the first cache space is used for caching a data packet that needs to be transmitted by means of a first path, the first path is a main path for transmitting the data packet, and the second node is a next-hop node of the first node on the main path; and if the size of the available space in the first cache space is less than or equal to a first threshold value, the first node determining that the data packet that needs to be transmitted by means of the first path is transmitted by means of a third node, wherein the third node is a next-hop node of the first node on a standby path for transmitting the data packet. Therefore, the congestion of a second node is alleviated, the average transmission time delay of a data packet is reduced, and the user experience is improved.

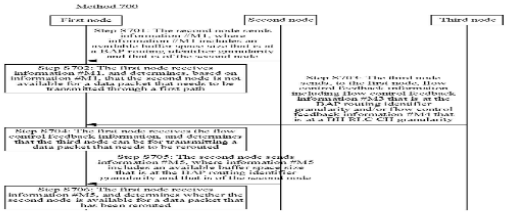

FIG. 7

No. of Pages : 112 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076340 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FOETAL MONITORING SYSTEM

(51) International classification	:A61B 5/024, A61B 5/288, A61B 5/344, A61B 5/251, G01N 27/327	(71)**Name of Applicant :** **1)VITALTRACE PTY LTD** Address of Applicant :2/178 Cambridge Street Wembley, Western Australia 6014 Australia
(31) Priority Document No	:2021901626	(72)**Name of Inventor :**
(32) Priority Date	:31/05/2021	**1)KAUSHIK, Arjun Siddharth**
(33) Name of priority country	:Australia	**2)CHALLENOR, Michael Tom**
(86) International Application No	:PCT/AU2022/050478	**3)ATKINSON, Robert David John**
Filing Date	:18/05/2022	
(87) International Publication No	:WO 2022/251897	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A foetal monitoring device for simultaneously monitoring a concentration of an analyte in a foetus and a heart rate of the foetus, the device comprising a biosensor and an electrocardiogram (ECG).

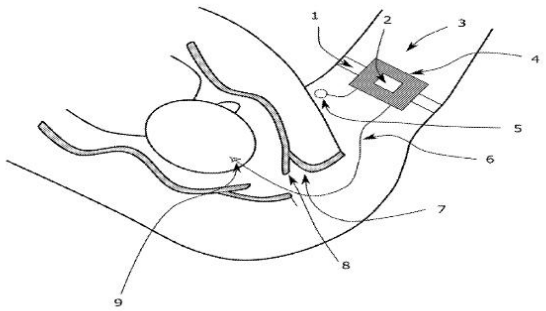

Figure 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076346 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HAIR COMPOSITIONS, HAIR FORMULATIONS, PROCESSES OF PRODUCTION THEREOF, USES AND METHODS OF HAIR TREATMENT

(51) International classification	:A61K 8/18, A61K 8/362, A61K 8/64, A61K 8/60, A61Q 5/00
(31) Priority Document No	:BR 10 2021 006988 0
(32) Priority Date	:12/04/2021
(33) Name of priority country	:Brazil
(86) International Application No	:PCT/BR2022/050130
Filing Date	:12/04/2022
(87) International Publication No	:WO 2022/217330
(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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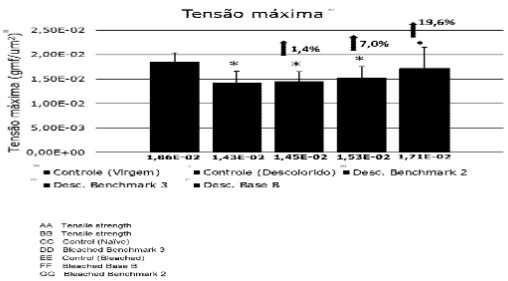
1)PRINCIVAL, Cleverson Rogério
2)ROSSAN, Marcos Roberto
3)MUSSI, Lilian
4)JUNIOR, Flávio Bueno De Camargo
5)MAGALHÃES, Wagner Vidal
6)CAMILLO, Andrew Thomaz

(57) Abstract :
The invention relates to a hair composition for restoring and strengthening hair, processes of production of said composition, uses thereof and methods of hair treatment. More specifically, the invention comprises the use of bifunctional a,ß-unsaturated compounds and derivatives thereof in combination with ionic and non-ionic crosslinking agents that induce the formation of crosslinks between keratin polypeptide chains through ionic interactions, hydrogen bonds and also C-N covalent bonds. The present invention falls within the fields of chemistry, biochemistry and pharmacy.

Figura 9



No. of Pages : 32 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076359 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHASE TRACKING REFERENCE SIGNAL INSERTION FOR MULTI-LAYER SINGLE-CARRIER WAVEFORM

(51) International classification :H04L 5/00, H04L 27/26
(31) Priority Document No :17/375610
(32) Priority Date :14/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/033207
Filing Date :13/06/2022
(87) International Publication No :WO 2023/287532
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)ZHANG, Xiaoxia
2)MA, Jun
3)SOLTANI, Morteza
4)SUN, Jing
5)SAKHNINI, Iyab Issam
6)LUO, Tao
7)SAGGAR, Hemant

(57) Abstract :
The apparatus may be a device at a UE or a base station. The UE (or base station) may be configured to measure a phase noise of a first local oscillator associated with a first port. The UE (or base station) may further be configured to configure, based on the measured phase noise, an allocation of a first set of one or more REs of a PUSCH (or PDSCH) for at least one PT-RS associated with the first port. The first set of one or more REs may include multiple layers associated with a multiple- layer single-carrier waveform transmission. The UE (or base station) may also be configured to transmit, to a base station (or a UE), the PUSCH (or PDSCH) including the at least one PT-RS, the at least one PT-RS being transmitted via the configured allocation of the first set of one.

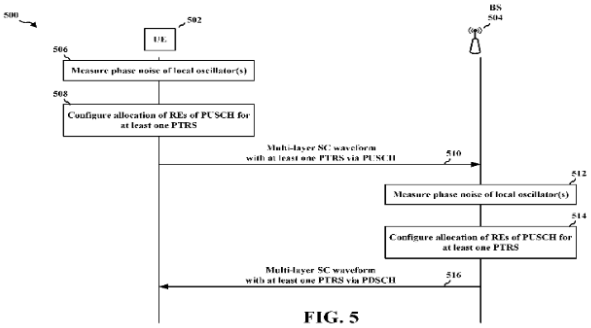


FIG. 5

No. of Pages : 47 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076373 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MESSAGE BASED NAVIGATIONAL ASSISTANCE

(51) International classification :G01C 21/36, G08G 1/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/US2021/031382
Filing Date :07/05/2021
(87) International Publication No :WO 2022/235274
(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)GOOGLE LLC
Address of Applicant :1600 Amphitheatre Parkway Mountain View, California 94043 U.S.A.
(72)**Name of Inventor :**
1)SHARIFI, Matthew

(57) Abstract :
Methods, systems, devices, and tangible non-transitory computer readable media for using incoming communications to generate suggestions for navigation. The disclosed technology can include accessing route data that includes information associated with navigation from a starting location to a destination. Based on the route data, one or more routes from the starting location to the destination can be determined. Message data including one or more messages to a user can be accessed. Based on the message data and one or more machine-learned models, at least one entity and objectives that are associated with the one or more messages can be determined. Based on the one or more routes, the at least one entity, and the objectives, suggestions associated with the one or more messages can be determined. Furthermore, output including indications associated with the suggestions directed to the user can be generated via a user interface.

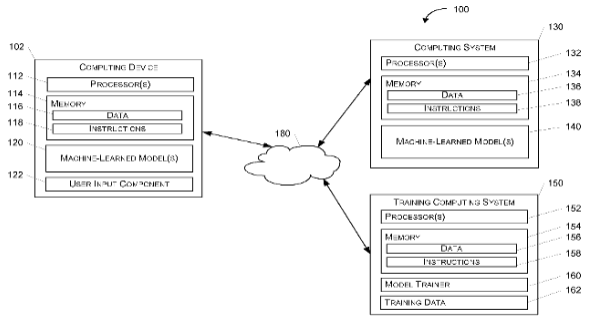


FIG. 1A

No. of Pages : 62 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070469 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TRANSMITTING RANDOM ACCESS MESSAGES USING AERIAL USER EQUIPMENT SPECIFIC PARAMETERS

(51) International classification :H04W 74/08, H04W 84/06
(31) Priority Document No :17/305213
(32) Priority Date :01/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072647
Filing Date :31/05/2022
(87) International Publication No :WO 2023/278919
(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)QUALCOMM INCORPORATED
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(72)**Name of Inventor :**
1)SAHA, Chiranjib
2)LIU, Le
3)RICO ALVARINO, Alberto
4)TAKEDA, Kazuki

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may receive, from a base station via a system information block (SIB), a random access configuration associated with aerial UEs, wherein the random access configuration indicates one or more aerial UE specific parameters. The UE may transmit, to the base station, a random access message during a random access procedure based at least in part on the one or more aerial UE specific parameters indicated in the random access configuration associated with aerial UEs. Numerous other aspects are described.

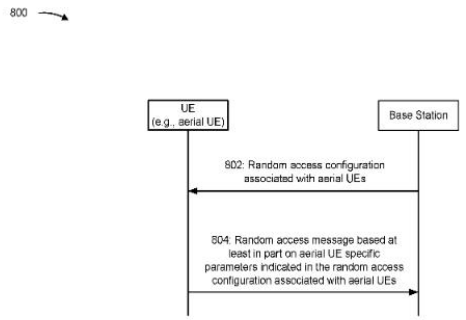

FIG. 8

No. of Pages : 37 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070470 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NASAL COMPOSITIONS COMPRISING ALCAFTADINE

(51) International classification	:A61K 9/00, A61K 9/08, A61K 31/55, A61K 47/38, A61P 11/02
(31) Priority Document No	:202121015680
(32) Priority Date	:01/04/2021
(33) Name of priority country	:India
(86) International Application No	:PCT/IB2021/055221
Filing Date	:14/06/2021
(87) International Publication No	:WO 2022/208146
(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 :Alkem House Senapati Bapat Marg, Lower Parel Maharashtra Mumbai 400013 Maharashtra India
(72)**Name of Inventor :**
1)SHARMA, Akhilesh
2)AWARE, Babasaheb
3)SHAH, Viraj
4)AIWALE, Amol

(57) Abstract :
The present invention relates to a nasal pharmaceutical composition comprising alcaftadine or a pharmaceutically acceptable salt and optionally one or more pharmaceutically acceptable excipients, methods of treating allergic rhinitis, allergic rhino-conjunctivitis, or symptoms thereof (such as nasal congestion) with the nasal pharmaceutical composition, and methods of preparing it.

No. of Pages : 33 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070540 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND SYSTEM TO TEMPORARILY HOLD A WORKPIECE DURING MANUFACTURING USING ADHESIVE ATTACHMENT

(51) International classification	:B23P 23/04, B23Q 3/06, B23Q 3/08, F01D 25/28
(31) Priority Document No	:63/175633
(32) Priority Date	:16/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/024787
Filing Date	:14/04/2022
(87) International Publication No	:WO 2022/221516
(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)BLUE PHOTON TECHNOLOGY & WORKHOLDING SYSTEMS LLC
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(72)**Name of Inventor :**
1)BILLINGS, Danial

(57) Abstract :
A method and system temporarily holds a workpiece, most suitably an aero engine turbine blade element during manufacture. The workholding system includes a support body with a contoured body surface, complementary to a workpiece surface, formed of a transparent material to define a bonding zone. The support body is supported by a base to form a workpiece shuttle, and a bond station receives the workpiece shuttle. Complementary zero-point locating elements on the shuttle and station assure accurate positioning. The bond station further has workpiece locating elements configured to accurately position the workpiece on the shuttle in a predetermined position relative to the zero-point locating elements of the shuttle, thereby compensating for shuttle-to- shuttle variance. An adhesive, such as a UV curable adhesive, is applied to the bonding zone and cured by UV through the transparent material, thereby fixing the workpiece in the predetermined position.

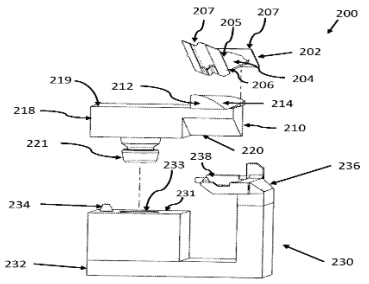

FIG. 7

No. of Pages : 27 No. of Claims : 35

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070541 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITIONS AND METHODS FOR TARGETING INFLAMMATORY OR ARCTIVATED CELLS AND TREATING OR AMELIORATING INFLAMMATORY CONDITIONS AND PAIN

(51) International classification	:A61P 25/00, C07K 14/47
(31) Priority Document No	:63/162714
(32) Priority Date	:18/03/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/020991
Filing Date	:18/03/2022
(87) International Publication No	:WO 2022/198073
(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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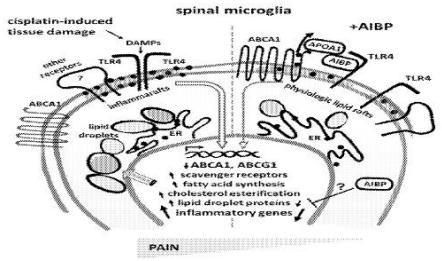
Address of Applicant :1111 North Franklin Street 5th Floor Oakland, California 94607 U.S.A.
(72)**Name of Inventor :**
1)MILLER, Yury
2)CHOI, Soo-Ho

(57) Abstract :
Provided are methods for modification of amino acid sequence and increasing levels of expression of ApoA-I Binding Protein to treat: a neuropathic pain, a CNS inflammation, an allodynia, a post nerve injury pain, a post-surgical pain, a chemotherapeutic-induced peripheral neuropathy, a neurodegeneration, including for example, a neurodegenerative disease or condition such as Alzheimer's disease, a hyperalgesia, primary headaches such as migraines and cluster headaches, glaucoma or other inflammatory diseases of the eye, lung inflammation, asthma, HIV infection, vascular inflammation, atherosclerosis and cardiovascular disease. Provided are methods comprising administering pharmaceutical compositions comprising a recombinantly modified APOA1BP polypeptide to treat a neuropathic pain, an allodynia, a hyperalgesia, a neurodegenerative disease, a primary headache such as a migraine, glaucoma, lung inflammation and asthma, acute respiratory distress syndrome (ARDS), sepsis, viral infection, including influenza, coronavirus (for example, COVID-19) or HIV infection, or its comorbidities, and/or vascular inflammation, atherosclerosis and cardiovascular disease.

FIG. 10G



No. of Pages : 96 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327075883 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COOPERATIVE USER EQUIPMENT SWITCHING

(51) International classification :H04W 36/00, H04W 36/30, H04W 88/04
(31) Priority Document No :17/370563
(32) Priority Date :08/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034991
Filing Date :24/06/2022
(87) International Publication No :WO 2023/283067
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
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1)DAMNJANOVIC, Aleksandar
2)RADULESCU, Andrei Dragos
3)KHOSHNEVISAN, Mostafa
4)ZHOU, Yan
5)LUO, Tao
6)ZHANG, Xiaoxia
7)DAMNJANOVIC, Jelena
8)PRAKASH, Rajat
9)MONTOJO, Juan

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A first device may cooperate with a second device to form a virtual device configured to communicate with a radio access network. The virtual device may appear as a single device from the perspective of the radio access network. Subsequently, a third device may be identified for replacing the second device within the virtual device. Based on the third device being identified, procedures for handing over communications from the second device to the third device may be executed. The procedures may include a beam management procedure, a random-access procedure, a mobility management procedure, or any combination thereof.

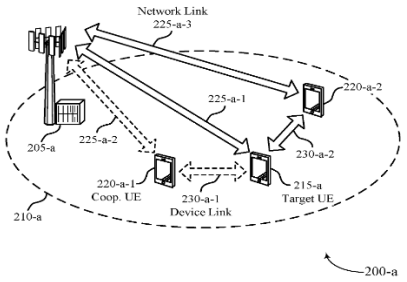

FIG. 2A

No. of Pages : 68 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327075906 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMMON DOWNLINK AND UPLINK SEMI-PERSISTENT RESOURCE CONFIGURATION FOR FULL DUPLEX

(51) International classification :H04W 72/12, H04W 72/04, H04L 5/14
(31) Priority Document No :17/370834
(32) Priority Date :08/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034026
Filing Date :17/06/2022
(87) International Publication No :WO 2023/283037
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)ABOTABL, Ahmed Attia
2)ELSHAFIE, Ahmed
3)IBRAHIM, Abdelrahman Mohamed Ahmed Mohamed
4)ABDELGHAFFAR, Muhammad Sayed Khairy
5)MUKKAVILLI, Krishna Kiran

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A user equipment (UE) may receive one or more messages indicative of uplink semi-persistent scheduling (SPS) resources and downlink SPS resources allocated to the UE, the uplink SPS resources and the downlink SPS resources being within a frequency band used for full duplex communications by the UE. The UE may modify parameters associated with the full duplex communications on the uplink SPS resources, the downlink SPS resources, or both, based at least in part on instances of the uplink SPS resources at least partially overlapping in time with instances of the downlink SPS resources. The UE may apply the one or more parameters, after modification, to transmission of uplink communications over the instances of the uplink SPS resources, reception of downlink communications over the instances of the downlink SPS resources, or both.

200

FIG. 2

No. of Pages : 79 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327075985 A
(19) INDIA
(22) Date of filing of Application :07/11/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : TRACTION MECHANISM OF PIPELINE CONVEYING DEVICE AND PIPELINE CONVEYING DEVICE

(51) International classification	:B65G 19/16, B65G 19/14, B65G 23/02, B65G 23/44, B65G 45/12
(31) Priority Document No	:202110642080.0
(32) Priority Date	:09/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/095510
Filing Date	:27/05/2022
(87) International Publication No	:WO 2022/257779
(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)ZHANG, Xiong
2)LIAO, Youjun

(57) Abstract :
The present invention relates to a traction mechanism of a pipeline conveying device and the pipeline conveying device. The traction mechanism comprises a flat belt; and several disks are fixedly arranged in the length direction of the flat belt, and the disks are arranged spaced apart on the flat belt. The pipeline conveying device comprises a pipeline, the traction mechanism penetrating the interior of the pipeline, and also has a driving mechanism used for driving the traction mechanism to move in the pipeline. The pipeline conveying device overcomes the shortcomings of existing pipe chain machines and pipeline machines, and in order to convey food in the food industry, particularly ready-to-eat food, provides a pipeline conveying manner which has a low crushing rate, is sanitary and quiet, occupies a small footprint, has a compact space layout, and is low cost.

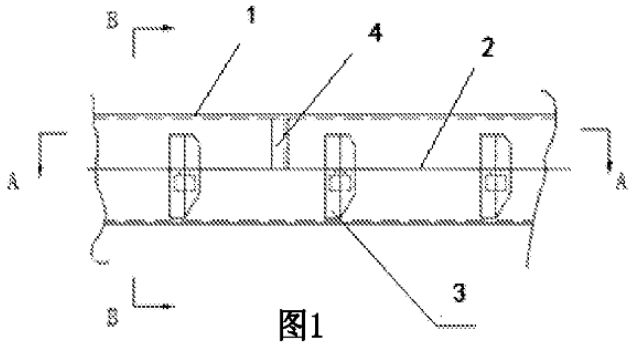

图1

No. of Pages : 8 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023

(21) Application No.202327076005 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND SYSTEM FOR MULTI-ACCESS PROTOCOL DATA UNIT SESSION

(51) International classification :H04W 8/14
(31) Priority Document No :PCT/CN2021/110974
(32) Priority Date :05/08/2021
(33) Name of priority country :PCT
(86) International Application No :PCT/CN2021/110974
Filing Date :05/08/2021
(87) International Publication No :WO 2023/010438
(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)ZHOU, Xingyue
2)ZHU, Jinguo
3)WANG, Menghan
4)LIANG, Shuang

(57) Abstract :
A wireless communication method for use in a session management function is disclosed. The method comprises transmitting, to a wireless terminal, a steering rule for uplink data associated with a first protocol data unit session anchor of a multi-access protocol data unit session, wherein the multi-access protocol data unit session is associated with the first protocol data unit session anchor and a second protocol data unit session anchor

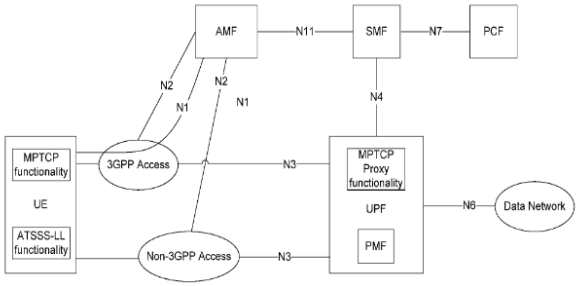

FIG. 3

No. of Pages : 22 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023

(21) Application No.202327076006 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MAINTAINING CONCURRENT SERVICES IN A DUAL ACTIVE MODE

(51) International classification	:H04W 76/15, H04W 76/25, H04W 8/18, H04W 24/10, H04W 36/00
(31) Priority Document No	:63/219678
(32) Priority Date	:08/07/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/072381
Filing Date	:17/05/2022
(87) International Publication No	:WO 2023/283505
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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5)REJ, Rishav
6)CHEN, Qingxin
7)PATTANAYAK, Uttam
8)SINGH, Vikram
9)UMATT, Bhupesh Manoharlal
10)PAZOS, Carlos Marcelo Dias
11)HSU, Cherng-Shung
12)LOTFALLAH, Osama
13)CHAN, Flora Pui San
14)BHATNAGAR, Abhishek
15)SHAHIDI, Reza
16)PARK, Cheol Hee
17)KRISHNAMURTHY, Subashini
18)RAMANNAVAR, Sandeep
19)HU, Jun
20)MAHESHWARI, Shailesh
21)RAYAPATI, Hemanth Kumar
22)MUKKERA, Krishna Chaitanya

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may establish, using a first subscription of the UE, a first communication connection associated with a first service. The UE may establish, using a second subscription of the UE, a second communication connection associated with a second service. The UE may operate in a dual subscriber identity module (SIM) dual active (DSDA) mode based at least in part on establishing the first communication connection and establishing the second communication connection. The UE may perform an action to maintain concurrent services, including the first service and the second service, while operating in the DSDA mode. Numerous other aspects are described.

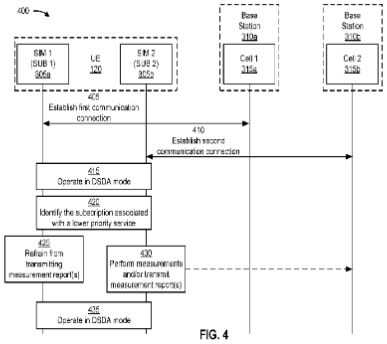

FIG. 4

No. of Pages : 42 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076374 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INSULIN FORMULATIONS AND METHODS OF USING SAME IN PRETERM INFANTS

(51) International classification	:A61K 38/28, A23L 33/10, A61K 38/22
(31) Priority Document No	:63/173442
(32) Priority Date	:11/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/IL2022/050371
Filing Date	:11/04/2022
(87) International Publication No	:WO 2022/219625
(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)OLSHANSKY, Michal
2)OSTROVSKY, Elena
3)ZELDIS, Stav

(57) Abstract :
An insulin formulation and a method of preparing and using same. The insulin preparation includes insulin, oligosaccharide and sodium chloride at a ratio of 1:A:B (w:w:w respectively) with ranges of A and B are 1000-5000 and 10-50, respectively.

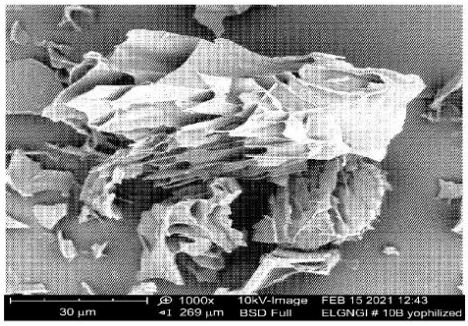

FIG. 8

No. of Pages : 22 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076381 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYMBOL SENDING METHOD, SYMBOL RECEIVING METHOD, SENDING DEVICE, RECEIVING DEVICE, AND STORAGE MEDIUM

(51) International classification	:H04L 27/00, H04L 27/20, H04L 27/38, H04L 27/34
(31) Priority Document No	:202110397070.5
(32) Priority Date	:13/04/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/086499
Filing Date	:13/04/2022
(87) International Publication No	:WO 2022/218319
(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)YUAN, Zhifeng
2)XIN, Yu
3)YU, Guanghui
4)HU, Liujun
5)XU, Jin

(57) Abstract :
The present application discloses a symbol sending method, a symbol receiving method, a sending device, a receiving device, and a storage medium. The symbol sending method comprises: modulating two bits according to a first constellation diagram model to obtain a transmission symbol, wherein the first constellation diagram model satisfies the following: four vertices of the first constellation diagram form a rhombus, the lengths of the two diagonal lines of the rhombus are unequal, and each vertex corresponds to one value of the two bits; and sending the transmission symbol.

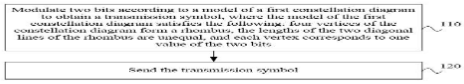

FIG. 2

No. of Pages : 33 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076388 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EXTENDED ANTENNA-CARRIER ALLOCATION POLICY FOR SIMPLIFIED SWITCHING

(51) International classification	:H04B 7/02, H04W 24/02, H04W 88/08, H04W 92/16, H04B 7/06
(31) Priority Document No	:17/374770
(32) Priority Date	:13/07/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/033941
Filing Date	:17/06/2022
(87) International Publication No	:WO 2023/287546
(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)KUPPUSWAMY, Kalyan
2)SACHIDANAND SINHA, Abhishek Saurabh
3)RAEESI, Orod

(57) Abstract :
Apparatus, methods, and computer-readable media for facilitating simplified switching at an RU are disclosed herein. An example method for wireless communication at an RU includes transmitting, to a DU, capability information indicating support of endpoint groups, each endpoint group associated with a respective set of RU endpoints. The example method also includes receiving an eAxC message from the DU based on the capability information, the eAxC message including a DU port identifier, a band sector identifier, a component carrier identifier, and an RU port identifier. The example method also includes using a first portion of the RU port identifier to identify an endpoint group, the respective set of RU endpoints of the endpoint group associated with a set of characteristics. Additionally, the example method includes using a second portion of the RU port identifier to index the eAxC message to an RU endpoint of the endpoint group.

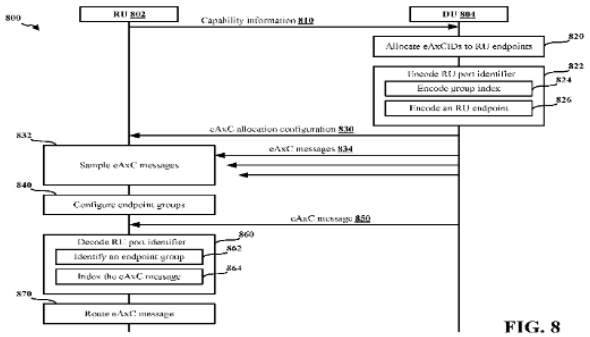

FIG. 8

No. of Pages : 72 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076392 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION, KIT, AND APPLICATION FOR DETECTION OF COLORECTAL CANCER

(51) International classification :C12Q 1/6886, C12Q 1/6858, C12N 15/11
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2021/089368
Filing Date :23/04/2021
(87) International Publication No :WO 2022/222146
(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)SUN, Jianlong
4)LI, Zhilong
5)JIANG, Ruijingfang
6)ZHENG, Jianchao
7)ZHU, Shida

(57) Abstract :
Provided are a composition, a kit, and an application for the detection of colorectal cancer. The provided composition contains a reagent used for detecting the methylation state of the ADHFE1 gene, PPP2R5C gene, and SDC2 gene, and can be used for the detection of colorectal cancer, having high sensitivity and specificity.

No. of Pages : 24 No. of Claims : 19

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076396 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IMAGE FUSION METHOD AND APPARATUS, ELECTRONIC DEVICE, AND STORAGE MEDIUM

(51) International classification	:H04N 5/232, H04N 5/265
(31) Priority Document No	:202110507863.8
(32) Priority Date	:10/05/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/090126
Filing Date	:29/04/2022
(87) International Publication No	:WO 2022/237571
(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)SU, Guangying
3)WANG, Weipeng
4)WU, Tong
5)CHEN, Feng
6)HUANG, Lei
7)WANG, Bei
8)XIAO, Yiqi
9)LIU, Yalong

(57) Abstract :
Provided in the embodiments of the present disclosure are an image fusion method and apparatus, an electronic device, and a storage medium. The method comprises: receiving a photographing operation, which acts on a first page of a target photographing activity, wherein the first page is an H5 page; in response to the photographing operation, invoking, by means of system photographing software, a camera to collect an original image; receiving a fusion operation for the original image; and in response to the fusion operation, fusing the original image with a first target effect to generate a target static image, which comprises a fused static image and first description information related to the static image, and displaying the target static image in a second page, wherein the second page is an H5 page.

Figure of Abstract

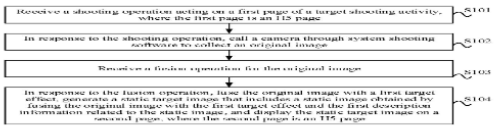

FIG. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327069806 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIGNALING FOR HIGH-ALTITUDE PLATFORM POSITIONING

(51) International classification :H04W 4/02
(31) Priority Document No :PCT/CN2021/099991
(32) Priority Date :15/06/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/075315
Filing Date :03/02/2022
(87) International Publication No :WO 2022/262293
(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, Qiaoyu
2)WEI, Chao
3)XU, Hao
4)WU, Qiang

(57) Abstract :
Disclosed are techniques for wireless communication. In an aspect, a user equipment (UE) receives, from a network entity, a request capabilities message for a positioning session between the UE and the network entity, transmits, to the network entity, in response to reception of the request capabilities message, a provide capabilities message during the positioning session, and transmits, to the network entity, a request assistance data message during the positioning session, the request assistance data message, the provide capabilities message, or both including sensor measurement information, sensor motion information, or both.

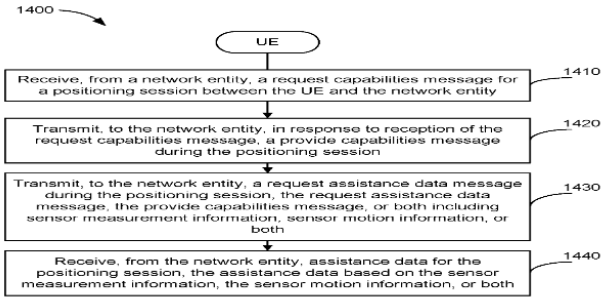

FIG. 14

No. of Pages : 59 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327069891 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ENHANCEMENT OF USER EQUIPMENT LOCATION FOR NON-3GPP ACCESS

(51) International classification :H04W 48/12
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2021/100030
Filing Date :15/06/2021
(87) International Publication No :WO 2022/261813
(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)ZHANG, Kefeng
2)LI, Yan
3)DU, Zhimin

(57) Abstract :
Aspects presented herein may enable a location of a UE accessing a network via non-3GPP access to be determined or estimated. In one aspect, a UE establishes a connection with at least one network entity and a non-network connection entity. The UE transmits, to the at least one network entity, an ID of the non-network connection entity when connected to the at least one network entity. The UE receives, from the at least one network entity, a request for a location of the non-network connection entity. The UE transmits, to the at least one network entity, an indication of location information for the non-network connection entity.

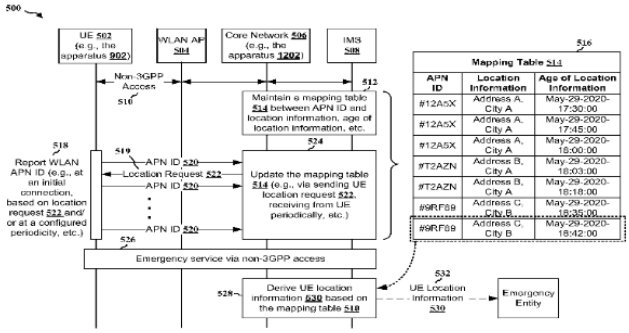

FIG. 5

No. of Pages : 46 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023
(21) Application No.202327069966 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : USER EQUIPMENT SIGNALING AND CAPABILITIES TO ENABLE FEDERATED LEARNING AND SWITCHING BETWEEN MACHINE LEARNING AND NON-MACHINE LEARNING RELATED TASKS

(51) International classification	:H04W 24/02, G06N 3/00
(31) Priority Document No	:17/303854
(32) Priority Date	:09/06/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/072550
Filing Date	:25/05/2022
(87) International Publication No	:WO 2022/261598
(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)ELSHAFIE, Ahmed
2)MUKKAVILLI, Krishna, Kiran
3)KWON, Hwan Joon
4)JI, Tingfang

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may transmit, to a base station, capability information that indicates whether the UE has a capability to support machine learning algorithms. The UE may receive, from the base station, configuration information that indicates one or more tasks to be performed in a machine learning mode or a non-machine learning mode based at least in part on the capability information. The UE may perform the one or more tasks in the machine learning mode or the non-machine learning mode. Numerous other aspects are described.

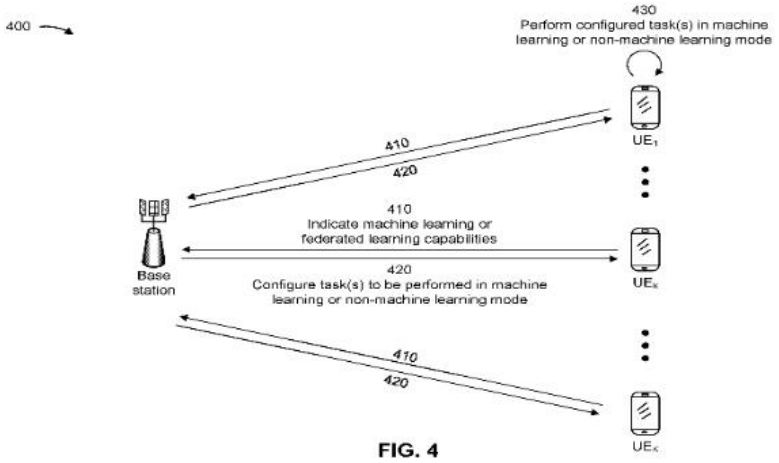

FIG. 4

No. of Pages : 33 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/10/2023

(21) Application No.202327069993 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : JOINT RELAYING OF A TRANSPORT BLOCK

(51) International classification :H04L 5/00, H04B 7/155, H04W 88/04
(31) Priority Document No :17/347355
(32) Priority Date :14/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/030535
Filing Date :23/05/2022
(87) International Publication No :WO 2022/265824
(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)ELSHAFIE, Ahmed
2)HOSSEINI, Seyedkianoush

(57) Abstract :
Aspects relate to joint relaying of a transport block. For example, a first relay (e.g., a first user equipment) and a second relay (e.g., a second user equipment) may each relay at least a portion of the transport block during different resource elements of the same slot. In some examples, the second relay continues encoding the transport block at the point where the first relay completes its encoding. In some examples, the first relay and the second relay independently encode transport block data. In some examples, the first relay and the second relay are each allocated complete symbols within the slot.

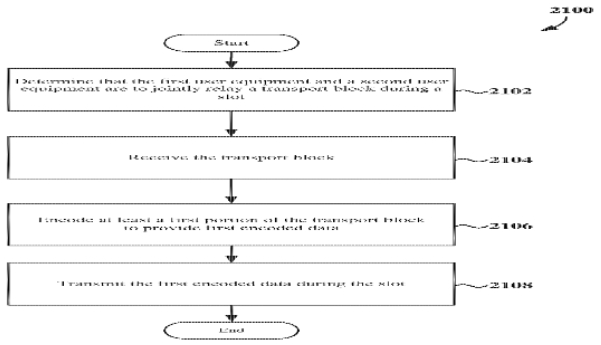

FIG. 21

No. of Pages : 63 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2023
(21) Application No.202327077569 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : IONOSPHERE GRID HISTORY AND COMPRESSION FOR GNSS POSITIONING

(51) International classification :G01S 19/07, G01S 19/05, G01S 19/25
(31) Priority Document No :17/377255
(32) Priority Date :15/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072545
Filing Date :24/05/2022
(87) International Publication No :WO 2023/288150
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)WANG, Min
2)LUO, Ning
3)ZHANG, Gengsheng
4)MUTHURAMAN, Kannan

(57) Abstract :
Described are methods, systems, and devices for correcting ionospheric error. In some aspects, a mobile device equipped with a Global Navigation Satellite System (GNSS) receiver is configured to determine a positioning measurement of a GNSS signal. The mobile device is further configured to receive augmentation data from an augmentation system. When augmentation data for a current measurement period is unavailable, the mobile device can obtain augmentation data associated with Total Electron Content (TEC) values (e.g., vertical TEC values) during one or more prior measurement periods. Based on the augmentation data associated with TEC values during one or more prior measurement periods and a pierce point of the received GNSS signal, an ionospheric error in the positioning measurement of the GNSS signal can be determined and corrected.

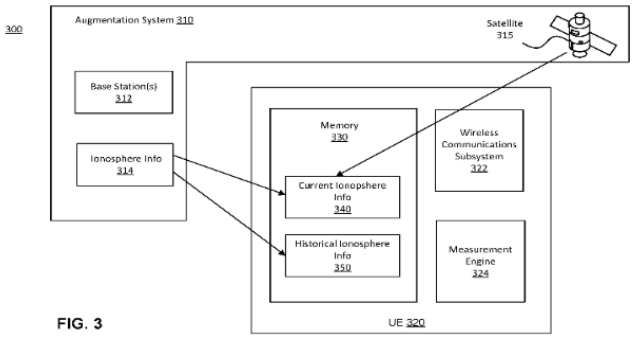

FIG. 3

No. of Pages : 41 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023
(21) Application No.202327076625 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DEVICE AND METHOD FOR THE DISINFECTION OF LIQUIDS AND GASES

(51) International classification :A61L 2/10, A61L 9/20
(31) Priority Document No :10 2021 109 004.0
(32) Priority Date :12/04/2021
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2022/059567
Filing Date :11/04/2022
(87) International Publication No :WO 2022/218897
(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)COMPACT LASER SOLUTIONS GMBH
Address of Applicant :Zehrendsdorfer Strasse 11 12277 Berlin Germany
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1)KUNTZE, Andreas

(57) Abstract :
The invention relates to a method for the disinfection of liquids or gases, having the following method steps: generating a radiation barrier (200) in a disinfection chamber (100), introducing a gas flow and/or a liquid flow into the disinfection chamber (100), guiding the gas flow and/or liquid flow through a plurality of volume regions of the disinfection chamber (100), and discharging the gas flow and/or the liquid flow from the disinfection chamber (100), wherein the volume regions in the disinfection chamber (100) are formed by the radiation barrier (200), a chamber wall (110, 120) and a flow-directing face of a flow-directing element (150), and the volume regions are completely separated from one another by the chamber wall (110, 120), the radiation barrier (200) and the flow-directing face, and also to a device for carrying out the method.

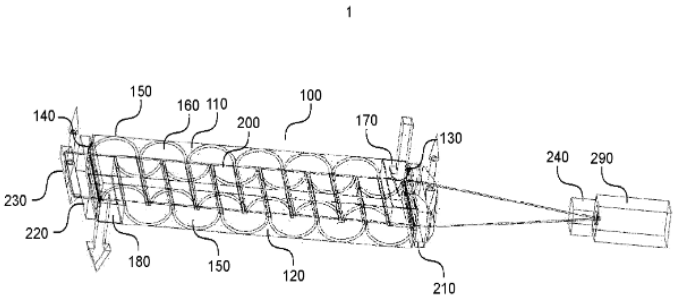

Fig. 1

No. of Pages : 16 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023
(21) Application No.202327076645 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EXPOSURE LIGHT SOURCE, LIGHT IRRADIATION DEVICE, EXPOSURE DEVICE, AND EXPOSURE METHOD

(51) International classification :G03F 7/20
(31) Priority Document No :2021-069495
(32) Priority Date :16/04/2021
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2022/017551
Filing Date :12/04/2022
(87) International Publication No :WO 2022/220229
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

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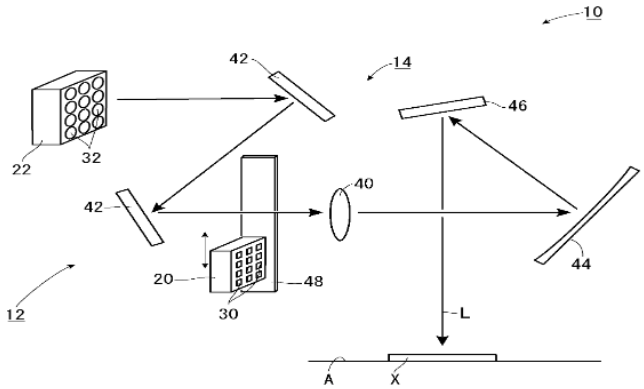
1)IKEDA Tomihiko
2)YAMASHITA Kenichi
3)WATANABE Kana

(57) Abstract :
Provided is an exposure light source that usually performs exposure by using a light source using LEDs and that, in a case where the illuminance on an exposure surface is deficient, can continue exposure by using another light source with a greater amount of light. An exposure light source 12 is configured from: a first light source 20 having LEDs 30; and a second light source 22 composed of a light source for radiating a greater amount of LED light than the LED light radiated from the LEDs 30 in the first light source 20. In addition, in a case where light from the first light source 20 is deficient during a single exposure step, exposure is performed using light from the second light source 22, instead of using light from the first light source 20.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023

(21) Application No.202327076669 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CANCER DIAGNOSTIC

(51) International classification :G01N 33/574
(31) Priority Document No :2106730.1
(32) Priority Date :12/05/2021
(33) Name of priority country :U.K.
(86) International Application No :PCT/EP2022/062648
Filing Date :10/05/2022
(87) International Publication No :WO 2022/238407
(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)METRODTX LTD
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(72)**Name of Inventor :**
1)ROY, Debdulal
2)DUCKWORTH, Edward
3)AL-SARIREH, Bilal

(57) Abstract :
The invention concerns a method for determining a preferred fraction of a biological sample for use in a method for diagnosing cancer in a subject and the use of the identified fraction of a sample in a further method comprising performing FTIR spectral analysis of the identified fraction of the sample obtained from the subject and, optionally, comparing the same fraction of a control or reference sample to indicate those subjects with increased likelihood of disease; use of said method to further select a course of treatment for cancer and a method of treatment comprising same.

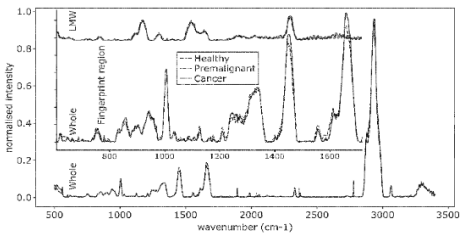

Figure 3

No. of Pages : 31 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023

(21) Application No.202327076670 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A METHOD OF GENERATING DRIVE SIGNALS FOR DRIVING AN SMA APPARATUS

(51) International classification :G03B 5/06, H04N 5/376
(31) Priority Document No :2108092.4
(32) Priority Date :07/06/2021
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2022/051416
Filing Date :06/06/2022
(87) International Publication No :WO 2022/258952
(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)CAMBRIDGE MECHATRONICS LIMITED
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1)EASTON, Mark

(57) Abstract :
A method of generating drive signals for driving an SMA apparatus, wherein the SMA apparatus comprises two SMA actuator assemblies each comprising a respective set of one or more SMA wires, the method comprising the steps of: outputting drive signals for applying to the SMA wires of the sets of SMA wires so as to independently drive the SMA actuator assemblies; and outputting a measurement pulse for measuring an electrical characteristic of an SMA wire, and suppressing or delaying the drive signals for applying to both sets of SMA wires for the duration of the measurement pulse, such that the measurement pulse is applied in the absence of any drive signal.

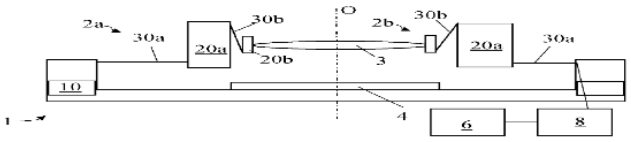


Fig. 1a

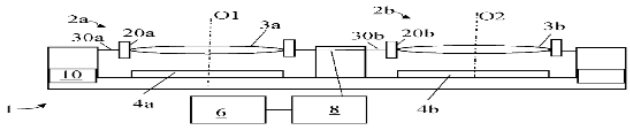


Fig. 1b

No. of Pages : 19 No. of Claims : 36

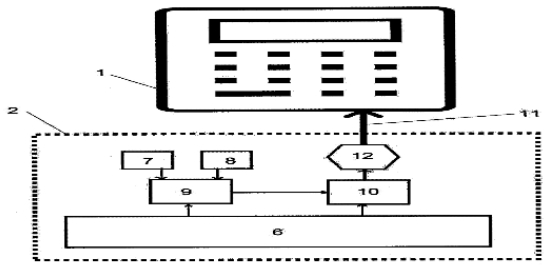
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023

(21) Application No.202327076687 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM FOR MONITORING THE BOTTOM PROFILE OF A BOREHOLE

(51) International classification	:F16L 1/028, E21B 7/06, E21B 47/12, E21B 44/00, G01V 1/40	(71)**Name of Applicant :** **1)TAREEVA, Elena Alekseevna** Address of Applicant :ul. Orlova, 22, kv. 10 Ulyanovsk, 432011 Russia
(31) Priority Document No	:2021110597	(72)**Name of Inventor :**
(32) Priority Date	:15/04/2021	**1)TAREEVA, Elena Alekseevna**
(33) Name of priority country	:Russia	**2)TAREEVA, Elena Alekseevna**
(86) International Application No	:PCT/RU2022/000185	**3)LANKOV, Aleksey Anatolevich**
Filing Date	:02/06/2022	**4)LYAKHOV, Aleksandr Vladimirovich**
(87) International Publication No	:WO 2022/220706	
(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 systems for monitoring borehole bottom angles for use in horizontal directional drilling (HDD) and is applicable in trenchless utility laying operations. Proposed is a system for monitoring the bottom profile of a borehole during enlargement stages in the construction of utilities by horizontal directional drilling, which comprises a computer and software installed thereon for processing data and plotting a borehole bottom profile, which is designed to enable a connection between the computer and a device for monitoring the bottom angles of a borehole. Said borehole bottom angle monitoring device consists of a housing in which are mounted accelerometers, an electronic circuit board with a processor, a device for recording and storing information, and a power source. The technical result is that of making it possible to determine and monitor the angles of the borehole trajectory after each enlargement in order to adjust the run-in geometry of the head of a pipe in the borehole, and to obtain and process live statistical data about the geometry of the borehole and to plot the bottom profile of the borehole.



Фиг. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070554 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITIONING METHOD AND APPARATUS, COMMUNICATION DEVICE, AND NETWORK SIDE DEVICE

(51) International classification :H04W 4/02
(31) Priority Document No :202110286968.5
(32) Priority Date :17/03/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/081193
Filing Date :16/03/2022
(87) International Publication No :WO 2022/194203
(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, Yuanyuan
2)WU, Huaming
3)SI, Ye
4)ZHUANG, Zixun

(57) Abstract :
The present application relates to the field of mobile communications, and discloses a positioning method and apparatus, a communication device, and a network side device. The method comprises: measuring and/or sending a reference signal; and determining first information according to the reference signal. A first communication device has at least one of the following features: the real position information of the first communication device is known; the position trajectory of the first communication device is known; the first position information quality of the first communication device is higher than a first threshold; a first position error of the first communication device is less than a second threshold; the movement of the first communication device is controlled or configured by a network side; a first position of the first communication device is controlled or configured by the network side; a panel of the first communication device used for measuring or sending the reference signal is specified by a network side device; and the group delay information of the first communication device used for measuring or sending reference information is specified by the network side device.

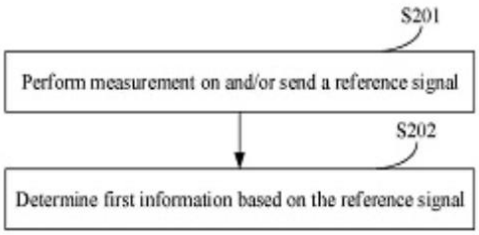

FIG. 2

No. of Pages : 60 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070577 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITIONING METHOD AND APPARATUS, AND COMMUNICATION DEVICE

(51) International classification :H04W 64/00, G01S 5/00
(31) Priority Document No :202110287923.X
(32) Priority Date :17/03/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/080911
Filing Date :15/03/2022
(87) International Publication No :WO 2022/194143
(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)WANG, Yuanyuan
2)SI, Ye
3)WU, Huaming
4)ZHUANG, Zixun

(57) Abstract :
Disclosed in the present application are a positioning method and apparatus, and a communication device, which belong to the technical field of communications. The positioning method is executed by a first device. The method comprises: measuring a positioning reference signal (PRS); and reporting location information and time information to a second device, wherein the reported location information corresponds to first-type location information, and the first-type location information comprises at least one of the following: location information associated with a first cycle of a PRS set instance; location information associated with a measurement occasion (MO); location information associated with a measurement report (MR); and location information associated with a measurement time window.

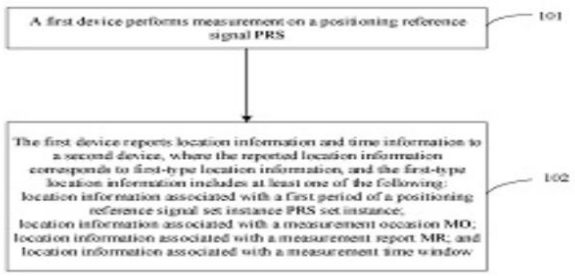

FIG. 5

No. of Pages : 63 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070585 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLASMA TORCH AND METHOD OF OPERATION

(51) International classification :H05H 1/34
(31) Priority Document No :2105248.5
(32) Priority Date :13/04/2021
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2022/050935
Filing Date :13/04/2022
(87) International Publication No :WO 2022/219338
(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)HIIROC-X DEVELOPMENTS LIMITED
Address of Applicant :Number 22 Mount Ephraim Tunbridge Wells TN4 8AS U.K.
(72)**Name of Inventor :**
1)WIEKAMP, Ate

(57) Abstract :
A plasma torch for use in a chemical reactor is described. The plasma torch has a torch chamber with an open end for outflow of reaction products and a closed end opposite to the open end. A first and a second electrode are disposed in the torch chamber, with the second electrode between the first electrode and the open end. An input system is provided for input of one or more gaseous feedstocks into the plasma torch. The plasma torch is adapted to operate at substantially above atmospheric pressure. The plasma torch is also configured so that flow of gaseous feedstocks and reaction products through the torch is adapted to prevent or reduce solid deposition on the second electrode. A suitable method of operating a plasma torch in a chemical reactor is also described.

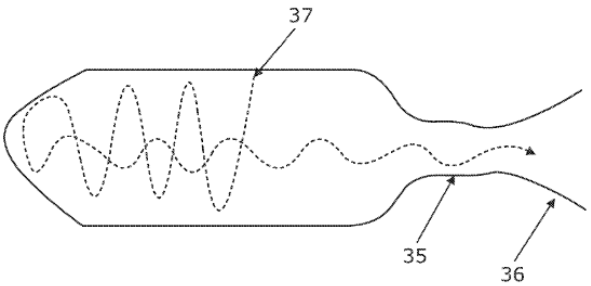

Figure 5

No. of Pages : 22 No. of Claims : 39

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070586 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLASMA TORCH ASSEMBLY AND OPERATION

(51) International classification :H05H 1/44
(31) Priority Document No :2105244.4
(32) Priority Date :13/04/2021
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2022/050936
Filing Date :13/04/2022
(87) International Publication No :WO 2022/219339
(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)HIIROC-X DEVELOPMENTS LIMITED
Address of Applicant :Number 22 Mount Ephraim Tunbridge Wells TN4 8AS U.K.
(72)**Name of Inventor :**
1)WIEKAMP, Ate

(57) Abstract :
A plasma torch assembly comprises a plurality of plasma torch apertures. Each of these plasma torch apertures is adapted to receive a plasma torch. The plasma torch assembly also comprises a working position for operation of the plasma torch - the working position is pressure sealed for hyperbaric operation of the plasma torch. The plasma torch assembly also has means to move each of the plasma torch apertures to the working position. In this way, plasma torches can be swapped in and out of the working position. A method of operating a plasma torch device comprising such a plasma torch assembly is also described.

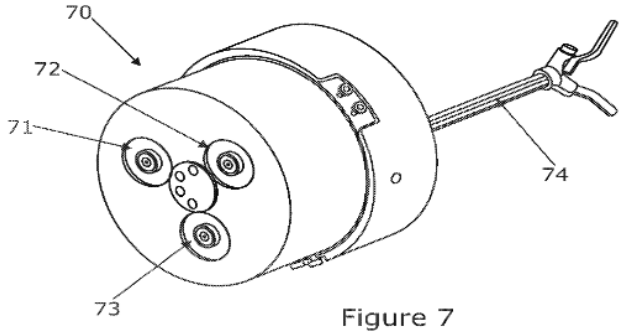

Figure 7

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023

(21) Application No.202327076022 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WOUND-TYPE ELECTRODE ASSEMBLY, BATTERY CELL, BATTERY AND ELECTRIC DEVICE

(51) International classification	:H01M 50/531, H01M 10/0587, H01M 10/0525
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/CN2021/109909
Filing Date	:30/07/2021
(87) International Publication No	:WO 2023/004823
(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)CONTEMPORARY AMPEREX TECHNOLOGY CO., LIMITED
Address of Applicant :No. 2 Xin'gang Road, Zhangwan Town, Jiaocheng District Ningde, Fujian 352100 China
(72)**Name of Inventor :**
1)YU, Honggang
2)SHANGGUAN, Huihui
3)DU, Xinxin
4)TANG, Daichun

(57) Abstract :
A wound-type electrode assembly (22), a battery cell (20), a battery (100), an electric device, and a method and device (2000) for manufacturing a battery cell, which relate to the technical field of batteries. The wound-type electrode assembly (22) comprises a positive electrode sheet (223). The positive electrode sheet (223) comprises a positive electrode winding start segment (2232) without a positive electrode tab (2231) and a positive electrode winding extension segment (2233) with the positive electrode tab (2231), which are connected to each other. The positive electrode winding start segment (2232) is at least wound around once.

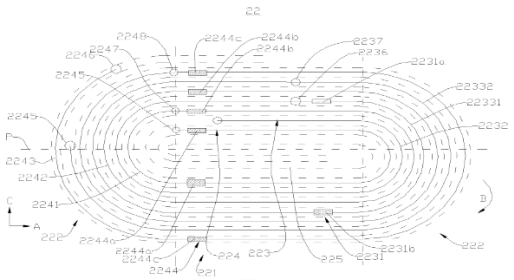

图 10

No. of Pages : 38 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327076032 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TOPICAL NAPROXEN FORMULATIONS AND THEIR USE

(51) International classification :A61K 31/192, A61K 31/196, A61K 47/10
(31) Priority Document No :63/184631
(32) Priority Date :05/05/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/027935
Filing Date :05/05/2022
(87) International Publication No :WO 2022/235978
(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)SMARTECH TOPICAL, INC.
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(72)**Name of Inventor :**
1)HNAT, Thomas

(57) Abstract :
Topical naproxen formulations comprising long chain monounsaturated fatty acids, long chain monounsaturated fatty alcohols, terpenes, or combinations thereof and a solvent mixture comprising ethanol, propylene glycol, 2-(2-Ethoxyethoxy)ethanol, and optionally dimethylsulfoxide (DMSO), wherein the formulation comprises about 5.0 wt% or less water and is preferably anhydrous.

No. of Pages : 34 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327076035 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WATER-SOLUBLE PAINT OR COATING COMPOSITION HAVING ANTIBACTERIAL, DEODORIZING, AND LASTING ABILITY

(51) International classification	:C09D 5/18, C09D 5/02, C09D 133/04, C09D 4/00, C09D 7/61
(31) Priority Document No	:10-2021-0065288
(32) Priority Date	:21/05/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/007189
Filing Date	:19/05/2022
(87) International Publication No	:WO 2022/245157
(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 :107dong 1002ho, 197, Seoun-ro Seocho-gu Seoul 06608 Republic of Korea
(72)**Name of Inventor :**
1)LEE, Sung-Jin

(57) Abstract :
The present invention relates to a water-soluble paint or coating composition comprising: a zeolite-based inorganic compound in which one or more metallic ions with excellent antibacterial ability are ionically bonded; a clay mineral with excellent deodorizing ability; and a photocatalyst having lasting ability. The present invention is characterized by comprising: 1-15wt% of metallic zeolite, which is configured by ionic bonding between metal ions and zeolite; 1-15wt% of clay mineral; and 1-10wt% of photocatalyst, and may exhibit, at the same time, an antibacterial effect, a deodorizing effect, and a lasting effect.

No. of Pages : 21 No. of Claims : 11

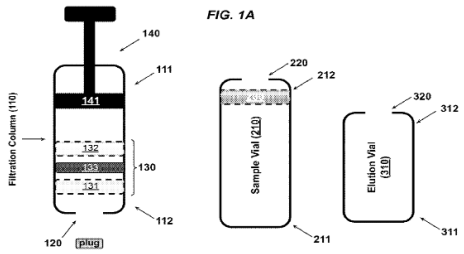
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :07/11/2023
(21) Application No.202327076043 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS AND SYSTEMS FOR NUCLEIC ACID EXTRACTION

(51) International classification :C12Q 1/6806
(31) Priority Document No :63/171761
(32) Priority Date :07/04/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/023934
Filing Date :07/04/2022
(87) International Publication No :WO 2022/217003
(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)SEEK LABS, INC.
Address of Applicant :350 W 800 N Suite 220 Salt Lake City, UT 84103 U.S.A.
(72)**Name of Inventor :**
1)ROY, Anindita
2)PYPER, Madisen
3)POLITIS, Jonathan
4)OSTLER, Dallin
5)FABRIZIO, Eve F.

(57) Abstract :
The present invention features a simplified sample processing method (e.g., VELOX) to collect high amounts of nucleic acids (e.g., genomic DNA (gDNA)) without equipment and without protein or other contaminants to interfere with sensor signals or similar nucleic acid detection test (sensors or per reagents). Specifically, the present invention provides systems, devices, and methods that allow for isolation and extraction of nucieic acids (e.g., gDNA) especiaiiy in a point of need setting.



No. of Pages : 68 No. of Claims : 267

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076127 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VANADIUM RECOVERY

(51) International classification	:C22B 34/22, B03C 1/00, B03D 1/00, C22B 1/02, C22B 3/04	(71)**Name of Applicant :** **1)AUSTRALIAN VANADIUM LIMITED** Address of Applicant :Level 1, 85 Havelock Street West Perth, Western Australia 6005 Australia
(31) Priority Document No	:2021901042	(72)**Name of Inventor :**
(32) Priority Date	:09/04/2021	**1)RICHARDSON, Todd**
(33) Name of priority country	:Australia	**2)MCNAB, Brian Alexander**
(86) International Application No	:PCT/AU2022/050315	**3)LAM, Sai, Wei**
Filing Date	:08/04/2022	
(87) International Publication No	:WO 2022/213158	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A method (14) for the recovery of vanadium, the method comprising the steps of: (i) Subjecting a vanadium-containing ore (12) to a beneficiation step (14) incorporating a sequence of medium-intensity magnetic separation, high-intensity magnetic separation and reverse silica flotation processes to form a vanadium-containing concentrate; (ii) Roasting (44) the vanadium-containing concentrate; (iii) Leaching (54) a product of the roasting step (ii) to extract vanadium into a pregnant leach liquor; (iv) Passing the pregnant leach liquor of leaching step (iii) to a precipitation step (90); and (v) Treating a precipitate from step (iv) to obtain a vanadium product (112), wherein an iron-titanium product (74) from step (iii) is recovered.

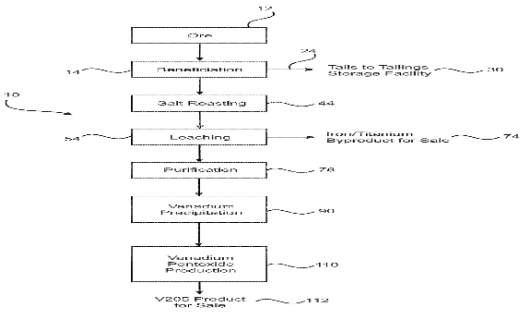


Figure 1

No. of Pages : 37 No. of Claims : 34

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076133 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PURIFICATION OF PROTEINS

(51) International classification	:C07K 14/44, C12N 9/20, C12N 9/28, C12N 9/50, C12N 15/79
(31) Priority Document No	:21167712.5
(32) Priority Date	:09/04/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/059587
Filing Date	:11/04/2022
(87) International Publication No	:WO 2022/214705
(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)CILIAN AG
Address of Applicant :Johann-Krane-Weg 42, DE-48149 Münster, Germany Germany
(72)**Name of Inventor :**
1)HARTMANN, Marcus Wolf William
2)ALDAG, Ingo
3)ROSSDORF, Jan
4)UTHOFF, Stefan
5)SCHUMACHER, Florian

(57) Abstract :
The present invention relates to a method for purifying proteins, which proteins are produced by homologous or heterologous expression in a ciliate host, from harvested cell culture fluid (HCCF) which was not chromatographically purified. The method comprises the steps of incubating a harvested cell culture fluid with a kosmotropic agent, efflorescing protein by formation of crystals, and, optionally, harvesting effloresced protein.

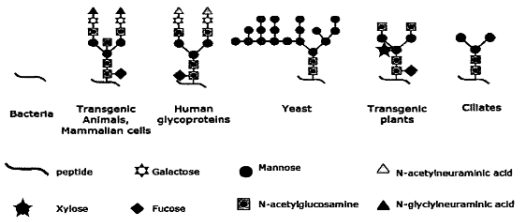


Fig. 1

No. of Pages : 34 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076134 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MULTI-MODE CONVERTIBLE VEHICLE

(51) International classification	:B60F 5/02, B60K 7/00, B64C 27/28, B64C 39/02	(71)**Name of Applicant :** **1)THIUS CANADA INC.** Address of Applicant :318 Dunlin Ridge Nepean, Ontario K2J 0E3 Canada
(31) Priority Document No	:63/172111	(72)**Name of Inventor :**
(32) Priority Date	:08/04/2021	**1)ROCHA, Bruno**
(33) Name of priority country	:U.S.A.	**2)JOSHI, Abhishek**
(86) International Application No	:PCT/CA2022/050543	**3)IENZI, Maurizio**
Filing Date	:08/04/2022	**4)IENZI, Christoforo**
(87) International Publication No	:WO 2022/213209	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A convertible multi-mode vehicle capable of motorized travel in the air, on land, on water, and under water. The multi-mode vehicle is capable of controlled aerial flight, movement on the ground in terrestrial environments, on an aquatic surface, as well as underwater by changing between the different modes. Pivoting propulsion motors enable a convertible configuration from one vehicle locomotion mode to another.

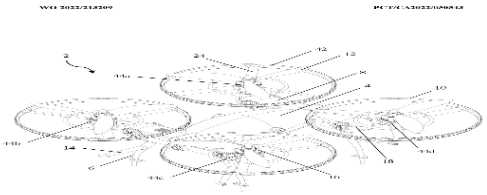


Figure 1

1/14

No. of Pages : 35 No. of Claims : 44

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076143 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BASE STATION, TERMINAL, AND COMMUNICATION METHOD

(51) International classification	:H04W 28/06, H04W 48/12, H04W 48/18, H04W 84/12
(31) Priority Document No	:2021-081515
(32) Priority Date	:13/05/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/009953
Filing Date	:08/03/2022
(87) International Publication No	:WO 2022/239426
(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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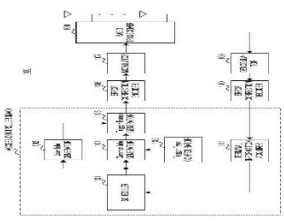
(72)**Name of Inventor :**
1)IWAI, Takashi

(57) Abstract :
This base station comprises: a control circuit which generates a control signal for uplink transmission including, in a field common to a plurality of terminals, information pertaining to a version of the wireless communication specification and a subfield that is differently configured according to the version; and a transmission circuit which transmits the control signal.

Figure of Abstract



No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023
(21) Application No.202327076165 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MULTI-TRANSMITTER SCHEDULING USING SUB-SLOT BASED PHYSICAL SIDELINK SHARED CHANNELS

(51) International classification :H04L 5/00
(31) Priority Document No :17/377100
(32) Priority Date :15/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034203
Filing Date :21/06/2022
(87) International Publication No :WO 2023/287552
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)LIU, Chih-Hao
2)SUN, Jing
3)FONG, Lik Hang Silas
4)XUE, Yisheng
5)ZHANG, Xiaoxia
6)RYU, Jung Ho

(57) Abstract :
Wireless communications systems and methods related to communicating information are provided. A method of wireless communication performed by a user equipment (UE) may include mapping a sub-physical sidelink shared channel (sub-PSSCH), sidelink control information (SCI), and an automatic gain control (AGC) symbol to a sub-slot of a plurality of sub-slots of a slot and transmitting, to at least one other UE, a transport block via the sub-PSSCH of the sub-slot.

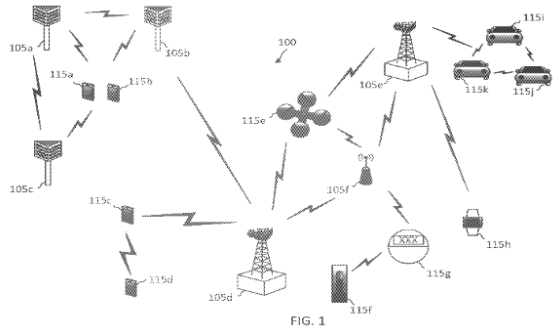


FIG. 1

No. of Pages : 45 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076216 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A CUTTING TOOL

(51) International classification	:C22C 1/04, C22C 29/06, C22C 29/08, C23C 16/02, C23C 16/36	(71)**Name of Applicant :** **1)AB SANDVIK COROMANT** Address of Applicant :Mossvägen 10 811 81 Sandviken Sweden
(31) Priority Document No	:21172624.5	(72)**Name of Inventor :**
(32) Priority Date	:07/05/2021	**1)VON FIEANDT, Linus**
(33) Name of priority country	:EPO	**2)LINDAHL, Erik**
(86) International Application No	:PCT/EP2022/062300	**3)BÖÖR, Katalin**
Filing Date	:06/05/2022	
(87) International Publication No	:WO 2022/234095	
(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 coated cutting tool comprising a substrate at least partially coated with a coating, said substrate is made of cemented carbide composed of hard constituents in a metallic binder and wherein said metallic binder comprises more than 60 wt% Ni, said coating comprise two or more layers, wherein the layer adjacent to the substrate is a W(CxN1-x)y layer, wherein 0.6=x=0.8 and 1.1=y=1.8 with a W(CxN1-x)y layer thickness of 0.4-7 µm.

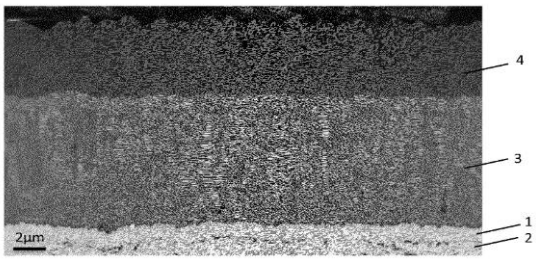


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076217 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A CUTTING TOOL

(51) International classification	:C23C 28/04, C23C 16/34, C23C 16/36, C23C 30/00
(31) Priority Document No	:21172625.2
(32) Priority Date	:07/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/062299
Filing Date	:06/05/2022
(87) International Publication No	:WO 2022/234094
(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)AB SANDVIK COROMANT
Address of Applicant :Mossvägen 10 811 81 SANDVIKEN Sweden
(72)**Name of Inventor :**
1)VON FIEANDT, Linus
2)BÖÖR, Katalin

(57) Abstract :
The present invention relates to a cutting tool comprising a substrate at least partially coated with a 1-25 µm coating, said substrate is of cemented carbide or cermet, said coating comprise one or more layers, wherein at least one layer is a W(CxN1-x)y layer, wherein 0.6=x=0.8 and 1.1=y=1.8 and with a layer thickness of 1-20 µm.

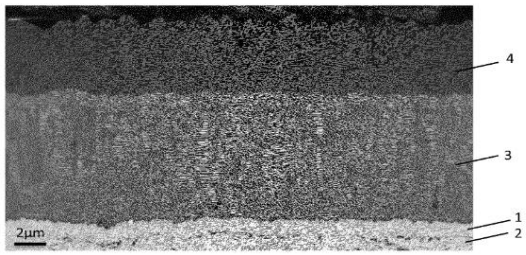


Fig. 1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

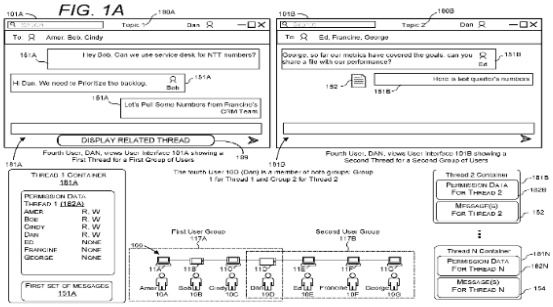
(21) Application No.202327076220 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROLLED DISPLAY OF RELATED MESSAGE THREADS

(51) International classification	:G06Q 10/00, G06Q 10/10
(31) Priority Document No	:17/333004
(32) Priority Date	:27/05/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/027194
Filing Date	:02/05/2022
(87) International Publication No	:WO 2022/250874
(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)MICROSOFT TECHNOLOGY LICENSING, LLC
Address of Applicant :One Microsoft Way Redmond, Washington 98052-6399 U.S.A.
(72)**Name of Inventor :**
1)HASSAN, Amer Aref

(57) Abstract :
The techniques disclosed herein provide a system that can identify two or more independently managed message threads and modify a user interface to enable a common user of the threads to view messages of both threads. For instance, if a user is participating in a first chat session that is displayed within a first message thread, the system can identify other threads that are related to the first thread. The related threads can be identified by a user input or by a query performed by a system. In some embodiments, the system can only search for threads that have at least one common user to the first thread. The system can provide this display of two related threads while linking the threads but not merging the messages of the threads. A data structure can be maintained to control the display of each thread.



No. of Pages : 27 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2023

(21) Application No.202327077664 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EARLY BEAM FAILURE DETECTION

(51) International classification :H04B 7/06
(31) Priority Document No :17/372334
(32) Priority Date :09/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/032966
Filing Date :10/06/2022
(87) International Publication No :WO 2023/283019
(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)QUALCOMM INCORPORATED
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(72)**Name of Inventor :**
1)ZHOU, Shanyu
2)DAMNJANOVIC, Jelena
3)LUO, Tao

(57) Abstract :
A method of wireless communication may include a UE and a base station. The base station may transmit at least one beam failure detection reference signal (BFD-RS) to the UE and the UE may receive at least one BFD-RS from a base station. The UE may transmit an aperiodic beam failure indication (BFI) report to the base station prior to a beam failure detection. The base station may determine that an early beam failure occurred and initiate a beam failure recovery in response to receiving the aperiodic BFI report from the UE.

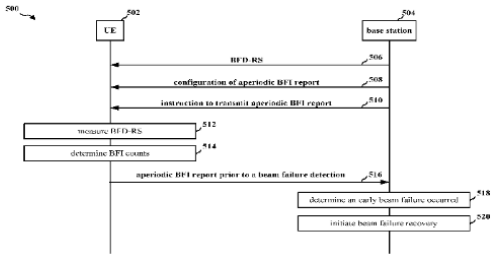

FIG. 5

No. of Pages : 43 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :15/11/2023

(21) Application No.202327077666 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SEMI-PERSISTENT SCHEDULED FEEDBACK DEFERRAL WITH CARRIER SWITCHING IN UPLINK CARRIER AGGREGATION

(51) International classification	:H04L 1/18, H04W 72/02
(31) Priority Document No	:20210100460
(32) Priority Date	:08/07/2021
(33) Name of priority country	:Greece
(86) International Application No	:PCT/US2022/034791
Filing Date	:23/06/2022
(87) International Publication No	:WO 2023/283057
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)HUANG, Yi
2)DIMOU, Konstantinos
3)ZHOU, Yan
4)CHEN, Wanshi
5)GAAL, Peter

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A user equipment (UE) may monitor a first slot for a semi persistent scheduled (SPS) transmission on a first serving cell of multiple serving cells in a physical uplink control channel (PUCCH) group. The UE may be configured to transmit feedback information for the SPS transmission in a target slot. The UE may select either the target slot or a subsequent second slot for transmission of the feedback information based on an availability of uplink resources on the multiple serving cells in the target slot. The UE may transmit the feedback information to a base station in the target slot or the subsequent second slot based on the selection. The described techniques may enable the UE to transmit the feedback information with reduced latency, among other benefits.

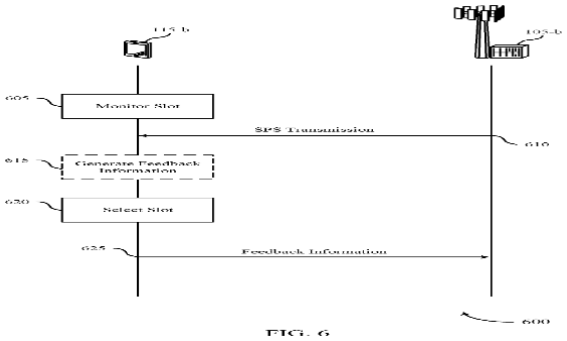

FIG. 6

No. of Pages : 72 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2023

(21) Application No.202327077808 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VALVE ACTUATOR ASSEMBLY

(51) International classification	:F16K 7/12, F16K 1/226, F16K 7/14, F16K 7/16, F16K 31/00	(71)**Name of Applicant :** **1)NEWBERG, Douglas, Arthur** Address of Applicant :9002 Bordeaux Court Cincinnati, OH 45242 U.S.A.
(31) Priority Document No	:63/175612	(72)**Name of Inventor :**
(32) Priority Date	:16/04/2021	**1)NEWBERG, Douglas, Arthur**
(33) Name of priority country	:U.S.A.	**2)NEWBERG, Douglas, Arthur**
(86) International Application No	:PCT/US2022/025042	
Filing Date	:15/04/2022	
(87) International Publication No	:WO 2022/221674	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
An actuator assembly includes, a main body, a perimeter compressor, an actuator shaft, an actuator, and a sealing member. The perimeter compressor is slidable between a retracted position and an extended position. The actuator shaft extends through the main body and the perimeter compressor and is operably coupled with a proximal end of the actuator shaft to facilitate movement of the actuator shaft between the extended position and the retracted position. The sealing member includes an inner and outer portion. The inner portion is releasably coupled with the distal end of the actuator shaft and is configured to interface with the valve body. Sliding the perimeter compressor into the extended position facilitates sandwiching of the sealing member between the perimeter compressor and the valve body. Sliding the perimeter compressor into the retracted position facilitates releasement of the sealing member therefrom.

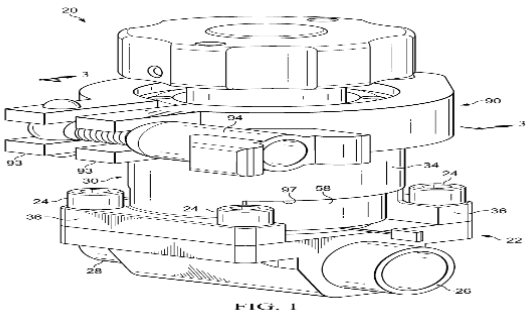

FIG. 1

No. of Pages : 16 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2023
(21) Application No.202327077813 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRIC MOTOR CONTROL DEVICE

(51) International classification	:H02K 3/38, H02K 3/46, H02K 3/52, H02K 11/30
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2021/020644
Filing Date	:31/05/2021
(87) International Publication No	:WO 2022/254502
(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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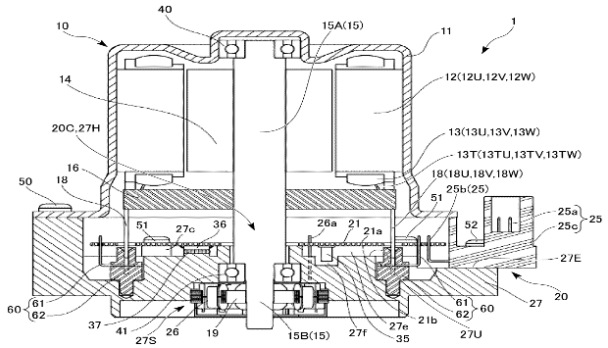
(72)**Name of Inventor :**
1)YOSHIMURA Yoshio

(57) Abstract :
This electric motor control device comprises an electric motor and a control unit. The electric motor has a mechanical portion and electric motor terminals that supply electric power to the mechanical portion. The control unit controls driving of the electric motor and includes a unit case, a substrate positioned between the electric motor and the unit case and having an electric circuit, a connector that receives power and signals input from the outside of the electric motor control device, and a relay component that has relay terminals connecting the electric motor terminals with the electric circuit and relays an electrical connection between the electric motor and the substrate. The unit case fixes the substrate, the connector, and the relay component. The electric motor terminals extend from the electric motor toward the control unit. The electric motor terminals are connected to the relay terminals of the relay component. The relay terminals are electrically connected to the electric circuit.



No. of Pages : 33 No. of Claims : 7

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :09/11/2023
(21) Application No.202327076721 A
(43) Publication Date : 19/04/2024

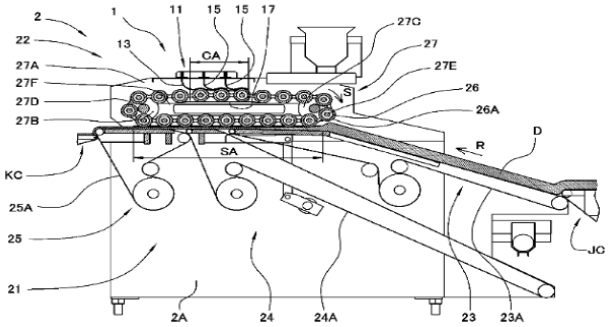
(54) Title of the invention : CLEANING DEVICE FOR EXTENSION ROLLER

(51) International classification :A21C 3/02, B08B 1/00
(31) Priority Document No :2021-075786
(32) Priority Date :28/04/2021
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2022/015147
Filing Date :28/03/2022
(87) International Publication No :WO 2022/230543
(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)RHEON AUTOMATIC MACHINERY CO., LTD.
Address of Applicant :2-3, Nozawa-machi, Utsunomiya-shi, Tochigi 3200071 Japan
(72)**Name of Inventor :**
1)TAKAMA Akinori

(57) Abstract :
A cleaning device (1) according to the present invention is for cleaning the surfaces (26A) of extension rollers (26) in a dough extension apparatus (2), and comprises: a cleaning device body (11) which is to be attached to the dough extension apparatus; and a flexible, belt-like cleaning member (13) which is to be attached to the cleaning device body. The cleaning member comprises end parts (13A) and a cleaner part (13B) having a cleaning surface (13C). The cleaning member is configured such that: one end or both ends thereof are fixed to the cleaning device body so as to have the cleaner part hanging downward; and the cleaning surface of the cleaner part comes into abutment with the surfaces of the extension rollers of the dough extension apparatus and is capable of being bent and deformed so as to conform to the surfaces of the extension rollers.

FIG.1



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2023
(21) Application No.202327076872 A
(43) Publication Date : 19/04/2024

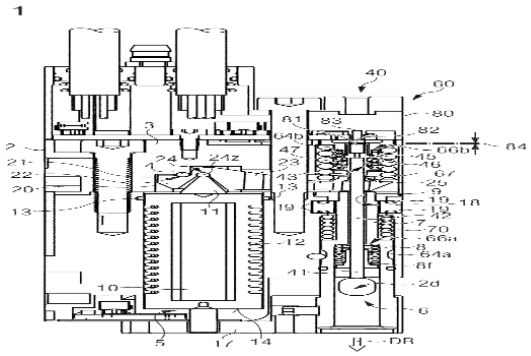
(54) Title of the invention : METERING SYSTEM

(51) International classification :B05C 5/02
(31) Priority Document No :10 2021 114 302.0
(32) Priority Date :02/06/2021
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2022/064801
Filing Date :31/05/2022
(87) International Publication No :WO 2022/253850
(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)VERMES MICRODISPENSING GMBH
Address of Applicant :Rudolf-Diesel-Ring 2 83607 Holzkirchen Germany
(72)**Name of Inventor :**
1)SCHMIDBERGER, Simon
2)FLIESS, Mario

(57) Abstract :
The invention relates to a metering system (1) with a housing (2), a piezo actuator (10) located therein, a fluidic unit (15) with a valve (16), a plunger device (40) for closing the valve (16), and a transmission lever (20) for coupling the piezo actuator (10) to the plunger device (40), wherein the piezo actuator (10) is arranged substantially parallel next to the plunger device (40) in the housing (2), wherein the piezo actuator (10) extends away from the transmission lever (20) substantially in the direction of a side facing the valve (16).

FIG 1



No. of Pages : 35 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :10/11/2023

(21) Application No.202327077022 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POSITIONING WITH A SIMPLE REPEATER

(51) International classification :H04W 64/00
(31) Priority Document No :17/373108
(32) Priority Date :12/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072692
Filing Date :01/06/2022
(87) International Publication No :WO 2023/288155
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)ZORGUI, Marwen
2)YERRAMALLI, Srinivas
3)FAHIM, Mohammad Tarek

(57) Abstract :
This disclosure provides systems, methods, and devices for wireless communication that support enhanced positioning operations using a repeater. In a first aspect, a method of wireless communication includes receiving, by the UE, an instruction from a base station (BS) to perform a first signal measurement at a first time and a second signal measurement at a second time; determining, by the UE and based on the instruction, a first signal characteristic of a first signal during the first time corresponding to a time when a first repeater is repeating the first signal from a base station; determining, by the UE and based on the instruction, a second signal characteristic of a second signal during the second time corresponding to a time when the first repeater is not repeating the second signal; and a location of the UE is determined based on the first signal characteristic and the second signal characteristic.

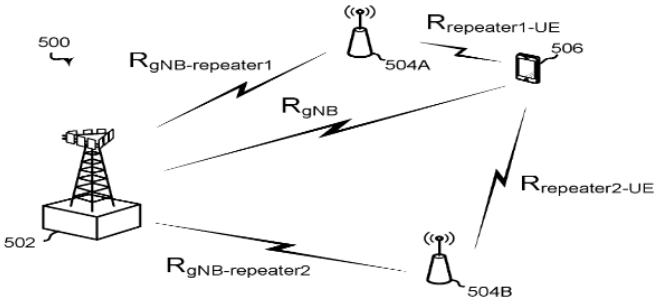


FIG. 5

No. of Pages : 64 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2023

(21) Application No.202327077090 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CEMENTITIOUS PRODUCTION FROM NON-LIMESTONE MATERIAL

(51) International classification	:C04B 7/02, C01B 7/00, C01B 33/00, C01F 5/22, C01F 5/24	(71)**Name of Applicant :** **1)BRIMSTONE ENERGY, INC.** Address of Applicant :1715 Poplar Street Oakland, California 94607 U.S.A.
(31) Priority Document No	:63/173703	(72)**Name of Inventor :**
(32) Priority Date	:12/04/2021	**1)FINKE, Cody**
(33) Name of priority country	:U.S.A.	**2)DRY, Michael J.**
(86) International Application No	:PCT/US2022/024496	**3)KASHYAP, Vivek**
Filing Date	:12/04/2022	**4)KARUMB, Evody Tshijik**
(87) International Publication No	:WO 2022/221334	**5)HARVEY-COSTELLO, Nydra**
(61) Patent of Addition to Application Number	:NA	**6)BRESSON, James Alexis**
Filing Date	:NA	**7)KELLER, Margaret Josephine**
(62) Divisional to Application Number	:NA	**8)LEANDRI, Hugo Francois**
Filing Date	:NA	

(57) Abstract :
Methods and composition are provided for deriving cement and/or supplementary cementitious materials, such as pozzolans, from one or more non-limestone materials, such as one or more non-limestone rocks and/or minerals. The non-limestone materials, e.g., non-limestone rocks and/or minerals, are processed in a manner that a desired product, e.g., cement and/or supplementary cementitious material, is produced.

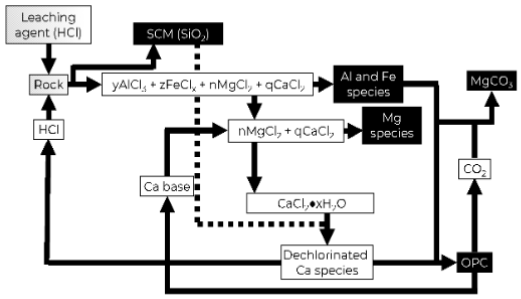


Figure 12

No. of Pages : 89 No. of Claims : 161

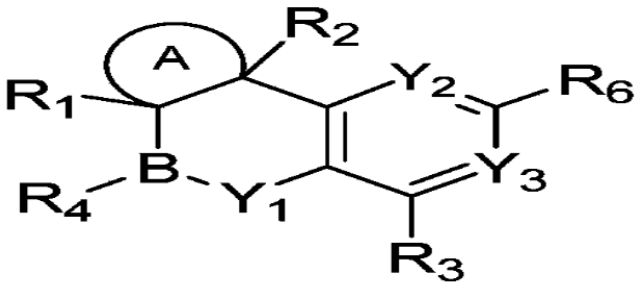
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2023
(21) Application No.202327077091 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BORIC ACID DERIVATIVE ACTING AS ß-LACTAMASE INHIBITOR

(51) International classification :C07F 5/02, C07F 5/04, A61K 31/69, A61P 31/00, A61P 31/04
(31) Priority Document No :202110392189.3
(32) Priority Date :13/04/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/086545
Filing Date :13/04/2022
(87) International Publication No :WO 2022/218328
(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)TUOJIE BIOTECH (SHANGHAI) CO., LTD.
Address of Applicant :Room 103, No.14 Building, No.3728 Jinke Road, Free Trade Pilot Zone, Pudong New Area Shanghai 201203 China
(72)**Name of Inventor :**
1)LIU, Haomiao
2)GONG, Honglong
3)LI, Wenming
4)YU, Jian
5)ZHU, Wei
6)ZOU, Hao
7)LI, Zhengtao

(57) Abstract :
A boric acid derivative of a ß-lactamase inhibitor as represented by formula I, or a pharmaceutically acceptable salt thereof, and a stereoisomer and a rotamer or a tautomer or a deuterated compound of the derivative and salt. The boric acid derivative can be used to treat bacterial infections.



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No. of Pages : 44 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :11/11/2023
(21) Application No.202327077101 A
(43) Publication Date : 19/04/2024

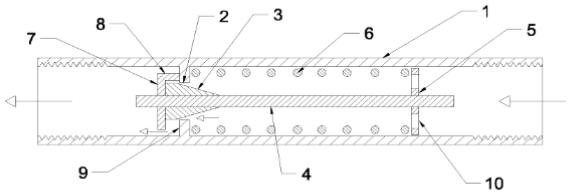
(54) Title of the invention : FLUID FLOW THROTTLE VALVE

(51) International classification :G05D 16/10
(31) Priority Document No :20215438
(32) Priority Date :13/04/2021
(33) Name of priority country :Finland
(86) International Application No :PCT/FI2022/050203
Filing Date :29/03/2022
(87) International Publication No :WO 2022/219231
(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)SOLAR WATER SOLUTIONS OY
Address of Applicant :Keilaranta 1 02150 Espoo Finland
(72)**Name of Inventor :**
1)POHJOLA, Heikki

(57) Abstract :
A fluid flow throttle valve that keeps the pressure of a fluid flow pumped into a system by a high-pressure pump constant and that is particularly suitable as a reject valve for maintaining the system pressure of a reverse osmosis device at a pressure level of 20 bar. The flow pressure is regulated by a spring-actuated cone (3) that is partially within the outflow channel (2) of the throttle valve at any given time. A motion restrictor (7;8) is supported to the wider end of the cone (3) such that in its lowest position, the cone (3) permits a bypass flow of a predetermined volume up to the target pressure of the system. As the flow volume increases further and the cone (3) rises as a result, the force exerted on the restrictor member (7) by the flow pressure contributes to preventing the valve from closing.

Fig.2



No. of Pages : 12 No. of Claims : 3

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023

(21) Application No.202327077191 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CAMERA ASSEMBLY AND ELECTRONIC DEVICE

(51) International classification	:H04N 5/225, H04M 1/02
(31) Priority Document No	:202110393943.5
(32) Priority Date	:13/04/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/085806
Filing Date	:08/04/2022
(87) International Publication No	:WO 2022/218225
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)VIVO MOBILE COMMUNICATION CO., LTD.
Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China
(72)**Name of Inventor :**
1)XU, Nenghua

(57) Abstract :
The present application provides a camera assembly and an electronic device. The camera assembly comprises: a first circuit board, a flexible circuit board, a base, a plurality of first elastic members, a first coil, and a photosensitive chip. Fixed ends of the plurality of first elastic members are fixedly mounted on the base, and free ends of the plurality of first elastic members are suspended. The first circuit board is mounted on a suspension rack formed by the plurality of first elastic members, and the first coil and the photosensitive chip are provided on the first circuit board. One end of the flexible circuit board is fixedly connected to the first circuit board, and the other end of the flexible circuit board is fixedly connected to the base.

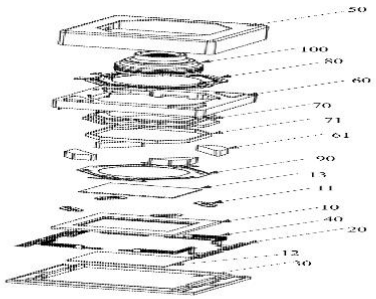


图 1

No. of Pages : 11 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023
(21) Application No.202327077212 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD, DEVICE AND COMPUTER PROGRAM PRODUCT FOR WIRELESS COMMUNICATION

(51) International classification	:H04W 48/18, H04W 40/00
(31) Priority Document No	:PCT/CN2021/105558
(32) Priority Date	:09/07/2021
(33) Name of priority country	:PCT
(86) International Application No	:PCT/CN2021/105558
Filing Date	:09/07/2021
(87) International Publication No	:WO 2023/279386
(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)ZTE CORPORATION
Address of Applicant :ZTE Plaza, Keji Road South, Hi-Tech Industrial Park, Nanshan Shenzhen, Guangdong 518057 China
(72)**Name of Inventor :**
1)LIANG, Shuang

(57) Abstract :
Method, device and computer program product for wireless communication are provided. A method includes: receiving, by a wireless communication terminal from an access and mobility management node, updated prioritization information of at least one of Visitor Public Land Mobile Networks, VPLMNs, or access technology; and updating, by the wireless communication terminal, a prioritization of at least one of VPLMN or access technology for Public Land Mobile Network, PLMN, selection according to the updated prioritization information.

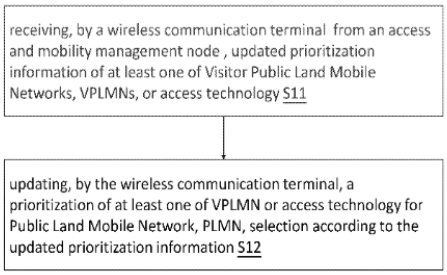


FIG. 13

No. of Pages : 32 No. of Claims : 37

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023
(21) Application No.202327077279 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : OXYGEN LANCE GUIDING ASSEMBLY

(51) International classification	:F27D 3/15, C21B 7/12
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/EP2021/061990
Filing Date	:06/05/2021
(87) International Publication No	:WO 2022/233414
(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)TMT TAPPING MEASURING TECHNOLOGY SÀRL
Address of Applicant :32, rue d'Alsace 1122 Luxembourg Luxembourg
(72)**Name of Inventor :**
1)ZUANG, Max
2)CLESEN, Romain

(57) Abstract :
The invention relates to an oxygen lance guiding assembly comprising an oxygen lance feeding device (20) that is arranged on a tap hole drilling unit which includes, on a receptacle (13) for arranging a drilling mechanism (14), a drilling rod guiding device (15) for a drilling rod that can be driven by the drilling mechanism (14); in an operating position, the oxygen lance feeding device (15) is located in a gap between the drilling rod guiding device (15) and the drilling mechanism (14) such that the drilling rod guiding device (15) is used to form an oxygen lance guiding axis (24).

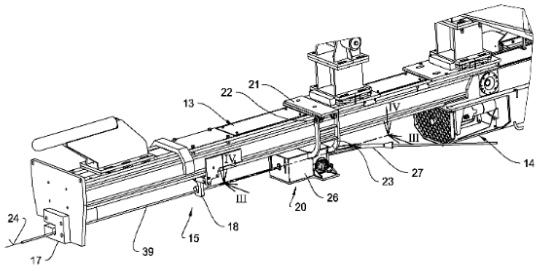


Fig. 2

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327077280 A
(19) INDIA
(22) Date of filing of Application :13/11/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : FORMULATIONS OF CANNABINOIDS

(51) International classification	:A61K 9/107, A61K 9/14, A61K 31/352, A61K 47/10, A61K 47/32
(31) Priority Document No	:21168880.9
(32) Priority Date	:16/04/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/060276
Filing Date	:19/04/2022
(87) International Publication No	:WO 2022/219198
(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)ADD ADVANCED DRUG DELIVERY TECHNOLOGIES LTD.
Address of Applicant :Kraftwerkstrasse 6 4133 Pratteln Switzerland
(72)**Name of Inventor :**
1)NOWAK, Reinhard
2)NOWAK, Mirko
3)NOWAK, Jesko Jay
4)DR. PÖLLINGER, Norbert

(57) Abstract :
Pharmaceutical formulation in the form of a solid dispersion, wherein the solid dispersion comprises in admixture a cannabinoid, an amphiphilic block copolymer as a solubilizer and a water-soluble film former. A method for preparing a formulation as defined, wherein the method comprises the following steps: (i) preparing a liquid composition comprising the cannabinoid, the amphiphilic block copolymer and a solvent capable of at least partially dissolving the cannabinoid and the amphiphilic block copolymer; (ii) introducing the liquid composition into a fluid bed granulator; (iii) removing solvent to obtain a solid dispersion in particulate form; and (iv) recovering the solid dispersion in particulate form from the fluid bed granulator.

No. of Pages : 26 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023
(21) Application No.202327077281 A
(43) Publication Date : 19/04/2024

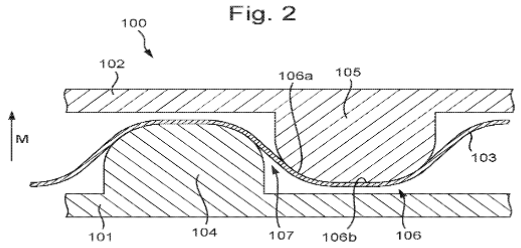
(54) Title of the invention : SMA HAPTIC ASSEMBLY

(51) International classification :F03G 7/06, G06F 3/01
(31) Priority Document No :2108619.4
(32) Priority Date :16/06/2021
(33) Name of priority country :U.K.
(86) International Application No :PCT/GB2022/051526
Filing Date :16/06/2022
(87) International Publication No :WO 2022/263833
(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)CAMBRIDGE MECHATRONICS LIMITED
Address of Applicant :The Westbrook Centre, Building 6 Milton Road Cambridge Cambridgeshire CB4 1YG U.K.
(72)**Name of Inventor :**
1)BROWN, Andrew Benjamin Simpson
2)BUNTING, Stephen Matthew

(57) Abstract :
An SMA actuator assembly comprises first and second parts movable relative to each other along a movement axis; and a length of SMA wire, each of the ends of the length of SMA wire being connected to the first or second part. At least one of the first and second parts comprises at least one contact portion arranged to guide the length of SMA wire along a tortuous path with a curved section of the length of SMA wire extending around the or each contact portion. The at least one contact portion is shaped to provide the curved section of the length of SMA wire with a radius of curvature that is greater in a central region of the curved section than in outer regions of the curved section.

Fig. 2



No. of Pages : 14 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2023

(21) Application No.202327077851 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR THE PREPARATION OF HIGHLY PURE SALCAPROZIC ACID AND PHARMACEUTICALLY ACCEPTABLE SALTS THEREOF

(51) International classification	:C07C 231/14, C07C 231/24, C07C 235/60, C07D 265/26
(31) Priority Document No	:63/176029
(32) Priority Date	:16/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/024963
Filing Date	:15/04/2022
(87) International Publication No	:WO 2022/221629
(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)NAVINTA III INC
Address of Applicant :1003 Clint Moore Road Boca Raton, Florida 33487 U.S.A.
(72)**Name of Inventor :**
1)PARMAR, Pankaj Vasudev
2)MUTHIAH, Raja Jeyakumar John
3)CHAUHAN, Vikas Kantilal
4)SOLANKI, Jagdish Kanjibhai

(57) Abstract :
Processes that use novel reagents for the removal of colored impurity during the preparation of Salcaprozic Acid and pharmaceutically acceptable salts thereof. The processes include hydrolysis of 8-(2,4-dioxo-1,3-benzoxazin-3-yl)octanoic acid ethyl ester in the presence of or by contacting it with benzotriazole, hydrazine and/or sodium borohydride.

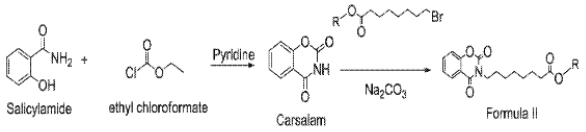


FIG. 1

No. of Pages : 23 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2023
(21) Application No.202327077985 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : STEEL CORD FOR REINFORCING TIRE BELT PLIES

(51) International classification :D07B 1/06, B60C 9/00
(31) Priority Document No :10-2021-0064482
(32) Priority Date :20/05/2021
(33) Name of priority country :Republic of Korea
(86) International Application No :PCT/KR2022/006615
Filing Date :10/05/2022
(87) International Publication No :WO 2022/245033
(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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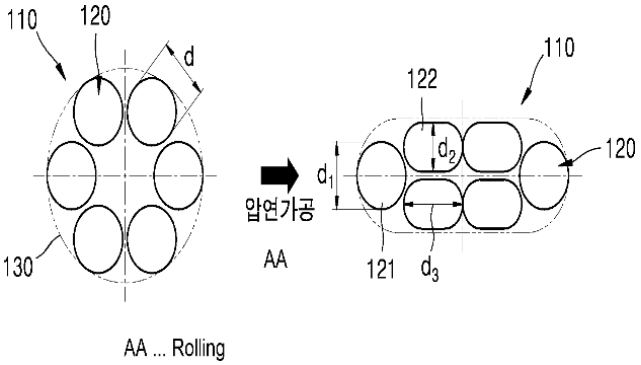
Address of Applicant :328, Cheolgang-ro, Nam-gu, Pohang-si, Gyeongsangbuk-do 37871 Republic of Korea
(72)**Name of Inventor :**
1)PARK, Pyeong Yeol
2)KIM, Gi Hwan

(57) Abstract :
The present invention relates to a steel cord for reinforcing tire belt plies, comprising a cord formed by periodically twisting n wires, wherein: the n wires are compressed by rolling, the wires are compressed by rolling such that at least one of the n wires is compressed into a non-circular shape; and if n is an odd number, the cross-section of one wire from among the n wires becomes circular and the cross-section of n-1 wires becomes non-circular by rolling, and if n is an even number, the cross-section of two wires from among the n wires becomes circular and the cross-section of n-2 wires becomes non-circular by rolling.



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

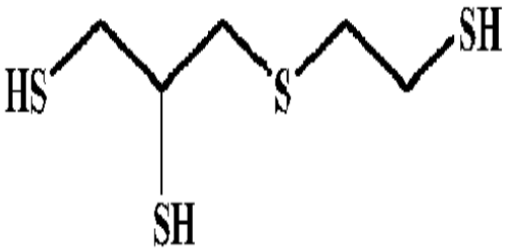
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :16/11/2023
(21) Application No.202327078006 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POLYTHIOL COMPOSITION AND USE THEREOF

(51) International classification :C08G 18/38, G02B 1/04
(31) Priority Document No :202210420097.6
(32) Priority Date :20/04/2022
(33) Name of priority country :China
(86) International Application No :PCT/CN2023/089138
Filing Date :19/04/2023
(87) International Publication No :WO 2023/147792
(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)EFIRM NEW MATERIAL CO., LTD
Address of Applicant :Economic Development Zone, Boxing County Binzhou, Shandong 256500 China
(72)**Name of Inventor :**
1)SUN, Zhili
2)LIANG, Wangen
3)CUI, Weihua
4)XU, Qianqian
5)FEI, Xiaoyao
6)BIAN, Wen

(57) Abstract :
The invention relates to the technical field of optical resin, in particular to a polythiol composition and a use thereof. The polythiol composition comprises a thiol compound represented by formula (1) and 2,3-dithio (2-mercapto)-1-propane mercaptan, wherein the mass content of the compound represented by formula (1) in the composition is 0.01-3.0%. Further, the polythiol composition may be used alone or mixed with other polythiol compounds, in the presence of a catalyst with one or more polyisocyanates, for preparing an optical material. The optical material has excellent optical properties.



(1)

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023
(21) Application No.202327078280 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL PROCESS FOR THE PREPARATION OF 2-CHLORO-4-FLUOROTOLUENE

(51) International classification :C07C 17/00, C07C 245/20
(31) Priority Document No :202121027243
(32) Priority Date :18/06/2021
(33) Name of priority country :India
(86) International Application No :PCT/IN2022/050553
Filing Date :17/06/2022
(87) International Publication No :WO 2022/264172
(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)AARTI INDUSTRIES LIMITED
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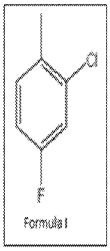
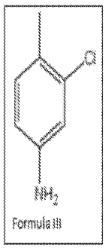
(72)**Name of Inventor :**
1)POTNIS, Prashant
2)DHINGRA, Surender

(57) Abstract :
The present invention relates to a process for the preparation of 2-chloro-4-fluorotoluene of formula I from diazotization of 2-chloro-4-aminotoluene of formula III.





No. of Pages : 14 No. of Claims : 11

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023

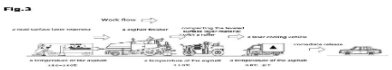
(21) Application No.202327078327 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COOLING METHOD FOR ASPHALT PAVING AND THE LIKE, AND ROAD SURFACE LAYER REGENERATION METHOD USING SAME

(51) International classification	:E01C 7/18, E01C 23/00, E01C 23/12, E01C 19/22, E01C 19/28
(31) Priority Document No	:2021-088104
(32) Priority Date	:26/05/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/012933
Filing Date	:21/03/2022
(87) International Publication No	:WO 2022/249683
(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)YOSHITANI DOBOKU KABUSHIKIKAISHA
Address of Applicant :301, Kouei building, 2-2-22,Hanasaki,Narashino-shi, Chiba 2750013 Japan
(72)**Name of Inventor :**
1)YOSHITANI Tokuichi
2)YOSHITANI Takuma

(57) Abstract :
[Problem] To provide an attempt at a novel construction work technology by shortening construction work time on the basis of the concept of the reduction of economic losses in industry, preferably by suppressing industrial waste processing, and more preferably by introducing a new asphalt cooling technology. [Solution] Provided is a road surface regeneration process using a laser cooling vehicle, wherein the process is characterized by including: a step for heating and softening a surface layer material of a road surface, collecting the surface layer material into a road surface layer regeneration vehicle, and adding and mixing a modified polymer into the surface layer material while the same is being heated in the vehicle; a step for evenly re-spreading the mixed surface layer material on the road surface; a step for roller compacting the evenly spread surface layer material; and a step for cooling the compacted surface layer material by the laser cooling vehicle.



No. of Pages : 12 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023
(21) Application No.202327078328 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SEMICONDUCTOR DEVICE DRIVING METHOD AND DRIVING DEVICE, AND POWER CONVERSION APPARATUS

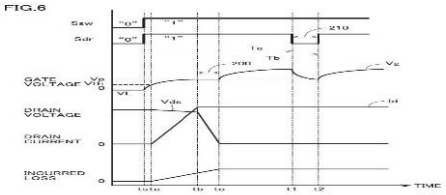
(51) International classification	:H03K 17/08, H03K 17/16, H02M 1/08, H02M 7/48
(31) Priority Document No	:NA
(32) Priority Date	:NA
(33) Name of priority country	:NA
(86) International Application No	:PCT/JP2021/019856
Filing Date	:25/05/2021
(87) International Publication No	:WO 2022/249297
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)MITSUBISHI ELECTRIC CORPORATION
Address of Applicant :7-3, Marunouchi 2-chome, Chiyoda-ku, Tokyo 1008310 Japan
(72)**Name of Inventor :**
1)IMAMURA, Yasutaka
2)MITSUI, Yohei
3)WADA, Yukihiko
4)MIKI, Takayoshi

(57) Abstract :
This semiconductor device is on/off controlled by controlling a gate voltage in response to a drive control signal (Ssw). In a turn-on operation for charging a gate in response to the transition of the drive control signal (Ssw) from a first level (0) to a second level (1), at a first time (t1) after the end of a mirror period (200) of a gate voltage (Vg), a drive signal (Sdr) is set to the first level (0) to discharge the gate, thereby providing a voltage drop period (210) in which the gate voltage (Vg) is temporarily dropped. At a second time (t2), the drive signal (Sdr) is again set to the second level (1) to start charging the gate.

Figure of Abstract

FIG.6



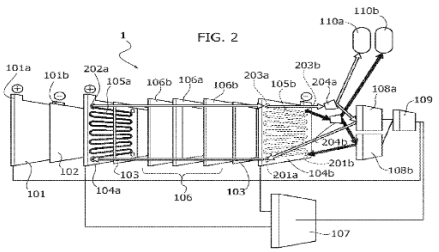
No. of Pages : 47 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023
(21) Application No.202327077282 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHOTO-ELECTROCHEMICAL CELL AND CORRESPONDING APPARATUS

(51) International classification	:C25B 1/04, C25B 3/21, C25B 9/19, C25B 9/50, C25B 9/60	(71)**Name of Applicant :** **1)GREEN INDEPENDENCE S.R.L.** Address of Applicant :Piazza del Popolo, 1 72100 Brindisi (BR) Italy
(31) Priority Document No	:102021000012830	(72)**Name of Inventor :** **1)MONTICELLI, Alessandro**
(32) Priority Date	:18/05/2021	
(33) Name of priority country	:Italy	
(86) International Application No	:PCT/IB2022/054544	
Filing Date	:16/05/2022	
(87) International Publication No	:WO 2022/243845	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
An electrochemical cell (1) comprises a first reaction chamber, which includes a first electrode (104a), a second reaction chamber, which includes a second electrode (104b), and a membrane-electrode assembly (106) having an ion-exchange membrane (106a) between the two reaction half-chambers. The electrochemical cell further comprises a photovoltaic system (101) configured for absorbing solar energy and producing an output voltage between a first terminal (101a) and a second terminal (101b). The first terminal (101a) is selectively couplable to the first electrode (104a) and the second terminal (101b) is selectively couplable to the second electrode (104b). The ratio between the photosensitive area of the photovoltaic system (101) and the active area of the first electrode and of the second electrode is less than or equal to fifty. The photovoltaic system (101) comprises a plurality of photovoltaic cells (150) selectively couplable between the first terminal (101a) and the second terminal (101b) in a series configuration, in a parallel configuration, or in one or more mixed series/parallel configurations. The electrochemical cell comprises an electronic control unit (109) configured to couple the photovoltaic cells (150) in a configuration selected from among said configurations as a function of one or more user-settable parameters, and/or one or more signals received from an external control unit, and/ or one or more signals received from one or more sensors included in the electrochemical cell.



No. of Pages : 22 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023
(21) Application No.202327077286 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ALPHA2 ADRENERGIC AGONIST CODRUGS CONJUGATED WITH MUSCARINIC AGONIST DRUGS

(51) International classification	:A61K 31/4174, A61P 27/02, A61K 31/4164
(31) Priority Document No	:63/176149
(32) Priority Date	:16/04/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/022835
Filing Date	:31/03/2022
(87) International Publication No	:WO 2022/221071
(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)FANG, Wenkui Ken
2)NI, Jinsong
3)YANG, Rong
4)DINH, Van

(57) Abstract :
A co-drug or a pharmaceutical salt thereof includes a muscarinic agonist moiety and an alpha2 adrenergic agonist moiety. The muscarinic agonist moiety and the alpha2 adrenergic agonist moiety are connected covalently via a linker, and the link includes an ester bond, an amide bond, a carbamate bond, or a combination thereof.

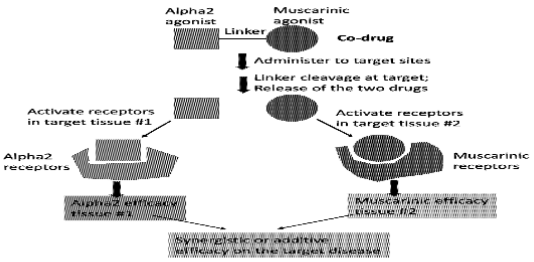

FIG. 1

No. of Pages : 54 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :13/11/2023

(21) Application No.202327077299 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MONITORING AN AMBIENT AIR PARAMETER USING A TRAINED MODEL

(51) International classification :G01W 1/00, G06N 3/04
(31) Priority Document No :63/174880
(32) Priority Date :14/04/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2022/050547
Filing Date :08/04/2022
(87) International Publication No :WO 2022/217342
(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)ECOSYSTEM INFORMATICS INC.
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(72)**Name of Inventor :**
1)ALI, Shirook
2)BAKR, Mohamed
3)KANJ, Houssam

(57) Abstract :
A method and related system are provided for estimating or predicting an output value of a first ambient parameter (AP). Sensors generate a plurality of time-paired training values of the first AP, a second AP, and accuracy factor(s) affecting the accuracy of the measured first or second APs. A computer uses the training values, and trust coefficients based on 5 the accuracy factor to train an air quality prediction model for estimating or predicting the output value of the first AP based on a measured input value of the second AP. The computer estimates or predicts the output value of the first AP by applying the trained air quality prediction model to the input value of the second AP. The estimated or predicted output value of the first AP may be used to calibrate the accuracy of measured values of 10 the first AP, or forecast future values of the first AP.

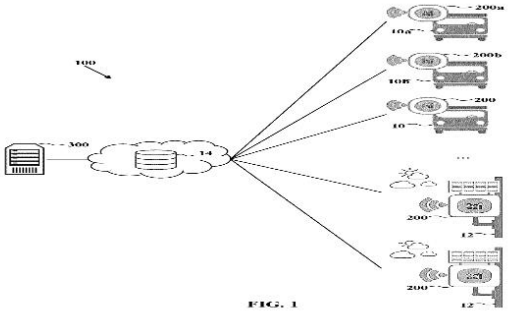

FIG. 1

No. of Pages : 24 No. of Claims : 36

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077325 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A PORTABLE ULTRASOUND DEVICE AND METHOD FOR ULTRASONIC IMAGING

(51) International classification :A61B 8/08, A61B 5/00
(31) Priority Document No :2021901145
(32) Priority Date :19/04/2021
(33) Name of priority country :Australia
(86) International Application No :PCT/AU2022/050356
Filing Date :19/04/2022
(87) International Publication No :WO 2022/221913
(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)VEINTECH PTY LTD
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(72)**Name of Inventor :**
1)BAPPOO, Nikhilesh
2)BUCKLEY, Nicholas Michael
3)ARENSON, Katherine Jane
4)MEHTA, Ritu Sanjaybhai
5)AL ODEH, Saleem Ahmed Saleem

(57) Abstract :
A portable ultrasound device (109) for non-invasively imaging a selected sub-cutaneous structure, comprising: (a) a housing (110); and (b) a plurality of arrays (300A) of transducer elements (300). Each array (300A) is arranged in parallel and each transducer element (300) comprises a transmitter transducer (705) and a receiver transducer (707), located within the housing (110) for continuously transmitting ultrasound energy in a predetermined frequency range toward a body (100) of a subject and continuously receiving echo signals in a predetermined frequency range from the subject's body (100). The plurality of parallel arrays (300A) enables imaging of the sub-cutaneous structure (101, 101A) in multiple transverse and lateral planes. The ultrasound device (109) further includes (c) a controller (250) for operating the plurality of arrays (300A) of transducer elements (300) and communicable with a processor (350) for processing received echo signals from the plurality of arrays (300A) of transducer elements (300); and (d) a screen (104) for displaying an interpretable image (104A, 104B) of said sub-cutaneous structure (101, 101A) produced by the processor (350).

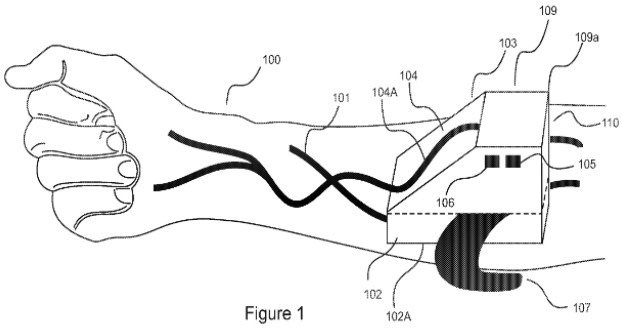

Figure 1

No. of Pages : 33 No. of Claims : 26

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023

(21) Application No.202327077326 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DISCONTINUOUS RECEPTION METHODOLOGY FOR MULTIMEDIA

(51) International classification :H04W 76/28
(31) Priority Document No :63/203156
(32) Priority Date :09/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072846
Filing Date :09/06/2022
(87) International Publication No :WO 2023/283512
(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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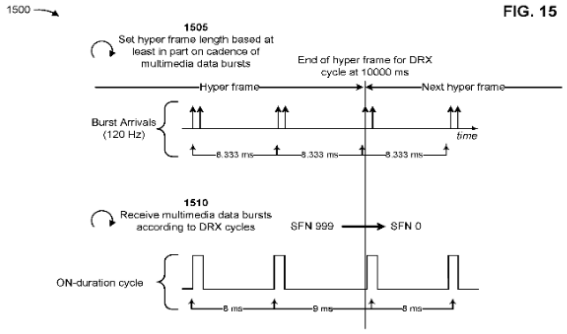
(72)**Name of Inventor :**
1)LEE, Hyun Yong
2)HANDE, Prashanth Haridas
3)TINNAKORNSRISUPHAP, Peerapol
4)MONDET, Mickael
5)PRAKASH, Rajat
6)OZTURK, Ozcan

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, a user equipment (UE) may set a hyper frame length based at least in part on a cadence of multimedia data bursts if discontinuous reception (DRX) cycle are configured for the cadence of the multimedia data bursts. The UE may receive the multimedia data bursts according to the DRX cycles. Numerous other aspects are described.



No. of Pages : 79 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077327 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DYNAMIC SELECTION OF LOCATION MEASUREMENT TIME-DOMAIN WINDOWS FOR POSITIONING

(51) International classification	:G01S 5/00, H04W 64/00, H04W 24/10
(31) Priority Document No	:20210100466
(32) Priority Date	:13/07/2021
(33) Name of priority country	:Greece
(86) International Application No	:PCT/US2022/072732
Filing Date	:02/06/2022
(87) International Publication No	:WO 2023/288157
(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)MANOLAKOS, Alexandros
2)AKKARAKARAN, Sony
3)FISCHER, Sven
4)CHENG, Hong
5)CHEN, Wanshi

(57) Abstract :
In an aspect, a target user equipment performs positioning. For example, the target user equipment receives a control message from a network entity. The control message identifies a set of measurement time windows in which to perform measurements of one or more signals. The target user equipment performs the measurements of the one or more signals within the set of measurement time windows and transmits a measurement report to the network entity. The measurement report comprises the measurements of the one or more signals performed within the set of measurement time windows.

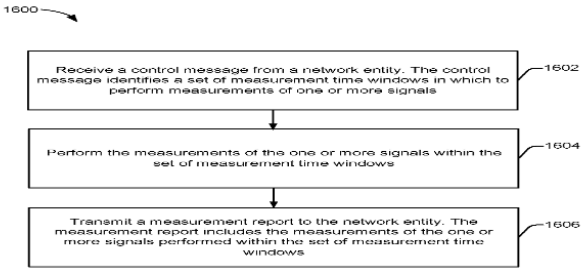

FIG. 16

No. of Pages : 55 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077339 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : REPEATER COMMUNICATION SYSTEM WITH SUB-BAND POWER MEASUREMENT CAPABILITY

(51) International classification :H04B 17/318, H04B 17/40
(31) Priority Document No :17/384694
(32) Priority Date :23/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/073081
Filing Date :22/06/2022
(87) International Publication No :WO 2023/004222
(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 :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)LUO, Jianghong
2)ABEDINI, Navid
3)LI, Junyi
4)LUO, Tao
5)SUN, Jing
6)GAAL, Peter

(57) Abstract :
This disclosure provides systems, methods, and devices for wireless communication that support techniques for operating repeaters based on sub-band power measurements. According to some aspects, sub-band-based power measurements may also allow a repeater to acquire other side information, e.g., time division duplex (TDD) downlink/uplink information or beam configuration information, more accurately. In aspects, a repeater determines one or more sub-band received-signal powers associated with one or more sub-bands of a bandwidth available for wireless communication, amplifies one or more signals received within at least one of the one or more sub-bands, and transmits the amplified one or more signals to at least one of a user equipment (UE) or a base station.

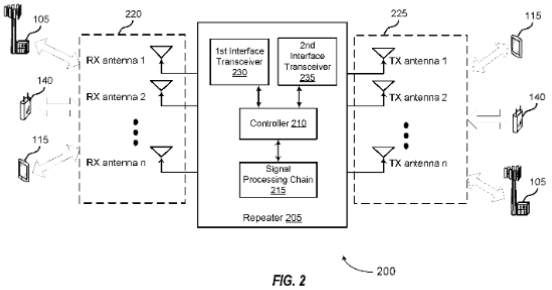

FIG. 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077346 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MODIFYING A CONFIGURATION OF A RADIO BEARER BASED ON A REQUEST FOR QUALITY OF SERVICE (QOS) FOR A COMMUNICATION FLOW

(51) International classification :H04W 28/02
(31) Priority Document No :17/377140
(32) Priority Date :15/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/033643
Filing Date :15/06/2022
(87) International Publication No :WO 2023/287542
(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)MEYLAN, Arnaud
2)HANSWAL, Pulkit
3)ZACHARIAS, Leena
4)LIU, Feilu

(57) Abstract :
Aspects of the present disclosure provide example apparatus, methods, processing systems, and computer readable mediums implementing techniques for modifying a configuration of a radio bearer based on a request for quality of service (QoS) for a communication flow. In aspects, a user equipment (UE) receives a request for a QoS for a communication flow and maps the communication flow to a radio bearer based on a downlink map. The UE is configured to communicate over a number of radio bearers. The downlink map associates one or more communication flows to one or more of the number of radio bearers. The UE then modifies a configuration of the radio bearer based on the request for the QoS. During operation, the UE receives one or more downlink packets on the radio bearer and processes the one or more downlink packets according to the QoS.

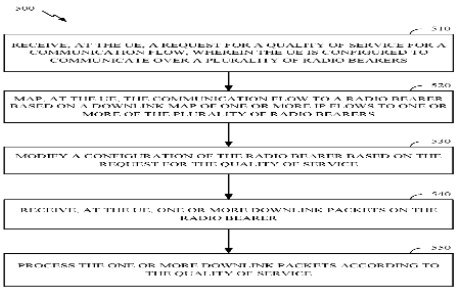

FIG. 5

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077367 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : LOW-EARTH ORBIT (LEO) SATELLITE POSITION, VELOCITY, AND TIME (PVT) DETERMINATION FOR LEO-BASED POSITIONING

(51) International classification :G01S 5/00, G01S 19/42
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2021/106419
Filing Date :15/07/2021
(87) International Publication No :WO 2023/283867
(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)QUALCOMM INCORPORATED
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1)LUO, Ning
2)PENG, Yuxiang
3)ZHANG, Han
4)YANG, Yinghua
5)ZHENG, Bo
6)WANG, Min

(57) Abstract :
Position, Velocity, and Time (PVT) information of a LEO satellite (320) can be determined by leveraging a known position of a mobile device (310) comprising a terrestrial satellite receiver of the LEO satellite (320) and using range information (range and/or range rate) (330) of the LEO satellite (320) taken at the mobile device (310). This PVT information can be shared by the mobile device (310) with the server (430) and/or other mobile devices (310-1, 310-2,……310-m), and information from multiple mobile devices (310-1, 310-2,……310-m) can be crowdsourced to determine robust PVT information for a LEO satellite (320). Once the PVT information is determined, it can be used to subsequently for positioning of the mobile device (310) and/or other mobile devices (310-1, 310-2,……310-m).

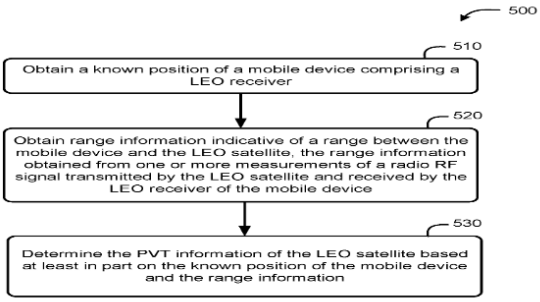

FIG. 5

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077421 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TOPICAL PHARMACEUTICAL COMPOSITION OF HIF PROLYL HYDROXYLASE INHIBITORS

(51) International classification	:A61K 9/00, A61K 31/435, A61P 17/06
(31) Priority Document No	:202121021777
(32) Priority Date	:14/05/2021
(33) Name of priority country	:India
(86) International Application No	:PCT/IB2021/058243
Filing Date	:10/09/2021
(87) International Publication No	:WO 2022/238745
(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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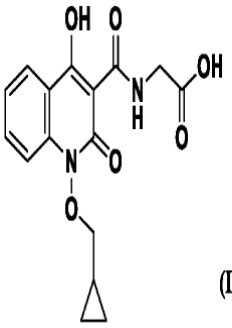
Address of Applicant :Zydus Corporate Park, Scheme No. 63, Survey No. 536, Khoraj (Gandhinagar), Nr. Vaishnodevi Circle, Sarkhej-Gandhinagar Highway, Ahmedabad-382481, Gujarat Gujarat India
(72)**Name of Inventor :**
1)KANNAN, M. E.
2)JAIN, Mukul
3)LADDHA, Ritu
4)UKAWALA, Mukesh
5)PATEL, Jitendra
6)SHARMA, Jaymeen

(57) Abstract :
Present invention relates to topical pharmaceutical composition of suitable HIF prolyl hydroxylase inhibitors. Preferably, present invention is about the topical pharmaceutical composition of compound of formula (Ia). Disclosed topical pharmaceutical composition comprises compound of formula (Ia) or its pharmaceutically acceptable salts and suitable pharmaceutically acceptable excipients. Such composition is useful for treating skin disorders.



(Ia)

No. of Pages : 25 No. of Claims : 22

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023

(21) Application No.202327077425 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SYSTEM AND METHOD FOR COKING AND FLUE GAS TREATMENT

(51) International classification :C10J 3/60
(31) Priority Document No :202111435864.2
(32) Priority Date :30/11/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/131331
Filing Date :11/11/2022
(87) International Publication No :WO 2023/098450
(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)XU, Lie
2)ZHANG, Lixin
3)KANG, Jian
4)XUE, Gaifeng

(57) Abstract :
Provided in the embodiment of the invention are a system and a method for coking and flue gas treatment. The system comprises a coking device, an oxygen supply unit, a gas supply unit, a flow adjusting unit, a gas activation unit, and a gas treatment unit. In the embodiment of the invention, the flow adjusting unit can adjust the oxygen concentration in combustion-supporting gas by adjusting the gas flow, such that the oxygen concentration in the combustion-supporting gas is greater than the oxygen concentration in the air. Therefore, oxygen-enriched combustion is achieved, the generation of nitric oxide in coke furnace flue gas can be reduced, and carbon dioxide in waste gas after combustion is enriched, which facilitates the capture and utilization of carbon dioxide. Carbon dioxide and water vapor in the coke furnace flue gas are treated by the gas activation unit and the gas treatment unit to obtain synthesis gas. The synthesis gas can be used as a chemical raw material. Therefore, the emission of carbon dioxide is reduced, waste is turned into wealth, and low-carbon emission reduction and green production are achieved.

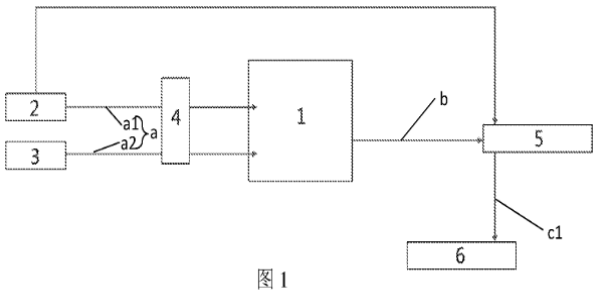

图1

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077432 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIGNALING FOR APERIODIC SOUNDING REFERENCE SIGNALS FOR POSITIONING

(51) International classification :H04L 5/00, H04W 64/00
(31) Priority Document No :20210100476
(32) Priority Date :15/07/2021
(33) Name of priority country :Greece
(86) International Application No :PCT/US2022/072729
Filing Date :02/06/2022
(87) International Publication No :WO 2023/288156
(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)QUALCOMM INCORPORATED
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(72)**Name of Inventor :**
1)MANOLAKOS, Alexandros
2)DUAN, Weimin
3)ABDELGHAFFAR, Muhammad Sayed Khairy

(57) Abstract :
Disclosed are techniques for wireless communication. In an aspect, a location server may send, and a base station may receive, a request for positioning information. The base station may send, and the location server may receive, sounding reference signal (SRS) configuration information comprising first information that describes a frame structure used by the base station and second information that identifies, based on the frame structure used by the base station, an available slot with respect to a reference for an aperiodic SRS transmission, wherein an available slot comprises a slot that has enough uplink symbols, flexible symbols, or both, in the time domain for all SRS resources of the aperiodic SRS transmission.

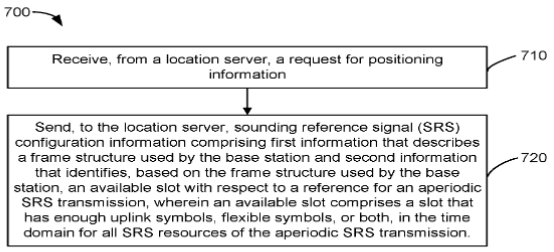

FIG. 7A

No. of Pages : 58 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077434 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : REPORTING POTENTIAL VIRTUAL ANCHOR LOCATIONS FOR IMPROVED POSITIONING

(51) International classification :H04W 64/00
(31) Priority Document No :17/374694
(32) Priority Date :13/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/072675
Filing Date :01/06/2022
(87) International Publication No :WO 2023/288154
(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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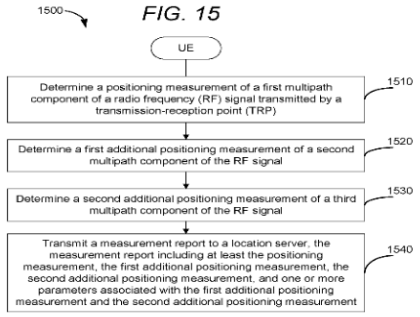
1)AMIRI, Roohollah
2)YERRAMALLI, Srinivas
3)PRAKASH, Rajat
4)YOO, Taesang

(57) Abstract :
Disclosed are techniques for wireless positioning. In an aspect, a user equipment (UE) determines a positioning measurement of a first multipath component of a radio frequency (RF) signal transmitted by a transmission-reception point (TRP), determines a first additional positioning measurement of a second multipath component of the RF signal, determines a second additional positioning measurement of a third multipath component of the RF signal, and transmits a measurement report to a location server, the measurement report including at least the positioning measurement, the first additional positioning measurement, the second additional positioning measurement, and one or more parameters associated with the first additional positioning measurement and the second additional positioning measurement.



No. of Pages : 49 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077470 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : RESOURCE ALLOCATION METHOD, COMMUNICATION APPARATUS, AND COMPUTER-READABLE STORAGE MEDIUM

(51) International classification :H04W 72/04
(31) Priority Document No :202110513712.3
(32) Priority Date :11/05/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/089065
Filing Date :25/04/2022
(87) International Publication No :WO 2022/237520
(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)HU, Mengshi
2)YU, Jian
3)GAN, Ming

(57) Abstract :
The present application provides a resource allocation method, a communication apparatus, and a computer-readable storage medium. An access point determines and transmits a frequency band indication and a resource unit allocation indication according to an RU/MRU allocated by a PPDU. The frequency band indication is used to indicate an index of a frequency band on which the RU/MRU is located, and an index range corresponding to the frequency band indication in the bandwidth of the PPDU is multiplexed into an index range corresponding to the frequency band indication in a first bandwidth. The resource unit allocation indication is used to indicate an RU/MRU index of the RU/MRU in the frequency band, and an index range corresponding to the resource unit allocation indication in the bandwidth of the PPDU is also multiplexed into an index range corresponding to the resource unit allocation indication in the first bandwidth. The first bandwidth is greater than the bandwidth of the PPDU. Hence, in the present application, the first bandwidth greater than the bandwidth of the PPDU is used as a determination basis for allocating the index to the RU/MRU, so that the problem of index mismatch due to the frequency domain position of the PPDU not comprising a primary channel is avoided.

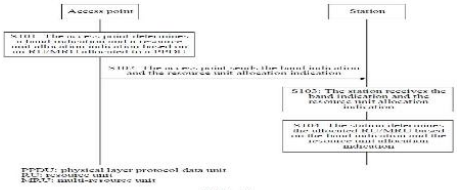

FIG. 11

No. of Pages : 83 No. of Claims : 64

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077475 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INDICATION OF REFERENCE GEOGRAPHIC COORDINATE FOR SIDELINK ZONE

(51) International classification	:H04W 4/70, H04W 76/14, H04W 92/18, H04W 4/02
(31) Priority Document No	:17/443434
(32) Priority Date	:26/07/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/072688
Filing Date	:01/06/2022
(87) International Publication No	:WO 2023/009916
(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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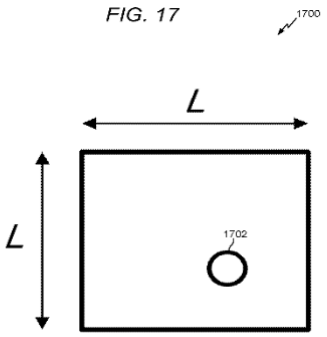
1)BAO, Jingchao
2)AKKARAKARAN, Sony
3)LUO, Tao
4)MONTOJO, Juan

(57) Abstract :
Disclosed are techniques for wireless communication. In an aspect, a communications device (e.g., UE, gNB, LMF, etc.) determines a reference geographic coordinate (e.g., local or global coordinate) for a plurality of sidelink zones, wherein boundaries associated with each sidelink zone are defined via a respective sidelink zone identifier that includes one or more geographic offsets relative to the reference geographic coordinate. A UE receives an indication of the reference geographic coordinate, and performs one or more sidelink zone-related operations based on the reference geographic coordinate.

FIG. 17



No. of Pages : 75 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077502 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CRITERIA AND PROCEDURES FOR RLM/BFD RELAXATION

(51) International classification :H04B 17/309, H04B 7/02, H04W 24/00, H04W 52/02
(31) Priority Document No :17/369881
(32) Priority Date :07/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/032775
Filing Date :09/06/2022
(87) International Publication No :WO 2023/283016
(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)QUALCOMM INCORPORATED
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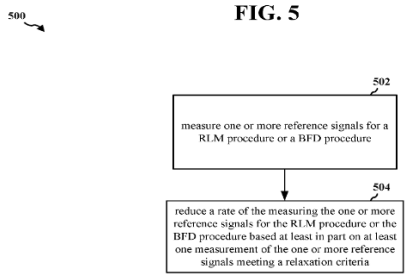
(72)**Name of Inventor :**
1)HE, Linhai

(57) Abstract :
Apparatus and method for wireless communications that include RLM or BFD procedures. The apparatus measures one or more reference signals for an RLM procedure or a BFD procedure. The apparatus reduces a rate of the measuring the one or more reference signals for the RLM procedure or the BFD procedure based at least in part on at least one measurement of the one or more reference signals meeting a relaxation criteria.

FIG. 5



No. of Pages : 49 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :14/11/2023
(21) Application No.202327077519 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CONTROL RESOURCE SET CONFIGURATION FOR REDUCED BANDWIDTH USER EQUIPMENTS

(51) International classification :H04L 5/00, H04W 48/10, H04W 48/12
(31) Priority Document No :17/385790
(32) Priority Date :26/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034241
Filing Date :21/06/2022
(87) International Publication No :WO 2023/009244
(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)KWAK, Yongjun
2)LEI, Jing
3)XU, Huilin
4)KIM, Yuchul
5)KWON, Hwan Joon

(57) Abstract :
Methods, systems, and devices for wireless communication are described. A user equipment (UE) may receive a first system information message including an indication of a resource configuration for a control resource set (CORESET) from a base station. The CORESET may include a common search space for a downlink control information (DCI) message that schedules a second system information message. The UE may identify a set of parameters from multiple sets of parameters for the CORESET based on the indication received in the first system information message and the UE being a first type of UE. The set of parameters may be different from a second set of parameters for the CORESET associated with a second type of UE different from the first type of UE. The UE may receive, in the CORESET according to the identified set of parameters, the DCI message scheduling the second system information message.

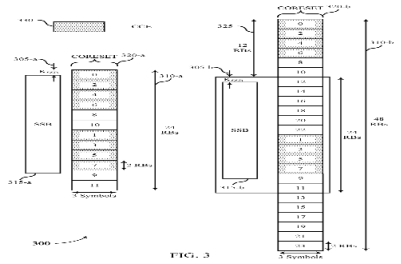

FIG. 3

No. of Pages : 79 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023

(21) Application No.202327089888 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : APPARATUS AND METHOD FOR PRODUCTION OF SULFUR-HOST COMPOSITE MATERIALS

(51) International classification	:H01M 4/134, H01M 4/1395, H01M 4/38, B22F 1/16, B22F 9/02
(31) Priority Document No	:10202105832Q
(32) Priority Date	:02/06/2021
(33) Name of priority country	:Singapore
(86) International Application No	:PCT/SG2022/050378
Filing Date	:02/06/2022
(87) International Publication No	:WO 2022/255950
(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)GRANIERO ECHEVERRIGARAY, Sergio
2)NAIR, Vivek
3)CASTRO NETO, Antonio Helio de

(57) Abstract :
Disclosed herein is an apparatus suitable for preparing sulfur-host composite materials, comprising: a screw extruder comprising one or more heating zones, each comprising a heating element; a means or apparatus for providing an inert atmosphere or vacuum to the screw extruder; and an atomiser configured to receive a molten stream from the screw extruder and atomise the molten stream into an atomised stream, wherein the screw extruder is configured to generate a molten stream comprising molten sulfur and a solid particulate host material when in use.

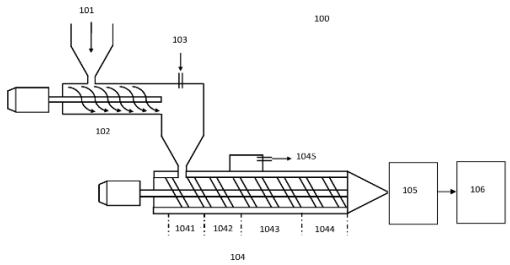

Figure 1

No. of Pages : 16 No. of Claims : 31

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023

(21) Application No.202327090035 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TECHNIQUES FOR INCREASED QUANTITIES OF ORTHOGONAL DMRS PORTS

(51) International classification :H04J 13/18, H04L 5/00, H04J 13/00
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2021/115250
Filing Date :30/08/2021
(87) International Publication No :WO 2023/028737
(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)QUALCOMM INCORPORATED
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(72)**Name of Inventor :**
1)SEN, Pinar
2)ABDELGHAFFAR, Muhammad Sayed Khairy
3)ZHANG, Yu
4)HUANG, Yi

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A user equipment may be configured to receive, from a base station, first control signaling indicating a first frequency domain orthogonal cover code (FD-OCC) sequence length of a set of FD-OCC sequence lengths associated with wireless communications with the base station. The UE may receive, from the base station, second control signaling including an indication of a first antenna port value of a set of antenna port values for wireless communications between the UE and the base station. The UE may transmit, to the base station, at least one demodulation reference signal (DMRS) via at least one antenna port of a set of orthogonal antenna ports identified based at least in part on the first FD-OCC sequence length and the first antenna port value.

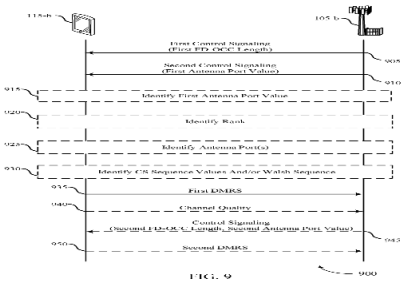

FIG. 9

No. of Pages : 88 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023
(21) Application No.202327078333 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VARIABLE GRASS-LENGTH INJECTION

(51) International classification :D05C 15/08, E01C 19/00
(31) Priority Document No :2028007
(32) Priority Date :19/04/2021
(33) Name of priority country :Netherlands
(86) International Application No :PCT/EP2022/060280
Filing Date :19/04/2022
(87) International Publication No :WO 2022/223538
(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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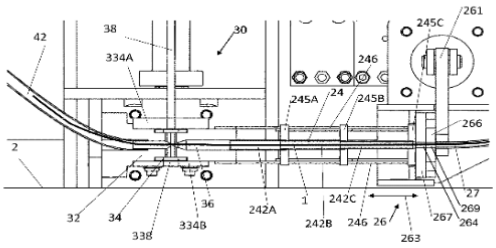
(72)**Name of Inventor :**
1)MULLAN, George Alexander
2)SCHUURMAN, Thomas
3)LAMOT, Ivo Johannes Gerardus
4)GALESLOOT, Eduard Andreas

(57) Abstract :
Yarn injection device for injecting yarn sections into a substrate, wherein the yarn injection device comprises:- a yarn storage for holding a number of spools with yarn, - a feeding device configured to feed lengths of yarn to an injection unit, the feeding device comprising: · a number of yarn tubes, each yarn tube defining a yarn channel configured to accommodate a respective yarn, · a number of cutting devices located being configured to cut a number of yarn sections,- the injection unit comprising: · an injection needle guide defining a number of first passages extending over a vertical distance and a number of second passages extending over a horizontal distance, · a number of moveable injection needles configured to pass through the first holes of the injection needle guide, wherein yarn sections in the yarn tubes located below the moveable injection needles are injected into the substrate when the moveable injection needles move downward through the injection needle guide, · at least one needle actuator configured to move the number of moveable injection needles, - a fluid flow assembly, wherein at least one fluid communication channel extends between the injection needle guide and the depressurized or pressurized compartment, wherein the fluid flow assembly is configured to create a flow of fluid through each fluid communication channel, each injection needle guide and each yarn tube in order to apply a drag force on the yarns and move the yarns through the second passages in the injection needle guide.

Fig. 3B



No. of Pages : 22 No. of Claims : 59

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/11/2023

(21) Application No.202327078354 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : NOVEL PROCESSES FOR THE PREPARATION OF 2,3-DICHLORO-4-HYDROXYANILINE

(51) International classification	:C07C 209/36, C07C 213/00, C07C 209/82
(31) Priority Document No	:202121025394
(32) Priority Date	:08/06/2021
(33) Name of priority country	:India
(86) International Application No	:PCT/IN2022/050530
Filing Date	:07/06/2022
(87) International Publication No	:WO 2022/259265
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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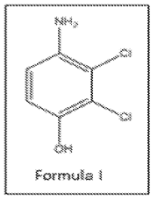
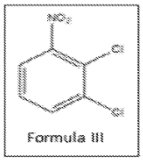
1)AARTI INDUSTRIES LIMITED
Address of Applicant :71, 2nd Floor, Udyog Kshetra, Mulund Goregaon Link Road, Mulund West, Mumbai - 400080, Maharashtra Maharashtra India
(72)**Name of Inventor :**
1)DESAI, Kirit Haribhai
2)PATEL, Jayesh Ratilal
3)PATEL, Nitin Uttambhai
4)NAIK, Ravindra Bachubhai
5)PATEL, Anup Ishwarbhai

(57) Abstract :
The present invention relates to a process for the preparation of 2,3-dichloro-4-hydroxyaniline of formula I from 2,3-dichloronitrobenzene of formula III. The present invention also relates to a process for the purification of 2,3-dichloro-4-hydroxyaniline of formula I.



Formula I



Formula III

No. of Pages : 14 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2023
(21) Application No.202327078458 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTRONIC DEVICE

(51) International classification :H04M 1/02
(31) Priority Document No :202110451686.6
(32) Priority Date :26/04/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/088087
Filing Date :21/04/2022
(87) International Publication No :WO 2022/228258
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)VIVO MOBILE COMMUNICATION CO., LTD.
Address of Applicant :No.1, vivo Road, Chang'an, Dongguan, Guangdong 523863 China
(72)**Name of Inventor :**
1)LI, Lele

(57) Abstract :
Disclosed is an electronic device, comprising a device housing and a sound production module, wherein the device housing comprises a first housing portion and a second housing portion; the first housing portion is movably arranged on the second housing portion, so as to switch the electronic device between a first state and a second state; the sound production module is arranged on one of the first housing portion and the second housing portion; the sound production module is provided with a first rear cavity and a first connection hole in communication with the first rear cavity; and the electronic device can form a second rear cavity. In the first state, the first rear cavity is in communication with the second rear cavity by means of the first connection hole; in the second state, the first connection hole is blocked; and one of the first state and the second state is an unfolded state, and the other one of the first state and the second state is a contracted state.

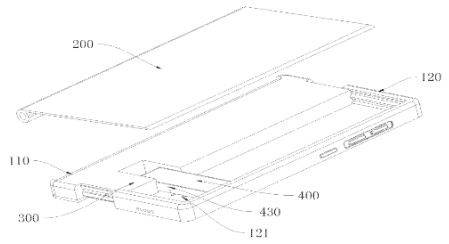


图 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2023
(21) Application No.202327078463 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SUSTAINABLE BRA GARMENT AND IMPROVED BIO-BASED PAD PORTIONS

(51) International classification	:A41C 3/00, A41C 3/10, A41C 3/12, A41C 3/14, A41F 1/00	(71)**Name of Applicant :** **1)GELMART INDUSTRIES, INC.** Address of Applicant :48 West 38 Street New York, NY 10018 U.S.A.
(31) Priority Document No	:17/329790	(72)**Name of Inventor :**
(32) Priority Date	:25/05/2021	**1)BASTUG, Eve**
(33) Name of priority country	:U.S.A.	**2)NASSER, Yoseph**
(86) International Application No	:PCT/US2021/041461	**3)DELEVATI, Giancarlos**
Filing Date	:13/07/2021	
(87) International Publication No	:WO 2022/250715	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
A sustainable bra garment that includes first and second cup portions that are formed of one or more recycled flexible materials and first and second side wing panels that extend from the first and second cup portions, respectively, and having first and second cushioning support pads formed of a bio-based foam material that is biodegradable and/or recyclable. First and second cushioning support pads are configured to be coupled with the first and second cup portions, respectively. The front surface of each pad has a generally convex shape and the back surface of each pad has a generally concave shape. Each of the pads is formed of an eco-friendly sustainable material, such as a sugar cane-based polymer foam material, that has hardness and density values that provide both cushioning and support to breasts of a wearer of the sustainable bra garment.

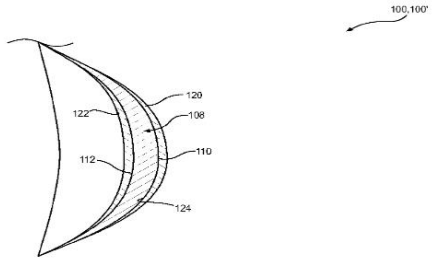


FIG. 5

No. of Pages : 15 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076225 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PHARMACEUTICAL COMPOSITION COMPRISING THE COMPOUND SMTP-7

(51) International classification	:A61K 31/407, A61P 7/02, A61P 29/00
(31) Priority Document No	:2021070892
(32) Priority Date	:20/04/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/US2022/025462
Filing Date	:20/04/2022
(87) International Publication No	:WO 2022/226013
(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)BIOGEN MA INC.
Address of Applicant :225 Binney Street Cambridge, MA 02142 U.S.A.
(72)**Name of Inventor :**
1)NISHIMURA, Naoko
2)HASEGAWA, Keiko
3)HASUMI, Keiji

(57) Abstract :
This application provides a highly safe pharmaceutical composition containing SMTP-7 or a salt, ester or solvate thereof as an active ingredient, wherein the said pharmaceutical composition further containing either or both of a basic additive and an amphipathic additive. The present invention is useful for prevention or treatment of ischemic disorders such as cerebral infarction including acute ischemic stroke, particularly for treating patients who cannot be treated with thrombolytic drugs.

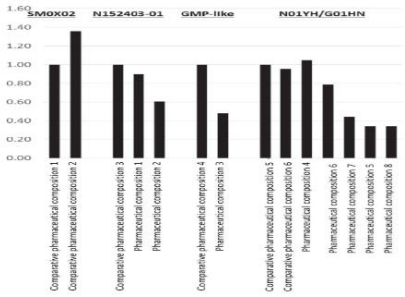


Figure 1

No. of Pages : 26 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :08/11/2023

(21) Application No.202327076241 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHODS FOR TRANSMITTING AND RECEIVING DATA, RESOURCE INDICATION METHOD AND APPARATUS, AND SYSTEM

(51) International classification :H04W 72/04
(31) Priority Document No :202110584976.8
(32) Priority Date :27/05/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/095424
Filing Date :27/05/2022
(87) International Publication No :WO 2022/247918
(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, Bantian, Longgang District Shenzhen, Guangdong 518129 China
(72)**Name of Inventor :**
1)FAN, Weiwei
2)ZHANG, Peng
3)ZHANG, Jiayin
4)ZHOU, Guohua

(57) Abstract :
Embodiments of the present application relate to methods for transmitting and receiving data, a resource indication method and apparatus, and a system, which can reduce the occupancy and waste of transmission resources, and improve the flexibility of resource scheduling. The method for sending data comprises: a first terminal device receiving a first message, the first message being used to indicate a first time window; the first terminal device sending, on at least one first transmission resource in the first time window, first data to at least one second terminal device, the at least one first transmission resource being a resource among preconfigured sidelink transmission resources.

FIG. 4

No. of Pages : 38 No. of Claims : 55

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079764 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HOT EVENT PRESENTATION METHOD AND APPARATUS FOR APPLICATION, AND DEVICE, MEDIUM AND PRODUCT

(51) International classification	:G06F 16/9535, G06F 16/9538	(71)**Name of Applicant :**
(31) Priority Document No	:202110574046.4	**1)BEIJING ZITIAO NETWORK TECHNOLOGY CO., LTD.**
(32) Priority Date	:25/05/2021	Address of Applicant :0207, 2/F, Building 4, Zijin Digital Park, Haidian District Beijing 100190 China
(33) Name of priority country	:China	
(86) International Application No	:PCT/CN2022/090276	(72)**Name of Inventor :**
Filing Date	:29/04/2022	**1)LI, Zeyu**
(87) International Publication No	:WO 2022/247585	**2)LI, Zhuang**
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Provided are a hot event presentation method and apparatus for an application, and a device, a medium and a product. The method comprises: playing first multimedia content in a target event (S101); and displaying a video set of the target event in a playing page of the first multimedia content (S102), wherein the video set comprises a first card, a second card and a timeline, the first card is used for triggering the playing of second multimedia content in the target event, the second card is used for triggering the playing of third multimedia content in the target event, an occurrence time period of the second multimedia content and an occurrence time period of the third multimedia content are recorded in the timeline, the first card is displayed corresponding to the occurrence time period of the second multimedia content, and the second card is displayed corresponding to the occurrence time period of the third multimedia content.

Figure of Abstract

No. of Pages : 52 No. of Claims : 18

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023

(21) Application No.202327089798 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESSING METHOD, PROCESSING DEVICE, AND READABLE STORAGE MEDIUM

(51) International classification :G06F 3/0484, G06F 21/31
(31) Priority Document No :202110607128.4
(32) Priority Date :01/06/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2021/118622
Filing Date :15/09/2021
(87) International Publication No :WO 2022/252437
(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)SHEN, Jianfeng
2)WANG, Zhiyong
3)LI, Chenxiong

(57) Abstract :
A processing method, a processing device, and a readable storage medium. The processing method comprises: in response to a first operation performed by a first device, outputting at least one piece of first processing information (S1); receiving and processing second processing information to obtain at least one feedback result, the second processing information being obtained by at least one second device performing corresponding processing on the basis of the first processing information (S2); and outputting the feedback result to the second device (S3). According to the method, on the basis of the operation performed by the first device, convenient information interaction with at least one second device is facilitated, and the user experience is improved by means of linkage between the devices.

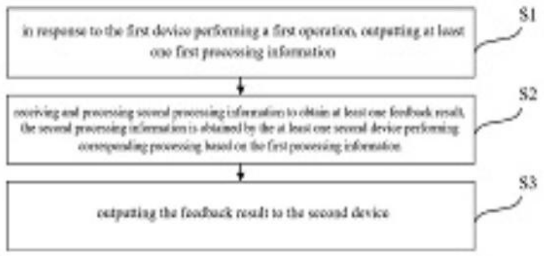

FIGURE 3

No. of Pages : 77 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023
(21) Application No.202327089802 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESSING METHOD, DEVICE, AND STORAGE MEDIUM

(51) International classification :G06F 21/10
(31) Priority Document No :202110736698.3
(32) Priority Date :30/06/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/093170
Filing Date :16/05/2022
(87) International Publication No :WO 2023/273649
(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)SHEN, Jianfeng
2)WANG, Zhiyong
3)LI, Chenxiong

(57) Abstract :
The present application relates to a processing method, a device, and a storage medium. The processing method comprises the following steps: detecting, in response to managing a first application or service, whether a processing device and/or at least one associated device meets at least one preset condition; and performing processing on the basis of a preset operation and/or a preset strategy according to the detection result. In this way, during managing the first application or service, management and control can be implemented on the basis of a status of the processing device and/or the associated device, so as to improve data security, management efficiency and/or an interaction effect, and improve user experience.

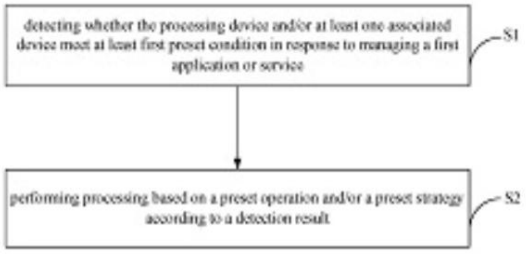

FIGURE 5

No. of Pages : 148 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2023

(21) Application No.202327078467 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WIRELESS DISCRETE INPUT/OUTPUT WITH EXTERNAL POWER OPTION

(51) International classification :G05B 19/042
(31) Priority Document No :63/209153
(32) Priority Date :10/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/032776
Filing Date :09/06/2022
(87) International Publication No :WO 2022/261280
(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)WESTFIELD, Brian, Lee
2)SCHNAARE, Theodore, Henry
3)JOHNSON, James, Alan
4)GINDELE, Greg, Edward
5)LINDSEY, Ryan, Thomas
6)NEUHARTH, Jared
7)WEINBERGER, Robert

(57) Abstract :
A wireless field device (12) for use in an industrial process (10) includes input/output terminals to couple to a process interface element (16) and a discrete input/output channel configured to receive a discrete input signal from the process interface element (16) through the input/output terminals when configured as a discrete input channel, the discrete input/output channel further configured to provide a discrete output to the process interface element (16) through the input/output terminals when configured as discrete output channel. Wireless communication circuitry (48) transmits and receives information. A controller (44) transmits information through the communication circuitry (48) based upon a sensed process variable, provides a discrete output signal when the discrete input/output channel is configured as a discrete output channel and receives a discrete input signal when configured as a discrete input channel. An external power supply input is coupled to an external power supply (102) and a battery power supply input couples a battery (101). Power supply circuitry (108) powers the controller (44) from at most one of the external power supply or the battery.

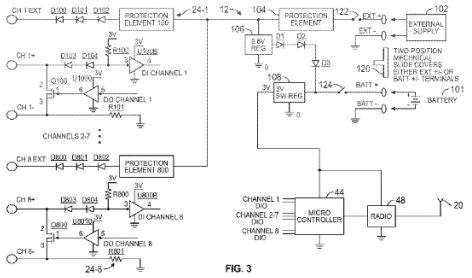

FIG. 3

No. of Pages : 11 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :18/11/2023
(21) Application No.202327078469 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIRNA TARGETING 17?-HYDROXYSTEROID DEHYDROGENASE TYPE 13 AND SIRNA CONJUGATE

(51) International classification :C12N 15/113, A61K 31/713
(31) Priority Document No :202110435243.8
(32) Priority Date :22/04/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/088351
Filing Date :22/04/2022
(87) International Publication No :WO 2022/223015
(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)TUOJIE BIOTECH (SHANGHAI) CO., LTD.
Address of Applicant :Room 103, No.14 Building, No.3728 Jinke Road, Free Trade Pilot Zone, Pudong New Area Shanghai 201203 China
(72)**Name of Inventor :**
1)HUANG, Jinyu
2)HUANG, Yanfen
3)LUO, Min
4)ZHANG, Fang

(57) Abstract :
An siRNA targeting 17ß-hydroxysteroid dehydrogenase type 13 and a siRNA conjugate. Also disclosed are a pharmaceutical composition, cell or kit containing the siRNA, and a method for using the siRNA for the treatment and/or prevention of subjects suffering from HSD17B13-related disorders (such as chronic fibroinflammatory liver disease).

No. of Pages : 136 No. of Claims : 20

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202327078616 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DATA RATE DECODING FOR TRANSPORT BLOCKS

(51) International classification	:H04L 1/00, H04L 1/08, H04L 5/00, H04W 72/04, H04W 72/12	(71)**Name of Applicant :** **1)QUALCOMM INCORPORATED** Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(31) Priority Document No	:63/226615	(72)**Name of Inventor :**
(32) Priority Date	:28/07/2021	**1)KHOSHNEVISAN, Mostafa**
(33) Name of priority country	:U.S.A.	**2)ZHANG, Xiaoxia**
(86) International Application No	:PCT/US2022/033828	**3)SUN, Jing**
Filing Date	:16/06/2022	
(87) International Publication No	:WO 2023/009235	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Methods, systems, and devices for wireless communications are described. In a wireless communications system, a user equipment (UE) may receive, from a network device, a downlink control message that schedules a first and second repetition of a transport block for a downlink shared channel in a first component carrier of multiple component carriers, the first and second repetitions scheduled in a first and second transmission occasion associated with the downlink shared channel. The UE may monitor for the repetitions in the respective transmission occasions, and the UE may decode the transport block based on a number of transmission occasions associated with the downlink shared channel in the component carrier and a data rate limit across the multiple component carriers including the first component carrier.

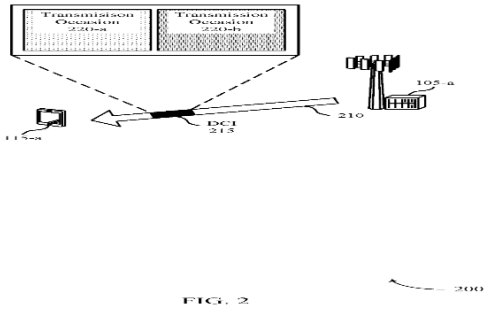

FIG. 2

No. of Pages : 63 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023
(21) Application No.202327078634 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION

(51) International classification	:H01M 10/0525, C07C 253/30, C07C 255/16, H01M 10/054, H01M 10/0567
(31) Priority Document No	:2105744.3
(32) Priority Date	:22/04/2021
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/EP2022/060526
Filing Date	:21/04/2022
(87) International Publication No	:WO 2022/223678
(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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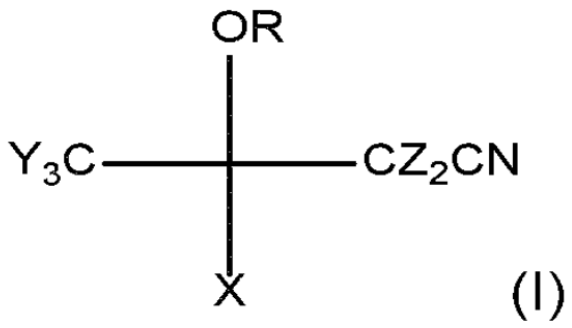
Address of Applicant :Eje 106 Zona Industrial San Luis Potosi, S.L.P C.P. 78395 Mexico
(72)**Name of Inventor :**
1)SHARRATT, Andrew
2)SAXENA, Ira

(57) Abstract :
Use of a compound of Formula 1 in a non-aqueous battery electrolyte formulation: wherein: R is an optionally fluorinated alky group, conveniently C1-6; each Y is independently H or F. X is H; a halogen, conveniently F; or an alkyl or a fluoroalkyl, conveniently C1-6; each Z is independently a halogen, conveniently F; or H.



(I)

No. of Pages : 21 No. of Claims : 32

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023
(21) Application No.202327078649 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INFORMATION PROCESSING METHOD AND APPARATUS, AND TERMINAL AND STORAGE MEDIUM

(51) International classification :H04W 68/12
(31) Priority Document No :202110432902.2
(32) Priority Date :21/04/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/087063
Filing Date :15/04/2022
(87) International Publication No :WO 2022/222857
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(71)**Name of Applicant :**
1)VIVO MOBILE COMMUNICATION CO., LTD.
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(72)**Name of Inventor :**
1)KE, Xiaowan

(57) Abstract :
An information processing method and apparatus, and a terminal and a storage medium. The information processing method comprises: an access stratum (AS) of a terminal receiving, from a first network, a paging message concerning the terminal (200); and the AS of the terminal executing a first operation (201), wherein the first operation comprises at least one of the following: determining paging cause information related to the terminal, and sending first information to a non-access stratum (NAS) of the terminal, the first information comprising at least one of the following: the paging message; the paging cause information; information concerning the terminal in the paging message; first indication information, which is used for indicating that the paging message has been received; and type information of the paging message.

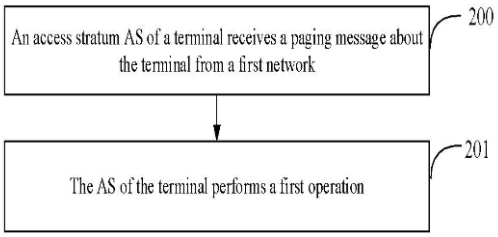

FIG. 2

No. of Pages : 65 No. of Claims : 23

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202327078732 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : A HIGH PERFORMANCE CO2 ABSORBENT MATERIAL FOR CO2 CAPTURE AT MEDIUM TEMPERATURES AND THE METHOD FOR PRODUCTION THEREOF

(51) International classification	:B01D 53/04, B01J 20/04, B01J 20/06, B01J 20/10	(71)**Name of Applicant :**
(31) Priority Document No	:202121018578	**1)NORITAKE CO., LIMITED** Address of Applicant :3-1-36, Noritakeshinmachi, Nishi-ku, Nagoya-shi, Aichi 4518501 Japan
(32) Priority Date	:22/04/2021	**2)COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH (CSIR)**
(33) Name of priority country	:India	
(86) International Application No	:PCT/JP2022/015744	(72)**Name of Inventor :**
Filing Date	:30/03/2022	**1)NAIR, Balagopal N**
(87) International Publication No	:WO 2022/224762	**2)VIJAYAN, Visakh**
(61) Patent of Addition to Application Number	:NA	**3)SURENDRAN, Devika**
Filing Date	:NA	**4)MOHAMED, Abdul Azeez Peer**
(62) Divisional to Application Number	:NA	**5)HAREESH, Unnikrishnan Nair Saraswathy**
Filing Date	:NA	

(57) Abstract :
The herein disclosed art provides a CO2 absorbent material having improved CO2 absorption characteristics. Such a method for producing a CO2 absorbent material includes: preparing a first powder containing lithium silicate particles or lithium zincate particles; mixing the first powder with a second powder containing alkali carbonate particles and alkali nitrate particles to obtain a powder containing first composite particles in which the alkali carbonate particles and the alkali nitrate particles are aggregated on surfaces of the lithium silicate particles or the lithium zincate particles; mixing a third powder containing magnesium carbonate particles with the second powder to obtain a powder containing second composite particles in which the alkali carbonate particles and the alkali nitrate particles are aggregated on surfaces of the magnesium carbonate particles; and mixing the powder containing the first composite particles with the powder containing the second composite particles to obtain an aggregate-containing powder mixture which has a CO2 absorption capability and in which the first composite particles and the second composite particles are aggregated.

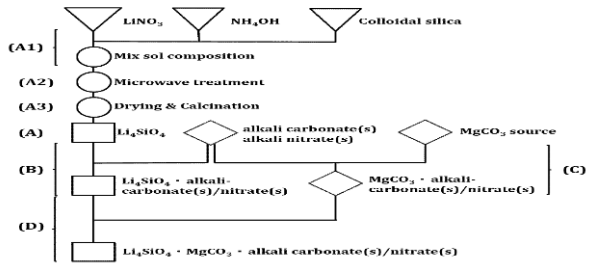

FIG.1

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202327078745 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALLBOARD FASTENING DEVICE WITH GUIDE FLANGE

(51) International classification :E04F 19/06, E04F 19/00, E04F 19/02
(31) Priority Document No :63/189575
(32) Priority Date :17/05/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/029571
Filing Date :17/05/2022
(87) International Publication No :WO 2022/245780
(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)TRUE CORNERS, LLC
Address of Applicant :339 Woods Point Road Osprey, Florida 34229 U.S.A.
(72)**Name of Inventor :**
1)MINEO, Charles W.
2)MINEO, Samuel J.

(57) Abstract :
A wallboard fastening device secures first and second wallboards to a framing member without fasteners passing through the wallboards. The device includes first and second framing panels joined along lengthwise edges at a frame seam to form a two-sided frame that fits around the framing member. The device includes first and second flat-spring flanges joined along lengthwise edges at a front seam. The device includes a channel-dividing panel joined lengthwise to the front seam and to the second framing panel to form first and second channels that are sized to receive edges of the wallboards. The device includes a guide flange joined lengthwise to the frame seam. A corner edge of the second wallboard may be pushed against the guide flange such that the corner edge slides along the guide flange, thereby guiding the second wallboard into the second channel.

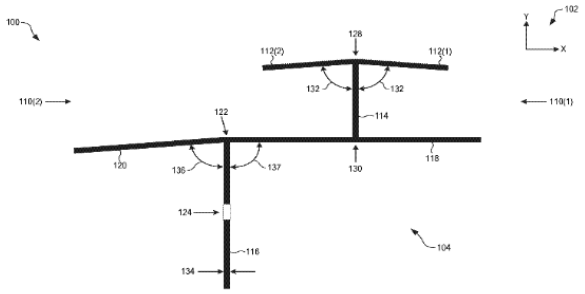

FIG. 1

No. of Pages : 12 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202327078746 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CALLED PAGING METHOD AND APPARATUS

(51) International classification	:H04W 36/00, H04W 36/14
(31) Priority Document No	:202210717676.7
(32) Priority Date	:23/06/2022
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2023/088185
Filing Date	:13/04/2023
(87) International Publication No	:WO 2023/246248
(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)HONOR DEVICE CO., LTD.
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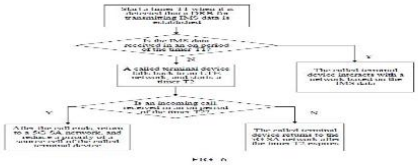
(72)**Name of Inventor :**
1)LI, Haibo

(57) Abstract :
The embodiments of the present application relate to the field of communications. Provided are a called paging method and apparatus, which can solve the problem of a called failure under an SA network. The method is as follows: a called terminal device, which resides in a 5G SA network, receives a paging message; if the called terminal device detects that a data radio bearer (DRB) used for transmitting Internet protocol multimedia subsystem (IMS) data has been established, a first timer can be started, and it can be detected, during the startup of the first timer, whether the IMS data has been received. If the first timer times out, and the called terminal device has not received INVITE or other IMS data, it is considered that the IMS data (for example, INVITE) cannot be received due to a network anomaly, and the called terminal device can actively fall back to LTE to receive an incoming call. In this way, a called terminal device can receive an INVITE message or a paging message of an IMS domain on LTE, thereby avoiding the problem of a called failure.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023

(21) Application No.202327078786 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TERMINAL, BASE STATION, AND COMMUNICATION METHOD

(51) International classification	:H04W 72/04, H04W 72/12, H04W 84/12
(31) Priority Document No	:2021-089176
(32) Priority Date	:27/05/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/010003
Filing Date	:08/03/2022
(87) International Publication No	:WO 2022/249634
(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)PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
Address of Applicant :2050 W 190th Street Suite 450, Torrance, California 90504 U.S.A.
(72)**Name of Inventor :**
1)TAKATA, Tomofumi

(57) Abstract :
This terminal comprises a reception circuit for receiving a control signal, and a control circuit for controlling, on the basis of the buffer status of data satisfying a predetermined requirement condition, a method for transmitting a response signal in response to the reception of the control signal.

Figure of Abstract

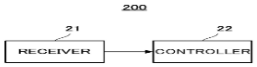


FIG. 9

No. of Pages : 45 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2023
(21) Application No.202327090339 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : REINFORCED GLASS, GLASS REINFORCING METHOD, AND ELECTRONIC DEVICE SHELL

(51) International classification :C03C 21/00
(31) Priority Document No :202111157824.6
(32) Priority Date :29/09/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/120561
Filing Date :22/09/2022
(87) International Publication No :WO 2023/051378
(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)BYD COMPANY LIMITED
Address of Applicant :No. 3009, BYD Road Pingshan Shenzhen, Guangdong 518118 China
(72)**Name of Inventor :**
1)PEI, Yulei
2)WU, Shuang
3)GAI, Qiying
4)CUI, Jingna
5)ZHANG, Jiaxin

(57) Abstract :
Reinforced glass, a glass reinforcing method, and an electronic device shell. Both surfaces of opposite sides of the reinforced glass have a surface compressive stress layer, and a third stress layer is sandwiched between the two surface compressive stress layers. The third stress layer comprises a compressive stress region (32) and a plurality of tensile stress regions (40) provided in the compressive stress region (32) at intervals, the plurality of tensile stress regions (40) being arranged perpendicular to the thickness direction of the reinforced glass, the periphery of each tensile stress region (40) being surrounded by the compressive stress region (32), and the sum of the depths of the two surface compressive stress layers and the depth of the compressive stress region (32) located between two adjacent tensile stress regions (40) being equal to the thickness of the reinforced glass.

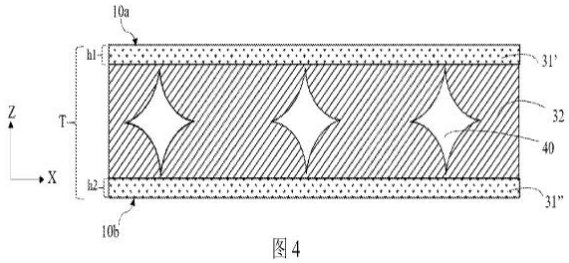


图4

No. of Pages : 24 No. of Claims : 16

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :31/12/2023
(21) Application No.202327090357 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : VEHICLE AND CHARGING METHOD THEREFOR, AND STORAGE MEDIUM

(51) International classification :B60L 53/62
(31) Priority Document No :202111164427.1
(32) Priority Date :30/09/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/123160
Filing Date :30/09/2022
(87) International Publication No :WO 2023/051771
(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)BYD COMPANY LIMITED
Address of Applicant :No.3009, BYD Road, Pingshan Shenzhen, Guangdong 518118 China
(72)**Name of Inventor :**
1)LIAN, Yubo
2)LING, Heping
3)LIU, Junhua
4)AN, Fengjun
5)WEN, Qi

(57) Abstract :
A vehicle and a charging method therefor, and a storage medium. The charging method for a vehicle comprises: obtaining the first voltage of a vehicle charging interface; determining a buck target value according to the first voltage, adjusting the voltage of the buck side of the boost-buck module of the vehicle according to the buck target value, and transmitting the buck target value to a charging pile, so that the charging pile determines an output voltage according to the buck target value; and after the vehicle enters a charging process, raising the charging demand current of the vehicle to the maximum allowable charging current of the vehicle.

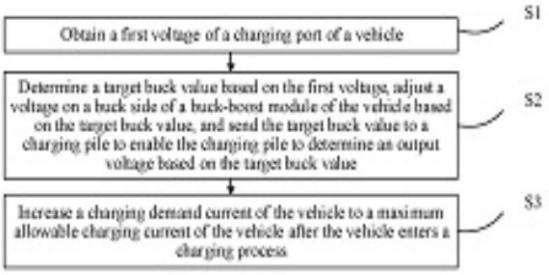


FIG. 5

No. of Pages : 17 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/08/2023
(21) Application No.202328057208 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL

(51) International classification	:A43B 23/17, A43B 23/08, A43B 11/02, A43B 11/00, A43B 23/10
(31) Priority Document No	:63/256,521
(32) Priority Date	:15/10/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/046726
Filing Date	:14/10/2022
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202327055365
Filed on	:18/08/2023

(71)**Name of Applicant :**
1)SKECHERS U.S.A., INC. II
Address of Applicant :228 Manhattan Beach Blvd. Manhattan Beach, California 90266, United States of America U.S.A.
(72)**Name of Inventor :**
1)WEEKS, John Maxwell
2)KELLEY, Scott
3)CHUANG, Frank F.
4)LIAO, Pei-Chun
5)TJA, Johnson
6)XIE, Hui
7)STOCKBRIDGE, Kurt

(57) Abstract :
ABSTRACT FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL An article of footwear includes a heel cup attached to an upper and extending from a sole structure to at least a portion of a rear heel collar of the upper. The heel cup is uniformly molded with an upper portion, midportion, and lower portion and the upper portion has a smaller mediolateral length than the midportion, and the midportion and lower portion from a concave structure configured to receive the heel. The upper portion is capable of distorting from a first configuration into a second configuration under a load of a user's foot when the user is donning the footwear. In the second configuration, at least part of the upper portion is lowered relative to the first configuration and is capable of returning to the first configuration after the load of the user's foot is removed. The midportion includes a peripheral portion thicker than a central portion. FIGURE 2.

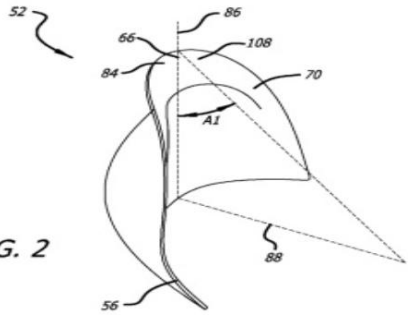


FIG. 2

No. of Pages : 34 No. of Claims : 5

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :25/08/2023
(21) Application No.202328057209 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL

(51) International classification	:A43B 23/17, A43B 23/08, A43B 11/02, A43B 11/00, A43B 23/10
(31) Priority Document No	:63/256,521
(32) Priority Date	:15/10/2021
(33) Name of priority country	:U.S.A.
(86) International Application No	:PCT/US2022/046726
Filing Date	:14/10/2022
(87) International Publication No	: NA
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:202327055365
Filed on	:18/08/2023

(71)**Name of Applicant :**
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1)XIE, Hui
2)WEEKS, John Maxwell
3)TJA, Johnson
4)LIAO, Pei-Chun
5)CHUANG, Frank F.
6)STOCKBRIDGE, Kurt
7)KELLEY, Scott

(57) Abstract :
FOOTWEAR COUNTER FOR EASIER ENTRY AND REMOVAL An article of footwear includes a heel cup attached to an upper and extending from a sole structure to at least a portion of a rear heel collar of the upper. The heel cup is uniformly molded with an upper portion, midportion, and lower portion and the upper portion has a smaller mediolateral length than the midportion, and the midportion and lower portion from a concave structure configured to receive the heel. The upper portion is capable of distorting from a first configuration into a second configuration under a load of a user's foot when the user is donning the footwear. In the second configuration, at least part of the upper portion is lowered relative to the first configuration and is capable of returning to the first configuration after the load of the user's foot is removed. The midportion includes a peripheral portion thicker than a central portion. FIGURE 2.

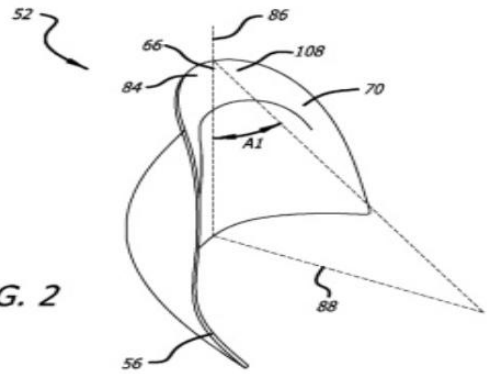

FIG. 2

No. of Pages : 35 No. of Claims : 10

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023
(21) Application No.202327089814 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : BENZYLOXY-BENZYLAMINYL AMINO ACID DERIVATIVE FOR ADJUSTING TSLP/TSLPR SIGNAL TRANSMISSION

(51) International classification	:A61K 31/165, A61P 29/00, A61P 35/00, C07C 237/20
(31) Priority Document No	:10-2021-0071116
(32) Priority Date	:01/06/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/007797
Filing Date	:01/06/2022
(87) International Publication No	:WO 2022/255801
(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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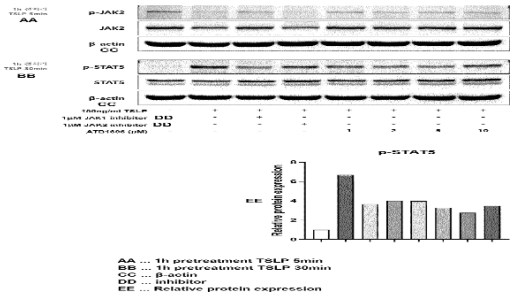
(72)**Name of Inventor :**
1)LEE, Jongseung
2)LEE, Han-Seung
3)SEO, Kyoung Hee
4)KIM, Dahee
5)LEE, Dong-Gi

(57) Abstract :
The purpose of the present invention is to provide a novel benzyloxy-benzylaminyl amino acid derivative inhibiting intracellular signal transmission due to cytokine thymic stromal lymphopoietin (TSLP), a TSLP receptor (TSLPR) and IL-7Ra, and a pharmaceutical composition, for preventing and/or treating cancer, inflammatory disease, itching, allergy and/or immune disorder, comprising a salt and/or a solvate thereof as an active ingredient.



No. of Pages : 47 No. of Claims : 9

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023
(21) Application No.202327089846 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : POWER HEADROOM REPORTING FOR UPLINK CHANNEL REPETITION

(51) International classification :H04W 52/36
(31) Priority Document No :NA
(32) Priority Date :NA
(33) Name of priority country :NA
(86) International Application No :PCT/CN2021/112476
Filing Date :13/08/2021
(87) International Publication No :WO 2023/015552
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)ZHENG, Ruiming
2)KHOSHNEVISAN, Mostafa
3)HE, Linhai

(57) Abstract :
Certain aspects of the present disclosure provide techniques for wireless communications by a user equipment (UE) includes receiving a plurality of power headroom report (PHR) configurations, where each of the plurality of PHR configurations is associated with a different communication configuration of a plurality of communication configurations of the UE; and transmitting one or more PHRs based on the plurality of PHR configurations.

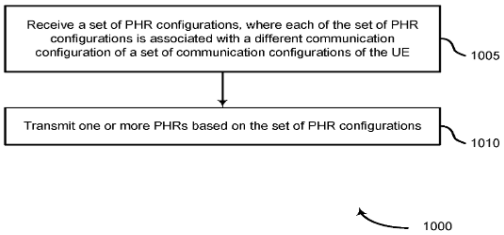


FIG. 10

No. of Pages : 49 No. of Claims : 29

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023
(21) Application No.202327089858 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : ELECTROSTATIC PROTECTION STRUCTURE AND ELECTRONIC DEVICE

(51) International classification :H05K 5/02
(31) Priority Document No :202110993811.6
(32) Priority Date :27/08/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/089279
Filing Date :26/04/2022
(87) International Publication No :WO 2023/024551
(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 :Suite 3401, Unit A, Building 6, Shum Yip Sky Park No. 8089, Hongli West Road Xiangmihu Street, Futian Shenzhen, Guangdong 518040 China
(72)**Name of Inventor :**
1)LEI, Fenxing
2)MENG, Yin

(57) Abstract :
The present application provides an electrostatic protection structure and an electronic device. One end of a metal retaining wall (3) is connected to a metal housing (1), the other end of the metal retaining wall (3) extends in a direction away from the metal housing (1), and an end face (31) is formed at the end away from the metal housing (1); one side of the metal retaining wall (3) is a screen module (4); an insulating frame (2) comprises a first side edge (21), a connecting portion (22), and a second side edge (23); the first side edge (21) is disposed on the side of the metal retaining wall (3) facing away from the screen module (4); the connecting portion (22) is disposed at the end of the first side edge (21) away from the metal housing (1); the connecting portion (22) comprises a mating surface (221) attached to the end face (31), and a first surface (222) facing the screen module (4), and an insulating layer is disposed between the mating surface (221) and the end surface (31); the second side edge (23) is disposed on the side of the connecting portion (22) facing the screen module (4), and the second side edge (23) comprises a second surface (231) facing the screen module (4); the mating surface (221), the first surface (222), and the second surface (231) are provided with a continuous conductive layer. The electrostatic protection structure of the present application avoids the risk of RSE that may be caused by poor grounding, thereby affecting the performance of the antenna and the risk of secondary discharge.

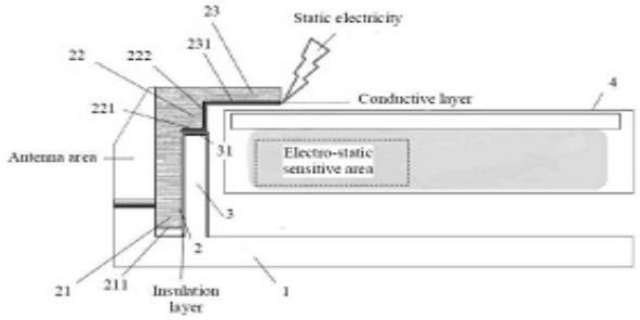

FIG. 7

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :29/12/2023

(21) Application No.202327089861 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : DATA TRANSMISSION METHOD AND RELATED DEVICE

(51) International classification :H04W 36/30, H04B 17/318, H04L 65/752
(31) Priority Document No :202110731229.2
(32) Priority Date :29/06/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/095912
Filing Date :30/05/2022
(87) International Publication No :WO 2023/273756
(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)LIU, Yan
2)YE, Jinzhou

(57) Abstract :
Disclosed in the embodiments of the present application are a data transmission method and a related device, used for implementing a call between a first call end and a second call end in a case that a communication environment is poor. The method of the embodiments of the present application comprises: an access network device establishes a call between a first call end and a second call end by means of an IMS network; the access network device receives a first voice message packet from the first call end, the first voice message packet being transmitted after the first call end determines that first signal intensity is less than a first threshold, and the first signal intensity being the signal intensity of the access network device at the first call end; and the access network device transmits the first voice message packet to a media processing network element, so as to implement the call between the first call end and the second call end by means of the media processing network element.

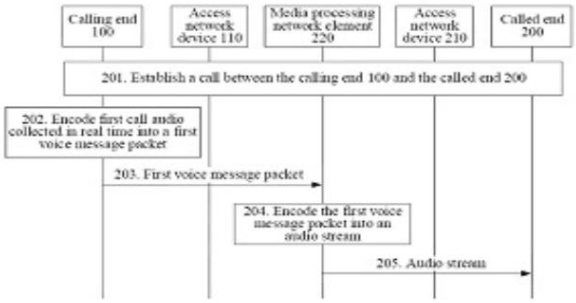

FIG. 2

No. of Pages : 55 No. of Claims : 27

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023
(21) Application No.202327078799 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

(51) International classification	:C11D 1/02, C11D 3/04, C11D 3/08, C11D 3/10, C11D 11/02
(31) Priority Document No	:21174569.0
(32) Priority Date	:19/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/063372
Filing Date	:18/05/2022
(87) International Publication No	:WO 2022/243343
(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)UNILEVER GLOBAL IP LIMITED
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(72)**Name of Inventor :**
1)CHACKO, Abraham
2)KUMAR, Girish
3)KUMAR, Sharavan
4)PAWAR, Kunal Shankar
5)SHAIKH, Nadeem
6)SINGH, Satyendra Prasad

(57) Abstract :
The present invention relates to a process for preparing of a particulate, free flowing detergent particle by a slurry making and spray drying technique. It is an object of the present invention to provide a process for preparing a detergent solution which upon spray-drying provides a spray-dried particle having lower reserve alkalinity and which is less harsh on hands and provides good fabric care performance. The present inventors have found a way to provide a free-flowing spray-dried detergent particle which is gentle on hand, gives good fabric care performance, good fabric cleaning performance and which also retains good powder properties by providing a process of preparing a detergent solution which yields lower reserve alkalinity in the spray-dried particle and has a pH preferably from 10.5 to 11.5 and preferably without impacting the current level of alkaline builders such as sodium carbonate and sodium silicate in the composition.

No. of Pages : 28 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/11/2023
(21) Application No.202327078800 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PROCESS FOR PREPARING A SPRAY DRIED DETERGENT PARTICLE

(51) International classification	:C11D 1/02, C11D 3/04, C11D 3/08, C11D 3/10, C11D 11/02
(31) Priority Document No	:21174575.7
(32) Priority Date	:19/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/063252
Filing Date	:17/05/2022
(87) International Publication No	:WO 2022/243276
(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)UNILEVER GLOBAL IP LIMITED
Address of Applicant :Port Sunlight Wirral Merseyside CH62 4ZD U.K.
(72)**Name of Inventor :**
1)CHACKO, Abraham
2)KUMAR, Girish
3)PAWAR, Kunal, Shankar
4)SHAIKH, Nadeem
5)KUMAR, Sharavan

(57) Abstract :
The present invention relates to a process for preparing a particulate, free flowing detergent particle by a slurry making and spray drying technique. It is thus an object of the present invention to provide a process for preparing a detergent solution for a spray-dried detergent particle which provides for incorporating a carbonate builder and silicate salt at optimum levels whilst provides good cleaning performance and good powder properties. The present inventors have surprisingly found that a spray-dried detergent particle exhibits extended shelf life and demonstrates excellent powder properties without getting caked during use, when the spray dried detergent particle is prepared by a process where an in-situ silicate and/or a disilicate a salt of an alkaline earth metal is formed by reacting an alkali metal silicate with an alkaline earth metal salt, and the spray dried detergent particle also includes an alkali metal silicate salt along with optimum detersive surfactant content, filler and carbonate builder, wherein the composition preferably has no phosphate builder and zeolite builder.

No. of Pages : 29 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327078896 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SIDELINK POSITIONING REFERENCE SIGNAL SEQUENCES

(51) International classification :H04W 64/00, H04L 5/00
(31) Priority Document No :20210100498
(32) Priority Date :23/07/2021
(33) Name of priority country :Greece
(86) International Application No :PCT/US2022/072630
Filing Date :27/05/2022
(87) International Publication No :WO 2023/004212
(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)BAO, Jingchao
2)AKKARAKARAN, Sony
3)LUO, Tao
4)MONTOJO, Juan
5)MANOLAKOS, Alexandros

(57) Abstract :
Disclosed are techniques for wireless communication. In an aspect, a PRS sequence is determined based in part on a sidelink zone where a transmitting UE is located. A receiving UE may perform a blind search based on PRS sequence(s) associated with its own sidelink zone and/or neighboring sidelink zones. In other aspects, measurement reports may be conveyed to a position estimation entity with positioning measurements being associated with respective PRS sequences, which can then be correlated to the respective transmitting UEs at the position estimation entity so as to facilitate position estimation of a target UE.

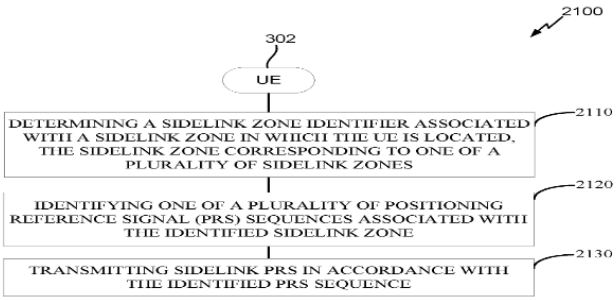

FIG. 21

No. of Pages : 91 No. of Claims : 50

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023

(21) Application No.202327078900 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTEGRATED ACCESS AND BACKHAUL DATA COLLECTION

(51) International classification :H04W 40/02, H04L 45/28
(31) Priority Document No :17/443270
(32) Priority Date :23/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/073221
Filing Date :28/06/2022
(87) International Publication No :WO 2023/004228
(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)KUMAR, Rajeev
2)HAMPEL, Karl, Georg
3)HORN, Gavin, Bernard
4)ZHU, Xipeng
5)KRISHNAN, Shankar

(57) Abstract :
Various aspects of the present disclosure generally relate to wireless communication. In some aspects, an apparatus of a central or management entity of an integrated access and backhaul (IAB) network may receive a report indicating one or more of a failure associated with a communication link associated with an IAB node included in the IAB network or a quality of service (QoS) associated with the communication link. The apparatus may modify a topography of the IAB network or routing within the IAB network when the report indicates the failure associated with the communication link. The apparatus may verify a QoS associated with the IAB network when the report indicates the QoS associated with the communication link. Numerous other aspects are described.

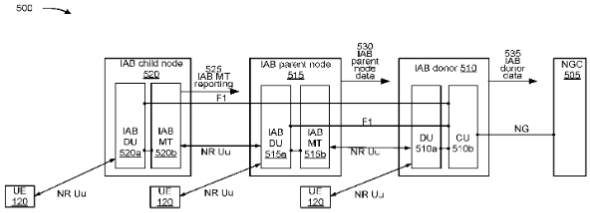

FIG. 5

No. of Pages : 48 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023

(21) Application No.202327078945 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 13/30, F24F 1/00, F28F 1/00, F28F 1/10
(31) Priority Document No	:202121216517.6
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/076091
Filing Date	:11/02/2022
(87) International Publication No	:WO 2022/252681
(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)ZHOU, Baisong
2)WU, Duode
3)YANG, Yuan
4)LI, Bo
5)WAN, Yongqiang
6)SU, Qiqin
7)TU, Yunchong

(57) Abstract :
A wall-mounted air conditioner, comprising a casing (100) and a heat exchanger (200), wherein a front surface of the casing (100) is provided with a first air inlet (101); the heat exchanger (200) is provided in the casing (100) and opposite the first air inlet (101); and the heat exchanger (200) is in a curved or bent shape protruding toward the first air inlet (101).

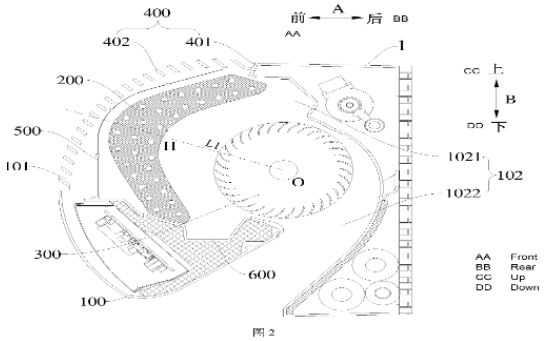


图 2

No. of Pages : 14 No. of Claims : 12

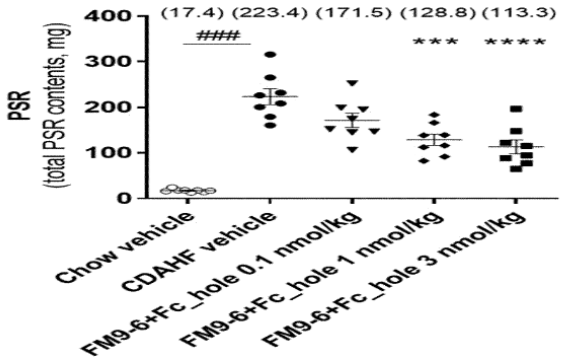
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327078966 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION FOR PREVENTING OR TREATING NON-ALCOHOLIC FATTY LIVER DISEASE OR NON-ALCOHOLIC STEATOHEPATITIS COMPRISING GROWTH DIFFERENTIATION FACTOR-15 VARIANT

(51) International classification	:A61K 38/18, A61K 47/68, A61K 47/65, A61P 1/16, C07K 14/475
(31) Priority Document No	:10-2021-0065564
(32) Priority Date	:21/05/2021
(33) Name of priority country	:Republic of Korea
(86) International Application No	:PCT/KR2022/007248
Filing Date	:20/05/2022
(87) International Publication No	:WO 2022/245183
(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)LIM, Seyoung
2)YANG, Ji Eun
3)KIM, Do Hoon
4)KIM, Sukyung
5)SIM, Bo Ra
6)LEE, Yunji
7)YANG, Nayeon
8)KIM, Junhwan

(57) Abstract :
The present invention relates to a pharmaceutical composition for the prevention or treatment of non-alcoholic fatty liver disease (NAFLD) or non-alcoholic steatohepatitis (NASH), comprising a GDF15 (growth differentiation factor-15) variant, a long-acting GDF15 fusion protein, or a long-acting GDF15 fusion protein dimer as an active ingredient.



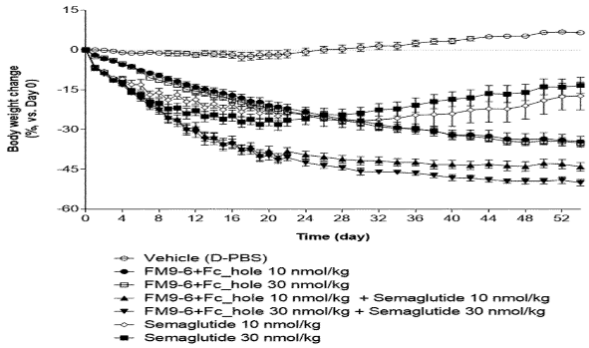
No. of Pages : 36 No. of Claims : 21

(12) PATENT APPLICATION PUBLICATION
(21) Application No.202327078969 A
(19) INDIA
(22) Date of filing of Application :21/11/2023
(43) Publication Date : 19/04/2024

(54) Title of the invention : COMPOSITION FOR COMBINATION THERAPY COMPRISING GROWTH DIFFERENTIATION FACTOR-15 VARIANT AND GLUCAGON-LIKE PEPTIDE-1 RECEPTOR AGONIST

(51) International classification	:A61K 38/18, A61K 47/68, A61K 47/65, A61K 38/26, A61P 3/10	(71)**Name of Applicant :** **1)YUHAN CORPORATION** Address of Applicant :74 Noryangjin-ro Dongjak-gu Seoul 06927 Republic of Korea
(31) Priority Document No	:10-2021-0065563	(72)**Name of Inventor :**
(32) Priority Date	:21/05/2021	**1)LIM, Seyoung**
(33) Name of priority country	:Republic of Korea	**2)YANG, Ji Eun**
(86) International Application No	:PCT/KR2022/007242	**3)KIM, Sukyung**
Filing Date	:20/05/2022	**4)SIM, Bo Ra**
(87) International Publication No	:WO 2022/245179	**5)LEE, Yunji**
(61) Patent of Addition to Application Number	:NA	**6)KIM, Do Hoon**
Filing Date	:NA	**7)JU, Mi Kyeong**
		8)CHOI, Hyun Ho
(62) Divisional to Application Number	:NA	**9)HONG, Han Na**
Filing Date	:NA	**10)KIM, Junhwan**

(57) Abstract :
The present invention relates to a pharmaceutical composition for the prevention or treatment of diabetes, obesity, dyslipidemia, or metabolic syndrome by administering in combination with a GLP-1 (glucagon-like peptide-1) receptor agonist, comprising a GDF15 (growth differentiation factor-15) variant, a long-acting GDF15 fusion protein, or a long-acting GDF15 fusion protein dimer as an active ingredient.



No. of Pages : 44 No. of Claims : 25

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327078989 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SENSOR ASSEMBLY FOR USE BETWEEN A GROUND ENGAGING TOOL AND A BUCKET

(51) International classification	:E02F 9/26, E02F 9/28, G01B 21/16
(31) Priority Document No	:21172982.7
(32) Priority Date	:10/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/AU2022/050406
Filing Date	:02/05/2022
(87) International Publication No	:WO 2022/236359
(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)KNOWLES, Bruce
2)JAVADI, Mehrdad

(57) Abstract :
A sensor assembly (1) for attachment to a ground engaging tool (2), wherein the sensor assembly comprises an inner case (3) and an outer case (4), wherein the inner case (3) houses a sensor (5) configured to measure a gap (6) to an adjacent surface, wherein the outer case (4) is provided with a first cavity (7) for receiving the inner case (3) through an opening of the first cavity (7) such that the inner case (3) is movably guided in the outer case (4) for movement into and out of the outer case (4) along a predetermined path of movement (8), and wherein the sensor assembly (1) comprises a biasing means (9) adapted to bias the inner case (3) in a direction out of the outer case (4) along said predetermined path of movement (8).

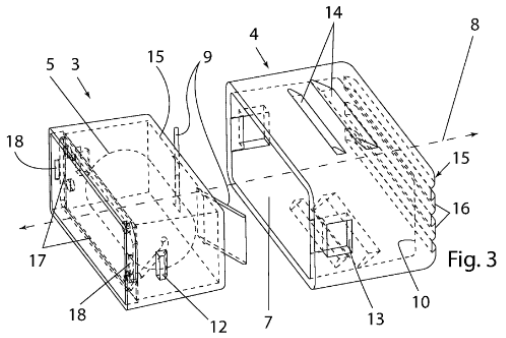

Fig. 3

No. of Pages : 12 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327078990 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : SELF-LOCKING FOLDING HOPPER AND A LOCKING METHOD THEREOF

(51) International classification	:B02C 23/02, B07B 1/00, B02C 21/02, B65G 41/00, B07B 13/16
(31) Priority Document No	:21173175.7
(32) Priority Date	:11/05/2021
(33) Name of priority country	:EPO
(86) International Application No	:PCT/EP2022/061002
Filing Date	:26/04/2022
(87) International Publication No	:WO 2022/238106
(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)GRAYDON, Stuart
2)SMYTH, Stuart

(57) Abstract :
The present disclosure provides a folding feeder hopper (101) with side walls (200) which are configured to lock themselves when unfolded or deployed for operation. The locking assembly (300) comprises of a first locking means (301) provided on the side wall (200), configured to engage with a second locking means (302) provided on a support assembly (202), wherein the second locking means (302) comprises of an elastic element (303), and retaining members (403a, 403b) on front and rear ends (107, 108) of the hopper (101) for providing alignment to the side walls (200) when they move between locked and unlocked positions. The present disclosure also provides a method for locking the side walls (200) in deployed position.

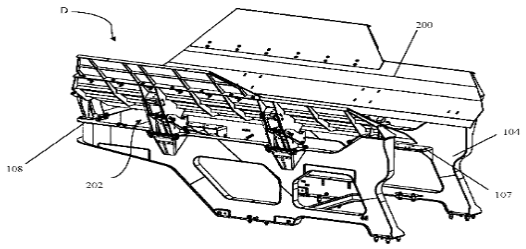

FIG. 2a

No. of Pages : 19 No. of Claims : 17

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023

(21) Application No.202327078991 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 1/00, F24F 1/0059, F24F 1/0067
(31) Priority Document No	:202121216342.9
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/076090
Filing Date	:11/02/2022
(87) International Publication No	:WO 2022/252680
(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)ZHOU, Baisong
2)WU, Duode
3)YANG, Yuan
4)LI, Bo
5)WAN, Yongqiang
6)SU, Qiqin
7)TU, Yunchong

(57) Abstract :
Provided is a wall-mounted air conditioner (1). The wall-mounted air conditioner (1) comprises: a housing (100), a blower (300), and a heat exchanger (200). A first air inlet (101) is formed on the front of the housing (100), the blower (300) is disposed in the housing (100), the heat exchanger (200) is disposed in the housing (100), at least a portion of the heat exchanger (200) is located between the first air inlet (101) and the blower (300), and the distance between either of upper and lower ends of the heat exchanger (200) is less than the distance between a middle portion of the heat exchanger (200) and the blower (300).

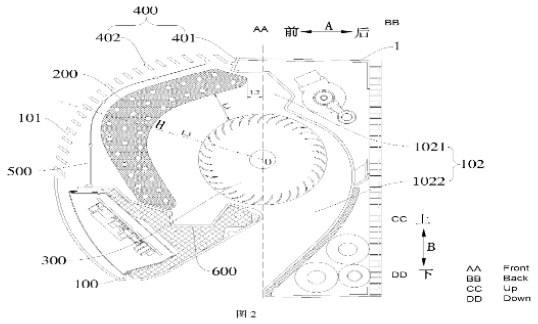

图 2

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023

(21) Application No.202327079026 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 1/0007, F24F 13/20, F24F 13/08
(31) Priority Document No	:202110611174.1
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/075656
Filing Date	:09/02/2022
(87) International Publication No	:WO 2022/252677
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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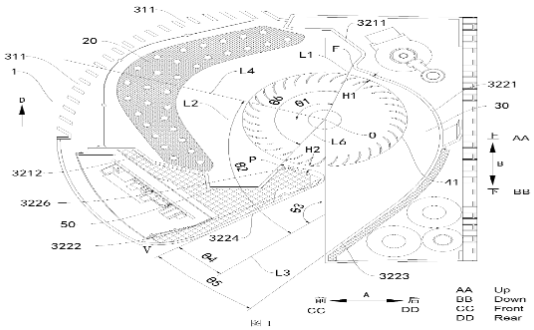
(72)**Name of Inventor :**
1)ZHOU, Baisong
2)WU, Duode

(57) Abstract :
Provided is a wall-mounted air conditioner (1), comprising a casing (10) and a heat exchanger (20). The heat exchanger (20) is arranged in the casing (10); the casing (10) is internally provided with an air duct (30); the air duct (30) has an air inlet (311) and an air outlet (312); and at least part of the air inlet (311) is located on the front (11) of the casing (10). By configuring at least part of the air inlet (311) of the wall-mounted air conditioner (1) to be located on the front (11) of the casing (10), the air in the environment does not need to enter the air duct (30) from directly above the casing (10). In this way, the distance between the wall-mounted air conditioner (1) and an indoor top wall (3) can be greatly reduced or eliminated, such that the indoor space utilization rate can be increased.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023

(21) Application No.202327079095 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : MESSAGE PROCESSING METHOD AND APPARATUS, AND NETWORK DEVICE AND MEDIUM

(51) International classification :H04L 67/00
(31) Priority Document No :PCT/CN2021/122183
(32) Priority Date :30/09/2021
(33) Name of priority country :PCT
(86) International Application No :PCT/CN2021/122183
Filing Date :30/09/2021
(87) International Publication No :WO 2023/050313
(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)NEW H3C TECHNOLOGIES CO., LTD.
Address of Applicant :466 Changhe Road, Binjiang District Hangzhou, Zhejiang 310052 China
(72)**Name of Inventor :**
1)LI, Hao
2)LIN, Changwang

(57) Abstract :
The embodiments of the present application relate to the technical field of communications. Disclosed are a message processing method and apparatus, and a network device and a medium. The method is applied to a head node in an SRv6 network. The method comprises: generating a first SRv6 OAM message, wherein a source address of the first SRv6 OAM message comprises a network segment, a host segment, and a slice segment, and the slice segment comprises a slice identifier; then, sending the first SRv6 OAM message to a destination node, such that after receiving the first SRv6 OAM message, if it is determined, according to the network segment and the host segment, that the source address of the first SRv6 OAM message belongs to a specified slice network segment, the destination node clears the slice segment in the source address, uses, as a destination address of a second SRv6 OAM message, the source address with the slice segment cleared, and sends the second SRv6 OAM message to a head node; receiving the second SRv6 OAM message; and if the destination address is the same as a host address of the head node, sending the second SRv6 OAM message to a control plane. By means of the present application, a second SRv6 OAM message can be correctly sent to a control plane.

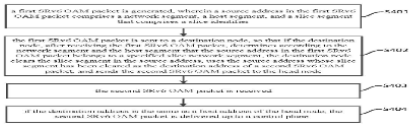


FIGURE 4

No. of Pages : 29 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327079111 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : INTERNAL LIGHTING SYSTEM FOR WIND TURBINES

(51) International classification :F03D 80/80, F21S 4/24
(31) Priority Document No :U202131034
(32) Priority Date :20/05/2021
(33) Name of priority country :Spain
(86) International Application No :PCT/ES2022/070305
Filing Date :18/05/2022
(87) International Publication No :WO 2022/243592
(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)ZABALA LÓPEZ, Josu
2)FERNÁNDEZ ZUNZARREN, Andrés

(57) Abstract :
The invention relates to a distributed, efficient and robust lighting system that ensures correct lighting of the entire wind turbine both in service and in emergencies, minimising the risks to which the people carrying out maintenance tasks inside the turbine are subjected. For that purpose, it is made up of a series of LED strips (3) integrated in vertical profiles (2) of the ladder sections (1) that are installed inside the internal structure of the wind turbine. An external, common power supply unit (10) is defined for several ladder sections and it comprises a driver, a voltage source and an emergency battery, which can be connected to the ladder sections via connectors (8"-8''') of the same type.

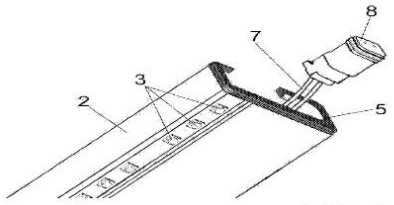

FIG. 3

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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :21/11/2023
(21) Application No.202327079157 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TECHNIQUES FOR PAGING EARLY INDICATION REPETITION

(51) International classification :H04W 68/02, H04W 76/28, H04W 52/02
(31) Priority Document No :17/377337
(32) Priority Date :15/07/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/034075
Filing Date :17/06/2022
(87) International Publication No :WO 2023/287548
(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)QUALCOMM INCORPORATED
Address of Applicant :ATTN: International IP Administration 5775 Morehouse Drive San Diego, California 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)XU, Huilin
2)LIU, Le
3)NAM, Wooseok
4)KIM, Yuchul
5)OZTURK, Ozcan
6)LY, Hung Dinh

(57) Abstract :
Methods, systems, and devices for wireless communications are described. A base station may transmit multiple repetitions of a paging early indication (PEI) signal to a user equipment (UE) to indicate that the UE is to receive paging signaling in a paging occasion. In some cases, a PEI occasion for transmitting a PEI repetition may have a scheduling conflict. For example, a PEI occasion may collide with other downlink signaling. A UE may implement techniques to resolve scheduling conflicts or collisions for PEI repetitions. For example, the UE may be configured to receive either colliding PEI signaling or colliding downlink signaling based on priorities of the signaling. Additionally, or alternatively, PEI signaling may be shifted (e.g., delayed) until after the downlink signaling ends. In some cases, a UE may be configured with a subset of blind decoding hypotheses for PEI decoding.

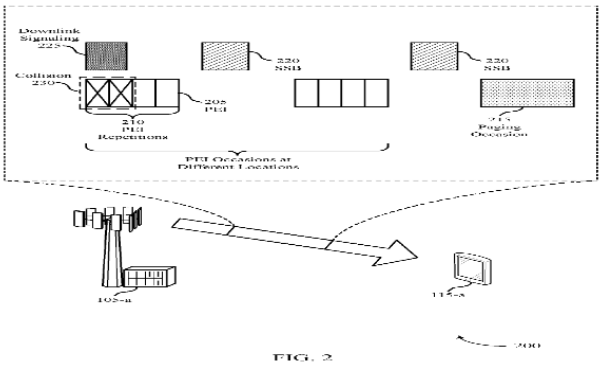

FIG. 2

No. of Pages : 80 No. of Claims : 33

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079197 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR INTERACTING WITH APPLICATION PROGRAM, AND ELECTRONIC DEVICE

(51) International classification :H04N 21/482
(31) Priority Document No :202110559456.1
(32) Priority Date :21/05/2021
(33) Name of priority country :China
(86) International Application No :PCT/CN2022/090440
Filing Date :29/04/2022
(87) International Publication No :WO 2022/242453
(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)GUO, Wanyi
2)WANG, Yuchen
3)CAO, Yirui
4)SONG, Qing
5)SONG, Licong
6)WANG, Huaxin
7)JI, Liyue
8)YANG, Ze

(57) Abstract :
The present disclosure relates to a method and apparatus for interacting with an application program, and an electronic device. The method comprises: playing back multimedia content of a target object in an application program; and displaying, in a playback page of the multimedia content, an interaction component of the target object. The interactive component comprises: an integrated interactive card and action button. The interactive card is used for describing introductory content of the target object. The introductory content of the target object comprises: the icon of the target object, first basic information of the target object, and extension information of the target object. The action button is used for providing an entry to an interactive page of the target object.

Figure of Abstract

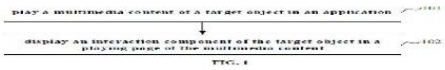

FIG. 1

No. of Pages : 37 No. of Claims : 14

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023
(21) Application No.202327079203 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : HEPTAPEPTIDE AMIDES FOR USE IN THE TREATMENT OF HMGB1-DEPENDENT DISEASES

(51) International classification	:C07K 7/06, A61K 38/08, A61P 11/00, A61P 19/02, A61P 9/10
(31) Priority Document No	:2021111474
(32) Priority Date	:22/04/2021
(33) Name of priority country	:Russia
(86) International Application No	:PCT/RU2022/000112
Filing Date	:14/04/2022
(87) International Publication No	:WO 2022/225422
(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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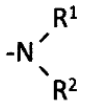
1)KARKISCHENKO, Vladislav Nikolaevich
2)SKVORTSOVA, Veronika Igorevna
3)POMYTKIN, Igor Anatolievich
4)KARKISCHENKO, Nikolai Nikolaevich

(57) Abstract :
The present invention relates to a compound of formula (I): where Z is (II) in which R1 and R2 are identical or different and are hydrogen or a lower alkyl chain having up to 4 carbon atoms or a pharmaceutically acceptable salt thereof. Further, the present invention relates to pharmaceutical compositions or medicaments comprising the compound of formula (I) for treatment of a HMGB1 dependent inflammatory or autoimmune disease selected from the group consisting of rheumatoid arthritis, osteoarthritis, ankylosing spondylitis, periodontitis, allergic rhinitis, chronic rhinosinusitis without nasal polyps, chronic rhinosinusitis with nasal polyps, pneumonia, chronic obstructive pulmonary disease, asthma, acute adult respiratory syndrome, diabetic macroangiopathy, diabetic coronary artery disease, peripheral arterial disease, diabetic cerebrovascular disease, diabetic microangiopathy, diabetic nephropathy, diabetic neuropathy, diabetic retinopathy, diabetic cardiomyopathy, diabetic foot ulceration, colitis, inflammatory bowel disease, and ocular disease. Preferably, the pharmaceutically acceptable salt is acetate.

H-Tyr-D-Ala-Gly-Phe-Leu-Arg-Arg-Z (I)



(II)

No. of Pages : 24 No. of Claims : 7

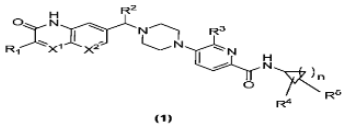
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023
(21) Application No.202327079261 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PARP INHIBITOR CONTAINING PIPERAZINE STRUCTURE, PREPARATION METHOD THEREFOR AND PHARMACEUTICAL USE THEREOF

(51) International classification	:C07D 471/04, C07D 401/14, C07D 498/04, A61K 31/496, A61K 31/498
(31) Priority Document No	:202110439238.4
(32) Priority Date	:22/04/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/087652
Filing Date	:19/04/2022
(87) International Publication No	:WO 2022/222921
(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)WIGEN BIOMEDICINE TECHNOLOGY (SHANGHAI) CO., LTD.
Address of Applicant :No. 11, 67 Lane, Libing Road, Pilot Free Trade Zone, Pudong New Area Shanghai 201203 China
(72)**Name of Inventor :**
1)XIE, Yuli
2)LV, Yongcong
3)QIAN, Lihui
4)FAN, Houxing

(57) Abstract :
Provided are a PARP inhibitor containing a piperazine structure, a preparation method therefor and the pharmaceutical use thereof. Specifically, provided are compounds represented by general formulas (1), (2), (3), (4) and (5) and/or a pharmaceutically acceptable salt thereof, and a composition containing the compounds represented by the general formulas (1), (2), (3), (4) and (5) and/or the pharmaceutically acceptable salt thereof, the preparation method, and the use thereof as a PARP inhibitor in the preparation of an anti-tumor drug.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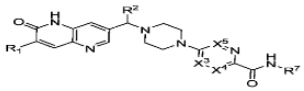
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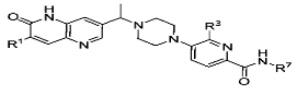
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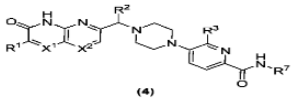
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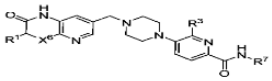
(5)

No. of Pages : 40 No. of Claims : 12

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079268 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 13/20, F24F 13/08, F24F 1/0007
(31) Priority Document No	:202110610656.5
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/076097
Filing Date	:11/02/2022
(87) International Publication No	:WO 2022/252686
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

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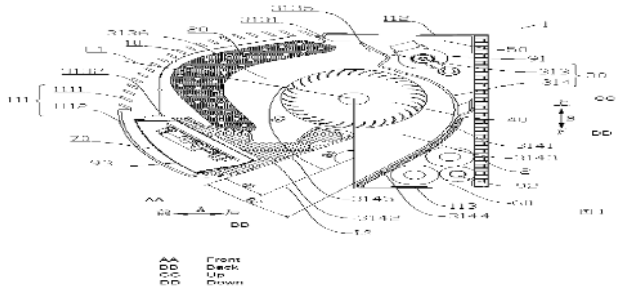
1)ZHOU, Baisong
2)WU, Duode
3)YANG, Yuan
4)LI, Bo
5)WAN, Yongqiang
6)SU, Qiqin
7)TU, Yunchong

(57) Abstract :
Provided is a wall-mounted air conditioner, comprising a housing (10) and a heat exchanger (20). An air duct (30) is provided in the housing (10); the air duct (30) comprises an air inlet (311) and an air outlet (312); the air duct (30) comprises an air inflow section (313) and an air outflow section (314) that are connected to each other; at least a portion of the air inlet (311) is located on the front side (11) of the housing (10); and the heat exchanger (20) is disposed in the air duct (30).The air inflow section (313) horizontally or obliquely extends forward from the air outflow section (314) to form a first mounting space (50) behind the air inflow section (313); and/or the portion of the air outflow section (314) adjacent to the air outlet (312) extends downward and forward from the remaining portion of the air outflow section (314) to form a second mounting space (60) behind the air outflow section (314); and/or a third mounting space (70) is formed between the air inflow section (311) and the air outflow section (314). Thus, the distance between the wall-mounted air conditioner and an indoor top wall is reduced or eliminated, the indoor space utilization is effectively improved, and the structure of the air conditioner is compact and reasonable.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079278 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 13/20, F24F 13/08, F24F 1/0007
(31) Priority Document No	:202110611186.4
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/076096
Filing Date	:11/02/2022
(87) International Publication No	:WO 2022/252685
(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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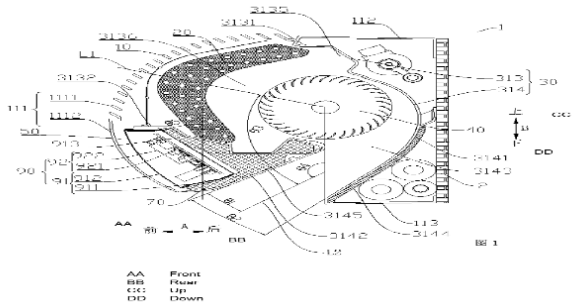
1)ZHOU, Baisong
2)WU, Duode
3)LI, Bo
4)WAN, Yongqiang
5)SU, Qiqin
6)TU, Yunchong

(57) Abstract :
Provided is a wall-mounted air conditioner. The wall-mounted air conditioner comprises a casing (10), an electric control component (90) and a heat exchanger (20), wherein the casing (10) is internally provided with an air duct (30); the air duct (30) is provided with an air inlet (311) and an air outlet (312); the air duct (30) comprises an air intake section (313) and an air output section (314), which are connected to each other; at least a part of the air inlet (311) is positioned on the front face of the casing (10); a mounting space (50) is formed between a front panel (111) of the casing (10) and the air duct (30); the mounting space (50) is positioned at the front portion of an interior space of the casing (10) and close to a lower portion; the heat exchanger (20) is arranged in the air duct (30); and the electric control component (90) is arranged in the mounting space (50). By means of the invention, the distance between the wall-mounted air conditioner and an indoor ceiling is reduced or eliminated, such that the indoor space utilization rate is increased; and the electric control component (90) is mounted in such a way that same does not occupy an effective air intake surface of the heat exchanger, such that the performance of the air conditioner is effectively improved.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079317 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : WALL-MOUNTED AIR CONDITIONER

(51) International classification	:F24F 1/0007, F24F 13/20, F24F 13/08
(31) Priority Document No	:202110610657.X
(32) Priority Date	:01/06/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/076093
Filing Date	:11/02/2022
(87) International Publication No	:WO 2022/252682
(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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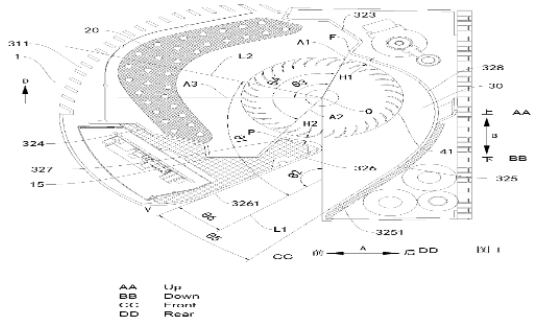
(72)**Name of Inventor :**
1)ZHOU, Baisong
2)WU, Duode
3)LI, Bo
4)WAN, Yongqiang
5)SU, Qiqin
6)TU, Yunchong

(57) Abstract :
Provided is a wall-mounted air conditioner (1). The wall-mounted air conditioner (1) comprises a casing (10); the casing (10) internally comprises an air duct (30); the air duct (30) comprises an air intake channel (321) and an air output channel (322), which are connected to each other; the air duct (30) is provided with an air inlet (311) and an air outlet (312); at least a part of the air inlet (311) faces the front face (11) of the wall-mounted air conditioner (1); and a first included angle, which is between a central line of the air intake channel (321) and a central line of the air output channel (322), is greater than or equal to 10 degrees and less than or equal to 85 degrees. Since at least a part of the air inlet (311) of the wall-mounted air conditioner (1) is positioned on the front face (11) of the casing (10), it is not necessary for air in the environment to enter the air duct (30) from directly above the casing (10). In this way, the distance between the wall-mounted air conditioner (1) and an indoor ceiling (3) can be greatly reduced or eliminated, such that the indoor space utilization rate can be increased.



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

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023

(21) Application No.202327079343 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : TERMINAL, BASE STATION, AND COMMUNICATION METHOD

(51) International classification	:H04W 72/04, H04L 27/26, H04W 28/06, H04W 84/12
(31) Priority Document No	:2021-090370
(32) Priority Date	:28/05/2021
(33) Name of priority country	:Japan
(86) International Application No	:PCT/JP2022/009965
Filing Date	:08/03/2022
(87) International Publication No	:WO 2022/249633
(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)PANASONIC INTELLECTUAL PROPERTY CORPORATION OF AMERICA
Address of Applicant :2050 W 190th Street Suite 450, Torrance, California 90504 U.S.A.
(72)**Name of Inventor :**
1)MINOTANI, Jun

(57) Abstract :
This terminal comprises: a receiving circuit which receives control information including information regarding a timing of a frequency resource for performing reception processing, among a plurality of frequency resources used for the frequency-multiplexed transmission of a plurality of downlink signals; and a control circuit which controls the reception processing on the basis of the control information.

Figure of Abstract

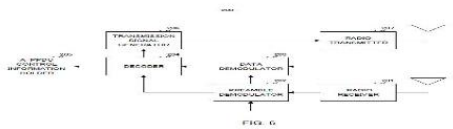


FIG. 6

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :22/11/2023
(21) Application No.202327079356 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : METHOD AND APPARATUS FOR DETERMINING UPLINK TRANSMISSION TIME WINDOW, TERMINAL, AND NETWORK SIDE DEVICE

(51) International classification	:H04L 5/00, H04W 72/04
(31) Priority Document No	:202110506650.3
(32) Priority Date	:10/05/2021
(33) Name of priority country	:China
(86) International Application No	:PCT/CN2022/091439
Filing Date	:07/05/2022
(87) International Publication No	:WO 2022/237680
(61) Patent of Addition to Application Number	:NA
Filing Date	:NA
(62) Divisional to Application Number	:NA
Filing Date	:NA

(71)**Name of Applicant :**
1)VIVO MOBILE COMMUNICATION CO., LTD.
Address of Applicant :No.1, Vivo Road, Chang'an Dongguan, Guangdong 523863 China
(72)**Name of Inventor :**
1)WANG, Yong
2)WU, Kai
3)GU, Yi

(57) Abstract :
The present application relates to the technical field of communications. Disclosed are a method and apparatus for determining an uplink transmission time window, a terminal, and a network side device. The method for determining an uplink transmission time window is executed by a terminal, and comprises: acquiring a first indication; and according to the first indication and a first rule, determining a first time window, between one or more uplink transmissions, that satisfies a first transmission characteristic.

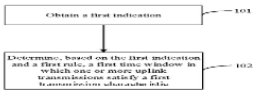


FIG. 2

No. of Pages : 42 No. of Claims : 15

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070587 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : PLASMA TORCH REACTOR AND REACTION METHOD

(51) International classification	:B01J 6/00, B01J 12/00, B01J 12/02, B01J 19/08, H05H 1/44
(31) Priority Document No	:2105246.9
(32) Priority Date	:13/04/2021
(33) Name of priority country	:U.K.
(86) International Application No	:PCT/GB2022/050938
Filing Date	:13/04/2022
(87) International Publication No	:WO 2022/219341
(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)HIIROC-X DEVELOPMENTS LIMITED
Address of Applicant :Number 22 Mount Ephraim Tunbridge Wells TN4 8AS U.K.
(72)**Name of Inventor :**
1)WIEKAMP, Ate

(57) Abstract :
A chemical reactor comprises a plasma torch reactor and a liquid metal system. The plasma torch reactor receives at least one feedstock gas and provides a plasma torch output comprising reaction products. The liquid metal system receives the plasma torch output of the plasma torch reactor and separates the reaction products received from the plasma torch reactor and to provide them as output products to the chemical reactor. A method of decomposing a hydrocarbon provided as input to a chemical reactor comprising a plasma torch reactor and a liquid torch system is also described.

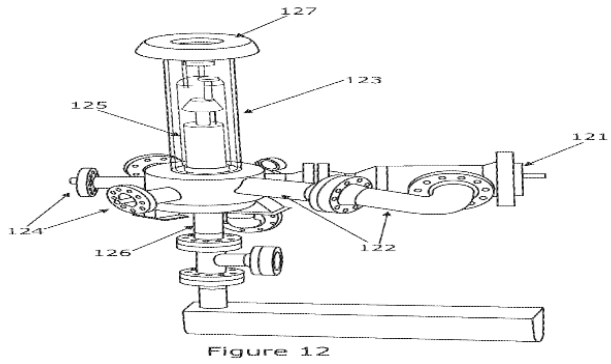


Figure 12

No. of Pages : 22 No. of Claims : 40

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023

(21) Application No.202327070672 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : AUTOMATED MACHINE-ASSISTED DETECTION OF DRY EYE DISEASE CONDITIONS IN HUMAN EYES CAPTURED USING DIGITAL CAMERA SYSTEMS

(51) International classification	:A61B 3/00, A61B 5/00, G06T 7/70, G16H 30/40, A61F 9/007	(71)**Name of Applicant :** **1)CORNEACARE, INC.** Address of Applicant :400 Walnut Street, Apt. 6f Philadelphia, PA 19106 U.S.A.
(31) Priority Document No	:17/220535	(72)**Name of Inventor :** **1)SINGH, Ranjodh** **2)MURRY, Carl, Van Alen**
(32) Priority Date	:01/04/2021	
(33) Name of priority country	:U.S.A.	
(86) International Application No	:PCT/US2022/022967	
Filing Date	:31/03/2022	
(87) International Publication No	:WO 2022/212799	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :
Digital imaging processing and diagnostic system and methods for automatically recognizing ocular diseases including dry eye disease (DED), and other ocular conditions in the eyes of humans by automatically (i) processing 2D in vivo digital images of the human eyes formed, captured and detected using a visible-wavelength operating digital camera system, and (ii) using machine-vision image processing subsystems (e.g. engines) to automatically detect the presence and location of specific objects in the ocular surfaces in the human eye, and confirm that specific conditions have been satisfied during image processing to support automated recognition of a specific ocular disease and other ocular conditions indicative of ocular pathology.

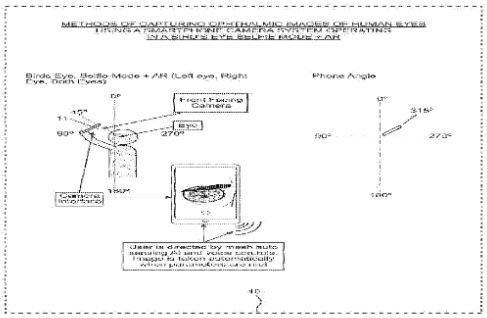


FIG. 127A1

No. of Pages : 217 No. of Claims : 103

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070674 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : CHANNEL FEATURE EXTRACTION VIA MODEL-BASED NEURAL NETWORKS

(51) International classification :H04L 25/02
(31) Priority Document No :17/352922
(32) Priority Date :21/06/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/US2022/033405
Filing Date :14/06/2022
(87) International Publication No :WO 2022/271485
(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)QUALCOMM INCORPORATED
Address of Applicant :Attn: International IP Administration 5775 Morehouse Drive San Diego, CA 92121-1714 U.S.A.
(72)**Name of Inventor :**
1)YOO, Taesang
2)VEDULA, Kirty Prabhakar
3)VITTHALADEVUNI, Pavan Kumar
4)NAMGOONG, June
5)YERRAMALLI, Srinivas
6)PEZESHKI, Hamed

(57) Abstract :
A method for wireless communication by a receiving device, includes receiving, from a transmitting device, a latent representation of a channel sequence for a wireless signal. A decoder applies a physical propagation channel model to the latent representation to reconstruct the channel sequence for the wireless signal.

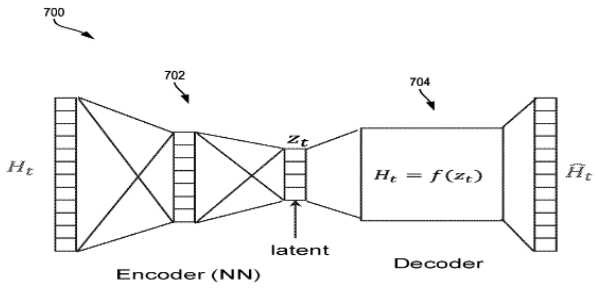


FIG. 7

No. of Pages : 34 No. of Claims : 46

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :17/10/2023
(21) Application No.202327070682 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : EYE EXAMINATION APPARATUS WITH CAMERAS AND DISPLAY

(51) International classification :A61B 3/14, A61B 3/12, A61B 3/18
(31) Priority Document No :63/186983
(32) Priority Date :11/05/2021
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/CA2022/050736
Filing Date :10/05/2022
(87) International Publication No :WO 2022/236410
(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)NEUROPTEK CORPORATION INC.
Address of Applicant :104 River Road Winnipeg, Manitoba R2M 3Z4 Canada
(72)**Name of Inventor :**
1)MANSOURI, Behzad
2)ANSSARI, Neda

(57) Abstract :
Disclosed is an eye examination apparatus that can be used in professional settings. The eye examination apparatus has a body having a first eye opening and a second eye opening for a user to see into the eye examination apparatus using two eyes. The eye examination apparatus also has a first camera coupled to the body and positioned to acquire ophthalmic images through the first eye opening, and a second camera coupled to the body and positioned to acquire ophthalmic images through the second eye opening. The eye examination apparatus also has at least one display coupled to the body and positioned to be viewable through the first eye opening and the second eye opening.

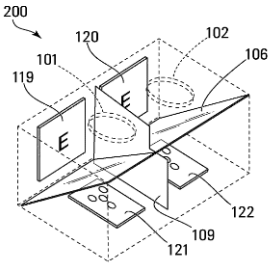


FIG. 2a

No. of Pages : 36 No. of Claims : 30

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/01/2024

(21) Application No.202428004642 A
(43) Publication Date : 19/04/2024

(54) Title of the invention : FLEXIBLE BONE TOOL

(51) International classification :A61B 17/16
(31) Priority Document No :62/279,815
(32) Priority Date :17/01/2016
(33) Name of priority country :U.S.A.
(86) International Application No :PCT/IL2017/050062
Filing Date :17/01/2017
(87) International Publication No : NA
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :201827029322
Filed on :03/08/2018

(71)**Name of Applicant :**
1)T.A.G. MEDICAL DEVICES - AGRICULTURE COOPERATIVE LTD.
Address of Applicant :Kibbutz Gaaton, 2513000 Doar-Na Oshrat, Israel. Israel
(72)**Name of Inventor :**
1)ZILBERMAN, Roy
2)ALFIA, Aviram

(57) Abstract :
A flexible bone tool including a plurality of links pivotly coupled to each other and collectively define a substantially tubular, bendable body coupled (a) at a proximal end to a holding portion and (b) at a distal end to a bone tissue removing element. The plurality of links includes one or more proximal links having an engaging portion, a wall of which comprising a first aperture and one or more distal links comprising a receiving portion, a wall of which comprising one or more second apertures, the receiving portion being sized and fitted to receive the engaging portion such that the first and second apertures are aligned and at least one pin sized and fitted to be received by the aligned first and second apertures and pivotly couple said proximal and distal links. Figure 3A is the representative figure.

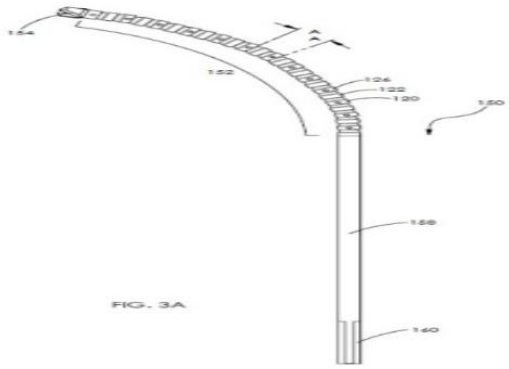


FIG. 3A

No. of Pages : 87 No. of Claims : 18

CONTINUED TO PART- 3