INTRODUCTION

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

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

27th JULY, 2018
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# Address of the Patent Offices/Jurisdictions

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

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<th>No.</th>
<th>Office/Location</th>
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<tr>
<td>1</td>
<td>Office of the Controller General of Patents, Designs &amp; Trade Marks, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037</td>
<td>Phone: (91)(22) 24123311, Fax: (91)(22) 24123322</td>
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<td><a href="mailto:cgpdtn@nic.in">cgpdtn@nic.in</a></td>
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<td>2</td>
<td>The Patent Office, Government of India, Boudhik Sampada Bhavan, Near Antop Hill Post Office, S.M. Road, Antop Hill, Mumbai – 400 037</td>
<td>Phone: (91)(22) 24137701</td>
<td></td>
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<td><a href="mailto:mumbai-patent@nic.in">mumbai-patent@nic.in</a></td>
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<td></td>
<td>The States of Gujarat, Maharashtra, Madhya Pradesh, Goa and Chhattisgarh and the Union Territories of Daman and Diu &amp; Dadra and Nagar Haveli</td>
<td>Fax: (91)(22) 24130387</td>
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<td>3</td>
<td>The Patent Office, Government of India, Boudhik Sampada Bhavan, Plot No. 32., Sector-14, Dwarka, New Delhi – 110075</td>
<td>Phone: (91)(11) 25300200 &amp; 28032253</td>
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<td></td>
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<td>Fax: (91)(11) 28034301 &amp; 28034302</td>
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<td>4</td>
<td>The Patent Office, Government of India, Intellectual Property Rights Building, G.S.T. Road, Guindy, Chennai – 600 032.</td>
<td>Phone: (91)(44) 2250 2081-84</td>
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<td></td>
<td>The States of Andhra Pradesh, Telangana, Karnataka, Kerala, Tamil Nadu and the Union Territories of Puducherry and Lakshadweep.</td>
<td>Fax: (91)(44) 2250 2066</td>
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<td>5</td>
<td>The Patent Office (Head Office), Government of India, Boudhik Sampada Bhavan, CP-2, Sector –V, Salt Lake City, Kolkata- 700 091</td>
<td>Phone: (91)(33) 2367 1943/44/45/46/87</td>
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<td><a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></td>
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<td>Rest of India</td>
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</table>

Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)  
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All applications, notices, statements or other documents or any fees required by the Patents Act, 1970 and The Patents (Amendment) Act, 2005 or by the Patents (Amendment) Rules, 2006 will be received only at the appropriate offices of the Patent Office.

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.
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<th>महानगर, एक्स्ट्रा, अभिकल्प तथा व्यापार स्थान, एंटोप हिल ढाकर के समीप, एस.एम. 235, एंटोप हिल, मुंबई- 400 037, भारत</th>
<th>4</th>
<th>पेटेंट कार्यालय, भारत सरकार इंटेलेक्स्युल प्रॉपर्टी राइट्स बिल्डिंग, इंडस्ट्रियल इस्टेट एसआईडीसीओ आरएमडी गोडाउन एरिया एडजेसेंट ट्र ईंगल प्लास्ट, जी.एस. टी. रोड, गावकौ, चेन्नई - 600 032.</th>
<th>पेटेंट कार्यालय, भारत सरकार कोलकाता, (प्रशासन कार्यालय) बौद्धिक संपदा स्वर, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत.</th>
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<td>2</td>
<td>पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा स्वर, एंटोप हिल ढाकर के समीप, एस.एम. 235, एंटोप हिल, मुंबई- 400 037, फोन: (91) (22) 24137701 पैसा: (91) (22) 24130387 ई. मेल: <a href="mailto:Mumbai-patent@nic.in">Mumbai-patent@nic.in</a></td>
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*पेटेंट अभियंता, 1970 तथा पेटेंट (संशोधन) अभियंता, 2005 अधिनियम पेटेंट (संशोधन) नियम, 2006 द्वारा बांटित सभी आवेदन, सूचनाएँ, विवरण या अन्य दस्तावेज़ या कोई भी शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में भी जीवित होंगे।

शुल्क: शुल्क या तो नवीन रूप में या Controller of Patents के नाम में देने वाले या चेक के द्वारा पेंची जा सकती है जो उसी स्थान के किसी अन्य स्थान में तिनका स्थान हो जहाँ उपयुक्त कार्यालय स्थित है।*
SPECIAL NOTICE

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

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

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

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

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

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

SPECIAL NOTICE

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

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

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201811025086 A
(19) INDIA
(22) Date of filing of Application: 05/07/2018
(43) Publication Date: 27/07/2018

(54) Title of the invention: THE PERGENITOR POWER-PLANT

| (51) International classification | :F03D13/20 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| (87) 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) ARYAN ONKAR

(57) Abstract:
A device that can generate electricity for infinite time without polluting the environment at all and by using gravity as a fuel to generate electricity. To produce electricity, I have used a perpetual motion machine that is connected to a turbine with the help of a piston. The perpetual motion machine used here works on the concept of shifting of center of mass by the force of gravity. The perpetual motion machine will continuously move up and down. This linear motion of the machine is converted into rotational motion using a piston. The torque of rotational motion is increased using a gearbox and the output of the gearbox is supplied to the turbine for electricity generation. Go through the working principle for defined explanation with diagrams. Many of the perpetual motion machines are said to be unsuccessful as they violate the law of conservation of energy (thermodynamics). But this device is designed in such a manner that it cannot violate the law of conservation of energy. The law says that energy can neither be created nor be destroyed it can only be changed from one form to another. The pergenitor power-plant converts gravitational energy into mechanical energy that is further converted into electrical energy. The word "pergenitor" is derived from the Latin word "perpetuum genitor" that actually means a perpetual generator in English. The word perpetual means never ending or infinite in English.

No. of Pages: 9 No. of Claims: 6
Title of the invention : SMART MUSCLE RELAXER

Abstract :
Present invention provides a smart, portable, economical, and reusable hot/cold muscle relaxer system consisting of seven sub units including a interface unit, peltier based hot/cold gel, temperature sensor device, processor, wifi module, gel pump, mobile app, and power supply of 3.3 V, 5 V and 12 V. Interface works on 5 V, processor requires 5 V, wifi modules runs on 3.3 V. Wifi based mobile app controls hot/cold sequencing as applicable to the user through the processor. The processor transmits and receives signals from the peripheral sub units. It applies a controlled sequence to the peltier element through the interface for dynamically maintaining the desired temperature on the active area. Temperature difference between the hot and cold sides of the peltier element is maintained using a microcontroller based mini gel pump.

No. of Pages : 12 No. of Claims : 6
The design of modern technologies often seeks to improve efficiency of the design to facilitate functional goals of the system. However, it is assumed that machine functioning does not involve any ethical requirements vis-à-vis its application context. Such a perspective may precipitate situations that may endanger essential human values and cause physical, mental or emotional harm to human beings. The problem is exacerbated with the advent of pervasive technologies like the Internet of Things and increased use of artificial intelligence in smart devices. We propose a method that implements ethics in order to address these concerns. The method is able to represent ethical desirability of various scenarios in a device functioning in terms of several ethics categories. Also, the method is able to exhibit varying ethical requirements for different scenarios based on the application context. We demonstrate our method by implementing ethics on a smart knife that we call ethics-aware knife.

No. of Pages : 15 No. of Claims : 2
The present invention categorically describes techniques implying artificial intelligent and machine learning method to recommend professional choices or options a user which in exemplary case is a student/candidate, can pursue based on his interest, skills and career plans. The invention further provides stored expert content in form of videos and blogs owing similarity to the interest and career set of a student. The expert content helps student make informed decisions and provides a motivational backing. The invention further uses artificial intelligence, machine learning and parsing techniques to provide institutes offering courses which may assist in realizing the recommended profession option. The institute information are associated to a block-chain based database. The embodiment of the invention provides a concise graphical interface of the recommended and at least a selected interest, career, profession, course and institute option in form of a roadmap.

No. of Pages : 31 No. of Claims : 9
Title of the invention: INTELLIGENT AUTOMATED SOLAR POWERED AGRI-CUTTER DEVICE & METHOD THEREOF

Abstract:
Intelligent Automated Solar Powered Agri-Cutter is a device that uses blades to cut a grass at an even height. It is a very useful device having very simple construction. In this device power is delivered by the Solar Panel. Battery is used for storage of the solar energy in the form of electrical energy. Whereas it can also be charged by using a lead wire connected to electrical supply in the absence of sunlight. This device is operated by Atmega8microcontroller which is drives all the motors. The sensor is used to sense any obstacle or object to avoid accident/harm comes in the working of device. This device shows that how technology can be used to reduce human efforts as well as to efficiently utilize renewable sources of energy, this environment friendly device is designed to overcome the problem of air and noise pollution.

No. of Pages: 11
No. of Claims: 5
(54) Title of the invention: A SYSTEM TO ENABLE CONTEXTUAL CALLING BETWEEN PHONE DEVICES

(51) International classification: G06F11/27

(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA

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

(87) International Publication No: NA

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

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

(57) Abstract:
Disclosed is a system to enable contextual calling between phone devices. The system comprises of an intelligent caller identification module which can be utilized for identifying if the calling party is a genuine calling party or a SPAM caller. The proposed system intelligently identifies the NON SPAM - genuine callers and requests them to punch in the CONTEXT â€” Reason of the call, as in WHY is this person making a call to another person who he doesn’t know, whereby ensuring that a user of the system doesn’t get any SPAM calls. The present invention allows a customer to not only free up his time by not atteneding to SPAM or unwanted calls but it also enables the user to have more meaningful conversations over phone. The proposed system is important for Businesses and Individual users alike, as today a Business trying to engage with a customer ends up SPAMMING the probable customer with calls, while a customer trying to engage with a Business has to wait on their IVR’s where the customer care agent has no clue why has this customer called them. This proposed system allows a user/agent to know the CONTEXT of the call even before picking up the call. The CONTEXT here is provided on the incoming call screen (while the phone rings it will also display the CONTEXT as punched in by the calling party "caller" along with the CLI of the caller). The system will help the user to get highly efficient and have a convenient life style.

No. of Pages: 7 No. of Claims: 5
Title of the invention: NONAQUEOUS LITHIUM-TYPE POWER STORAGE ELEMENT

Abstract:
A nonaqueous lithium-type power storage element contains a nonaqueous electrolytic solution that contains a positive electrode, a negative electrode, a separator and a lithium ion. The negative electrode has a negative electrode active material layer containing a negative electrode active material said layer being provided on one surface or both surfaces of the negative electrode collector. The positive electrode has a positive electrode collector and a positive electrode active material layer containing a positive electrode active material provided on one surface or both surfaces of the positive electrode collector. The expression $1.04 = b/a = 5.56$ obtains where in the solid 7Li-NMR spectrum of the positive electrode active material layer $a$ is the peak area at -40 ppm to 40 ppm obtained by measuring with a repeated standby time of 10 seconds and $b$ is the peak area at -40 ppm to 40 ppm obtained by measuring with a repeated standby time of 3000 seconds.

No. of Pages: 116 No. of Claims: 31
Title of the invention : A WIRELESS MOBILE CHARGING DIARY

Abstract:
Present invention provides a diary comprises of an upper flap and lower flap joined at either side of a movable portion. The movable portion of the diary provided within inside a plurality of paper sheets hinged to a metal plate which is fixed on the movable portion by rivet. The plurality of paper sheets are movably attached to the metal plate by metal rings. The upper flap and lower flap are comprised of two sheets providing an internal housing (upper and lower internal housing) for flat rigid support. The lower internal housing of lower flap provided with a power bank. The power bank is internally wired with USB cable for charging the power bank. The power bank is also wired with two cables one providing Type C output and other providing with MicroB/IOS Output. The upper flap is provided with a transmitter coil and oscillator which is connected to DC source of the power bank. A wireless charging enabled fully drained mobile device positioned on the diary can be charged within 2-3 hours.

No. of Pages : 14 No. of Claims : 9
The present disclosure provides devices for preventing or absorbing fluid (e.g., sweat) and/or odors from the intergluteal cleft of a subject. In some embodiments, the present disclosure provides devices for treating or preventing hemorrhoids and methods of using same.

No. of Pages : 50 No. of Claims : 33
A mobile terminal and a method of adjusting a display screen during photographing thereof, and computer readable storage medium are disclosed. The method includes receiving a camera start signal of the mobile terminal, starting the camera and increasing a brightness of the display screen of the mobile terminal in a preset duration.

No. of Pages : 29 No. of Claims : 15
Abstract:
1. A method for processing white balance, characterized by comprising: acquiring a first image frame with a face image at a first acquisition time point, and a second image frame without a face image at a second acquisition time point different from the first acquisition time point;

No. of Pages: 32  No. of Claims: 15
A method and device for processing white balance of an image and storage medium are provided. The method includes that: a first gain of an image is calculated according to a Face Automatic White Balance (FaceAWB) algorithm configured to regulate a face in the image to a skin color; a second gain for the image is calculated according to a simple gray world algorithm; whether the first gain is similar to the second gain is determined; and responsive to a determination that the first gain is similar to the second gain, white balance processing is performed on the image according to the second gain, and responsive to a determination that the first gain is not similar to the second gain, white balance processing is performed on the image according to the first gain. The technical problem that a white balance algorithm is selected in a user setting manner to easily mismatch the white balance algorithm with a practical scenario and deteriorate a white balance processing effect is solved.

No. of Pages : 33 No. of Claims : 10
(54) Title of the invention : ENCLOSURE FOR A TRANSMITTING DEVICE

An enclosure (202) for a transmitting device (100) disposed in a tire (102) having a liquid (108) is provided. The enclosure (202) includes a lower half portion (206) having an outer surface (316). The outer surface (316) defines a first set of notches (318) disposed at a first radial distance (R1) from a central axis (A-A'). The first set of notches (318) resists a rotational motion of the enclosure (202) in the liquid (108). The outer surface (316) further defines a second set of notches (322) disposed at a second radial distance (R2) from the central axis (A-A'). The second set of notches (322) resist the rotational motion of the enclosure (202) in the liquid (108). The enclosure (202) further includes an upper half portion (204) coupled to the lower half portion (206). The upper half portion (204) and the lower half portion (206) together enclose a sensor (210) therein. Fig. 5

No. of Pages : 22 No. of Claims : 4
A vibration alert device (100) is disclosed. The vibration alert device (100) includes a housing (200), one or more of vibrators (108a, 108b, 108c, 108d, 108e) associated with the housing, one or more of shielding circuits (112a, 112b, 112c, 112d, 112e) and a processor (120). The one or more of vibrators (108a, 108b, 108c, 108d, 108e) is distributed at predefined angles in the housing for providing directional assistance to a wearer. Each shielding circuit associated with a respective vibrator. The processor (120) is coupled to the one or more shielding circuits (112a, 112b, 112c, 112d, 112e). The processor (120) is configured to trigger the shielding circuit and in turn the associated vibrator to create a vibration pattern corresponding to three-dimensional directional assistance to be provided to the wearer. FIG.1
This invention is directed to a system and method for sheet metal bending machines and, more particularly, to the Sheet metal bending device with Centerless hinges, wherein the Centerless hinges allows Bending Beam to rotate around this hinge through a desired bend angle to complete the bend.

No. of Pages: 37 No. of Claims: 4
Title of the invention: A WIDTH ADJUSTABLE NOZZLE FOR A GLUE GUN

Abstract:
The present invention provides a gluing mechanism. To describe explicitly, the invention provides a width adjustable nozzle of a glue gun that allows application of adhesives on surfaces according to user requirement. The nozzle 100 includes an adapter 101, an inlet 102, a sealant 110 and an outlet 103 width adjustment mechanism. The width adjustment mechanism further comprises of sliding plates 104 (a, b), ring base 105(a, b) and rings 107(a, b) mounted over the shafts 108(a, b) made up of heat resistant material and capable of rotating at their axis.

No. of Pages: 20 No. of Claims: 11
In today's digital era, with the advancement & development of VLSI and fabrication technologies, the need of memories inside the system-on-chip are increasing, as a basic need. The miniaturization of the whole system, on a single chip is easier than the days when resources were limited. Therefore, this is a need of hour to embed the self-test and repair structure in the design for the efficient and correct operation i.e. the need of a low cost, economical, real time self-healing approach for RAM based on dynamic spare allocation. This structure could test, diagnose and repair the chip itself for the possible errors that makes it more effective in comparison with on-site testing or offsite testing. This method is also economically effective, as compared to external test equipment i.e. automatic test equipment. The circuit that is embedded inside the chip to test its self, is called built in self-test (BIST) circuitry and the action of its fault repairing is called built in self-repair (BISR). The action of Memory BIST (MBIST) is quite different, as compared to Logic-BIST (LBIST). With the course of time MBIST/ MBISR and supporting technologies have evolved immensely but the fact is that the basic model of testing and repair still remains user-centric. This leads to numerous inevitable issues pertaining to present fault diagnosis and repair that collaboratively seems to cease the desired growth of VLSI testing. The presented work focuses on both, MBIST and MBISR and divided into four main tasks: first, testing of memory under test, second, fault collection process, third, built in redundancy analysis (BIRA) that covers redundancy analysis for available redundant memory and forth was to verify and evaluate the performance metrics of this repairing action in terms of repair rate, total repair time and area overhead. In this work a system prototype was developed which deals with total 56 bytes-RAM of RTC-DS1307. This RAM is interfaced with PIC-18F452 microcontroller and the MMBISR module of the design can allocate the spare to faulty memory, according to their precedence marked by precedence analyzer. The implemented hardware also mapped the faulty locations with repaired one in such a way that new updated locations could be used for further memory operations. The execution stage of the fault collection and repair is also dynamic so it gives the advantage over other static approaches in which fault dictionary remains static.
The present invention discloses an Automatic Teller Machine (ATM) security system and method, more specifically, a system and method for preventing unauthorized tempering of the Automatic Teller Machine (ATM).

No. of Pages: 16  No. of Claims: 9
The present invention concerns a method to quantify mineral oil residues in foods and food products (such as apple fruit and soil). The method involves dry the sample, crush and then Pass through sieve and spike 150 gm of sample with paraffin standard at 1µg g⁻¹, then mix with 20g of anhydrous sodium sulphate, put the mixture in soxhlet thimble and Reflux with refluxing solvents for 4 hours. After that take 30ml of sample and dry over anhydrous sodium sulphate, after that take 2ml of extract in rotary vacuum evaporator and evaporate to near dryness, Reconstitute with 1ml hexane, Filter through 0.22 Âµm Polytetrafluoroethylene (PTFE) filters, Transfer the extract in 1ml autosampler vial and analyze on GC-FID.
A chemical method is introduced for producing layered copper hydroxide compound intercalated with polyoxovanadate ions using pH controlled solution growth. The X-ray diffraction and field emission scanning electron microscopy analyses of hybrid material formed by intercalation of polyoxovanadate ions into the layered copper hydroxide demonstrated layered structure of copper hydroxide with polyoxovanadate ions inside the copper hydroxide layered and house-of-card structure comprising of interconnected network of polyoxovanadate intercalated copper hydroxide layers nanosheet. This material is useful for supercapacitor, gas sensor, catalysis, drug delivery etc.
Methods for analysis and diagnosis of the respiratory tract infection diseases are based on two parameters viz. respiratory sound and respiratory tract imaging. Automatic Speech Recognition System (ASR) takes subject's voice as input. ASR system is mainly composed of three components: feature extraction stage, classification stage and a language model. Various feature extraction and classification methods are popular. The proposed model for asthma detection uses MFCC as feature extraction and ANFIS as classifier for feature mapping. MFCC provides good discrimination and has low correlation between coefficients. It is not based on linear characteristics, hence similar to human auditory perception system. The familiarity in the symptoms of respiratory infections makes it very difficult to determine if patients have influenza, common cold or other respiratory infections in first stage of exacerbation (abnormal breath). ANFIS has resulted as a better classifier. It is highly adequate for pattern recognition applications. Present Model uses Fuzzy Neural based ASR for Asthma detection. The Least Mean Square (LMS) Algorithm is used for adaptive filtering. The results produced illustrates the consistency of the developed model as compared with parallel methods.
**Title of the invention:** AL-BREAK: ARTIFICIAL INTELLIGENT BREAK PAD STATUS DISPLAY SYSTEM.

**Abstract:**
Intelligent vehicle break pad status indication system gives the break pad status in floating percentage and alert message which indicates whether replacement of break pad is needed or not. Vehicle break is used to slow down or stop vehicle so every time we need to use it after repeated use of vehicle break. Most of the times vehicle break pad get damaged so need to replace it. Traditionally there is only way to check break status is manually by mechanic in service station. Most of the times users are unaware about this break pad status and mechanic charges more money under maintenance of vehicle, so this vehicle break pad status indication system gives modern and new way of checking break pad status. This vehicle break pad status indication system contains multiple sensors, which read the break pad status continuously. This reading is then analyzed to calculate the status of break pad. If break pad status is below threshold value, then the vehicle break pad status indication system sends this information to LED indicator. LED indicator indicates break pad status in floating percentage and blink break pad replacement logo, which indicates replacement of break pad and it also indicates activation of auto active vehicle speed control device, according to vehicle type. This Vehicle break pad indication system helps user to save more money from fraud mechanic and also reduce accidents.

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

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3) KR. KHARAT AVANITA PRADIP
4) MRS. KHARAT ALKA PRADIP
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5) DR. BIPLAB KUMAR SARKAR
The patent is directed to a metal fishing vessel which is equipped with net hauler (drum winch), refrigerating unit, Auto pilot, sensing in fishres, Fishing net hauler is a equipment use to pull fishing net to boat. The net hauler or drum winch are offered in a variety designed for getting the net on board efficiently higher yield of the fishing time. The cold storage unit is operated based on the refrigeration system Refrigerating unit in fishing vessel It has facilities for preserving fish by freezing, allowing them to remain at sea for extended periods of time. They are medium to large size trawlers, with general arrangement of refrigerating unit Remote sensing in fishres. The software works with the help of a sonar sensor and echo. An instrument used to locate fish underwater by detecting reflected pulses of sound energy, as in sonar. A modern fish-finder displays measurements of reflected sound on a graphical display, allowing an operator to interpret information to locate fish, underwater debris, and the bottom of body of water. Fish-finder allows a high degree of integration between the fish-finder system which detects approximate numbers of fishes at particular location. Autopilot is a system used to control the path of an boat without constant "hands-on” control by a human operator being required. Autopilots do not replace human operators, but instead they assist them in controlling the boat.

No. of Pages : 56 No. of Claims : 4
Title of the invention: A VOICE CONTROLLED DOCUMENT SEARCHING AND READING SYSTEM AND METHOD THEREOF

Abstract:
The present disclosure envisages a voice controlled document searching and reading system (100) and method thereof. The technical advancement of the present disclosure is to provide an auto-corrected summarized version of documents in a voice controlled manner. The system (100) comprises an input module (10) to receive a user’s voice command, a speech recognition engine (12) to convert the user’s voice command to a text query, a web search engine (30) to search the World Wide Web (50) to fetch relevant data, a summarization module (32) to summarize the relevant data to generate summarized data, an auto-correction module (34) to generate corrected data, a reader module (40) to generate an audio output.

No. of Pages: 15
No. of Claims: 7
Title of the invention: A WIRELESS CHARGING SYSTEM

Abstract:
The present disclosure relates to a wireless charging system (100) for an electronic device (116). In accordance with the present disclosure, the system (100) includes a power source (102), a transmitter (104), and at least one receiver (106). The power source (102) is configured to generate a power signal. The transmitter (104) is configured to transmit the power signal. The receiver (106) is configured to receive the power signal. The receiver (106) includes a resonating unit (108) and a rectifying unit (110). The resonating unit (108) is configured to receive the power signal and is further configured to generate an induced voltage. The rectifying unit (110) is configured to receive and convert the induced voltage to a DC voltage. The receiver (106) is further configured to charge a battery (120) of at least one electronic device (116) by receiving the DC voltage.

No. of Pages: 16  No. of Claims: 7
| (54) Title of the invention : SMART MOBILE PHONE/TAB HANDLER |
| (51) International classification : B60R 11/00 | (71) Name of Applicant : 1) SATHEESKUMAR.D |
| (31) Priority Document No : NA | Address of Applicant : 306, 5th STREET, KANDASAMY NAGAR, PALAVAKKAM, CHENNAI 600 041, TAMILNADU, INDIA, Tamil Nadu India |
| (32) Priority Date : NA | (72) Name of Inventor : 1) SATHEESKUMAR.D |
| (33) Name of priority country : NA | |
| (86) International Application No : NA | |
| (31) Priority Document No : NA | |
| (32) Priority Date : NA | |
| (33) Name of priority country : NA | |
| (86) International Application No : NA | |
| (87) International Publication No : NA | |
| (61) Patent of Addition to Application Number : NA | |
| Filing Date : NA | |
| (62) Divisional to Application Number : NA | |
| Filing Date : NA | |

(57) Abstract:
I have used the stainless steel frame for the half circle setup for the initial Prototype. When going for production, have to decide which material feasible for Cost effective, durable and light weight to handle.

No. of Pages : 7 No. of Claims : 6
**Title of the invention : WASTE CONVERTER (E 7000)**

| (51) International classification | :E03C1/00 | (71) Name of Applicant : 1) J. BHARADWAJ |
| (31) Priority Document No | :NA | Address of Applicant : Eco Care Technologies, No.22/23, Thyagaraya Road, No.02, 1st Floor, Rainbow Arcade, T.Nagar, Chennai-600017, Tamilnadu, India Tamil Nadu India |
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| (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 waste converter (E 7000) is an in-house waste converter & a multi utility kit for home to convert waste to Biogas and manure. The system processes the waste in a sealed chamber and is odour free. The present invention comprises of feeding sink (110), where the domestic waste is fed and crushed by means of waste crusher (115). The waste is entered to the waste crusher (115) by means of an inlet pipe (120) through which the waste is entered into the digester (125) which digests the waste water. The gas obtained by digesting the waste is held by means of a gas holder (130) which can preserve biogas for domestic purpose and the gas outlet (135) is connected to a cooking gas by means of a tube. The final outlet (140) provides means to pass the remaining waste from the digester (125) outside. The final waste is grey water which acts as manure to the soil.

No. of Pages : 14 No. of Claims : 5
Title of the invention: A SELF-CONTAINED WASTAGE CRUSHER AND DISPOSER

Abstract:
The present invention is a wastage crusher and disposer which crush waste by centrifugal force created by high speed rotation of the waste landing disc. The present invention comprises of special Hammer blocks provided on the landing disc which disintegrate the solids in seconds. Sieve provided in landing disc allow only particles less than 2-2.5mm size & thus guarantees block free drainage. The waste is crushed and drained simultaneously. The present invention is simple, economical and small in size and can be adaptable in any conditions. The crusher & Motor are connected through a V belt to stop motor failure due to water seepage. Serrated grinding ring and special disc assembly design allows regrinding thereby extending the life of crusher 2-3 years.

No. of Pages: 15 No. of Claims: 6
**Title of the invention:** HOPPER BOTTOM PLASTIC WATER TANK WITH INBUILT LEGS IN SINGLE MOULD

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**Abstract:**

An improved hopper bottom plastic water tank with inbuilt legs in single mould (1) for purification and storage of potable water, the said Plastic water tank comprises of Hopper bottom With self sustaining inbuilt legs ; characterized by a horizontal water distributor below the outlet to create a cyclone effect in the water tank whereby the solids can be settled and drained out; characterized by a means to drain impurities, wherein at the bottom of the tank, through the centre of the legs, a 5cm diameter PVC cross piping with 40-45 number 6 mm holes facing towards the bottom and 3 ends of the PVC piping closed and one end is connected with the drain valve is installed which ensures that the suspended solid after settling could be completely drained out daily from the overhead tank by draining 10 to 15 litres of water.

No. of Pages: 15 No. of Claims: 5
Title of the invention: A COMPUTER IMPLEMENTED SYSTEM FOR A FACE IMAGE COMPLETION AND METHOD THEREOF

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3) ANWESHA KAKOTY
4) SHIBANGI DAS

Abstract:
ABSTRACT A COMPUTER IMPLEMENTED SYSTEM FOR A FACE IMAGE COMPLETION AND METHOD THEREOF

The present disclosure envisages a computer implemented system (100) for a face image completion. The system comprises a model generator (12) to generate a face generation model, a face generator (16) to process an incomplete face image to generate a complete face image based on the face generation model, a face image analyzer (18) to identify imperfections in the completed face image, a face image optimizer (22) to optimize the completed face image using the least two image processing techniques.

No. of Pages: 15
No. of Claims: 6
A HEIGHT ADJUSTABLE TABLE

The present disclosure relates to the field of furniture and disclose a height adjustable table that ensures stability of a table platform during height adjustments. The table comprises a plurality of legs, a frame, an input means, a control unit and leveling mechanisms. The frame is supported on the plurality of legs. The input means is configured to receive a value corresponding to the desired height from a user. The control unit is configured to cooperate with the input means, and is further configured to generate an actuation signal based on the received value of the desired height. The leveling mechanism is mounted on each side of the frame, and is associated with each leg, wherein each of the leveling mechanisms is configured to cooperate with the control unit, and is further configured to angularly displace the associated leg to attain the desired height based on the received actuation signal.

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

Abstract:
A HEIGHT ADJUSTABLE TABLE The present disclosure relates to the field of furniture and discloses a height adjustable table that ensures stability of a table platform during height adjustments. The table comprises a plurality of legs, a frame, an input means, a control unit and leveling mechanisms. The frame is supported on the plurality of legs. The input means is configured to receive a value corresponding to the desired height from a user. The control unit is configured to cooperate with the input means, and is further configured to generate an actuation signal based on the received value of the desired height. The leveling mechanism is mounted on each side of the frame, and is associated with each leg, wherein each of the leveling mechanisms is configured to cooperate with the control unit, and is further configured to angularly displace the associated leg to attain the desired height based on the received actuation signal.

No. of Pages : 22 No. of Claims : 10
A smart metering system, comprising: a SBC is a local controlling and monitoring station device with RF modem to which energy metering devices with energy metering firmware are connected over RF mesh network. The energy metering device can be configured to measure consumption of number of consumers. A radio frequency (RF) modem connected to the single board computer (SBC) via a communication link, whereby the radio frequency (RF) communication link is further connected to a mesh network with a plurality of load control modules (LCMs); and an administrative software based user interface for administration which receives energy across a radio frequency (RF) mesh network, whereby a software interface is configured to interface between the administrative software and the energy metering firmware resulting in energy metering and load control device and the plurality of load control modules (LCMs) automatically disconnecting each load upon the consumer’s use exceeding the allocated energy quota and further automatically connecting the load to consumer for the user to pay the amount which is due.
Utility-in-a-box system for renewable solar energy distribution has been described. The system facilitates streamlined, integrated, pre-assembled and continuous distribution of renewable solar energy with the help of solar panels being mounted on three important components. The first being the Power Management Unit (PMU), that powers electronics like inverters, charge controllers along with all necessary electrical connections including the connection/disconnection switches, fuses and surge protection devices. The second component is the Storage Battery Unit (SBU), so as to control mechanisms for connecting and disconnecting batteries including the necessary protection devices. The last component is the master control unit (MCU) to control entire operations of solar mini-grid without having any need to open the PMU or the SBU or any other element of the solar mini-grid. Such utility-in-a-box is easy to install, with most components pre-installed, cost-efficient and can amp up easily by adding power control units under the array. [Fig 900]

No. of Pages : 25 No. of Claims : 10
The present invention relates to a new herbal composition preparation thereof and its evaluation for the treatment of inflammation activities. The invention also provides the herbal composition with mixture of extracts produced from leaves of the plants.
A 15 Degree of Freedom High Flexibility Prosthetic Arm that provide a user of the High Flexibility prosthetic arm apparatus with substantially the same movement capability and function as a human arm. A 15 Degree of Freedom High Flexibility Prosthetic Arm the usage of cables and pulley systems in the position of the joints. A total of 15 Actuators have been used to obtain the entire motion of the human Hand. High Performance Micro-controller and Motor-Driver are used to interface the actuators. From the actuators, cable transmission is used to transmit power from the actuator to the Joints and A 15 Degree of Freedom High Flexibility Prosthetic Arm can also be used for remote operation in unsafe and dangerous environments.
The present invention is an integrated setup which performs both catalytic reactions and product separation in a single reactor setup and can be used in a continuous mode. Mesoporous CMK-3 is synthesized and functionalized with concentrated sulphuric acid at different preparative temperatures to achieve SO3H/CMK-3 and is incorporated into the PVDF polymer matrix prepared by Liquid Liquid phase inversion method. The functionalized mesoporous material incorporated polymeric membrane separates the aqueous and organic phases in the counter-current operated catalytic membrane reactor and tested for the dehydration efficiency of sugars in the designed catalytic membrane reactor. Fructose dissolved in the aqueous compartment is catalytically reacted with SO3H-CMK-3 catalyst at the membrane interface resulting in the product formation. 5-HMF is stripped by the MIBK, organic solvent, and showed a 100% selectivity towards 5-HMF in the dehydration of fructose. The continuous removal of the 5-HMF product limits the formation of other side products.
The present disclosure relates to a system (100) for charging a battery by utilizing excess heat energy. In accordance with the present disclosure, the system (100) comprises a thermo-electric unit (106), a signal conditioning unit (108), an amplification unit (110) and a charging unit (112). The thermo-electric unit (106) is in thermal communication with a burner (102) of a gas stove and is configured to generate an output voltage. The signal conditioning unit (108) is configured to receive the output voltage and is configured to generate a constant DC voltage. The amplification unit (110) is configured to receive the constant DC voltage, and generate an amplified DC voltage. The charging unit (112) is coupled to the battery (114) and further configured to charge the battery (114).
Title of the invention : A VIBRATORY SYSTEM FOR MASSAGING THE ARCH PORTION OF A FOOT OF A USER

(51) International classification : A61H 23/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
(62) Divisional to Application Number : NA

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Abstract :
A VIBRATORY SYSTEM FOR MASSAGING THE ARCH PORTION OF A FOOT OF A USER The present disclosure relates to the field of massaging systems. A vibratory system (100) of the present disclosure is used for massaging the arch portion of a foot of a user. The vibratory system (100) comprises a user device (10), protuberances and a vibratory massaging unit (20). The vibratory massaging unit (20) comprises a memory (22), a processor (24), a transceiver (26), an analog to digital converter (28), and a piezo motor (30). The user device (10) transmits at least one analog massaging control signal. The transceiver (26) receives the analog massaging control signals and transmits the analog massaging control signals to the analog to digital converter (28). The analog to digital converter (28) converts the analog massaging control signals to a digital massaging control signals. The piezo motor (30) cooperates with the analog to digital converter (28) to receive the digital massaging control signals and generate oscillations.
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application : 22/04/2018
(43) Publication Date : 27/07/2018

(54) Title of the invention : A SYSTEM AND METHOD FOR PROVIDING MULTIMEDIA CONTENT DETAILING INFORMATION ABOUT A PRODUCT OR SERVICE

(51) International classification : G06F17/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(36) International Application No : NA
Filing Date : 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) Dr. Maruthi Viswanathan

(72) Name of Inventor :
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(57) Abstract :
NA

No. of Pages : 63
No. of Claims : 49
AN ATTENDANCE SYSTEM AND METHOD THEREOF

An attendance registering system (100) comprising an image capturing device (108) configured to capture one or more images of a user, a feature extractor (110) coupled to the image capturing device (108), the feature extractor (110) configured to extract one or more features from each image, a comparator (112) coupled to the feature extractor (110), the comparator (112) configured to compare the features extracted from the image of the user with one or more stored images in a database (106) so as to generate a compared information, an analyzer (114) coupled to the comparator (112), the analyzer (114) configured to receive and analyze the compared information and generate a list of users who are present or absent and an attendance registration module (116) coupled to the analyzer (114), the attendance registration module (116) being configured to collect presence data of each of the users and generate an attendance report thereby.

No. of Pages : 22 No. of Claims : 10
A system and method for virtual superimposition of a spectacle on the user’s face is disclosed. The system includes a computing entity (108). The computing entity (108) includes one or more modules as follows. An end user image receiving module (202) receives and uncompresses an image of the end user (102). A face and eyes detecting module (204) detects the face and the eyes of the end user (102). An inter Pupillary Distance calculating module (206) calculates an inter pupillary distance and a point of superimposition. A transparency image accessing module (210) accesses a transparency image of the spectacle stored. A reflection image accessing module (212) accesses a reflection image of the spectacle. A side light entry image fetching module (214) fetches a side light entry image. A superimposition parameters and spectacle images transmitting module (216) transmits parameters for superimposition and one or more spectacle images.

No. of Pages : 28 No. of Claims : 6
Title of the invention: "CHARGER SOCKET OF A CHARGING CONNECTOR FOR ELECTRIC VEHICLES"

Abstract:
Embodiments of the present disclosure relates to an ergonomic, light-weight, and compact charging connector [100]. The charging connector [100] comprises a charging socket [110], and a handheld unit [120], wherein the charging socket [110] is mounted on the handheld unit [120]. Further, the charging socket [110] comprises a plurality of terminals, namely, a first plurality of terminals [102], a second plurality of terminals [104], a third plurality of terminals [106], and the fourth plurality of terminals [108] configured to mate with corresponding terminals of an device and enable charging. Lastly, angular grip on the handheld unit [120] increase the ease of use of the charging connector [100]. [Figure 1]
Title of the invention: A SYSTEM AND A METHOD FOR ENABLING COMMUNICATION BETWEEN DEVICES USING AUDIO FREQUENCY

| (51) International classification | :G06F7/02 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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Name of Inventor:
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2) IBRAHIM SANKADAL
3) SIDARAY BIRADAR

Abstract:
The various embodiments of the present invention disclose a system and method for initiating communication between different devices using audio frequency. The invention enables buzzers to generate monotone or limited tones for communication and data transmission. The first electronic device includes a frequency generator, an audio driver library, the buzzer or speaker, and a transmitter & the second electronic includes has an audio receiver mic, audio driver library, frequency receiver. The transmitter generates a communication request from a first electronic device to second electronic device. Further, the first electronic device and the second electronic device is installed with a buzzer application which when executed on the processor, causes the processor to enable communication between the first electronic device and the second electronic device by generating audible frequency using the buzzer/speaker. [FIG.1]

No. of Pages: 22 No. of Claims: 9
(54) Title of the invention: BURIED CHANNEL NORMALLY-OFF GAN HIGH ELECTRON MOBILITY TRANSISTOR (HEMT) WITH RESURF JUNCTION

(51) International classification: H01L 29/00
(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA
(86) International Application No: NA
Filing Date: NA
(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
Filing Date: NA
(62) Divisional to Application Number: NA
Filing Date: NA

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5) BHAT, Navakant

(57) Abstract:
AS ATTACHED

No. of Pages: 39 No. of Claims: 15
**Title of the invention:** METHOD AND SYSTEM FOR MANAGING EXECUTION OF OPERATIONS TO FACILITATE FAULT TOLERANCE IN DISTRIBUTED SYSTEM

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**Name of Inventor:**
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2) Hari Charan Ramachandra Rao
3) Phani Kumar G V
4) Siva Ganeshan
5) Kartik Chandrasekar Iyer

**Abstract:**
Disclosed herein is a method and system for establishing fault tolerant communication channel between a terminal device and a target system. In an embodiment, the communication channel between the terminal device and the target system, through a primary communication gateway, is monitored for collecting state information related to the communication channel and to detect a fault in the primary communication gateway. The state information is stored in the terminal device. Subsequently, upon detecting the fault, a secondary communication gateway is selected and configured with the state information, thereby replacing the primary communication gateway, and re-establishing the communication channel between the terminal device and the target system through the secondary communication gateway. Thus, the present disclosure discloses an efficient approach for replicating state information related to communication channel to secondary communication gateways upon detecting fault in the primary communication gateway, thereby enhancing reliability and availability of the communication gateways for communication. FIG. 1

No. of Pages: 31 No. of Claims: 11
The present invention is a solar thermal energy collection device. This invention relates to Physical Sciences. This device comprises of the following components:

1) A framed structure provided to interconnect, and to hold and support two half-hemisphere shaped concave reflectors, and three quadrant sectioned concave cylindrical sunlight reflectors. Said framed structure is fitted with wheels for allowing linear movement and rotation to do orientation of all reflectors and said solar energy absorber to face the Sun.

2) A means for solar energy absorption comprising of means for holding or housing the solar thermal energy absorber and a solar thermal energy absorber held in said means for holding or housing the said solar thermal energy absorber. It is hereafter called and referred as frame of absorber. Said frame of absorber is either without air tight transparent thermal insulation covering or provided with air tight transparent thermal insulation covering. It is supported on said framed structure (used to support all components of the device) in predefined position such that it is capable of intercepting and receiving most of the sunlight reflected by all reflectors.

3) Three quadrant sectioned concave cylindrical sunlight reflectors are connected to said absorber's outer surfaces, to serve the purpose of collectively reflecting most of incident sunlight on said absorber. Said each one reflector comprises of a frame or surface having upward facing concave surface in shape of concave half-hemisphere, and fitted on its concave surface with sunlight reflective material capable of specular reflection of sunlight. Among said three reflectors, one reflector is connected to bottom side face. Another reflector of bigger size is connected to vertical face lower end adjacent to top end of said bottom side reflector. Third reflector is connected to outer lower end of said bottom side reflector such that it faces another vertical face of said absorber and it is capable of reflecting sunlight on said bottom side reflector and also on said absorber. Said absorber and said one reflector comprises of a frame or surface having upward facing concave surface in shape of concave half-hemisphere, that is the quadrant part of a sphere, and fitted on its concave surface with sunlight reflective material capable of specular reflection of sunlight. Said two symmetrical half-hemisphere shaped sunlight reflectors placed at same elevation such that their concave surfaces face each other, and their outer vertical diametric planes are parallel to each other, and their top apertures also lie in same plane.
The present invention relates to an Active Accelerator Pedal (AAP) with haptics as proposed for a smart operator assistance system. More particularly, the present invention relates to a smart bi-lateral pedal module with shape memory alloy which acts as a human machine interaction (HMI) system. The haptic sensory active accelerator pedal module [24] for advanced operator assistance system in an automobile [13] comprises one or more bilateral bi-functional shape memory alloy (SMA) wires [9] comprising a SMA1 [9a] and a SMA2 [9b], one or more outer discs [1,3], one or more inner discs [2,4], a central shaft [11], and one or more non-flexible metal rods [10]. Advantageously, the present invention relates to the pedal module in which the reaction force emanated from the pedal alerts the operator and takes appropriate control action in harmony with the road's condition. Figure 1:

No. of Pages : 48 No. of Claims : 8
**Title of the invention:** INTERNET OF THINGS (IOT) BASED WIRELESS TRACKING, MONITORING AND ANTI-TAMPER PARCEL PACKAGING

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<td>(36) Name of Applicant</td>
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<tr>
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<td>1) Swarna Kumari Adari</td>
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**Abstract:**
ABSTRACT INTERNET OF THINGS (IOT) BASED WIRELESS TRACKING, MONITORING AND ANTI-TAMPER PARCEL PACKAGING
The present disclosure relates to a parcel monitoring system, method and electronic device (e-device) for secure packaging, shipment, receipt and tracking of parcels. The tamper-proof seal (102) can include a transceiver (406) to communicate with one or more devices at remote location to transmit information associated with the package, and a plurality of slots (408-1, 408-2, 408-3, 408-4) adapted to receive one or more strings (104) in each of said plurality of slots (408-1, 408-2, 408-3, 408-4). In an embodiment, the said one or more strings (104) are electrically connected to each of said plurality of slots such that an interruption in said electrical connection triggers said transceiver (406) to transmit a notification to said one or more devices as an indication of seal tampering. FIG. 4 WILL BE THE REFERENCE FIGURE

No. of Pages : 20 No. of Claims : 10
The present invention discloses an absorbing system for generating and recycling breathing gas. The system comprises of a bellow assembly (102) configured to automatically create adequate pressure in the system for supplying breathing gas; a by-pass assembly (200) mechanically coupled to a CO2 absorbing container, and adapted to receive gas for inhalation. The by-pass assembly further comprises of an adjustable pressure limiting valve (400) for exhausting excess pressure provided by the bellow bag (120). Further the system comprises of a non-return valve (NRV) and orifice block (300) pneumatically and/or mechanically coupled to the by-pass assembly (200) for controlling the flow of inhaled and exhaled gas in a single direction.
Publication After 18 Months:

The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :20/01/2017
(43) Publication Date : 27/07/2018

(54) Title of the invention : A NOVEL DIKETOPYROLE SUPRAMOLECULAR BLACK DYE AND ELASTOMER AS A NEAR INFRARED FILTER

| (51) International classification | :G06F21/12 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (36) International Application No | :NA |
| (37) Filing Date | :NA |
| (86) International Application No | :NA |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application No | :NA |
| (62) Divisional to Application Number | :NA |
| (57) Abstract : | The present invention describes the development of a novel supramolecular black dye from a DPP based low molecular weight organogelator. DPP-Black can form a black organogel in toluene (critical gelation concentration of 4mg/ml) with a full spectral coverage from 300 nm to 800 nm and transmits beyond 850 nm. In the gel state, complete visible spectral coverage was achieved because of the presence of both H- and J-type aggregates, which was confirmed via absorption studies. To create an NIR transmitting elastomeric black filter nanoscopic molecular aggregates of DPP-Black into a polydimethylsiloxane (PDMS) (0.15 wt %) matrix have been embedded. This filter can be used for 850 nm bandpass as well as for NIR photography, security and forensic related applications. |

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2)SAMRAT GHOSH

No. of Pages : 19 No. of Claims : 9
A method of network level protection route evaluation and remediation in a network includes defining thresholds for one or more services, wherein the thresholds define how many expected alternate protection routes are available for the one or more services for network level restoration; periodically evaluating a number of available alternate protection routes for the one or more services; notifying a network operator responsive to the number of available alternate protection routes being below the thresholds; and performing one or more remedial actions in the network based on the notifying.
Hair coloring is the practice of changing the hair color. The main reasons for this are cosmetic: to cover gray hair, to change to a color regarded as more fashionable or desirable, to restore the original hair color after it has been discolored by hairdressing processes or sun bleaching. The present invention provides a synergistic herbal hair composition for hair coloring comprises various combinations of certified organic Aloe barbadensis (Aloe Vera) Powder, Beta vulgaris (Beet root) Powder, Cassia auriculata (Cassia) Powder, Curcuma longa (Turmeric) Powder, Emblica officinalis (Amla) Powder, Eucalyptus globulus (Eucalyptus) Powder, Hibiscus sabdariffa (Roselle) Powder, Indigofera tinctoria (Indigo) Powder, Lawsonia inermis (Henna) Powder, Matricaria chamomilla (Chamomile) Powder, Rubia cordifolia (Manjistha) Powder, Ziziphus spina-Christi (Ziziphus) Powder, Aloe vera Juice, Lavender Steam Distilled or Lemon Grass Steam Distilled.
**Title of the invention:** PASSIVE HAPTIC LEARNING BASED TYPING SKILL ENHANCEMENT SYSTEM FOR THE VISUALLY IMPAIRED

| (51) International classification | :G06F3/033 |
| (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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**Name of Inventor:**
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2) SIDDHARTH KALRA

**Abstract:**
The present invention provides Passive Haptic Learning based typing skill enhancement system for the visually impaired. The system helps to develop a reflexive memory or "muscle memory" of a user/practitioner, to gain dexterity and accuracy on a particular task of repetitive nature such as playing a piano, riding a bicycle, driving, typing etc. This system uses this paradigm to impart easy, intuitive, and fast learning of typing, particularly on a standard "qwerty" keyboard to a visually impaired user. The system consists of a custom enhanced keyboard for touch sensitivity, a pair of haptic vibratory gloves and software that helps a user to learn to type. The continued use of the system enhances the learning process and stimulates the Passive Haptic Learning, therefore bestowing a complete non visual typing skillset to the user.

No. of Pages : 16 No. of Claims : 9
Title of the invention: FULCRUM LINK STEERING MECHANISM

Abstract:
Fulcrum link steering mechanism is based on basic principle of lever. This mechanism converts rotational motion into linear motion without the employment of any gears, which makes the entire steering system much lighter in weight than the conventional systems. The designed system was applied on a hybrid three wheeled vehicle. It was found to be in proper order and provides the same angular motion as in case of conventional steering mechanism. The system has a hollow pipe which connected to the handle at the top and a triangular revolving plate at the bottom. The plate is further connected to two eye bolts that are further connect to the tie rods. Tie rods are further connected to the wheels through the linkages.

No. of Pages: 4 No. of Claims: 6
The subject matter disclosed herein relates to a collapsible bracket (800, 1102, 1502) for reducing pedestrian leg injuries during impact of the pedestrian leg with front side of the vehicle, in particularly to towing hook (1106) of the vehicle. The collapsible bracket (800, 1102, 1502) is positioned in between the front radiator support member and front bumper of the vehicle. The collapsible bracket (800, 1102, 1502) is placed above towing hook (1106, 1506) to reduce the impact of the towing hook on the pedestrian leg. The collapsible bracket (800, 1102, 1502) is in U shape and, front overhanging portion of the U shaped collapsible bracket extend towards the front bumper. The overhang extended portion deforms during the collision to minimize the magnitude of the impact on the pedestrian leg from the towing hook (1106). The collapsible bracket (800, 1102, 1502) absorbs the impact energy and reduces the injuries cause to the lower leg.
Title of the invention: APPARATUS AND METHOD FOR PREVENTING LIQUID FROM OVERTOPPING A BUND WALL

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Abstract:
An apparatus and a method for preventing liquid from overtopping a bund wall built around a liquid storage tank, are disclosed. In various embodiments of the present invention, diversion walls are provided by constructing a first flat bonded with a second flat wall, at an angle "0" for diverting flow of liquid in an event of a catastrophic rupture of the liquid storage tank. A pair of angular pillars are constructed adjacent to the diversion walls for preventing formation of any surge wave due to the catastrophic rupture of the storage tank.
Title of the invention: A NOVEL HOOD FOR EXHAUSTING GAS

Abstract:
The device relates to an odor gas exhaust device for operation in tannery. Hood covers two disjoint ends leaving a gap in between the end of the neck providing a circular aperture. Vent and ducting system along with suction is required for removal of odorous gases in tannery. The device consists of a smooth-surftaced fiber reinforced plastic-coated hood, designed to collect evolved gases from tanning drum/pits, is fixedly connected and communicated with ventilating duct; one end of a negative pressure suction blower is connected with the ventilating duct; the other end is to be connected with a gas conveying exhaust for functioning. The device has a (i) hood (ii) rounded neck (iii) exhaust fan and (iv) a flange at the exit. The surface is designed maintaining a slowly diverging inclination from right angle to retain shape of a hemisphere. Hemispherical smooth surface of hood makes the gases to pass easily through negative suction pressure. The surface of hood converges to a rounded neck that ends to a flange. The flange can be tightened to hold the hood in fixed position. The present device seems to ensure less friction of the gas emitted and energy saving. The novelty in the design of hemispherical surface to provide reduced friction is exploited for removal of gases from tanning drums. FIGURE: 1
(54) Title of the invention: HEXAGONAL CAPACITIVE MICROMACHINED ULTRASONIC DEVICE (HCMUD)

(57) Abstract:
The present invention relates to a hexagonal capacitive micromachined ultrasonic device (HCMUD). 3D FEM model provided according to the present invention proves that the hexagon geometry has the highest fill factor as compared to other geometries.

No. of Pages: 11 No. of Claims: 4
The present invention relates to a sensor chip and more particularly to the sensor chip for detection of acetone. In one embodiment, the sensor chip comprising: a first layer having nano-porous silicon fabricated on a P-type Si <100> substrate, a second layer having molybdenum trioxide (MoO3) in contact with the first layer and a third layer having chrome gold inter digitated electrodes in contact with the second layer. Figure 2 (for publication)
(54) Title of the invention : NON TOXIC HERBAL SUBSTITUTE FOR CHEWING TOBACCO"

No. of Pages : 8 No. of Claims : 7
Title of the invention : NON TOXIC HERBAL SUBSTITUTE FOR CONVENTIONAL PAN MASALA

Abstract:
The present invention relates to proprietary food under the category of mouth fresheners similar to the conventional PAN MASALA which is an appropriate mixture of natural herbs, flavors and essence. The formula of natural herbs, flavors and essences are used to make the substitutes for the main ingredients of a conventional pan masala which are Beetle nut, catechu, lime, artificial flavors and essences. This combination gives the same sense of feeling as chewing a pan masala when consumed but is not harmful to the human body.

No. of Pages : 9 No. of Claims : 7
**Title of the invention:** A PROCESS FOR PREPARATION OF COKE USING NON-COKING AND SEMI-COKING COALS

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**Name of Applicant:**
1) COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH
   Address of Applicant: H.NO. ANUSANDHAN BHAWAN, 2 RAFI MARG NEW DELHI-110001 INDIA Delhi India

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4) SHARMA MAMTA
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6) SAIDA SHAIK

**Abstract:**
The present invention relates to a process for the preparation of coke using non-coking and semi-coking coals only, without using any prime coking coal which comprises isolation of the active coking components present in semi-coking or coking coals responsible for coking characteristics, blending the active coking component with washed non-coking coal in ratio starting from 10:90 to 99:01 followed by production of coke using a coke oven using stamp charging method. Using this method, low cost and abundant semi-coking and non-coking thermal coals can be used for coke making without addition of any coking coal leading to significant economical benefit to steel and other coke consuming industries. No external additives are added to the coal blend, making the coke making process simple and economical. Also, a new approach of isolating the active coking components from the coking and semicoking coal and blending with non coking coal is described.

No. of Pages: 15 No. of Claims: 9
Title of the invention : REMOVAL OF FLUORIDE FROM DRINKING WATER USING CE-MG ADSORBENT

Abstract :
More than 200 million people globally have been regularly consuming fluoride contaminated drinking water having fluoride concentration greater than WHO guideline of 1.5 ppm. Excess of fluoride consumption can result in detrimental effects for instance dental/skeletal fluorosis, muscles weakness, stiffness of joints, and neurotransmitters. Therefore, increasing health hazards regarding elevated fluoride concentration in drinking water led to the development of various methods for the removal of fluoride from drinking water. We have found that removal of fluoride from drinking water can be done using Ce-Mg metal oxide adsorbent. One of the objectives of the present invention is to provide a Ce-Mg metal oxide adsorbent for competent and cost effective fluoride removal from drinking water. Since our aim is to enable removal of fluoride from drinking "water, we will describe a simple and cost effective method involving a simple apparatus that don’t require special skills.
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(57) Abstract:
The present invention provides a method of creating a smart city infrastructure wherein plurality of smart poles having at least one smart system is installed on each pole to create a smart pole and further synchronizing each smart pole to create a grid. The system is a mountable device comprising of at least one receiver module, at least one information module, at least one wireless network coordinator module, at least one communication module, at least one electrical charging module and a power charging module, plurality of sensors and optionally at least one centralized expandable memory module.

No. of Pages: 17
No. of Claims: 9
The present invention provides the composition and method of preparation of paste used in manufacturing of the negative electrode of the valve regulated lead acid battery. The negative electrode paste formula consists of the following raw materials by weight percentage per weight of lead oxide used: 8.5-9% of sulfuric acid (specific gravity at 25°C of 1.395-1.405), 0.095-0.105% of Modacrylic fiber, 0.15-0.2% of high surface area and conductive carbon black, 1.1-1.2% of barium sulphate, 0.14-0.15% of lignin, 10.5-11.5% of demineralised water. The unoxidized free lead content of lead oxide powder is in the range of 25-30%. The paste preparation consists of dry mixing of raw materials followed by water addition and then sulfuric acid addition. The batteries prepared with above said process performed better than conventional batteries and there is improvement of about 10% in cyclic life. Reduces early negative paste sulphation due to irreversible sulfate crystal induces negative paste expansion due to High Rate partial state of charge condition causes premature failures.
The present invention provides composition of a new advanced fumed silica based gel electrolyte and its manufacturing process which is used in tubular gel valve regulated lead acid batteries. The unfomed tubular battery is filled with conventional sulfuric acid electrolyte, formed and discharged. Then the electrolyte is replaced with the invented gel electrolyte which is prepared by mixing fumed silica in a low gravity sulfuric acid, phosphoric acid 2%-3% by weight and sodium sulfate of 0.2% by weight at a controlled temperature and mixer speed RPM between 900-1000. The GEL Electrolyte viscosity is lesser than 20 Cp. Then charge input of about 105-110% of rated capacity is applied to activate the battery. The said batteries perform better in terms of cyclic life of around 10-15%> than conventional flooded (flat and tubular) batteries. The batteries also exhibit less water loss and self discharge with better oxygen recombination.

No. of Pages : 9 No. of Claims : 5
**Title of the invention:** IMPROVED VESICULAR FORMULATION OF THYMOQUINONE FOR THE TREATMENT OF DERMAL INFLAMMATORY DISORDERS AND METHOD THEREOF

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2) Rathore Charul
3) Sharma Ishita

**Abstract:**
The inventor of the present invention discloses an improved formulation of thymoquinone for the treatment of dermal inflammatory disorders like psoriasis and eczema etc. Many characterization tests were performed to check the activity of the thymoquinone loaded ethosomal vesicles. In-vivo and in-vitro experiments showed that the bioavailability and effectiveness of the present invention is very high as compared to the existing formulations used for treatment of dermal inflammatory disorders.
(54) Title of the invention : SYSTEM AND METHOD FOR DETECTING AND CLASSIFYING MALWARE

(51) International classification : G08B6/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No : NA
   Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

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(72) Name of Inventor : 1) MOHANTA, Abhijit
   2) SALDANHA, Anoop Wilbur

(57) Abstract:
A system configured to extract malware and related methods are described. The system includes one or more digital devices configured to analyze the execution of malware, detect one or more states of execution of the malware, and analyze the one or more states of execution detected to determine if the one or more states of execution are assigned a priority level. In response to a determination that said one or more states of execution are assigned a priority level, the system is configured to extract at least a portion of the malware from one or more locations of a memory.

No. of Pages : 27 No. of Claims : 21
(54) Title of the invention: A PROCESS FOR THE SYNTHESIS OF N-SUBSTITUTED 4-QUINOLONE DERIVATIVES VIA LIHMDS-INDUCED IN SITU CYCLOCONDENSATION

| (51) International classification | : A61K31/5383 |
| (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: Department of Biosciences, Jamia Nagar, Jamia Millia Islamia, New Delhi Delhi India

(72) Name of Inventor:
1) Mohammad Abid
2) Phool Hasan
3) Babita Aneja
4) Md. Belal Ahmad

(57) Abstract:
This invention relates to the synthesis of novel N-substituted 2-carboxy-4-quinolones represented by the general formula VII via direct reductive amination method followed by LiHMDS-induced cyclocondensation. A range of N-substituted 2-carboxy-4-quinolones (VII) were obtained in moderate yields with broad substrate scope and good regioselectivity under mild conditions.

No. of Pages: 25 No. of Claims: 6
In the present invention, it provides a method for the coloring and color changing of the desired surface of the object or area. The methodology of coloring and color changing on the desired surface or area is described and is found to result in time and cost saving with environment friendliness. It is mentioned that the color can be of any desired choice and can also be in various patterns. In the present invention, there is a setup, which is used for coloring and color changing, the setup can be easily modified and used as in any size, shape, material and composition according to need. The system is also capable of other uses according to need. Thus the system is innovative and unique and is better than the technologies available so far in the area of coloring and color changing of surfaces in a techno-economically feasible manner.
Title of the invention: SOLAR STREET LIGHTING SYSTEM AND METHODS THEREOF

Abstract:

The present invention relates to a Solar LED Street light which are designed for the street lighting demand and fully meets the special requirements of street lighting. Solar street lights are raised light sources which are powered by photovoltaic panels generally mounted on the lighting structure or integrated in the pole itself. The photovoltaic panels charge a rechargeable battery, which powers a fluorescent or LED lamp during the night.
A G.8032 misconfiguration detection method in a node includes receiving a mapped configuration from another node on a ring, wherein the mapped configuration includes a mapping of G.8032 instances to Virtual Local Area Network (VLAN) identifiers configured at the another node; comparing the mapped configuration with a local configuration on the node; and, responsive to a mismatch in the comparing, providing one of a trap and a notification based on the mismatch. The G.8032 misconfiguration can include one of a VLAN not mapped as protected to a node and a VLAN removed from a protected list at the node.
The present disclosure relates to the field of bearings. A bearing cage (200) of present disclosure provides enhanced lubrication dynamics in a bearing. The bearing cage (200) comprises a circular body (202), a plurality of pockets (204), a plurality of reservoirs (205), and a groove (205A). The pockets (204) and the reservoirs (205) are configured along the circumference of the circular body (202), wherein the reservoirs (205) are configured between two adjacent pockets (204). Each pocket is configured to house a rolling element of bearing, and the reservoirs (205) are configured to store lubricant. A groove (205A) is configured at an inclined angle along the plurality of pockets (204) to define a lubricating path (305) from the reservoirs (205). The lubricant flowing through the lubricating path (305) maintains a layer of lubricant which reduces contact surface area and friction between each pocket (204) and the rolling element.
The present invention relates to a fuel delivery pump system (200) for an automotive vehicle comprising a pump (103) for the transmission of fuel, a controlling means (101) for controlling pressure of fuel flowing through said pump (103), a current sensor (106) for measuring the current of said pump (103), and a pressure estimator (111) for determining the estimated pressure to be fed back to said controlling means (101), wherein said pressure estimator (111) has a system identification means to evaluate the estimated pressure, which is fed back to the controlling means (101). The present invention also discloses a method for determining the estimated pressure to be fed back to a controlling means (101) of a fuel delivery pump (200).
The present invention relates to a system and method for improving efficiency and lifetime of a horn. The system comprising a first power supply (V1) for switching said horn between ON and OFF modes; a first inductor (L1) coupled to said first power supply means through a first diode (D1); a TVS diode (D3) coupled to said first inductor (L1); a storage capacitor (C1) coupled to said first inductor through said TVS diode; and a second inductor (L2) coupled to said first inductor (L1) through a second diode (D2); wherein said second diode (D2) is reverse biased during ON mode of said horn and forward biased during OFF mode of said horn such that the magnetic energy stored in said first inductor (L1) during ON mode is transferred to said storage capacitor (C1) during the OFF mode, which is then used in next ON mode of said horn. Fig. 2

No. of Pages : 15 No. of Claims : 7
Title of the invention: "AN ADHESIVE COMPOSITION FOR TRANSDERMAL MEDICATED PATCHES"

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<th>Name of Inventor</th>
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<tr>
<td>1) Saurabh Bansal</td>
<td>NA</td>
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Abstract:
The present invention is related to improved adhesive preparations of Transdermal patches by overcoming the drawbacks associated with those in the prior art such as structures breaking with high dosage of active compounds in an oil form, inability of incorporating water-soluble compounds/actives in the adhesives and hydrophobic characteristic of such adhesives. The adhesive preparations of the present invention are employed in preparing transdermal patches which comprise of an elastic backing, an adhesive layer and a release liner, wherein the stretchable support (of elastic backing) comprises a knitted fabric, the adhesive layer contains a hot melt adhesive coating and the release liner contains a silicon or platinum coated clay coated craft or glassine release paper or alternatively silicon or platinum coated polyester film. The transdermal patch of the present invention is sweat proof and efficient in relieving pain and healing wounds.

No. of Pages: 19  No. of Claims: 23
Title of the invention: AN APPARATUS TO DETERMINE DUST RESISTANCE CHARACTERISTICS OF SHEETING MATERIAL

Abstract:
This invention relates to an apparatus to determine dust resistance characteristics of sheeting material comprising of a hooper (2) to supply fine dust into fine dust air generating chamber (3) connected to air supply means (1) at one end, other end of which is provided in flow communication with a main chamber (5) housing a sample holder (6) holding the sheeting material. The air generating chamber (3) is detachably attached to a dust collector (4) therebelow. A particle counter (7) is placed next to the sample holder (6) in the main chamber (5) for counting number of dust particles following passage through said sheeting material. (Fig. 1)
The present disclosure is related to a system (118) for displacing an inter rake carrier (104) of a sugar cane mill (110) in a sugar cane industry during maintenance or repair operations. The system (118) includes a flange member (120) disposed onto a column member (116) of the inter rake carrier (104). The system (118) further includes a shaft member (130) adapted to rotatably couple with the flange member (120) and fixedly couple with a trough (132) of the inter rake carrier (104). The inter rake carrier (104) is adapted to be displaced by the shaft member (130) by tilting of the inter rake carrier (104) when the inter rake carrier (104) is lifted by a lifting device (160).
The Patent Office Journal No. 30/2018 Dated 27/07/2018

(54) Title of the invention : A CONTROLLED WATER DISPENSER SYSTEM FOR WATER CONSERVATION

(57) Abstract :
When water is filled into a pot by a manual water dispenser, generally, the tap is closed before the water level touches the top of the pot. If the tap is not closed on touching the top level, water overflows and wastage of water takes place. To avoid such wastage, the operator observes the level of water during the filling process and stops the rise of water at an appropriate level in the pot. However, the manual observation causes the wastage of time. In case of filling a pot having wide opening (such as glass/mug), when the water level reaches close to the top position, water spills out usually during handling of the pot. This causes inconvenience to the user in addition to the wastage of water. Hence, in every situation, wastage of water and/or time takes place when filling a pot by a manual water dispenser. The present invention relates to a controlled water dispenser system for water conservation comprising of a chamber which has two compartments such that one of the compartments accommodates the required volume of water for discharge. The chamber discharges set amount of measured water in bulk, as and when required. It is a user-friendly water dispenser system which eliminates the wastage of water and substantially reduces the duration of time for filling a pot.
TITLE OF THE INVENTION: RANGE ENHANCER FOR AUTOMOTIVE VEHICLES

ABSTRACT:
The invention provides a range enhancer for automotive vehicles. The invention is capable of being integrated with any type of vehicle. The invention comprises generator, tunnels, air passages, customized wind turbines, air multipliers, and suspension system for functioning in order to reduce the drag and generate electricity simultaneously.

The Patent Office Journal No. 30/2018 Dated 27/07/2018 28270
Title of the invention: METHOD FOR MAINTAINING SPINNING UNITS OF A SPINNING MACHINE ALONG WITH A SPINNING MACHINE

Abstract:
The invention relates to a method for maintaining spinning units (2) of a spinning machine (1), whereas the spinning machine (1) features a multiple number of spinning units (2) arranged next to one another and at least one maintenance device (3), which is movable along the spinning units (2) and by means of which the spinning units (2) are maintained, whereas, prior to the maintenance of a spinning unit (2), a housing (8) of the spinning unit (2) is opened, the spinning unit (2) is maintained by the maintenance device (3) and, after the maintenance of the spinning unit (2), the housing (8) is closed again. In accordance with the invention, the housing (8) of the spinning unit (2) is autonomously opened for maintenance with the assistance of a sealing device (9) arranged at the spinning unit (2) and/or is autonomously closed after maintenance. REFER TO FIG. 1

No. of Pages : 19 No. of Claims : 15
Title of the invention: A FUEL FILTER

| (51) International classification         | F01K15/00 |
| (31) Priority Document No                | 1701029.9 |
| (32) Priority Date                       | 20/01/2017 |
| (33) Name of priority country            | U.K. |
| (86) International Application No        | NA |
| Filing Date                              | NA |
| (87) 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) MALODE, Atul |
|                                            | 3) CHAVAN, Prashant |
|                                            | 4) SAIFULLAH KHAN, Mohammad |
|                                            | 5) WARD, Chris |
|                                            | 6) ARORA, Sanjeev |

Abstract:
A fluid drain off system for a fuel filter, the system comprising a float, movable together with a trigger device for a switch, such as a magnet, in response to the level of fluid contaminant, a switch arranged to be selectively triggered by the trigger device upon the fluid contaminant reaching a predetermined level, and a fluid passage configured to be selectively opened in response to the triggering of the switch to allow fluid contaminants to be drained from the filter

No. of Pages: 25 No. of Claims: 23
(54) Title of the invention: "POWER TRANSMISSION SYSTEM AND VEHICLE WITH POWER TRANSMISSION SYSTEM"

(51) International classification: F01K15/00
(31) Priority Document No: 2017-008295
(32) Priority Date: 20/01/2017
(33) Name of priority country: Japan
(86) International Application No: NA
(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
(62) Divisional to Application Number: NA

(71) Name of Applicant: 1) SUZUKI MOTOR CORPORATION
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(72) Name of Inventor: 1) Ryota TAKEUCHI 2) Noriyuki ENAMI

(57) Abstract:
To provide a power transmission system capable of transferring power from an internal combustion engine to a motor generator with a vehicle being at a standstill in order to generate electricity and to provide a vehicle incorporating the power transmission system:

[Solution] Disclosed is a power transmission system 1. The power transmission system 1 includes: an input shaft 4 that can be coupled to an internal combustion engine 60; an output shaft 5 that can be coupled to the input shaft 4 using a shifting mechanism 11. The output shaft 5 is coupled to a differential 50. A motor-rotation shaft 41 is coupled to a motor generator 40. A drive train 12 can interconnect the input shaft 4 and the motor-rotation shaft 41 without using the shifting mechanism 11 to provide the power transfer between the input shaft 4 and the motor-rotation shaft 41 without using the shifting mechanism 11.
The present invention provides an exhaust heat recovery device capable of increasing amount of heat recovered, shortening warming-up time, and further increasing cabin space. An exhaust heat recovery apparatus including an engine 1 including at least an oil pan 2, exhaust pipes 5i and 52 through which an exhaust gas exhausted from the engine 1 passes, a catalyst 6, a part or the entirety of which is provided forward of the engine 1 in a vehicle to clean the exhaust gas, and an exhaust heat recovery device 7 that includes a heat exchange medium and exchanges heat between the heat exchange medium and the exhaust gas, in which the exhaust heat recovery device 7 is provided intermediately in the exhaust pipe 52 downstream of the catalyst 6 and part of the exhaust heat recovery device 7 is provided at least below a base portion of the oil pan 2.
Patent of Addition to Application Number
(61) Patent of Addition to Application Number
(62) Divisional to Application Number

No. of Pages : 78 No. of Claims : 8
Title of the invention: SADDLE-RIDE TYPE VEHICLE

Abstract:
A saddle-ride type vehicle in which a striker is disposed in an openable and closable riding seat and a seat lock mechanism that includes, as part of components, a lock piece that can engage with and disengage from the striker in a closed state of the riding seat, to enable a helmet to be held with a simple and inexpensive structure having a reduced number of parts. [MEANS FOR SOLUTION] A seat lock mechanism 38 enables a lock piece 39 to be operated between a lock position in which the lock piece 39 is engaged with a striker 37 to thereby lock a riding seat 18 in a closed state thereof and an unlock position in which the lock piece 39 is disengaged from the striker 37 to thereby allow the riding seat 18 to be opened. The seat lock mechanism 38 is disposed on a vehicle body B side so as to allow the lock piece 39 in the lock position to hold a helmet 44.
The invention relates to a supporting structure for concurrently supporting a plurality of containers for substances for pharmaceutical, medical or cosmetic applications, comprising a plurality of receptacles for accommodating the containers therein at least partially, wherein each of the receptacles comprises an open upper end for inserting the containers into the receptacles and a lower end having a retaining portion for delimiting an axial movement of the containers in the receptacles, and guiding portions are provided for guiding the containers into the receptacles during insertion. According to the invention, the guiding portions comprise upper guiding and positioning portions close to the upper ends of the receptacles and lower guiding and positioning portions close to the lower ends of the receptacles, which are formed separately from each other and delimit a radial movement of the containers in the receptacles. The functional separation between the upper and lower guiding and positioning portions enables a considerably smaller minimum distance between adjacent receptacles and thus a significantly higher packing density during production by means of plastic injection molding. At the same time, the receptacles can be produced with smaller tolerances. Insertion bevels make it considerably easier to insert the containers into the receptacles. (Fig. 1a)
Title of the invention: SYSTEMS AND METHODS FOR CUSTOMIZING A PERSONALIZED USER INTERFACE USING FACE RECOGNITION

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<td>Priority Date</td>
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Name of Inventor:
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2) Yang Xiukuan
3) Li Peng

Abstract:
Systems and methods for customizing a personalized user interface of an IP video door phone using face recognition are provided. Methods can include receiving an image of a user captured by a camera, performing face recognition processing on the image to identify an age of the user, identifying a customized user interface associated with the age of the user, and causing a display screen to display the customized user interface.

No. of Pages: 15  No. of Claims: 15
The system for drying lignite according to the present disclosure is characterized to include a mill configured to crush the lignite; a dryer configured to receive crushed lignite from the mill, to dry the lignite by heat-exchange with steam and to discharge dried lignite; a condensing-precipitating evaporator in fluid communication with the dryer so as to receive vapor which is evaporated when the lignite is dried and which is discharged from the dryer, wherein the evaporator is configured to condense the vapor discharged from the dryer by heat-exchange with water, wherein coal dust contained in the vapor is precipitated into a condensed aqueous solution when the vapor is being condensed, and wherein the condensed aqueous solution is discharged; and a Mechanical Vapor Re-Compression (MVR) configured to receive steam generated from the condensing-precipitating evaporator, to compress the steam into superheated steam, and to supply the compressed superheated steam to the dryer.
The invention relates to a supporting structure for concurrently supporting a plurality of containers for substances for pharmaceutical, medical or cosmetic applications, comprising a plurality of receptacles for accommodating the containers therein at least partially, wherein each of the receptacles comprises an open upper end for inserting the containers into the receptacles and a lower end having a retaining portion for delimiting an axial movement of the containers in the receptacles, and guiding portions are provided for guiding the containers into the receptacles during insertion. According to the invention, the guiding portions comprise upper guiding and positioning portions close to the upper ends of the receptacles and lower guiding and positioning portions close to the lower ends of the receptacles, which are formed separately from each other and delimit a radial movement of the containers in the receptacles. The functional separation between the upper and lower guiding and positioning portions enables a considerably smaller minimum distance between adjacent receptacles and thus a significantly higher packing density during production by means of plastic injection molding. At the same time, the receptacles can be produced with smaller tolerances. Insertion bevels make it considerably easier to insert the containers into the receptacles.
An X-ray CT apparatus according to the embodiment executes an imaging according to an imaging protocol including one or more image elements corresponding to an imaging type. The X-ray CT apparatus includes an X-ray source, an X-ray detector and processing circuitry. The X-ray source radiates an X-ray. The X-ray detector detects the X-ray. The processing circuitry merges, when first and second imaging protocols are set, first and second imaging elements, respectively included in the first and second imaging protocols, corresponding to same imaging type into a single third imaging element, thereby generating a third imaging protocol including the third imaging element.
PERMANENT MAGNET, ROTARY ELECTRIC MACHINE, AND VEHICLE

Title of the invention:

A permanent magnet is expressed by a composition formula: RNX(CrpSiqM1-p-q)ZTS. The permanent magnet includes: a main phase having at least one 5 crystal structure of Th2Ni17, Th2Zn17, and TbCu7 crystal structures; and a sub phase containing R whose amount is larger than an amount of R in the main phase.

No. of Pages : 29 No. of Claims : 13
Title of the invention: "INTAKE DEVICE OF INTERNAL COMBUSTION ENGINE"

Abstract:
A resonator includes an outer cylinder having an inner diameter which is larger than an inner diameter of an intake inlet pipe, and an inner cylinder which is provided inside the outer cylinder with a gap from the outer cylinder and in which an interior thereof communicates with an intake inlet pipe. The inner cylinder includes a first inner cylinder section which is continuous in a circumferential direction of the inner cylinder and has a large number of holes formed thereon, and a second inner cylinder section which is continuous in the circumferential direction of the inner cylinder and has a non-porous surface with no hole. A space formed between the first inner cylinder section and the outer cylinder is opened at an upstream end and a downstream end to communicate with the interior of the intake inlet pipe, and communicates with the interior of the inner cylinder via the hole. A space formed between the second inner cylinder section and the outer cylinder is opened at the downstream end to communicate with the interior of the intake inlet pipe, and the upstream end is closed by the protruding piece.
Title of the invention : AIRBAG DEVICE

International classification : B60R21/2171
Priority Document No : 2017-009794
Priority Date : 23/01/2017
Name of priority country : Japan
Priority Date : 23/01/2017
Name of applicant : HONDA MOTOR CO., LTD.
Address of applicant : 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan

Name of inventor :
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2) MIYAKAWA, Futoshi
3) KORENAGA, Kyosuke
4) OSHIMA, Kohhei
5) KOBAYASHI, Yuki

Abstract :
Gas is properly fed into a head facing portion while upsizing of an inflator is prevented. [Solution] Throttle portions 51 are provided for coupling between a frontal side and a backside of an airbag 40 between a neck portion 41 and a head facing portion 42. Seams 51A are formed as contours of the throttle portions 51 positioned outermost the airbag 40 in a width direction. The seams 51A are parallel to side edge portions 40L, 40R of the airbag 40 positioned outside the seams 51A in the width direction. Seams 51B are formed as contours opposed to the throttle portions 51 arranged adjacent to each other. The seams 51B are approximately parallel to each other. [Selected Drawing]

No. of Pages : 59
No. of Claims : 6
Title of the invention: VEHICLE SEAT STRUCTURE

Abstract:
A seat 10 is provided with a cover 13 mounted to a seat bottom plate 11. The cover 13 has a cover body portion 15 and a plurality of flange portions 14A, 14B, 14C. The cover body portion 15 covers up to a side edge of the seat bottom plate 11 without exceeding the side edge. The plurality of flange portions 14A, 14B, 14C extend from the cover body portion 15, and the plurality of flange portions 14A, 14B, 14C are mounted to the seat bottom plate 11. The plurality of flange portions 14A, 14B, 14C are arranged while avoiding positions of the cover body portion 15 corresponding to legs of a rider on a vehicle. [Selected Drawing]
Title of the invention: AIRBAG DEVICE

Control for airbag deployment and/or the like is facilitated in a simple configuration. [Solution] An airbag (40) includes upper vent holes 81 and lower vent holes 82. The upper vent holes 81 are placed upward of the head facing portion and are open to an occupant side. The lower vent holes 82 are placed downward of the upper vent holes 81 and are open to the opposite side from an occupant.

No. of Pages: 58 No. of Claims: 5
Title of the invention: DIISOPENTYL TEREPTHALATE

Abstract:
A mixture of isomeric dipentyl terephthalates, pentyl radicals of which are n-pentyl radicals to an extent of less than 60 mol%, characterized by a low viscosity which does not increase significantly even at temperatures below 40°C. Plastisols comprising these mixtures have a low plastisol viscosity which moreover increases only to a minor degree with time.

No. of Pages: 46 No. of Claims: 11
A diagnostic step for a passenger conveyor comprises at least one camera for shooting at least one lateral side of the interior space of the passenger conveyor, at least one directional microphone pointed to said at least one lateral side of the interior space of the passenger conveyor and an analyzer unit which receives image data from the camera and sound data from the directional microphone and transmits the data to an outside network.
The invention relates to a bearing cover (3) for a split bearing arrangement (1), which in addition to the bearing cover (3) comprises a bearing block (2), wherein the bearing cover (3) comprises clamping surfaces (7), which in the assembled state of the bearing arrangement (1) bear on counter clamping surfaces (8) of the bearing block (2), and the clamping surfaces (7) have a sinter-roughened surface at least in some areas.
**Title of the invention:** OUTER ROTOR MOTOR

| (51) International classification | :H02K1/145 |
| (31) Priority Document No | :2017 1004 1695.1 |
| (32) Priority Date | :20/01/2017 |
| (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) Xiaobing ZUO
3) Yanfang ZHI

**Abstract:**
An outer rotor motor includes a stator, a rotor rotatably disposed outside the stator, a mounting seat, a rotation shaft driven by the rotor, and two bearing mounted to the mounting seat to rotatably support the rotation shaft. The stator includes a stator core and a stator winding wound around the stator core. The mounting seat includes an upper bracket seated on one of opposite axial ends of the rotor, a lower bracket seated on the other axial end of the rotor, a connecting member connected between the upper bracket and the lower bracket, and a cylindrical mounting post fixed to the upper bracket. The cylindrical mounting post extends through and is fixed in the stator core. The rotation shaft is rotatably received in the mounting post. The two bearings are avoided overlapping the stator core in the axial direction.

No. of Pages : 17 No. of Claims : 10
(21) Application No. 201814001926 A
(19) INDIA
(22) Date of filing of Application: 17/01/2018
(43) Publication Date: 27/07/2018

(54) Title of the invention: APPARATUS AND APPROACH FOR ACCURATE MONITORING OF SPACE

| (51) International classification | G02B 27/017 |
| (31) Priority Document No | 15/414,863 |
| (32) Priority Date | 25/01/2017 |
| (33) Name of priority country | U.S.A. |
| (36) Priority Document No | 15/414,863 |
| (37) Priority Date | 25/01/2017 |
| (38) Name of priority country | U.S.A. |
| (86) International Application No | NA |
| (87) International Publication No | NA |
| (61) Patent of Addition to Application Number | NA |
| (62) Divisional to Application Number | NA |

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3. XIA, Xiaomin
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(57) Abstract:
An intrusion device having an electromagnetic wave transmitter and receiver with a transmitting and receiving antenna, respectively. The transmitter and receiver may be connected to a microcontroller. The device may operate in a microwave and passive infrared range, and detect speed and position of an intruder, such as an object or a person. The device may be customized to indicate intruders within a certain range of speed and range of distances. Further, the device may have a field of view that may be varied. The device may indicate a direction of movement of the intruder. The transmitter, receiver, controller and antenna may be contained on a compact printed circuit board. Much of the electronics may be incorporated on a monolithic integrated circuit. The customization or adjustment of ranges of speed, slow and fast limits, and distance, near and far limits, may be a reason to regard the device as smart.

No. of Pages: 35 No. of Claims: 15
| (12) PATENT APPLICATION PUBLICATION | (21) Application No. 201814001931 A |
| (19) India | (43) Publication Date: 27/07/2018 |
| (22) Date of filing of Application: 17/01/2018 |

(54) Title of the invention: IMPROVED VALVE MEANS AND A METHOD OF USE THEREOF

| (71) Name of Applicant: | 1) Iseki Vacuum Systems Ltd |
| Name of Inventor: | 1) CARR, Nicholas |
| Address of Applicant: | High March, Daventry, Northamptonshire NN11 4QE, United Kingdom U.K. |

(57) Abstract:
Valve means are provided including a body portion having closure means or a closure section arranged to move between a valve closure position and a valve open position in use. Sealing means are provided on or associated with the closure means or closure section. The sealing means includes a sealing portion for sealing a valve opening or aperture when in die valve closure position in use, and an engagement portion, the engagement portion having engagement means for engagement with attachment means provided on or associated with die body portion, closure means and/or closure section of the valve means in use.

No. of Pages: 29  No. of Claims: 15
An open-end rotor spinning device (1) comprises a spinning rotor (3) disposed in a rotor housing (2), the rotor housing (2) being covered by a cover element (4), a pivot device (6) for opening and closing, and a locking device (7) for locking the cover element (4). A fiber feeding channel (8) and a thread take-off channel (9) are disposed in the cover element (4). The pivot device (6) and the locking device (7) are connected to each other. According to a method for operating an open-end rotor spinning device (1) comprising a spinning rotor (3) rotating in a rotor housing (2) during spinning operation, the rotor housing (2) is closed or opened by means of a cover element (4). The cover element (4) is pivoted by means of a pivot device (6) for opening or closing the rotor housing (2) and locked by means of a locking device (7) for locking the cover element (4). The pivot device (6) and the locking device (7) are selectively connected to each other or released from each other.
An information output system for a vehicle includes an on-board device (2) mounted in the vehicle; and a server (3). The server is configured to communicate with the on-board device (2), and transmit, to the on-board device (2), information data including destination information data corresponding to a destination of the vehicle when the server is notified of the destination of the vehicle from a user of the vehicle. The on-board device (2) is configured to perform an output process of outputting, via a first output device (80, 83) in the vehicle, at least one of a still image, a moving image, and a sound. The still image, the moving image, and the sound correspond to the destination information data.
Title of the invention: STIRRER FOR A STIRRER VESSEL

Abstract:
A stirrer (2) for a stirrer vessel (20), which stirrer (2) comprises a stirrer head (1), a drive unit (4) and a magnetic coupling (3), wherein the magnetic coupling (3) has drive magnets (5) connected to the drive unit (4) and stirrer head magnets (6) connected to the stirrer head (1), wherein the stirrer head (1) has stirrer blades (7) and a bearing assembly (8) and wherein the stirrer blades (7) are connected to the stirrer head magnets (6) and the bearing assembly (8), wherein the bearing assembly (8) rotatably supports the stirrer head (1) and the bearing assembly (8) comprises a first rotational bearing (9), wherein the bearing assembly (8) comprises a second rotational bearing (10), which is arranged spaced apart from the first rotational bearing (9) in the stirrer head (1).
The present invention relates to a method for managing an electric network of a railway network, the electric network comprising at least one central unit (19) and a plurality of power supply substations (7), the power supply substations being connected to a current supply means (5) of one or several railway vehicles (3), the power supply substations (7) being adapted to convert a first electric current having a transport voltage, into a second electric current adapted to circulate on the current supply means (5) and having a usage voltage.
**Title of the invention:** A PHARMACEUTICAL COMPOSITION COMPRISING AN OXAZINE DERIVATIVE AND ITS USE IN THE TREATMENT OR PREVENTION OF ALZHEIMER’S DISEASE

| (51) International classification       | :C07D471/04 |
| (31) Priority Document No              | :17152481.2 |
| (32) Priority Date                     | :20/01/2017 |
| (33) Name of priority country          | :EPO        |
| (86) International Application No      | :NA         |
| Filing Date                            | :NA         |
| (87) International Publication No      | : NA        |
| Filing Date                            | : NA        |
| (61) Patent of Addition to Application Number | :NA       |
| Filing Date                            | :NA         |
| (62) Divisional to Application Number  | :NA         |
| Filing Date                            | :NA         |

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| 6) Vishal Shamji KORADIA |
| 7) Rita RAMOS |

**Abstract:**
The present invention relates to a pharmaceutical composition comprising an oxazine derivative BACE-1 inhibitor, a process for the preparation thereof, and its use in the treatment or prevention of Alzheimer’s disease.

No. of Pages : 72 No. of Claims : 16
**Title of the invention:** ELEVATOR MEASUREMENT DEVICE AND MEASUREMENT METHOD THEREOF

| (51) International classification | F01M9/10 |
| (31) Priority Document No | 2017-008985 |
| (32) Priority Date | 20/01/2017 |
| (33) Name of priority country | Japan |
| (86) International Application No | NA |
| (87) International Publication No | NA |
| (61) Patent of Addition to Application Number | NA |
| (62) Divisional to Application Number | NA |

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**Name of Inventor:**
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2) Seiichi ICHIGE

**Abstract:**
Provided is an elevator measurement device including a first distance sensor configured to measure a first distance to the first wall surface, a second distance sensor configured to measure a second distance to the second wall surface; a third distance sensor configured to measure a third distance to the third wall surface, a fourth distance sensor configured to measure a fourth distance to the door, a storage unit configured to store the first distance, the second distance, the third distance, and the fourth distance, a processing unit configured to generate output information on the basis of distances measured by the first distance sensor, the second distance sensor, the third distance sensor, and the fourth distance sensor, and an output unit configured to perform output on the basis of the output information.

No. of Pages: 40  No. of Claims: 6
# CONTROLLING POWER DELIVERY TO A BATTER Y

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<td>CONTROLLING POWER DELIVERY TO A BATTERY</td>
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## Abstract

A controller for controlling power delivery to a battery includes a first terminal that provides a first signal to enable a bypass path to deliver power from an interface to charge the battery, and includes a second terminal that provides a second signal to enable a conversion circuit to convert input power received at the interface to output power to charge the battery. The controller also includes circuitry that determines whether a first adapter or a second adapter is connected to the interface, generates the second signal if the second adapter is connected to the interface, generates the first signal and a request if the first adapter is connected to the interface, and provides the request to the first adapter through the interface. The request includes information indicative of a target level and an instruction that causes the first adapter to provide power at the target level to the interface.

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**No. of Pages : 34 No. of Claims : 24**
A microphone receiver system is used for recording an acoustical event in an event space. Wireless microphone captures the acoustical event and transmits the acoustical event as a first signal transmission. The microphone receiver receives the first signal transmission and sends the first signal transmission as a received signal from a first output port of the microphone receiver to an input port of the recording device as the received signal as a representation of the acoustical event. A mounting assembly for connecting the microphone receiver to the recording device, the mounting assembly including a pair of opposing upright portions extending from opposing sides of the microphone receiver, the recording device being held between the opposing upright portions.
This fluid coupling (2) element (100) comprises a body (102), a valve (106) with a peripheral groove (1064) receiving a sealing gasket (114), a member (132) for resiliently returning the valve and a skirt (120) positioned inside the body and moveable between a first position axially freed relative to the gasket (114) and a second position radially covering the gasket. This element (100) also comprises at least one hitching member (130) axially secured to the skirt (120) and radially moveable between a first radial position, for axially securing the skirt (120) and the body (102) and for relative axial movement of the valve relative to the skirt, and a second position, for axially securing the skirt and the valve (106) and for relative axial movement of the skirt and the body, in a configuration where the skirt covers the gasket (114). Preferably, the valve (106) comprises a first surface (S1) for blocking the hitching member (130) in its first radial position, as well as a first housing (1068) for receiving part of the hitching member in its second radial position, this first housing (1068) being adjacent to the first blocking surface (S1). Also preferably, the body (102) comprises a second surface (S2) for blocking the hitching member in its second radial position, as well as a second housing (1028) for receiving part of the hitching member (130) in its first radial position, this second housing (1028) being adjacent to the second blocking surface (S2).
Abstract:
A termination device for a suspension member of an elevator system includes a housing and a wedge assembly located in the housing. The wedge assembly includes a wedge interactive with the housing to apply a clamping force to the suspension member in response to an axial load acting on the suspension member and a compliant shear element secured to the wedge or the suspension member and configured to reduce shear loads on the suspension member.

No. of Pages : 19 No. of Claims : 15
Title of the invention: OIL PAN

Abstract:
A first oil strainer portion, which is formed integrally with a first oil pan portion to extend in a direction of a rotation center axis of a crankshaft along a bottom wall of the first oil pan portion from a front wall of the first oil pan portion, is formed in the first oil pan portion having a shallow depth. A second oil strainer portion extending from a rear end of the first oil strainer portion toward a bottom wall of a second oil pan portion is provided in the second oil pan portion having a deep depth. A boss portion to which a distal end of the second oil strainer portion is fitted is formed at the rear end of the first oil strainer portion, and the boss portion is formed at a position connected from the bottom wall of the first oil pan portion to a bent portion.
A deformable tampon (4, 4', 4", 4a, 4b) includes an absorbent body (41, 41', 41", 41a, 41b) and a pull string (42). The absorbent body (41, 41', 41", 41a, 41b) is configured to be inserted into a vagina (5) for absorbing menstrual blood, is made into a helical shape from at least one cotton body (411), and includes a plurality of cotton loops (412, 412', 412", 412a, 412b) extending helically around an axis (A) and in contact with each other. The pull string (42) is provided on an end of the absorbent body (41, 41', 41", 41a, 41b) for pulling the absorbent body (41, 41', 41", 41a, 41b) out of the vagina (5). Fig. 4
In order to provide an exhaust pressure control valve that can exhaust gas using the entire cross-section area of an exhaust gas conduit when the exhaust pressure control valve is completely opened, an exhaust pressure control valve (9) is attached to a gas conduit (7) which has a first cross-section and through which exhaust gas from an engine flows, and the exhaust pressure control valve is disposed upstream of a muffler (4) or downstream from the muffler (4). The exhaust pressure control valve (9) is provided with: a housing (95A) that has a second cross-section having a larger surface area than the first cross-section, and that is connected to the gas conduit so that exhaust gas flows therethrough; a valve shaft (96) that is supported by the housing in a direction orthogonal to the flow direction at a position in the second cross-section which does not overlap the first cross-section when viewed from the flow direction; and a valve body (92) that is connected to the valve shaft and that regulates the flow rate of the exhaust gas flowing through the gas conduit.

No. of Pages : 15 No. of Claims : 6
A surgical instrument includes an end effector extending along a jaw centerline. A staple cartridge is received in the end effector. The staple cartridge includes deck, staples, a wedge sled, and a driver assembly. The staples are positioned in respective openings formed through the deck. The wedge sled is slidable through the staple cartridge. The driver assembly has a first driver and a second driver. The first driver receives a first staple of the plurality of staples. The second driver receives a second staple of the plurality of staples. The driver assembly is configured to be engaged by the wedge sled sliding toward the distal sled position and thereby be forced toward a first jaw of the end effector, thereby forcing the first and second staples toward an anvil of the first jaw for formation in tissue. The driver assembly is positioned along the centerline.
An apparatus includes a body, a shaft assembly, and an end effector. The shaft assembly includes an outer tube, an inner tube, and an acoustic waveguide. The end effector includes an ultrasonic blade and a clamp arm. The ultrasonic blade is acoustically coupled with the acoustic waveguide. A first portion of the clamp arm is pivotably coupled with a distal end of the outer tube. A second portion of the clamp arm is pivotably coupled with a distal end of the inner tube. The outer tube and the inner tube are configured to removably couple with the body such that the outer tube, the inner tube, and the clamp arm are configured to removably couple with the body and the remainder of the shaft assembly and end effector as a unit.
Title of the invention: SURGICAL INSTRUMENT WITH DUAL MODE END EFFECTOR AND COMPOUND LEVER WITH DETENTS

Abstract:
A surgical instrument includes a body an ultrasonic blade a clamp arm assembly and a detent assembly. The clamp arm assembly includes a clamp arm pivotably coupled with the body at a pivot assembly. The clamp arm is operable to compress tissue against the ultrasonic blade. The detent assembly is configured to provide tactile resistance to pivotal movement of the clamp arm relative to the body beyond a predefined pivot angle. The detent assembly is configured to permit pivotal movement of the clamp arm relative to the body beyond a predefined pivot angle upon application of a force sufficient to overcome the tactile resistance.

No. of Pages: 47 No. of Claims: 20
A surgical instrument includes a body, an ultrasonic blade, a clamp arm, and a resilient member. The body includes an electrical conductor and defines a longitudinal axis. The clamp arm is pivotally coupled with the body at a pivot assembly. The clamp arm is operable to compress tissue against the ultrasonic blade. The clamp arm includes an electrode operable to apply RF energy to tissue, wherein the clamp arm is configured to be loaded onto and removed from the body at the pivot assembly along a path that is transverse to the longitudinal axis defined by the body. The resilient member is located within the pivot assembly. The resilient member is configured to provide electrical continuity between the electrode of the clamp arm and the electrical conductor of the body.
Title of the invention: DATA REPRESENTING A WEAR INDICATOR

Abstract:
In some examples a system generates three dimensional (3D) object data for printing by a 3D printing system the generating including determining a region in which to generate a wear indicator and computing an arrangement of spatial shells of variable thickness in the region where the spatial shells contain data representing at least one property of the wear indicator.
**Title of the invention:** COMPOUNDS FOR TREATMENT OF CANCER AND EPIGENETICS

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<td>:10201508413Q</td>
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**Abstract:**

Compounds For Inhibition Of Cancer and Epigenesis The present invention relates to quinolines and 5,6,7,8-tetrahydroacridines of the formula (I) wherein Z1, Z2, X, R1 to R8 and Y are defined as described in the specification, or a pharmaceutically acceptable form or prodrug thereof, that are inhibitors of methyl transferases such as protein lysine methyltransferases and more particularly SMYD3. The present invention also relates to the methods for their preparation, pharmaceutical compositions containing these compounds and uses of these compounds in the treatment of disorders/conditions/diseases involving, relating to or associated with enzymes having methyl transferase activities/functions and/or via unspecified/multi-targeted mechanisms.

No. of Pages : 317 No. of Claims : 61
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<th>(21) Application No. 201817013095 A</th>
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<td>(22) Date of Filing of Application : 05/04/2018</td>
<td>(43) Publication Date : 27/07/2018</td>
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<th>HIV ANTIBODY COMPOSITIONS AND METHODS OF USE</th>
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| (31) Priority Document No | :62/232279 |
| (32) Priority Date | :24/09/2015 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2016/053599 |
| Filing Date | :24/09/2016 |
| (87) International Publication No | :WO 2017/053906 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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| (57) Abstract : | This invention relates to novel anti-HIV antibodies that can be used in the treatment and detection of human immunodeficiency virus (HIV). These antibodies exhibit a high degree of sensitivity and can provide a broad range of specificity. |
| No. of Pages : 99 | No. of Claims : 80 |
**Abstract:**
The present disclosure generally relates to nanoparticles comprising a substantially hydrophobic base, an acidic therapeutic agent, and a polymer. Other aspects include methods of making and using such nanoparticles.

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**Title of the invention:** THERAPEUTIC NANOPARTICLES COMPRISING A THERAPEUTIC AGENT AND METHODS OF MAKING AND USING SAME

**International classification:**
- A61K9/51
- A61K31/25
- A61L17/12

**Priority Document No:** 62/248551
**Priority Date:** 30/10/2015
**Name of priority country:** U.S.A.

**International Application No:** PCT/US2016/059349
**Filing Date:** 28/10/2016

**International Publication No:** WO 2017/075369

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No. of Pages: 76
No. of Claims: 72
(54) Title of the invention : STEERING GEAR FOR A VEHICLE

| (51) International classification : B62D3/12,F16H19/04 |
| (31) Priority Document No : 10 2015 117 146.5 |
| (32) Priority Date : 08/10/2015 |
| (33) Name of priority country : Germany |
| (86) International Application No : PCT/EP2016/067407 |
| (87) International Publication No : WO 2017/059976 |
| (61) Patent of Addition to Application Number : NA |
| (62) Divisional to Application Number : NA |

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(57) Abstract :
The invention relates to a steering gear for a vehicle comprising a steering pinion and a master rack, the toothing of the master rack having a constant helix angle and the toothing of the steering pinion having a changing helix angle.

No. of Pages : 8 No. of Claims : 13
An electromagnetic linear motor comprises a tubular stator (1) which has a longitudinal axis (W) and a permanent magnet (7) with poles oriented along said axis (W) and linearly movable inside the stator (1). The stator (1) comprises at least two columns (A B) formed by electromagnets (2) each electromagnet (2) comprising a core (U) formed by a central straight segment (4) and two end polar expansions (5) all being oriented towards and orthogonally to said axis (W). The columns are circularly arranged around said the permanent magnet (7) and mutually linearly offset along said axis (W). A compressor and a valve driven by such an electromagnetic linear motor are also disclosed.

No. of Pages : 15 No. of Claims : 11
Title of the invention: ELECTRONIC DEVICE SHARING CONTENT WITH AN EXTERNAL DEVICE AND METHOD FOR SHARING CONTENT THEREOF

Abstract:
Methods and apparatuses are provided for sharing content between an electronic device and an external device. A web document including pieces of content is received. At least one piece of content executable in the external device is determined from among the pieces of content based on corresponding types of the pieces of content and function information of the external device. Information on the at least one piece of content is transmitted to the external device.

No. of Pages: 41
No. of Claims: 15
A method of inspecting a blow molded container having a finish a base a body between the finish and base and etching at the base. The method includes identifying where on the base the etching is located designating the base as accurately blow molded if the etching is located at a predetermined location of the base and designating the base as not accurately blow molded if the etching is not located at the predetermined location of the base.

No. of Pages: 13 No. of Claims: 30
The present invention relates to the industrial sector of extracting and processing natural rubber, and other components, from plant material. In particular, the invention relates to a process for extracting latex, resin and rubber from guayule and/or guayule-type plants, which comprises harvest, preservation, mechanical and chemical treatment of the plant parts, which is applicable both in the laboratory and on an industrial scale and is characterised by significantly high yields and high quality of the extracted products.

No. of Pages : 25 No. of Claims : 29
Title of the invention: DETECTING LOCATION WITHIN A NETWORK

Abstract:
Systems and methods for detecting the presence of a body in a network without fiducial elements, using signal absorption, and signal forward and reflected backscatter of RF waves caused by the presence of a biological mass in a communications network.

No. of Pages: 46  No. of Claims: 30
**Title of the invention:** METHOD DEVICE AND SYSTEM FOR SETTING MCPTT GROUP

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**Name of Inventor:**
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2) YANG Yanmei

**Abstract:**
Provided in the embodiments of the present invention are a method device and system for setting an MCPTT group; receiving a group selection request by a first network device; the group selection request being used to indicate that a first MCPTT group is set as the MCPTT group selected by a first MCPTT user; the first network device according to the group selection request sending information of the first MCPTT group to a first UE used by the first MCPTT user; enabling the first network device to set the first MCPTT group as the MCPTT group selected by the first MCPTT user thereby allowing one MCPTT user or network system to set a selected MCPTT group for other MCPTT users.

No. of Pages: 39  No. of Claims: 35
A warning signal controlling device for blind zones when vehicles making a lane change is provided. The device is disposed inside each inner side of each rearview mirror of the vehicle, and comprises a lens masked by PMMA which is black and opaque, a mirror utilizing a light guide made of PMMA which is transparent, and a base assembly consisting of LED lamps, a PCB board and a base. The lens and the mirror are obtained by two-color molding, the PCB board is secured to the base, LED lamp holders are provided on the PCB board, the LED lamps are secured in the corresponding LED lamp holders and the base assembly is secured to the lens by ultrasonic welding.
METHOD AND APPARATUS FOR TRIGGERING A BEAM STATE INFORMATION REPORT IN A WIRELESS COMMUNICATION SYSTEM

Methods and apparatuses for beam management with user equipment beam sweeping in a wireless communication system are disclosed herein. In one method, a network node transmits a reference signal for beam management within one occasion, wherein the occasion comprises at least M symbol sets. The network node performs beam sweeping for transmitting the reference signal in a first symbol set of the M symbol sets. The network node repeats the beam sweeping for transmitting the reference signal in the rest of the M symbol sets.

No. of Pages : 70 No. of Claims : 20
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application: 24/01/2018
(21) Application No. 201814002880 A
(43) Publication Date: 27/07/2018

| (51) International classification: B29D11/00278 |
| (31) Priority Document No: 201720106020.6 |
| (32) Priority Date: 26/01/2017 |
| (33) Name of priority country: China |
| (86) International Application No: NA |
| (87) International Publication No: NA |
| (61) Patent of Addition to Application Number: NA |
| (62) Divisional to Application Number: NA |
| (57) Abstract: The present invention provides an eyewear dispensing apparatus, which comprises a box with a cover, a subjective refraction tool placed in the box, a set of trial lenses placed in the box, wherein the cover includes visual chart on its surface. The cover includes a first visual chart on its front surface containing reading text for measuring near vision power, and a second visual chart on its back surface containing distance visual acuity text for measuring distance power. With the eyewear dispensing apparatus according to the present invention, it is possible to achieve a simple, convenient but effective solution for an eye care practitioner to provide on-the-spot refraction and immediately lens dispensing |

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(72) Name of Inventor:
1) Patricia KOH

The Patent Office Journal No. 30/2018 Dated 27/07/2018
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<td>(22) Date of filing of Application : 27/02/2006</td>
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(54) Title of the invention : "A BALLOON TYPE BANDAGE SYSTEM".

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<td>1) SANDEEP KUMAR JAI SWAL</td>
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<tr>
<td>Address of Applicant</td>
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(71) Name of Applicant : 1) SANDEEP KUMAR JAI SWAL

| (72) Name of Inventor : 1) SANDEEP KUMAR JAI SWAL |

(57) Abstract : This invention relates to a balloon type bandage system comprising of a double layered balloon with opening at both ends attached to a valve such as herein described for supply of medicated gas therethrough from a gas pouch into the space between the two layers of the balloon. (Fig. 7)

No. of Pages : 1 No. of Claims : 0
A printing method for shielding component adopted to print a shielding component (2) of a 3D model (20) having multiple printing layers (11) is disclosed. The method first obtains all candidate points of first layer of the shielding component (2) and chooses one of the candidate points as a start point (211) of the first layer according to a default rule, and prints the first layer from the chosen start point (211). Next, the method obtains all candidate points of next layer of the shielding component (2) and chooses one of the candidate points of the next layer which is closest to the start point (211) of last layer to be printed as a start point of the next layer, and prints the next layer from the chosen start point.
(54) Title of the invention : QUATERNARY AMMONIUM HALIDES WITH ETHER FUNCTIONAL GROUPS FOR USE AS BATTERY ELECTROLYTES

(51) International classification : H01M12/08
(31) Priority Document No : 62/448,480
(32) Priority Date : 20/01/2017
(33) Name of priority country : U.S.A.
(86) International Application No : NA
   Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

(57) Abstract :
An electrolyte solution and a flow cell battery are included herein. The electrolyte solution generally includes a electrolyte solution including one or more class A quat halides. The flow cell battery includes an electrolyte solution including one or more class A quat halides.

No. of Pages : 35 No. of Claims : 8
The present invention relates to a three-dimensional cell culture system which can be used to culture a variety of different cells (Human mesenchymal stem cells, Human fibroblast, Keratinocytes, fibroblast differentiated form mesenchymal stem cells in vitro and keratinocytes differentiated form mesenchymal stem cells in vitro) in vitro for continued periods of time. In the present invention, mesenchymal stem cells (MSCs) derived from bone marrow or umbilical cord are inoculated and grown on a pre-established scaffold or matrix made up of chitosan and gelatin. The developed tissue constructs contain cells, growth factors, cytokines and other regulatory factors secreted by cells. The developed bioengineered tissue constructs provide the support, growth factors and essential cytokines for wound healing. Developed tissue construct useful in the treatment of burns wound, diabetic foot ulcer wound and type of chronic skin wounds. It is helpful in healing and regeneration of skin tissue.
According to one embodiment, an elevator system selects a suitable car for a passenger from among a plurality of cars on the basis of a destination floor of the passenger, and causes the selected car to respond. The elevator system includes a group management controller, standalone control devices, a destination floor registration apparatus and a car assignment controller.
Title of the invention: PURINE NUCLEOSIDE PHOSPHORYLASE AS ENZYMATIC ACTIVATOR OF NUCLEOSIDE PRODRUGS

| (51) International classification          | :A61K35/761          |
| (31) Priority Document No                 | :61/089,235          |
| (32) Priority Date                        | :15/08/2008          |
| (33) Name of priority country             | :U.S.A.              |
| (36) International Application No         | :PCT/US2009/054058   |
| Filing Date                               | :17/08/2009          |
| (86) International Publication No         | :WO / 2010/019954    |
| (61) Patent of Addition to Application    | :NA                  |
| Number                                    | :NA                  |
| Filing Date                               | :NA                  |
| (62) Divisional to Application Number     | :1836/DELNP/2011     |
| Filed on                                  | :11/03/2011          |

Abstract:
A process for inhibiting a mammalian cancerous cell or virally infected cell includes providing a Trichomonas vaginalis purine nucleoside phosphorylase enzyme or a tail mutant purine nucleoside phosphorylase enzyme in proximity to the mammalian cancerous cell or the virally infected cell and exposing the enzyme to a purine nucleoside phosphorylase enzyme cleavable substrate to yield a cytotoxic purine analog. The process includes introducing to the cell a vector containing the phosphorylase enzyme, or a DNA sequence coding for the same and delivering to the cell an effective amount of the substrate such as 9-(β-D-arabinofuranosyl)-2-fluoroadenine (F-araA).
METHOD FOR EXCHANGING HEAT IN A VAPOR COMPRESSION HEAT TRANSFER SYSTEM AND A VAPOR COMPRESSION HEAT TRANSFER SYSTEM COMPRISING AN INTERMEDIATE HEAT EXCHANGER WITH A DUAL-ROW EVAPORATOR OR CONDENSER

The present disclosure relates to a method for exchanging heat in a vapor compression heat transfer system. In particular, it relates to the use of an intermediate heat exchanger to improve performance of a vapor compression heat transfer system utilizing a working fluid comprising at least one fluoroolefin. In addition, the present disclosure relates to a vapor compression heat transfer system comprising an intermediate heat exchanger in combination with a dual-row evaporator or a dual-row condenser, or both.

No. of Pages : 38  No. of Claims : 8
A method for assaying a sample for each of multiple analytes is described. The method includes contacting an array of spaced-apart test zones with a liquid sample (e.g., whole blood). The test zones disposed within a channel of a microfluidic device. The channel is defined by at least one flexible wall and a second wall which may or may not be flexible. Each test zone comprising a probe compound specific for a respective target analyte. The microfluidic device is compressed to reduce the thickness of the channel, which is the distance between the inner surfaces of the walls within the channel. The presence of each analyte is determined by optically detecting an interaction at each of multiple test zones for which the distance between the inner surfaces at the corresponding location is reduced. The interaction at each test zone is indicative of the presence in the sample of a target analyte.
A running gear (10) for a rail vehicle, comprises a front and a rear wheel sets (14, 16), each provided with left and right wheels (18L, 18R; 20L, 20R). A passive hydraulic wheel set steering system (26) comprises a control valve (32) hydraulically connected to hydromechanical converters (28L, 28R, 30L, 30R) for converting motion of each of the wheels towards and away from the median transverse vertical plane (100). The control valve (32) is movable between a first position in which the front left and right hydromechanical converter assemblies are disconnected from the rear left and right hydromechanical converter assemblies, and a second position in which each of the front left and right hydromechanical converter assemblies is connected to at least a respective one of the rear left and right hydromechanical converter assemblies.
The present invention relates to salt forms of the Pim kinase inhibitor N-[(7R)-4-[(3R,4R,5S)-3-amino-4-hydroxy-5-methylpiperidin-1-yl]-7-hydroxy-6,7-dihydro-5H-cyclopenta[b]pyridin-3-yl]-6-(2,6-difluorophenyl)-5-fluoropyridine-2-carboxamide, including methods of preparation thereof, and intermediates in the preparation thereof, where the compound is useful in the treatment of Pim kinase-related diseases such as cancer.
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Abstract:
A cushion in a seat 10 has a three-dimensional mesh structure made of resin. A cover 13 for covering the cushion has a mesh 100, the mesh 100 being attachably/detachably mounted to/from the cushion and also being arranged in a region for covering the three-dimensional mesh structure.
A seam 51S is possessed as a partition that partitions the interior of an airbag, and the seam 51S is a coupling spot along which a frontal-side base fabric 61 and a backside base fabric 62 are coupled to each other. First and second reinforcing fabrics 63, 64 are provided on inner sides of the frontal-side base fabric 61 and the backside base fabric 62, and the first and second reinforcing fabrics 63, 64 have remaining margins 91 that are oriented toward the gas supply side in the downward direction rather than toward the seam 51S, and each of the remaining margins 91 functions as a shield wall against a flow of gas toward the seam 51S. [Selected Drawing]
(12) PATENT APPLICATION PUBLICATION
(21) Application No.201714025984 A

(19) INDIA
(22) Date of filing of Application :21/07/2017
(43) Publication Date : 27/07/2018

(54) Title of the invention : "MAINTENANCE SYSTEM"

(51) International classification : G03F7/20
(31) Priority Document No : 2017-011196
(32) Priority Date : 25/01/2017
(33) Name of priority country : Japan
(36) Name of Applicant : 1) TOSHIBA ELEVATOR KABUSHIKI KAISHA
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(57) Abstract :
According to one embodiment, a maintenance system including a first terminal device which connects for communication to a controller of an elevating machine and collects data necessary for maintenance includes a communication interruption detector detecting interruption of communication between the controller and the first terminal device during the data collection, and a buzzer activator activating a buzzer function of the first terminal device in a case where the interruption of communication between the controller and the first terminal device is detected by the communication interruption detector.

(61) Patent of Addition to Application Number : NA
(62) Divisional to Application Number : NA
(86) International Application No : NA
(87) International Publication No : NA
(82) Filing Date : NA

(71) Name of Applicant :
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(72) Name of Inventor :
1) Yusuke Nagasaka

No. of Pages : 34 No. of Claims : 7
The invention relates to a charging flap unit (10) for closing a charging opening (42) in a bodywork (20) of a vehicle having an electric drive and an electric energy store, having a charging flap (26) which can move between a closed position, in which it closes the charging opening (42) and forms an essentially seamless transition with an external face (34) of the bodywork (20), and a clearing position in which it clears the charging opening (42) for charging the energy store via a charging socket (16) of the vehicle, wherein the charging flap unit (10) is designed to move the charging flap (26) in the clearing position into an internal region underneath the external face (34) of the bodywork (20), and the charging flap unit (10) has a carrier element (36), and the charging flap (26) is held on the carrier element (36). The invention also relates to a vehicle having an electric drive, an electric energy store, a bodywork (20), in which a charging opening (42) for charging the vehicle is formed, and a charging flap unit (10) as specified above. (Fig. 1)
A polystyrene sulfonic acid resin catalyst and a preparation method therefor. The catalyst is separately used for performing dehydration of tertiary butyl alcohol (TBA) and isobutene oligomerization to cogenerate isobutene and diisobutylene (DIB). The catalyst comprises a polystyrene sulfonic acid resin, a metal, and a metal sulfate. The metal contains two parts: metal coated with the polystyrene sulfonic acid resin, and metal not coated with the polystyrene sulfonic acid resin. The metal sulfate is formed by converting the exposed surface of the metal not coated with the polystyrene sulfonic acid resin in the catalyst. When the catalyst is separately used in the dehydration of TBA and the isobutene oligomerization, due to the high thermal conductivity of the catalyst, the two reactions are coupled, thus supplementing energy required by the dehydration of TBA and greatly reducing the hot-spot temperature of the bed layer of the isobutene oligomerization. In the reaction, the conversion rate per pass of the dehydration of TBA may be 40% or more, and the selectivity of isobutene is 99% or more. Moreover, there is no need to add a sustained-release agent when the isobutene oligomerization is catalyzed, because even if isobutene with a concentration greater than 80 wt% is used as a raw material, the selectivity of DIB is still 80% or more, and the conversion rate per pass is 90% or more.
An energy saving control structure for water-cooled air conditioning includes: a power module; a first electric circuit, configured on one side of the power module and in selective electric connection therewith, the first electric circuit in electric connection with at least one air circulation device; and a second electric circuit, configured on another side of the power module and in selective electric connection therewith, the second electric circuit in electric connection with at least one cooling device and a compressor configured on one side of the cooling device, and the cooling device including a fan motor of a cooling water tower and at least one second motor configured on one side of the fan motor of the cooling water tower.
Title of the invention: AUTOMATIC SMART MICRO PAPER DISPENSER.

Abstract:
Disclosed is an automatic micro paper dispenser having an upper portion and a lower portion. The upper portion comprises a water tank, a tablet barrel configured adjacent to the water tank, an electromagnetic trigger operably connected to the water tank and the tablet barrel, a hopper configured below the water tank and the tablet barrel, and a cover detachably secured to the upper portion thereto. The lower portion comprises a cavity adapted therein. Further, the lower portion comprises a proximity sensor placed therein. Wherein upon placing a hand in the cavity of lower portion, the proximity sensor actuates the electromagnetic trigger which in turn open the tablet barrel to flick one tablet at a time in a hopper and the water tank to allow a predefined quantity to fall on the tablet dropped in the hopper thereby hydrating the tablet to form wet tissue paper. Figure 2
The present disclosure relates to vehicle registration plate. In particular, the present disclosure pertains to a system and method for high security RFID enabled registration plate with embedded interruption on removal of RFID component. In an aspect, a tamper detection system for establishing identity of an object can include an identity tag that is connected to one or more surfaces of the object indicative of identity associated with the object and an electronic device tag having a chip and an antenna loop. In an aspect, a part of the antenna loop can be coupled with the one or more surfaces of the object and at least a part of the chip is coupled with the identity tag such that during tampering and/or removal of the identity tag a connection between the chip and the antenna loop is interrupted and the electronic device tag is disabled.
Title of the invention : SYSTEMS AND METHODS FOR GENERATING AND MANAGING COMPOSITE DIGITAL IDENTITIES

Abstract:
Systems and methods for generating and managing digital identities is disclosed. The method includes receiving, from an identity seeker, a request having an identifier associated with an entity, the request includes a context associated with a transaction. An encrypted token corresponding to the identifier is identified from encrypted tokens stored in a database and is further decrypted to obtain context matrix on which analysis is performed with respect to the request. An activity status associated with the transaction is determined based on analysis to generate composite provisional digital identity (CPDI) specific to the transaction. Based on the determined activity status, one of is performed: (i) obtaining a verification message from the entity, wherein the verification message pertains to the transaction performed by entity, and generating a CPDI of the entity based on the verification message; or (ii) generating a composite provisional digital identity of the entity for authorizing the transaction.

No. of Pages : 25 No. of Claims : 12
The present disclosure relates to a process for preparing 3-methylbenzo-5,6-quinoline. The process involves desulphonating 2-aminonaphthalene-1-sulphonic acid, followed by the addition of at least one aldehyde and at least one oxidizing agent to obtain 3-methylbenzo-5,6-quinoline. The process of the present disclosure is environment friendly and economical. 3-methylbenzo-5,6-quinoline can be used in dyes and agrochemical products.

No. of Pages : 14 No. of Claims : 9
Title of the invention: LIGHT MODULE FOR HEADLIGHT OF VEHICLE, HEADLIGHT FOR VEHICLE, AND VEHICLE

Abstract:
A light emitting diode for low beam of a light module for a headlight of a vehicle emits light in a forward direction. When viewed in a horizontal cross-section through a light emitting surface of the light emitting diode for low beam, a light-receiving surface of an inner lens for low beam includes a convex bottom surface section and a circumferential surface section. A reflector surface is located on the right of the light-receiving surface and reflects the first light received by the light-receiving surface. An emission surface is located in front of the light-receiving surface and emits the first light received by the light-receiving surface. A light guide section guides the first light received by the light-receiving surface to a first emission surface. An outer lens includes an emission surface. The emission surface is curved in a convex shape, receives the light emitted from the emission surface, and emits light for low beam.
(54) Title of the invention: METHOD AND SYSTEM FOR COMMUNICATION LINK PREDICTION IN A DISTRIBUTED ROBOTIC NETWORKS

(51) International classification: H04N 19/00

(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA
(86) International Application No: NA
Filing Date: NA

(87) International Publication No: NA

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

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

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(72) Name of Inventor:
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2) BEHERA, Sipra
3) RATH, Hemant Kumar
4) SIMHA, Anantha

(57) Abstract:
System and method for communication link prediction in a distributed robotic network are disclosed. Robots in this robotic network, which are mobile, can establish communication with a cloud network through a fog node, wherein the fog node is a static node. A robot can directly communicate with a fog node (R2F) if the fog node is in the communication range of the robot. If there is no fog node in the communication range of the robot, then the robot can establish communication with another robot (R2R) and indirectly communicate with the fog node through the connected robot. The system supports communication link prediction so as to identify one or more communication links that can be used by a robot for establishing communication with the cloud network. A link that is determined as satisfying requirements in terms of link quality and any other parameter is used for communication purpose.

No. of Pages: 28 No. of Claims: 8
Title of the invention: VEHICLE IGNITION LOCKING SYSTEM WITH MESSAGING

Abstract:
Nowadays it has been an accepted fact that major part of the accidents are due to the uneven interruptions, inappropriate driving by the drivers. Many times such situations are occurred when driver is drunk. The Vehicle Ignition Locking System with Messaging (VILSM) is used to analyze individual’s breath to detect liquor (alcohol). VILSM automatically analyzes breath of driver; if the system detects liquor then it prevents the engine from being started. The purpose of such system is to avoid road accidents which results in unrecoverable harm of their families. The sensor receives percept from driver’s breath, when the level of alcohol or liquor crosses a permissible limit; it will turn LED bulb and Buzzer on and even though the driver tries to start vehicle it turn off ignition and send messages with location details. This system is suitable for any type of vehicle such as two-wheelers, four-wheelers, six-wheelers etc.
The present subject matter provides a trouser. The trouser comprising of at least one pocket. The pocket is a back pocket; which configured to engage with the trouser through stitching thereby the pocket possess angular shape resulting the pocket of the trouser does not come under the buttock of the user during sitting posture, as a result it may not create any discomfort to user during sitting posture. The back pocket configured to engage with trouser in angular shape ranging in between about 70 to 160 degrees; thereby the position of back pocket varies in sitting and standing position of the user. Also the arrangement of sticking is front of the trouser rather side sticking, as available in the conventional trouser. In another embodiment, the present subject matter provides a process of preparing thereof.
The present invention provides a stable solid oral pharmaceutical composition comprising brexiprazole, a binder and a stabilizer, and a process for the preparation of said pharmaceutical composition. The present invention also relates to a pharmaceutical preparation which contains brexiprazole having excellent storage stability and high photostability.

No. of Pages : 19 No. of Claims : 9
Title of the invention: ADVANCED MANUALLY OPERATED MULTIPURPOSE POWER DRIVEN AGRICULTURE TILLER MACHINE.

Abstract:
India is one of the largest countries in the world in the sector of agriculture farming. Variety of crops are taken out from farm season to season. As crop type changes, techniques of farming also changes therefore equipment and machines necessary for farming also changes. Technology change in developing country like India is large, adoption of technology also large. Different farming industry grownup with different technique. Billions of dollars and rupees are invested in research and development for building safer, cheaper and better performing agriculture equipment and machine. Now day’s automation in farming is observed everywhere. Manpower is major issue in Indian farming also seasonal time limit, shortfall of rain, division of farm in short pieces are the major problem. Therefore farming techniques becomes complicated and equipment becomes sophisticated in design, manufacturing and to end use. Size of equipment also the major issue in short piece farm where turning of equipment is major problem from one end to another end. Power Driven Agriculture Tiller Machine and Power driven equipment are available but requires more maintenance, not economical, big size, handling problem, skilled labour required, large time to start and stop, cost is more, not suitable for small, tiny plants, crops, also distance between plants are less and which are not performing multitask. Mostly Power Driven Agriculture Tiller Machine are Mounted on small or big tractor. The use of tractor not possible in small plant where distance between them very small. Attitude and adaptation of new technology for conventional thinking farmer is difficult, time consuming. Therefore a simple, economical, handy, small size, power driven multitasking manually operated Agriculture Tiller Machine is need of today’s Indian farming techniques. Which are able to do the same task in a faster, more reliable and accurate way than the pure conventional system.

No. of Pages: 6 No. of Claims: 4
(54) Title of the invention: AN ALTERATION IN SCREWDRIVER TO MAKE IT EASY TO GRIP AND APPLY MORE TORQUE.

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<td>:NA</td>
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(57) Abstract:
ABSTRACT: Tip of screwdriver is kept on target screw, wings are pulled outside so that they will be perpendicular to the cylindrical shaft, for tightening purpose handle is moved in clockwise direction and for removing purpose, it is moved in anticlockwise direction, action of wings is used whenever the grip is required and screws are tight.

No. of Pages: 7 No. of Claims: 2
Title of the invention: A NOVEL, FEASIBLE AND COST EFFECTIVE PROCESS FOR THE MANUFACTURE OF D-PENICILLAMINE

Abstract:
Disclosed herein is a novel synthesis for the manufacture of D Penicillamine via novel chiral auxiliaries as intermediate compounds. The process comprises conversion of D Camphoric acid into an amido ester by reacting it with glycine methyl ester hydrochloride followed by conversion into its bis-acid by reacting with a suitable base. The bis-acid is further converted into its bis-oxazolone which is condensed with acetone in presence of base to obtain intermediate 5 followed by reaction with sulphur transfer agent and subsequent hydrolysis to obtain D Peniciilamine.

No. of Pages: 20 No. of Claims: 12
A sealing arrangement for vertically reciprocating shaft maintained under zero pressure, the arrangement comprising: a top link spindle assembly vertically moving in the guide bore of the VTU housing; a bell crank subjected to side loads generated during off-load applications; the top link spindle assembly fitted between the trunnion top link spindle of the bell crank and the transmission case; wherein a close radial clearance is provided between the guide bore and the spindle of the top link spindle assembly for a vertical reciprocation thereof. An upper spring is enclosed within the rubber boot supported between a pair of washers abutting the trunnion top link spindle at the upper end thereof. A rubber boot assembly abuts the scraper or wiper seal at the lower end thereof. A lower spring is placed between an upper seat and a lower seat disposed inside the transmission case. The upper seat supports a rod seal at bottom side of the top link assembly to prevent oil leakage from the transmission case. FIGURE 3.
The present invention relates to formulation for healing bone disorders comprising 5 of Cissus quadrangularis extract loaded nanoparticulate phytosomes in a penetration enhancer matrix for local application proximal to an affected bone and its method for preparation thereof.

No. of Pages: 35 No. of Claims: 17
A sweetener composition and the method of producing same is disclosed. The sweetener composition comprises stevia, lactose and flavor modifier. Said sweetener composition comprises 95 â€“ 97% by weight of lactose, 3 â€“ 5% by weight of stevia and flavor modifier is 0.4% by weight of Stevia in the composition. The said sweetener composition has taste masked of stevia.
(54) Title of the invention: MACHINE LEARNING BASED METHOD FOR INTERACTIVE CONTENT AWARE IMAGE SEARCHING SYSTEM.

(51) International classification: G06F 17/00, G06K 9/00, G06F 19/00

(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA
(86) International Application No: NA
Filing Date: NA

(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
Filing Date: NA
(62) Divisional to Application Number: NA
Filing Date: NA

(57) Abstract:
A machine learning based method for interactive content aware image searching system consists of retrieval of relevant images based, in part, on a context in which a query has been submitted. The method of image searching and retrieval operates by using a Machine learning model i.e. multiclass-support vector machine (M-SVM) to classify the database images. SIFT and LBP methods are used to transform context or content knowledge of input image into a context feature vector or concept descriptor in a semantic dimension. The input image is transformed into two feature vector by using SIFT and LBP, then combined together to form final feature vector. Determining a similarity of the query image to a plurality of images included in a database using the determined two feature descriptors of the query image, features being extracted from each of the plurality of images included in the database by determining the two feature descriptors, the SIFT features and the LBP features including a simultaneous combination or integration. Further on the basis of similarity measure and M-SVM the relevant-context aware images are retrieved, re-ranked and displayed on the output device.

No. of Pages: 26 No. of Claims: 9
**Title of the invention:** SAFETY MOTORBIKE SIDESTAND BY PUSHBUTTON ATTACHMENT.

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<th>No. of Pages : 8 No. of Claims : 3</th>
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**Abstract:**

Road Accident is serious issue regarding human life and nowadays it becomes more critical as there is increasing demand of automobile vehicle with respect to increase in population. There are several causes of road accident among them one is due to human mistake of forgetting of lifting of side stand of motorbike while riding. So our main focus is to avoid such a problem by introducing the such system which overcome the human mistake in such a way that if rider forgot to lift the stand during starting then vehicle does not start until the side stand is lifted upward. For that purpose we introduced one attachment of push button which serves above purpose and motorbike does not start until the side stand is lifted upward.
Method of Making a Brush and Brush Obtained in This Way

Abstract:
A method is described for making an industrial brush comprising a brush body obtained by the solidification of a metal in which the metal wires are locked in a rigid fashion for a first portion thereby having a rigid body. The second portion of metal wires is free to perform brushing when the brush body is rotated about a relative axis. The brush body incorporates the metal wires with a structural coupling which keeps unaltered the relative characteristics over time, with heat variations and at high speeds of rotation. It is also possible to construct the elements of traditional brushes with the same metal and a process is described for constructing new geometrical shapes for producing brushes with synthetic and natural wires with the traditional systems. Also, a process is described for making a brush comprising the steps of feeding in a mould a metal in the molten state (melting temperature less than 2000°C), in such a way that the first portion of the metal wires is immersed in the metal which, when solidifying, forms a brush body with a rigid structure with a high mechanical strength such as to render perfectly stable the operation of the brush at high speeds and at high temperatures. During solidification of the molten metal there is also a heat treatment on the metal wires which improves their mechanical characteristics. Flanges, outer cups and inner cups with innovative embodiments can also be made with the same moulding process, improving the characteristics of the traditional brushes.
Abstract:
The present disclosure relates to a catalyst composition for catalytic oxidative dehydrogenation of hydrocarbons and a process for preparing the same. The catalyst composition of the present disclosure comprises a mixed oxide comprising a first transition metal, a second transition metal, and oxygen. The mixed oxide is at least one selected from the group consisting of spinel, hematite, and magnetite. The yield of butadiene by oxidative dehydrogenation of C4 hydrocarbon using the catalyst composition of the present disclosure is in the range of 67% to 81% mol/mol.
Title of the invention: A METHOD FOR DETECTING AND CONTROLLING THE AMOUNT OF CATIONIC SPECIES IN A WATER STREAM

Abstract:
A method for detecting and controlling the amount of cationic species in a water stream in accordance with an embodiment of the present disclosure is carried out by adding a solution containing a pre-determined quantity of a fluorescent tracer to the sample of water stream to obtain a solution comprising a complex. The fluorescence emission spectra of the solution is measured for detecting the presence or absence of the cationic species based on the attenuation and shift of the emission peak in the range of 640 nm to 655 nm.

The Patent Office Journal No. 30/2018 Dated 27/07/2018 28359
The invention proposed herein discloses a method and apparatus for extraction of purified/raw salt from brine/raw salt through mechanized vapor compression system evaporation; wherein the saturated sea water is fed into the feed vessel, whereby the sea water is concentrated to prepare the brine. The refined brine filled to the vapor-liquid separator by the help of product pump; the process repeats for multiple times and obtains the salt and collected into storage vessel. The salt collected in the storage vessel is filtered, by a pusher type centrifuge. A magnetic flow meter should be provided in the delivery line of the feed pump so that feeding rate can be monitored, for final drying of the wet cake obtained from the centrifugal system is done in drying system.

No. of Pages: 16 No. of Claims: 10
The present disclosure provides an optical fiber. The optical fiber includes a core region and a cladding region that surrounds the core region. Further, the optical fiber includes a first coating layer that surrounds the cladding region. In addition, the optical fiber includes a second coating layer that surrounds the first coating layer. The first coating layer and the second coating layer are made of UV curable acrylates. The first coating layer has a first diameter in a range of 400 \( \mu \text{m} \) - 500 \( \mu \text{m} \) and the second coating layer has a second diameter in a range of 550 \( \mu \text{m} \) - 850 \( \mu \text{m} \). The range of diameter and type of materials used for the first coating layer and the second coating layer provides strength greater than or equal to 5GPa to the optical fiber.
Title of the invention: **WINDING TYPE FILM DEPOSITION DEVICE EVAPORATION SOURCE UNIT AND WINDING TYPE FILM DEPOSITION METHOD**

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**Name of Applicant:**
1) ULVAC INC.
Address of Applicant: 2500 Hagisono Chigasaki shi Kanagawa 2538543 Japan

**Name of Inventor:**
1) HIRONO Takayoshi

**Abstract:**
In order to suppress variations in thickness and transmittance in the width direction of a film, a winding type film deposition device 1 pertaining to an embodiment of the present invention is provided with an unwinding roller 2, a winding roller 3, a cooling roller 4, an evaporation source array 6, and a gas supply part 7. The evaporation source array 6 has a plurality of first evaporation sources 61 (61A to 61E) disposed at a predetermined interval on a first line L1 parallel to the axial direction of the cooling roller 4 and a plurality of second evaporation sources 62 (62A to 62F) disposed at the aforementioned predetermined interval and offset by half the pitch of the plurality of first evaporation sources 61 on a second line L2 parallel to the first line L1. The gas supply part 7 has a plurality of first nozzle parts 71 (71A to 71E) for jetting a gas toward a vapor flow from the plurality of first evaporation sources 61 and a plurality of second nozzle parts 72 (72A to 72F) for jetting a gas toward a vapor flow from the plurality of second evaporation sources 62 and the gas supply part 7 is disposed between the evaporation source array 6 and the cooling roller 4.

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No. of Pages : 59
No. of Claims : 15
The invention relates to a device (1) for generating gas bubbles in a liquid in a container comprising at least one rotatable hollow shaft (3) arranged horizontally in at least one container; at least one gassing disc (4) arranged vertically on the at least one hollow shaft; and at least one feed line (2) for supplying at least one compressed gas to the interior of the at least one hollow shaft (3) said compressed gas being brought into the feed line and hollow shaft directly without a liquid carrier.
**Title of the invention**: RAPID SLEW AND SETTLE SYSTEMS FOR SMALL SATELLITES

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**Name of Applicant**:
1) THE CHARLES STARK DRAPER LABORATORY INC.
   Address: 555 Technology Square Cambridge Massachusetts 02139 U.S.A.

**Name of Inventor**:
1) LIM Sungyung
2) TUOHY Seamus
3) DIONNE Daniel
4) DUCHESNE Laurent
5) BREGER Louis

**Abstract**:
A new approach for rapid slew and settle of small satellites is based on four single degree of freedom control moment gyroscopes with variable speed flywheels (or reaction wheels) in a pyramid configuration combined with path and endpoint constraint time optimal control. The path and endpoint constrained time optimal control can be augmented with momentum management without the use of additional actuators.
Methods systems and devices are described for wireless communications. The described techniques include separation of communication resources into resource sets based on data service sets for multiple base stations operating over a carrier of a shared spectrum. The base stations may use synchronized communication time resources. Each data service set may include one or more QoS types and/or communication services. Listen before talk (LBT) parameters for contention procedures performed in different resource sets may be different. A UE configured for communication over the carrier may employ a resource set based discontinuous reception (DRX) mode where a sleep mode is entered for resource sets not associated with active communications by the UE. Channel state information (CSI) reporting may be separated by resource sets for the carrier.
Methods for treating paperboard or paper media are provided. In these methods a composition is applied to the surface of the paperboard or paper media. Paperboards or paper media treated in accordance with any of the methods achieved increased strength under both dry and wet testing methodologies as compared with untreated paperboards and paper media of the same basis weight.
Title of the invention : FURNITURE DEVICE WITH ADJUSTABLE FIRMNESS

Abstract :
A furniture device configured to receive the weight of a being said furniture device comprising a holding arrangement (20 120) and at least one section (30 30 130) comprising a base (2 102) a movable plate element (4 104) a moving mechanism (6 10) and at least one elastic device (12 112). The plate element (4 104) is configured to interact with the at least one elastic device and to be moved by the moving mechanism in respect to the base in order to adjust the firmness of the at least one elastic device. The elastic device comprises a pocket (14 114) made of a flexible sheet material and an elastic member (18 118). The holding arrangement comprises a holding member (22 122) which is fixed in relation to the base (2 102) or the plate element (4 104) and a connecting portion (24 24 124) which is arranged at the elastic device (12 112) and which connects the holding member to the elastic member. The elastic member (18 118) exhibits a first portion (18a 118a) arranged proximal to the free end of the elastic member and an intermediate portion (18c 118c) arranged between the first and second portions. The holding member (22 122) is via the connecting portion (24 24 124) connected to the intermediate portion (18c 118c) of the elastic member such that during movement of the plate element (4 104) relative to the base (2 102) the elastic member (18 118) is compressed and relaxed only over the second portion (18b 118b).
A system and method for remote monitoring and management of an instant issuance system is provided. The embodiments provide secure communication between different entities within the instant issuance system. Security can be established via mutual authentication between the communicating entities of the instant issuance system prior and/or concurrent with a communication taking place.
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<td>Address of Applicant: ATTN: International IP Administration 5775 Morehouse Drive San Diego California 92121 1714 U.S.A.</td>
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<td>72</td>
<td>Name of Inventor: 1) SEJPAL Dhaval 2) LEE Chulkyu 3) WILEY George Alan</td>
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**Abstract:**
A method an apparatus and a computer program product for data communication over a multi wire multi phase interface are provided. The method may include providing a sequence of symbols to be transmitted on a 3 wire interface each symbol in the sequence of symbols defining one of three voltage states for each wire of the 3 wire interface driving all wires of the 3 wire interface to a common voltage state during a transition from a first transmitted symbol to a second transmitted symbol driving each wire of the 3 wire interface in accordance with the second transmitted symbol after a predetermined delay. Each wire may be in a different voltage state from the other wires of the 3 wire interface during transmission of the each symbol. The common voltage state may lie between two of the three voltage states.

No. of Pages: 34 No. of Claims: 26
Provided are a high performance glass fibre composition and a glass fibre and a composite material thereof. The content given in weight percentage of each component of the glass fibre composition is as follows: 57.1 61.9% of SiO 17.1 21% of AlO 10.1 14.5% of MgO 1.1 4.3% of YO less than 6.5% of CaO less than or equal to 1% of LiO+NaO+KO less than or equal to 0.75% of LiO less than 1.8% of TiO 0.05 1.2% of FeO the combined total content of said components being greater than or equal to 0.75% of SiO 17.1 21% of AlO 10.1 14.5% of MgO 1.1 4.3% of YO less than 6.5% of CaO less than or equal to 1% of LiO+NaO+KO less than or equal to 0.75% of LiO less than 1.8% of TiO 0.05 1.2% of FeO the combined total content of said components being greater than or equal to 98% and the range of the weight percentage ratio C1=AlO/SiO being greater than or equal to 0.285. The present glass fibre composition significantly increases the strength and modulus of the glass fibre effectively reduces the glass crystallisation rate obtains an ideal glass fibre formation range ?T value is beneficial for improving the fining effect of high performance glass and is particularly suitable for the tank furnace production of a high performance glass fibre.
The invention relates to a mobile device and method for initiating a video stream server and method for forwarding a video stream and corresponding system and computer readable storage medium. The mobile device comprising at least one processing component; a memory; a display; an input unit for detecting user input; at least one camera; and a wireless communication unit; wherein the mobile device is switchable between a locked state preventing unauthorized and unintentional usage of the device and an unlocked state characterized in that the mobile device is configured to switch to a streaming modus upon detection of a predetermined user input by the input unit in the locked state of the mobile device wherein the device in said streaming modus is configured to establish a communication connection with a remote server using the wireless communication unit to activate the at least one camera and to stream video from the at least one camera to the remote server.
A control system for a vehicle having a first wheel (101) arranged to be driven by a first drive source and a second wheel (101) arranged to be driven by a second drive source wherein the first wheel and the second wheel are transversely located on the vehicle the control system comprising a controller (102) and a monitoring device wherein the monitoring device is arranged to monitor the power differential between the power being applied to the first wheel by the first drive source and the power being applied to the second wheel by the second drive source wherein upon a determination that the power differential between the power being applied to the first wheel and the second wheel is greater than a predetermined value the controller is arranged to reduce the power differential.
### Title of the invention: A MICRONEEDLE AND A CHIP

| International classification | A61M37/00 |
| (31) Priority Document No | 15301849 |
| (32) Priority Date | 04/12/2015 |
| (33) Name of priority country | Sweden |
| (86) International Application No | PCT/SE2016/051211 |
| Filing Date | 02/12/2016 |
| (87) International Publication No | WO 2017/095321 |
| (61) Patent of Addition to Application Number | NA |
| Filing Date | NA |
| (62) Divisional to Application Number | NA |
| Filing Date | NA |

### Abstract:

A microneedle and a chip are disclosed for extraction of fluids. The microneedle (101) provided on a substrate (102) comprises an elongated body (503) extending from a distal end (504) with a bevel (505) to a proximal end (506) on the substrate along a longitudinal axis; the elongated body comprises a capillary bore (507) extending in a longitudinal direction thereof and defines a fluid path (508); the proximal end is integrally connected with the substrate and the capillary bore is in fluid communication with a fluid channel (309) of the substrate. The cross sectional area of the capillary bore in the distal end is larger than the cross sectional area of the capillary bore in the proximal end.

No. of Pages: 14  No. of Claims: 15
Title of the invention: FOAMED DOUGH BASED FOOD AND APPARATUS AND METHOD FOR PRODUCTION THEREOF AND USE OF THE APPARATUS

Abstract:
In a method and apparatus for production of a foamed dough based food product especially snack products or baked snacks according to any of the above claims comprising the method steps of: a) providing a food product matrix to be foamed comprising a proportion by weight of a starch containing raw material (R) and a proportion by weight of water (W) b) introducing a gas that has been dissolved or is to be dissolved into the food product matrix to be foamed c) dissolving the gas under pressure in the food product matrix to be foamed d) forming gas bubbles by expansion and increasing the volume with a resulting reduction in density of the dough as a result of bubble growth for formation of a foamed food product matrix of the food product to be produced e) stabilizing the foam of the foamed food product matrix a process or apparatus for production of a foamed dough based food product is to be provided which places lower demands on equipment and maintenance in production. This is achieved in that in method step b) and/or method step c) gas is introduced into and dissolved in the aqueous component of the food product matrix to be foamed in a subcritical state below the critical point and at a pressure of 10 bar ??? p critical pressure of the gas. A foamed dough based and gluten free food product is also claimed as is the use of the apparatus.
**Title of the Invention:** METHOD AND DEVICE FOR GENERATING CONTENT

| (51) International classification | :G06Q50/10G10L13/06 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :PCT/KR2015/010982 |
| Filing Date | :16/10/2015 |
| (87) International Publication No | :WO 2017/065334 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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**Name of Inventor:** 1) LIM, Jong Hoon  
2) HAM, Yoon su

**Abstract:**
The present invention relates to a method and a device for easily generating video content at one go without editing. In the method for providing content provided is a video recording interface comprising a data display area in which an image of each page comprised in a selected data file is individually and sequentially output on a touch screen when video recording begins. And when a touch input by a user with respect to the data display area is detected the image displayed in the data display area is changed and displayed on the basis of a touch input mode. And from the beginning of the video recording to the end of the video recording the image changes in the data display area and a speakers voice being recorded are recorded and thus video content is generated. The present invention enables video recording at one go without separate editing.

No. of Pages : 49  No. of Claims : 20
**Title of the invention**: BAR PIN BUSHING FOR VEHICLE SUSPENSION AND CORRESPONDING MOUNTING METHOD

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**Name of Applicant**:
1) HENDRICKSON USA L.L.C.
   Address of Applicant: 500 Park Boulevard Suite 1010 Itasca IL 60143 1285 U.S.A.

**Name of Inventor**:
1) ZIMMERMAN Randy J.
2) MERRIMAN James
3) KERENDIAN Hormoz

**Abstract**: A bar pin bushing assembly for connecting components including a bar pin having at least one end with at least one bore to receive a fastener the bar pin having a central portion having a diameter that is greater than a width or diameter of the at least one end of the bar pin a compressible rubber section having a uniform thickness positioned around the central portion of the bar pin the compressible rubber section further extending around downwardly tapering surfaces adjacent the central portion of the bar pin a plurality of outer metal shells mold bonded to the compressible rubber section wherein when the bushing assembly is inserted into a hub the plurality of outer metal shells are configured to radially compress the compressible rubber section to provide a precompressed bushing assembly. A method of assembling the bar pin bushing assembly is also disclosed.

No. of Pages: 22 No. of Claims: 43
Apparatus and method of forming connector brackets for irrigation laterals along a prefabricated lay flat pipe and lay flat pipe with such connectors brackets wherein an opening is formed at one wall of the premanufactured pipe a separation means is positioned inside the pipe opposite the opening while separating the one wall from the second wall of the pipe and an injunction molding is performed into a mold cavity in order to form the bracket affixed to the one wall of the prefabricated pipe and around the opening.
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| (51) International classification: C11D1/37, C11D1/83, C11D3/37 |
| (31) Priority Document No: 15174012.3 |
| (32) Priority Date: 26/06/2015 |
| (33) Name of priority country: EPO |
| (36) International Application No: PCT/EP2016/059424 |
| (86) Filing Date: 27/04/2016 |
| (87) International Publication No: WO 2016/206837 |
| (61) Patent of Addition to Application: NA |
| (62) Divisional to Application Number: NA |

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<td>1) UNILEVER PLC</td>
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<td>Address of Applicant: A company registered in England and Wales under company no. 41424 of Unilever House 100 Victoria Embankment London Greater London EC4Y 0DY U.K.</td>
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<tr>
<td>1) BACHELOR Stephen Norman</td>
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<td>2) BIRD Jayne Michelle</td>
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<th>(57) Abstract:</th>
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<td>A laundry detergent composition comprising (i) from 4 to 50 wt% of an anionic charged surfactant other than an alkoxyated polyarylphenol (ii) from 0.5 to 20 wt% of an alkoxyated polyarylphenol having an average of 5 to 70 alkoxy groups (iii) from 0.0005 to 0.5 wt % of a lipase enzyme and (iv) from 0.0005 to 0.2 wt% of a protease enzyme. Domestic method of treating a textile the method comprising the step of treating a textile with an aqueous solution of 0.5 to 20 g/L of the laundry detergent composition.</td>
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No. of Pages: 16 No. of Claims: 13
Title of the invention: ELECTRONIC TOILET CAPABLE OF IMPLEMENTING SWITCHING BETWEEN COLD WATER AND HOT WATER AND CONTROL METHOD

Abstract:
An electronic toilet capable of implementing rapid switching between cold water and hot water the electronic toilet comprising a controller (112) a water spraying and cleaning device (102) a water cooling device and a water heating device. The water cooling device and the water heating device are respectively provided with cold and hot water outlet pipes and a cold water electromagnetic valve (111) and a hot water electromagnetic valve (104). The electronic toilet also comprises a booster pump (103) a water inlet of the booster pump (103) being connected to a converged water outlet pipe of the water outlet pipe of the cold water electromagnetic valve (111) and the water outlet pipe of the hot water electromagnetic valve (104) a water outlet of the booster pump (103) being connected to the water spraying and cleaning device (102). When the controller (112) receives an anus cleaning instruction the booster pump (103) performs a boosting operation and during the boosting operation of the booster pump (103) the controller (112) alternately opens or closes the cold water electromagnetic valve (111) or the hot water electromagnetic valve (104) so that cold water in the water cooling device and hot water in the water heating device are alternately sprayed via the water spraying and cleaning device (102). Also provided is a toilet control method.

No. of Pages : 12 No. of Claims : 16
The present invention addresses the problem of developing an analytical method which makes it possible to diagnose early or mild renal disorders. The method is based on calculating a disease state index value for renal disorders on the basis of the quantities of D form and/or L form amino acids from feces or intestinal content. By comparing the disease state index value with a threshold value determined from the disease state index values of a renal failure patient group and a healthy subject group it is possible to diagnose a mild renal disorder patient group.
The present disclosure relates to a variable pressure vessel. The vessel includes a liquid chamber and a gas chamber and a moveable barrier therebetween. The vessel has a volume a first stroke and a second stroke. The liquid chamber and the gas chamber each have a variable volume that changes responsive to the first stroke and the second stroke. The gas chamber has an outer wall wherein at least a portion of the outer wall is thermally conductive and allows heat to transfer therethrough. Movement of the moveable barrier between the liquid chamber and the gas chamber causes the volume in the liquid chamber and the volume in the gas chamber to displace each other. The volume in the gas chamber plus the volume in the liquid chamber is generally constant and generally equals the volume in the variable pressure vessel.
**Title of the Invention:** METHOD AND APPARATUS OF INTER PREDICTION USING AVERAGE MOTION VECTOR FOR VIDEO CODING

**Abstract:**
A method and apparatus for video coding utilizing a motion vector predictor (MVP) for a motion vector (MV) for a block are disclosed. According to an embodiment a mean candidate is derived from at least two candidates in the current candidate list. The mean candidate includes two MVs for the bi-prediction or one MV for the uni-prediction and at least one MV of the mean candidate is derived as a mean of the MVs of said at least two candidates in one of list 0 and list 1. The mean candidate is added to the current candidate list to form a modified candidate list and one selected candidate is determined as a MVP or MVPs from the modified candidate list for current MV or MVs of the current block. The current block is then encoded or decoded in Inter Merge or Skip mode utilizing the MVP or MVPs selected.

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No. of Pages : 16
No. of Claims : 12
The present invention relates to: an adjuvant composition containing oil-in-water emulsion type amphiphilic polymer particles comprising an amphiphilic polyamino acid polymer; and a preparation method therefor. The adjuvant composition of the present invention uses an amphiphilic polyamino acid polymer thereby enabling a vaccine adjuvant composition which is more biocompatible and has a high antibody titer to be provided.
Title of the invention: OPTICAL FIBER FOR IN-HOUSE APPLICATIONS

Abstract:

[0001] The present disclosure provides an optical fiber. The optical fiber includes a core region. The core region is defined around a central longitudinal axis of the optical fiber. In addition, the optical fiber includes a cladding region. The cladding region surrounds the core region. Moreover, the optical fiber includes a first coating layer. The first coating layer surrounds the cladding region. Further, the optical fiber includes a second coating layer. The second coating layer surrounds the first coating layer. Furthermore, the optical fiber includes a third coating layer. The third coating layer surrounds the second coating layer. Moreover, the first coating material is made of the UV curable acrylates. The range of diameter and type of materials used for the first coating layer, the second coating layer and the third coating layer provides strength greater than equal to 5GPa to the optical fiber.
A performance enhancing aspirator apparatus for improving efficiency of a gas turbine by drawing in surplus air comprises attachment members and a substantially funnel shaped casing. The attachment members are positioned radially on an exterior surface of the gas turbine. The substantially funnel shaped casing is fixedly attached to the exterior surface of the gas turbine via the attachment members. The substantially funnel shaped casing and the gas turbine define a converging duct therebetween. The converging duct creates a very low-pressure region proximal to a nozzle of the gas turbine, thereby drawing in surplus air for improving efficiency of the gas turbine.
The present invention relates to an insect repellant composition and its method of manufacturing. The present invention also relates to use of said composition for manufacturing an insect repellant fabric. The present invention also relates to an insect repellant fabric with improved wash durability i.e. prolonged and improved insecticidal efficacy and its method of manufacturing.

No. of Pages : 22 No. of Claims : 16
Title of the invention: A METHOD, A BATTERY MANAGEMENT SYSTEM AND A VEHICLE FOR CHARGING AWAKENING

Abstract:
The present invention relates to a method, a battery management system and a vehicle for charging awakening. The battery management system includes: a wake-up module, used for generating a wake-up signal when the battery management system is in a dormant or power-off state and an external charging plug is connected with a charging interface; and a power management module, used for conducting a power supply circuit between a battery module and a preset function module in the battery management system when receiving the wake-up signal. According to the system for charging wake-up provided by the present invention, the battery management system is automatically woken up when the external charging plug is accessed to charge the vehicle, so the battery management system automatically enters a normal working state from the power-off state or the dormant state, and a user does not need to wake up the battery management system by way of ignition, thereby simplifying the charging process of the vehicle, facilitating the operation of the user and improving the user experience.
(54) Title of the invention : WALKER

(51) International classification : A61H 3/00
A47D
13/04

(31) Priority Document No :15/415682
Priority Date :25/01/2017
Name of priority country :U.S.A.

(86) International Application No
Filing Date :NA

(87) International Publication No : NA

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

(62) Divisional to Application Number
Filing Date :NA

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(72) Name of Inventor :
1) Ole Falk Smed

(57) Abstract :
Embodiments of a walker are shown, the walker including two patient-load bearing support tubes each having a padded underarm support for seating in the armpit of a patient, an adjustable-height load bearing tube and a rubber tip. Connected to each of the patient-load bearing tubes are two L-shaped legs with a wheel disposed at the end of the leg and a grip disposed on the leg for a patient to grip when the walker is in use. A main tube is connected between the two legs and defines the width of the walker. The height of the patient-load bearing tubes may be adjusted from an extended position in which the padded underarm support is seated in the armpit of the patient to a retracted position in which the padded underarm support does not interfere with the patient’s use of the walker.

No. of Pages : 17 No. of Claims : 12
A signal processing system and a method thereof are disclosed, using a differential amplifier to extract the sensed signals associated with the headphones wear status generated by the diaphragm of the headphone and push back to the sense ADC for digitization. Because the differential amplifier is non-ideal, certain residual music signal will exist. To exclude residual music signal for subsequent processing, a temporary memory is provided to match and synchronize the original playback signal retention and the round-trip delay of external signal. The round-trip delay is computed to adjust the depth and clock speed of the buffer/FIFO of the temporary memory to, after synchronized with the total external propagation delay, eliminate residual music signal in a function block in order to separate the sense signal of the headphone driver unit diaphragm displacement and use the extracted sense signal for subsequent analysis and auto-control and/or signal compensation reference source.

FIG. 1

No. of Pages : 59 No. of Claims : 10
Title of the invention: A CUSTOMIZED Clamp for Mounting an Array of Solar Modules on a Roof Structure

Abstract:
The present invention generally relates to a customized connector for assembling an array of solar modules to a roof frame. The principal object of the present invention is to provide an effective and a standardized way of mounting an array of solar modules to a roof frame. The method of mounting the solar modules consists of using a two-part customized connector for assembling. This customized connector comprises a bottom portion with an inverted U-shape having curved ends for holding the roof frame and an upper portion of U-shape with rectangular ends for holding an array of solar modules is disclosed.

No. of Pages: 17 No. of Claims: 10
(54) Title of the invention : A RELEASE TOOL FOR RELEASING A HOSE FROM A QUICK CONNECT FITTING

(57) Abstract :
[0038] Abstract [0039] The present invention relates to a release tool (10) aimed at releasing a hose from a respective quick connect fitting in pneumatic systems. The release tool (10) comprises a blade member (30) and a holding member (20). The blade member (30) comprises a head portion (31) and an arm portion (35) formed integrally with the head portion. The holding member (20) is attached to the arm portion (35) of the blade member (30). The head portion (31) forms an obtuse angle (α°) with the arm portion (35) and comprises a V-shaped notch portion (32) having at least four dissimilarly-sized, concave shaped stepped increments. This structure allows the use of a single release tool to remove the different-sized air hoses from the respective quick connect fittings. (FIG 1)

No. of Pages : 16 No. of Claims : 6
The present invention provides a lightning air terminal, comprising an aerodynamic housing (101) enclosing an ozone generator (102) at bottom. The ozone generator (102) generates an electric charge, and an acceleration plate (103) above the ozone generator (102) carries a plurality of Venturi pipes (104) that accelerate the electric charge in upward direction. A Venturi alignment device (105) aligns the Venturi pipes (104) with holes (106) formed on top of the housing (101). A top ring (108) and a Teflon ring (109) are stacked between the holes (106) for spark-gap start generation, wherein the accelerated charge exiting the holes (106) jumps above the rings (108, 109). During increased electrostatic and electromagnetic activities in atmosphere, the ozone generator (102) generates a high voltage pulse which gets accelerated by the Venturi pipes (104) resulting in early streamer. (Figure 1)
A method includes receiving a floor map indicating a layout of a location, displaying at least a portion of the floor map, capturing signal strength data representing a signal field for at least one position on the floor map, identifying an asset within the layout of the location, determining at least one property that identifies the asset using one of a discovery process using a wireless protocol and an image processing application programming interface (API) configured to classify an image and detect individual within the image, updating the floor map with the asset and the at least one property, and communicating the asset and the at least one property to the remote computing device.
Abstract: Method and apparatus for color correction. Accordingly, the embodiments herein provide a method for color correction. The method includes receiving an input image frame. Further, the method includes determining at least one portion of the image frame for color correction. Further, the method includes generating a plurality of color channel histograms for the at least one portion of the image frame. Further, the method includes analyzing a pixel distribution in each of the color channel histograms to select a best color channel histogram from the plurality of color channel histograms. Further, the method includes correcting the color in the at least one portion of the image frame using the selected best color channel histogram. Further, the method includes producing a color corrected image frame. FIG. 3
The disclosure relates to system and method for performing data mining by parallel data clustering. In one embodiment, the method comprises generating an initial set of clusters from a plurality of existing node elements based on an object of the data mining. The plurality of existing node elements correspond to a plurality of processed data elements and the plurality of processed data elements relate to a plurality of unprocessed data elements. The method further comprises deriving a plurality of new node elements corresponding to the plurality of unprocessed data elements and based on one or more attributes of each of the plurality of unprocessed data elements, and generating a final set of clusters by processing the plurality of new node elements with respect to the initial set of clusters based on the object of the data mining. FIG. 3
METHODS AND SYSTEMS FOR IMPROVING FAULT TOLERANCE IN STORAGE AREA NETWORK

Abstract:
This disclosure relates generally to methods and systems for improving fault tolerance in virtual storage area network. In one embodiment, a virtual storage area network fault tolerance apparatus is provided. The apparatus comprises one or more hardware processors and one or more memory units storing instructions executable by the one or more hardware processors for identifying a fault associated with a hard drive included in a first disk array that includes one or more parity drives; determining that the one or more parity drives included in the first disk array are already in use; receiving an indication that one or more parity drives included in a second disk array are available for providing fault tolerance for the first disk array; and transferring data associated with the hard drive included in the first disk array for storage in the one or more parity drives included in the second disk array. FIG. 7
The Patent Office Journal No. 30/2018 Dated 27/07/2018

(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application :23/01/2017
(43) Publication Date : 27/07/2018

(54) Title of the invention : "AN IMPROVED PROCESS FOR PREPARATION OF ROTIGOTINE AND INTERMEDIATE THEREOF"

(57) Abstract :
The invention discloses an improved process for the preparation of Rotigotine or pharmaceutically acceptable salts thereof. The invention also discloses novel intermediate compound (2S)-N-(5-hydroxy-1,2,3,4-tetrahydro-naphthalen-2-yl)-N-propyl-2-thiophen-2-yl-acetamide of formula (II) or salt thereof as a useful intermediate in the preparation of Rotigotine.

No. of Pages : 27 No. of Claims : 12
Title of the invention: METHOD AND APPARATUS FOR CONTINUOUS MEASUREMENT OF BLOOD PRESSURE

Abstract:
ABSTRACT A continuous blood pressure monitoring apparatus comprising, a sensor unit to detect PPG signals from at least one of human body based arterioles, a filter unit for amplifying the detected PPG signals and to remove noise, a calibration unit to determine a blood pressure value from the filtered PPG signals, a display unit for displaying the blood pressure values on at least one of electronic display screen and a communication unit to transfer the blood pressure value wirelessly to a plurality of health care and monitoring units when the blood pressure value is abnormal. The calibration unit comprises a feature extraction module operative to detect a plurality of PPG signal characteristic points and a distance computation module operative to calculate distances between at least two sets of detected characteristic points. The characteristic points comprise minimum1, minimum2, peak1 and peak2 and the distance computation module determine distance between minimum1, minimum2, and peak1 and peak2.

No. of Pages : 21 No. of Claims : 8
ABSTRACT In one aspect, a smart inhaler comprises a canister, an external structure and an internal structure. The canister stores the drug, which is carved with a small opening for the controlled dispensation of drug. The external structure is an L-shaped configuration with an inlet and outlet passage and the internal structure which accommodates the canister. The external and internal structure constitutes the body of the smart inhaler. In an embodiment, the smart inhaler further comprise, a pair of temperature sensor, a pressure sensor, a humidity sensor, a dosage counter, a pair of infrared sensor and a control unit. The temperature sensors sense both the internal and external temperature of the smart inhaler and send the reading to the control unit. The pressure sensor, humidity sensor, and pair of infrared sensor are capable of sensing the pressure, amount of water vapor at the outlet passage and uniform outflow of dose from the canister. In another embodiment, the control unit processes the sensor data and monitors the operation of the smart inhaler.
A method and system for delivering recommendations to a user device is disclosed. The method comprises, receiving one or more acoustic beacons embedded in a digital audio stream being played on a second user device by the first user device, wherein each one of the one or more acoustic beacon comprises an identifier pertaining to the recommendation, deciphering the identifier from the each one of the one or more acoustic beacons by the first user device, communicating the identifier from the each one of the one or more acoustic beacons and data associated with the first user device to a recommendation server by the first user device and selectively delivering the one or more recommendations to the one or more applications installed on the first user device by the recommendation server.
A method for offline playback of multimedia files includes receiving an encrypted multimedia file and an encrypted file key from a server. The encrypted multimedia file is transmitted to a communication device in a vehicle based on a selection input by a control device. A request is received for a file key from the communication device. The encrypted file key is decrypted by using a device key to generate the file key. The file key is transmitted to the communication device for the offline playback of the multimedia file.
The present invention relates to a method and system for enabling identity management. In particular, the present disclosure relates to an identity management system (IMS) configured to count, identify, verify, enroll one or more identities in an image or video with an aim to eliminate repetitive beneficiaries, identity frauds and avoid subsidy leakages, enable attendance and identify beneficiaries. The IMS combines the user’s data and its already existing remitter organization information along with the input from various modules to make decisions for identity management. The invention empowers users with a real-time, multi-functional, contactless, inexpensive, inherently tamper-proof and easy to operate cloud based solution for identity management based on face recognition. Figures 3a & 3b
process for forming an aluminide coating system on a substrate. The process includes preparing a slurry including, by weight, about 35 to about 65% of an aluminum donor powder, the aluminum donor material comprising at least 35% aluminum, about 1 to about 25% of a binder, and balance essentially carrier. The slurry is applied to the substrate. The substrate is a nickel or cobalt based superalloy being essentially free of aluminum. The slurry is heated to form an aluminide diffusion coating including an additive aluminide layer and an interdiffusion zone disposed between the substrate and the additive aluminide layer.
The invention here is a method 100 for calibrating a noise measurement device using a pre-calibrated noise measurement device. The method 100 comprises at least of following steps firstly placing 101 the noise measurement device and the pre-calibrated noise measurement device in proximity of a noise source, secondly playing 102 a noise from a noise source, thirdly observing 103 an octave band levels related to the noise on the noise measurement device and the pre-calibrated noise measurement device, fourthly adjusting 104 an octave band level of the noise measurement device based on octave band level observed in the pre-calibrated noise measurement device and finally matching 105 the octave band level of the noise measurement device and pre-calibrated noise measurement device. Reference figure: (Figure 1)
METHOD OF DYNAMICALLY SWITCHING MODES OF MULTIPATH TRANSMISSION CONTROL PROTOCOL (MPTCP) IN COMMUNICATION DEVICE

ABSTRACT

Method of dynamically switching modes of multipath transmission control protocol (MPTCP) in communication device. Embodiments herein provide a method of dynamically switching modes of multipath transmission control protocol (MPTCP) in a communication device. The method includes determining that a first MPTCP mode is executed based on a predetermined parameter. Further, the method includes detecting an event associated with the predetermined parameter while the first MPTCP mode is executed. Furthermore, the method includes dynamically switching from the first MPTCP mode to a second MPTCP in response to the detected event. FIG. 1

No. of Pages: 40 No. of Claims: 23
The present invention relates to polymer stabilized liquid crystal device comprising a composition of carbon nanotubes tethered to polymer chains and liquid crystal, a method of preparing the composition and also a method of fabrication of the said composition in a polymer stabilized liquid crystal device.

No. of Pages : 25  No. of Claims : 18
The invention provides a system and method to orchestrate analytics for an industrial process. The system orchestrates the entire analytics solution right from provisioning resources to providing insights using the best in class tools, services and platforms available. The system functions are based on service level agreements, wherein the various resources are identified, deployed and validated in accordance with the service level agreements.

No. of Pages : 15 No. of Claims : 5
An oval-hole drum which is mounted on a cam-shaped hollow pipe is rotated and moved back and forth by a driving shaft. The rotation and the back and forth movement of the oval-hole drum makes the space between the oval-hole drum and the cam-shaped hollow pipe increases and decreases. Though the cam-shaped hollow pipe is diagonally partitioned and side openings made, the fluid is sucked in to the space from one end of the cam-shaped hollow pipe and is pumped out through other end. The crank pump is a positive displacement pump mechanism. The pumping process performs same as a piston pump but NR valves are not necessary. So the pump can be used in any speed variations. Fluids of any density can be pumped by using this mechanism. This mechanism can be used in pressure pumps, hydraulic pumps, compressors, etc. fig 1
**Title of the invention:** IMPROVED PROCESS FOR PREPARATION OF IVACAFTOR

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<td>24/01/2017</td>
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**Abstract:**

ABSTRACT The present application relate to an improved process for preparation of Ivacaftor.

No. of Pages: 18
No. of Claims: 5
Method and a computing device for providing privacy control in a surveillance video is disclosed. The computing device receives a surveillance video from a video capturing. The computing device also receives an authentication input key from a user of the computing device. Based on the authentication input key, the computing device identifies one or more region of interests (ROIs) in the video surveillance. The identified ROIs are masked by the computing device for providing the privacy control. In the present disclosure, the number of privacy levels achievable are unlimited and not fixed by ROIs at the video capturing device end. The increase in number of privacy levels do not require any changes or complexity/power increase in the video capturing device end and doesnâ€™t demand for increase in bandwidth from the video capturing device. Further, it doesnâ€™t deteriorate the video quality.

FIG. 1

No. of Pages : 27 No. of Claims : 16
Disclosed herein is a method and system for resolving one or more errors in an enterprise storage system. The resolution system receives one or more alerts from a management server configured in the enterprise storage system, wherein the one or more alerts are associated with an error in a storage array configured in the enterprise storage system. Upon receiving the one or more alerts, verifying one or more parameters associated with at least one alert from the one or more alerts, using data stored in an internal database configured in the resolution system. Further, storing a data associated with the one or more parameters in a memory, configured in the resolution system, after verifying the one or more parameters. Finally, resolving the error after identifying one or more corresponding root causes from the data associated with the one or more parameters, using one or more error resolving processes. FIG. 4

No. of Pages : 35 No. of Claims : 18
**Title of the invention:** DIETARY SUPPLEMENTS FOR INHIBITING PDE5 AND INCREASING CGMP LEVELS

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<td>LAILA NUTRACEUTICALS</td>
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**Abstract:**
The invention discloses synergistic compositions comprising extracts, fractions or pure compounds derived from at least two herbs selected from Punica granatum, Mangifera indica and Garcinia mangostana for inhibiting the expression/production/activity of Phosphodiesterase 5 (PDE5) enzyme or for increasing cGMP levels in a male subject. The invention further discloses a method of inhibiting the expression/production/activity of Phosphodiesterase 5 (PDE5) enzyme, increasing cGMP levels and sexual arousal, treating/ alleviating various aspects of male sexual dysfunction or impotence such as erectile dysfunction, loss of libido, or orgasm/ejaculation disorders in a male subject by using a suitable dose of synergistic composition comprising extracts, fractions or pure compounds derived from at least two herbs selected from Punica granatum, Mangifera indica and Garcinia mangostana.

No. of Pages: 37 No. of Claims: 14
Systems and methods for facilitating a common platform for multiple users working parallelly in an enterprise environment are described. When a request is received along with requirements for adding a new feature in an existing application, the system fetches contract information associated with the existing application. The system further provides the contract information to a first user and a second user. Post receiving the contract information and requirements, the first user creates one or more test cases and the second user develops a source code for the feature to be added into the existing application. The system executes the one or more test cases for testing the validity of the source code and further integrates the source code into the existing application. FIG. 1
Title of the invention : A SYSTEM AND A METHOD FOR ATTENUATING SOUND PRODUCED BY A VEHICLE

Abstract:
The present disclosure discloses a system for attenuating sound produced by a vehicle. The system comprises a navigation device associated with the vehicle for determining location details of the vehicle, a sound reduction unit provisioned in an exhaust assembly of the vehicle. The system further includes an Electronic Control Unit (ECU) of the vehicle communicatively coupled to the navigation device and the sound reduction unit. The ECU is configured to detect sound reduction location, by comparing the location details with a pre-defined location data and operate the sound reduction unit to attenuate sound produced by the vehicle when the sound reduction location is detected. The system of the present disclosure, attenuates sound intensity of the vehicle to a desired level by considering surrounding conditions of the vehicle, thus the vehicle noise may be automatically attenuated in the sound sensitive areas or locations. FIG.1
This disclosure relates generally to data processing, and more particularly, to methods and systems for improving user experience of an electronic device. In one embodiment, a hardware processor-implemented method for improving user experience design (UX) of an electronic device is provided. The method comprises retrieving, from a database, data representing a plurality of UX criteria and a plurality of alternative designs of the electronic device; generating, based on the retrieved data, a hierarchical search tree; receiving, in iterations, rankings among a subset of the plurality of UX criteria; determining aggregated UX criteria influence factor and aggregated alternative designs scores; configuring the search tree based on the aggregated UX criteria influence factors and aggregated alternative designs scores; determining, based on the search tree, an UX solution; and transmitting the determined UX solution to a product configuration system to enable the UX solution to be incorporated in the electronic device. FIG.
This disclosure relates generally to controlling navigation of a vehicle and more particularly to a system and method for controlling the navigation of the vehicle based on a distance between the vehicle and an obstruction. A system for controlling navigation of a vehicle is disclosed. The system comprises a processor and a memory communicatively coupled to the processor. The memory stores processor instructions, which, on execution, causes the processor to generate an embedded image comprising a pre-generated reference object image and an obstruction image. The processor further determines a reference-obstruction distance based on the embedded image, wherein the reference-obstruction distance is a distance between a reference object and an obstruction. The processor further determines a distance between the vehicle and the obstruction based on the reference-obstruction distance. The processor further controls navigation of the vehicle based on the distance between the vehicle and the obstruction. FIG. 1

No. of Pages: 24 No. of Claims: 16
STABLE AND SENSORIALLY SUPERIOR TOPICAL FORMULATION

The instant disclosure provides a stable and sensorially superior (non-patchy, non oily/greasy, easily spreadable etc.) topical preparation with zinc oxide and boric acid as skin beneficiary actives in the form of emulsion with the combination of thickeners, humectants, oil components (hydrocarbons, emollients, bodying agents) and non-ionic emulsification system at a particular concentration. The present disclosure also relates to a process of preparation stable topical formulation.

No. of Pages : 20  No. of Claims : 12
**Title of the invention:** CLOUDING EFFECT - WHILE INFRASOUND IS APPLIED ON CLOUDS, IN DESCEND TO THE PLACE OF SOUND SOURCE.

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2) JOAH GEORGE THOMAS

**Abstract:**
In this project clouds can be brought down using a method of sending sound waves. In some situations, it could be rain that falls down.

No. of Pages: 21 No. of Claims: 1
(54) Title of the invention : A METHOD OF OPERATING A FUEL METERING UNIT IN A FUEL INJECTION SYSTEM

(57) Abstract :
A method of operating a fuel metering unit (10) in a fuel injection system is disclosed. The method comprises receiving real-time pressure, from a pressure sensor in a common rail, by a controller, when the fuel metering unit (10) is operated at the zero-delivery-state, determining pressure variation by comparing the real-time pressure with a pre-defined pressure. The pressure variation occurring due to flow of fuel into the common rail through the secondary-flowpath when the fuel metering unit (10) is operated at the zero-delivery-state and altering the current supplied to the fuel metering unit (10), by the controller, for closing the secondary flowpath, until the pressure variation is within a threshold range. fig-2
A temperature controlling device 10 is disclosed. The temperature controlling device 10 comprises at least one temperature sensor 18 to sense a temperature inside the refrigerator and a light source 14 to illuminate an interior portion of the refrigerator and a temperature control unit 16 to control temperature of the refrigerator. The temperature controlling device 10 comprises a proximity sensor 12 to detect a position of a door of the refrigerator and a connector 20 to connect the temperature controlling device with at least one component of the refrigerator and a controller 19 to receive an input and to control at least one component of the refrigerator. At least one temperature sensor 18, the light source 14, the temperature control unit 16, the proximity sensor 12, the connector 20 and the controller 19 are integrated on the temperature controlling device 10. Reference figure: Figure 1 & Figure 3.
Method of Generating and Transforming Test Data and a System Therefor

The present disclosure relates to a method and system for generating and transforming test data. In one embodiment, a user query is received in natural language and parsed to generate keywords using lemmatization. Based on the generated keywords and filter conditions in the user query, a data source specific executable query suitable for data sources is generated and executed against each data source to generate test data. The method determines if there are any missing test data in the generated test data and creates missing test data based on the data type, number of records required. The method also automatically transforms the generated test data into corresponding test data suitable to the requirements of a target system. Thus, the system generates test data specific to different data sources based on query provided in natural language and transforms the generated test data to comply with the requirements of the target system. Figure 3
Skin aging is one of the major concerns of present day and is a complex process. The present disclosure provides a composition comprising serine and arginine, which at particular w/w ratios, promotes collagen production. Enhanced collagen would mitigate the fine lines and wrinkles giving the skin a more youthful look.

No. of Pages: 29 No. of Claims: 10
Title of the invention: ELECTRICAL SYSTEM

Abstract:
The present subject matter relates to an electrical system (300). In an aspect, the present subject matter relates to regulating a voltage across a first energy storage device (315) of the electrical system (300) at different operating speeds and loads of a AC generator (305), without shunting windings of the AC generator (305). The electrical system (300) includes an embedded controller (330) to operate the electrical system (300) in either a first mode or a second mode. In the first mode, the controller (330) dynamically computes inductance of the windings to boost the voltage across a second energy storage device (325) to an operating voltage of the first energy storage device (315). In the second mode, controller (330) reduces the voltage across the second energy storage device (325) to the operating voltage to charge the first energy storage device (315).

No. of Pages : 38 No. of Claims : 20
Title of the invention: A BUSINESS MODEL FOR ECOMMERCE WEBSITE TO SHARE COMMISSION ON SALE OF PRODUCT BY WEBSITE ADMINISTRATOR/OWNER WITH TWO PARTICIPATING USERS. THIS MODEL IS TERMED AS MUTUAL SHOPPING MODEL.

Abstract:
This patent describes a method of sharing the product sale commission of a marketplace C2C, B2C and B2B ecommerce website with two participating users of the same website in order to generate more sales. This strategy persuades users of the website to involve themselves in marketing products of the website since mutual benefit can be claimed through this model. This model is termed as Mutual Shopping model since all three participants; website Administrator, User A and User B are mutually benefited through successful sale of a product. Commission set for sale of a product is shared with participants User A and User B through channel of the website Administrator.

No. of Pages: 12 No. of Claims: 3
(54) **Title of the invention**: PROCESS FOR EXTRACTION OF EXOPOLYSACCHARIDE AND CAROTENOIDS IN SINGLE FERMENTATION

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<tr>
<td>(33) Name of priority country</td>
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<td>Address of Applicant: Yenepoya University, University Road, Deralakatte, Mangalore - 575018, Karnataka, India</td>
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<td>(39) Name of Inventor</td>
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<td></td>
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<tr>
<td></td>
<td>3)POTHEN, Priyanka</td>
</tr>
</tbody>
</table>
| (57) **Abstract**:
| The present disclosure provides a process for the extraction of exopolysaccharide (EPS) and carotenoids from a single microorganism and in a single fermentation. The EPS secreted into the growth medium can be extracted using a hydrophilic fluid medium and the cell-bound carotenoids can be isolated using a polar fluid medium. The EPS extracted exhibit emulsifying, cell proliferative, wound healing and cytotoxic activities. The carotenoids extracted exhibit anti-oxidant activity. |

No. of Pages: 30  No. of Claims: 9
Title of the invention: IMMOBILIZER FOR A VEHICLE

Abstract:
The present invention provides a Biometrics based immobilizer system which is integrated with Transistor Controlled Ignition (TCI) of a two-wheeled vehicle. Enrolment of a new fingerprint is facilitated by means of sequential operation of switches available in the two-wheeled vehicle. Switch 1 and switch 2 are operated in specified sequence to switch the system to learning mode. The sensor then captures fingerprint image (1) and stores the fingerprint pattern. The stored pattern is used to validate captured image by comparison (5) and thus authenticate the rider. The system is designed predominantly to suit two-wheeler automotive environment, and the adaptations penetrate both mechanical as well as electrical aspects. This system shall be used in motorcycles, scooters, and mopeds where the rider has most of the controls within an arm's length.
The present invention deals with various food grade chemical treatment of barnyard millet bran to reduce the antinutritional factors. Barnyard millet bran subjected to treatment 3 (Soaked in hot water) has shown greater reduction in antinutritional factors, when compared to other treatments. Hence it was selected for the development of bread by adding 5%, 10%, 15%, 20%, 25% and 30% of bran by replacing the oats flour along with all other required ingredients. The prepared bread was analyzed for its textural, consumer acceptability and glycemic index. The formulation of bread at different levels of bran incorporated ensures desirable texture properties and good consumer acceptability equivalent to standard bread with low glycemic index. The novelty of the formulation ensures the low glycemic index of the barnyard millet bran incorporated bread, a good diabetic supplement.
The present invention relates to a floorboard (20) and a frame structure (1) for a two-wheeled vehicle (10). The floorboard is disposed in a step-through portion (3S) of the frame structure (1) of the two-wheeled vehicle (1). The footboard (20) comprises of cut-outs (42) formed in it through which a set of load bearing members (52, 53) protrude out above a top surface (25) of the footboard (20). <To be published with Fig. 5>

No. of Pages : 25 No. of Claims : 10
Title of the invention: A TWO-WHEELER WITH LOW-SLUNG POWER UNIT

International classification: B62J17/06; B62J9/00; B62K19/46

Priority Document No: NA
Priority Date: NA
Name of priority country: NA

International Application No: NA
Filing Date: NA

International Publication No: NA
Filing Date: NA

Patent of Addition to Application Number: NA
Filing Date: NA
Divisional to Application Number: NA
Filing Date: NA

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Name of Inventor: 1) JONNALA VEERA REDDY 2) MOHAMMED BASHA SHAIK

Abstract: The present subject matter provides a two-wheeler or three-wheeler (100) with a low-slung power unit (205). A structural member (105) of the two-wheeler or three-wheeler defines a step-through portion (ST). A rear wheel (145) is functionally coupled to the low-slung power unit (205, 210) and the rear wheel (145) is disposed rearward to the step-through portion (ST). One or more auxiliary power source(s) (305, 310) supported by the structural member (105). The low-slung power unit (205) is mounted to the structural member (105) and is disposed below the step-through portion (ST). The one or more auxiliary power source(s) (305, 310) includes a first set of auxiliary power source(s) (305, 310) disposed below the seat assembly (155). The two-wheeler or three-wheeler (100) provides optimum load carrying space and provides drivability. <To be published with Fig. 1 (b)>
Title of the invention: A TWO-WHEELED ELECTRIC VEHICLE

Abstract:
The present subject matter provides a two-wheeled or three-wheeled electric vehicle (100). A structural member (105) comprises a first inclined portion (105B), a first load bearing portion (105C) extending substantially in a longitudinal direction (F-R), and a second inclined portion (105D). A traction motor (205) hub mounted to at least one wheel (110, 145) of the vehicle (100). The electric vehicle (100) includes one or more auxiliary power source(s) (310A, 310B, 305AA, 305AB, 305BA, 305BB) electrically connected to the traction motor (205). A primary set of auxiliary power source(s) (305AA, 305AB, 305BA, 305BB) is supported by the first load bearing portion (105C). The first load bearing portion (105C) is disposed substantially along a lateral centre (C) of the electric vehicle (100). The electric vehicle (100) provides a compact layout with load accommodation portion at step-though portion defined by the structural member (105). Further, the electric vehicle (100) improved drivability and stability.
ABSTRACT In one aspect of the present invention, a system comprises a set of smart glove devices, a communication network, a set of mobile devices, and a server and a database. The set of smart glove devices are capable of capturing the gesture information through sensors. The sensors are mounted on the fingers, detecting the movement of the fingers. The movement of fingers in a particular manner constitutes a gesture. The communication network connects the set of smart glove devices with mobile devices and the server. The set of mobile devices are configured with a mobile application, monitoring and receiving the gesture information from set of smart glove devices. The server is configured to process and update gesture information and share gesture updates with the smart glove devices. The database is connected to the server which stores the gesture information, voice and language translations relating to gesture information. In an embodiment, the set of sensors are flex sensors.
**Title of the invention:** METHOD AND ELECTRONIC DEVICE FOR MANAGING OPERATIONS AND FUNCTIONALITY OF APPLICATIONS

**Abstract:**

ABSTRACT â€œMethod and electronic device for managing operations and functionality of applicationsâ€• Embodiments herein provide a method for managing operations of an electronic device. The method includes detecting, detecting, by a functionality management unit, an input performed on an interactive data item associated with a first application displayed on a display screen of the electronic device, wherein the interactive data item is associated with at least one functional data item associated with at least one second application. Further, the method includes performing, by the functionality management unit, at least one operation corresponding to the at least one functional data item associated with the at least one second application based on the interactive data item.

FIG. 2

No. of Pages : 49 No. of Claims : 20
The invention provides wind power generation system for rail coaches. The invention specifically uses bleeding high velocity air due to moving train by means of venturi inlet (1) and directing it through venturi pipes (26) to drive an impeller (4). The impeller thereby driving an alternator (3) to generate variable AC power which is processed to generate regulated DC power for display of various parameters on board on a display in the coach. The venturi pipe is made from lightweight materials selected from alloy of aluminum, 304 grade steel which is positioned so as to undergo the motion caused by the air supplied through the venturi outlet combined arrangement housed underneath the coach.

No. of Pages : 12 No. of Claims : 6
HAIR GROWTH RETARDANT COMPOSITION

The present subject matter provides to a cosmetic composition. More specifically, the subject matter provides a hair growth retardant composition comprising dihydromyricetin as an inhibitor; at least one oxidation preventing agent wherein the oxidation preventing agent is selected from: an acidifying agent, an antioxidant, a chelator, and a combination thereof; and a cosmetically acceptable vehicle. The subject matter further provides, the composition comprising any one or more of Gymnema sylvestre and Narcissus tazetta bulb extract as inhibitors.

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Name of Inventor:
1) RAGHAVACHARI, Rajan

No. of Pages: 33 No. of Claims: 14
(12) PATENT APPLICATION PUBLICATION
(21) Application No.201741002386 A
(19) INDIA
(22) Date of filing of Application :21/01/2017
(43) Publication Date : 27/07/2018

| (54) Title of the invention : SKIN CARE COMPOSITION |
| (51) International classification :C14C 15/00 |
| (31) Priority Document No : NA |
| (32) Priority Date : NA |
| (33) Name of priority country : NA |
| (86) International Application No : NA |
| (87) International Publication No : NA |
| (61) Patent of Addition to Application Number : NA |
| (62) Divisional to Application Number : NA |

| (71) Name of Applicant : |
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| (72) Name of Inventor : |
| 1) RAGHAVACHARI, Rajan |

(57) Abstract :
ProdyoVidhi Ref.: YLG.0014.IN ABSTRACT SKIN CARE COMPOSITION The present subject matter provides a cosmetic skin care composition. The composition comprises dihydromyricetin, niacinamide, and a pH modifier on a cosmetically acceptable vehicle. The pH modifier is configured to adjust pH of the cosmetic composition at a level to control discoloration of the dihydromyricetin and chemical degradation of the niacinamide. ProdyoVidhi Ref.: YLG.0014.IN

No. of Pages : 29 No. of Claims : 16
The present invention relates to a process for the preparation of optically active alkyl amine compounds.
This invention relates to compositions obtained from plants and/or extracts thereof, and their use for the treatment of subjects infected with viruses, particularly human immunodeficiency virus (HIV), Hepatitis A Virus (HAV) and Hepatitis B Virus (HBV). More specifically, the compositions of the present invention are derived from a combination of various medicinal plants that have a long history of human consumption. HIV is the virus known to cause acquired immune deficiency syndrome (AIDS) in humans and AIDS presents special problems to the medical community which the present invention addresses. Furthermore, HAV is the cause of infectious or epidemic hepatitis transmitted by the fecal-oral route and HBV causes infection of the liver including liver failure and cancer. The compositions as described in the present invention are obtained through techniques that have been demonstrated with outstanding efficacy for treatment of HIV, Hepatitis A and B Virus. Furthermore, the present invention provides additional ingredients that form a novel plant composition that exhibit properties for the treatment and prevention of Acquired Immune deficiency syndrome (AIDS). The said additional ingredients help in treatment and prevention of secondary infections and complex opportunistic diseases that infect the HIV infected patients whose immunity have been compromised and also for the treatment and prevention of secondary infections in the HIV infected patients. The present invention provides a cost effective and effective complete treatment for patients infected with HIV, HAV, HBV and AIDS.
A METHOD FOR EARLY CHILDHOOD INTERVENTION TO IDENTIFY THE POTENTIAL AREA OF INTEREST OF A CHILD

Title of the invention:

Abstract:

The present invention relates to a method to identify the potential area of interest of a child during early childhood. The method comprises the steps of providing training to the child in at least one of a core domain area through a questionnaire, activity and/or a game. The method measures the competency level of the child in at least one of the core domain area and predicts the potential core career interest area of the child using the measured competency level of the child in the core domain area. Thus, method of the present invention provides training to the child in at least one of the core domain area including a verbal linguistic domain, mathematical and logical domain, visual and spatial domain, bodily and kinesthetic domain, interpersonal domain, intrapersonal domain, musical domain, naturalistic domain, and existential domain.
An antibacterial composition effective against a fish pathogen Aeromonas salmonicida is provided. The composition includes (a) 10% by wt. of a Lupeol, (b) 60% by wt. of sodium caseinate, (c) 10% by wt. of xanthum gum and (d) 20% by wt. of glycerol. In one example, the Lupeol is obtained from Padina gymnospora. The composition is formulated as a fish feed in the shape of beads for controlling the infection caused by Aeromonas salmonicida in aquaculture.

No. of Pages : 15 No. of Claims : 8
Title of the invention: POLYMORPHIC FORMS OF (2E)-N-(4-((3-CHLORO-4-((PYRIDIN-2-YL)METHOXY)PHENYL)AMINO)-3-CYANO-7-ETHOXYQUINOLIN-6-YL)-4-(DIMETHYLAMINO)BUT-2-ENAMIDE MALEATE SALT AND ITS PROCESS FOR PREPARATION THEREOF

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<td>(62) Divisional to Application Number</td>
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Name of Applicant:
1) MSN Laboratories Private Limited, R&D Center
Address of Applicant: Plot No. 12, Phase-IV, Sy No. 119 to 140, 258, 275 to 280, IDA, Pashamylaram (Vil), Patancheru (Mdl), Medak (Dist), Telangana, India, 502307 Telangana India

Name of Inventor:
1) Srinivasan Thirumalai Rajan
2) Sajja Eswaraiah
3) Sagyam Rajeshwar Reddy
4) Rangineni Srinivasulu

Abstract:
The present invention relates to novel polymorphic forms of (2E)-N-(4-((3-chloro-4-((pyridin-2-yl)methoxy)phenyl)amino)-3-cyano-7-ethoxyquinolin-6-yl)-4-(dimethylamino)but-2-enamide maleate salt and its process for preparation thereof. The chemical structure of said compound is represented by the following formula (I)

No. of Pages: 30 No. of Claims: 10
The present invention relates to the amorphous form of carbamic acid, \(\text{N,N}^\prime-([\text{L,1-biphenyl}-4,4^\prime\text{-diylbis[1H-imidazole-5,2-diyl-2,1-pyrrolidinediy]}(1S)-1-(1-methylethyl)-2-oxo-2,1-ethanediyl]]\text{bis-},C,C^\prime-\text{dimethyl ester oxalic acid (1:2)}\) and its process for preparation thereof.

Name of Applicant:
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Address of Applicant: PLOT. 12, PHASE-IV, SY. NO.119 TO 140, 258,275 TO 280, IDA, PASHAMYLARAM (VIL) PATANCHERU (MDL), MEDAK (DIST), TELANGANA, INDIA 502 307, Telangana India

Name of Inventor:
1) Srinivasan Thirumalai Rajan
2) Sajja Eswaraiah
3) Ghojala Venkat Reddy
4) Sagyam Rajeshwar Reddy
5) Porala Subbanarasimhulu
6) Boge Rajesham
The present invention relates to novel polymorphic forms of (2E)-N-(4-((3-chloro-4-((pyridin-2-yl)methoxy)phenyl)amino)-3-cyano-7-ethoxyquinolin-6-yl)-4-(dimethylamino)but-2-enamide and process for the preparation thereof. The chemical structure of said compound is represented by the following formula (I).

No. of Pages : 29 No. of Claims : 10
(54) Title of the invention : NOVEL PHARMACEUTICAL FORMULATIONS OF CANAGLIFLOZIN

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(57) Abstract :
Abstract Present invention relates to pharmaceutical formulations comprising amorphous canagliflozin and one or more pharmaceutically acceptable excipients; and process for preparing such pharmaceutical formulations.

No. of Pages : 14 No. of Claims : 9
The present invention relates to an improved process for the preparation of 5-[[2S)-2-amino-3-[4-(aminocarbonyl)-2,6-dimethylphenyl]-1-oxopropyl][[(1S)-1-(4-phenyl-1H imidazol-2-yl)ethyl]amino]methyl]-2-methoxybenzoic acid compound of formula-1, represented by the following structural formula:

No. of Pages : 30 No. of Claims : 10
Title of the invention: POLYMORPHS OF 5-[[[(2S)-2-AMINO-3-NO-3-[4-(AMINOCARBONYL)-2, 6-DIMETHYLPHENYL]-OXOPROPYL][(1S)-1(4-PHENYL-1H-IMIDAZOL-2-YL)ETHYL]AMINO]METHYL]-2-METHOXYBENZOIC ACID COMPOUND OF FORMULA-1, REPRESENTED BY THE FOLLOWING STRUCTURAL FORMULA:

No. of Pages: 23 No. of Claims: 10
**Title of the invention**: GEAR GRINDING MACHINE

| (51) International classification | :B23F |
| (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. M. Manikandan
3. B. Muralidhar
4. S. S. Nagaraj

**Abstract**:
The invention relates to a gear grinding machine. More particularly, the present invention relates to a grinding machine for grinding of a gear, which has direct power transmission. The gear grinding machine further comprises of bed [1], column [2], direct driven rotary table [9], radial feed drive [10], steady column [11], dresser slide [12], basic rack profile grinding wheel [17] and controller. The CNC controller has open architecture and user friendly screens. Advantageously, the present invention improves the accuracy of gears while grinding. Figure 2

No. of Pages: 31
No. of Claims: 16
(54) Title of the invention: **PROCESS FOR THE PREPARATION OF ROXADUSTAT AND ITS INTERMEDIATES**

| (51) International classification | :A61K | (71) Name of Applicant: |
| (31) Priority Document No | :NA | 1) Dr. Reddy’s Laboratories Limited |
| (32) Priority Date | :NA | Address of Applicant: 8-2-337, Road No. 3, Banjara Hills |
| (33) Name of priority country | :NA | Hyderabad Telangana India |
| (86) International Application No Filing Date | :NA | (72) Name of Inventor: |
| (87) International Publication No | :NA | 1) Srinivas Oruganti |
| (61) Patent of Addition to Application Number Filing Date | :NA | 2) Bhaskar Kandagatla |
| (62) Divisional to Application Number Filing Date | :NA | 3) Vilas Hareshwar Dahanukar |

(57) Abstract:

Abstract The present invention provides the process for the preparation of Roxadustat and its intermediates.

No. of Pages: 16 No. of Claims: 6
Title of the invention: ORGANIC SEMICONDUCTOR MOLECULES FOR SINGLET FISSION

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Name of Inventor:
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2) Krishnapriya K C
3) Puttaraju Boregowda

Abstract:
The invention relates to organic semiconductor molecules capable of singlet fission and a method for obtaining the organic semiconductors for singlet fission for use in devices like solar cells.

No. of Pages: 35
No. of Claims: 7
Title of the invention: METHODS AND SYSTEMS FOR AUTOMATIC & INTERACTIVE SUGGESTIONS FOR VOICE COMMANDS BASED ON USER ACTIONS

Abstract:
Methods and systems for suggesting voice commands for a user in an electronic device. A method includes determining a frequently used at least one action by the user in the electronic device. Further, the method includes determining the at least one voice command corresponding to the frequently used at least one action. Further, the method includes suggesting the determined at least one voice command to the user based on the frequently used at least one action. FIG. 3

No. of Pages : 23 No. of Claims : 13
Abstract:
This disclosure relates to managing user density in a virtual desktop infrastructure. The method includes installing plurality of virtual machine agents on plurality of virtual machines and at least one hypervisor agent on at least one hypervisor host. The method includes configuring each of plurality of virtual machine agents and each of the at least one hypervisor agent to capture virtual machine management data from the plurality of virtual machines and the at least one hypervisor host. The method includes analyzing virtual machine management data to determine a plurality of sets of common applications. The method includes creating a plurality of dedicated virtual desktops and a plurality of session sharable virtual desktops. One of the plurality of sets of common applications is installed on one of the plurality of session sharable virtual desktops and at least one unique application is installed on one of the plurality of dedicated virtual desktops. FIG. 2
This disclosure relates to system and method for determining service prioritization in virtual desktop infrastructure (VDI). In one embodiment, the method comprises receiving the plurality of service requests from a plurality of virtual desktop (VD) components distributed across one or more VD sites, and, for each of the plurality of service requests, determining a user experience index for a service request based on a weightage tree for a VD component initiating the service request and a weightage of a VD site comprising the VD component initiating the service request. The method further comprises prioritizing the plurality of service requests based on the user experience index for each of the plurality of service requests. Figure 3.

No. of Pages : 39 No. of Claims : 16
Title of the invention: AN INTERNET OF THINGS FRAMEWORK FOR AUTOMATION AND REMOTE CONTROL OF HOME APPLIANCES

Abstract:
A system, method and an apparatus for automation and remote control of home appliances is disclosed. Internet of Things devices communicates with each other without need of human-to-human interaction nor human-to-computer interaction. Such systems can work cognitively and make decisions without human involvement. Internet of Things when implemented properly can solve a wide range of global problems such as natural disasters, pollution and even manage home appliances wirelessly. Home automation is carrying out the common processes of home appliances without the need of human interaction. This invention makes home automation a reality using raspberry pi and a mobile phone that remotely controls home appliances from the internet. A Home automation mobile application and an automation website script also been developed for implementation of the internet of things framework.

No. of Pages : 13 No. of Claims : 5
Example for generating an outline preview of a printed medium are described. In one example, presence of a printed medium atop a supporting pane fitted onto an enclosed housing of a scanning system is ascertained using a plurality of sensors arranged in an array beneath the supporting pane. Thereafter, position of the printed medium on the supporting pane based on proximity of the printed medium with each of the plurality of sensors, is estimated. Based on the estimation, the position of the printed medium in relation to a specified scan area setting of a printable format is correlated. The 10 scan area setting may be considered as indicative of size of a target medium on which the printable format is to be printed. An outline preview of the printed medium, with respect to an outline of the target medium based on the correlated position of the printed medium, is generated.
A circular stapling device is described that is particularly suited for creating stomas. The circular stapling device includes two tool assemblies. The first tool assembly is adapted to create a reinforced incision in tissue, e.g., the rectus sheath, through which a vessel portion, e.g., colon, small intestine, etc. can be pulled through during a surgical procedure. The second tool assembly is adapted to attach a stomal sleeve within the vessel portion such that the stomal sleeve extends from the stoma.
The object of the invention is achieved by a client-server system for providing contents with embedded actions. The client-server system has a client device and a server device, where the client device is provided with a selection of input unit which is adapted to receive more than one pieces of contents and one or more action items to be embedded into the contents and a client processor. The action items are selectable using a selection input and on selection a micro application related to the action item is executed in the client processor. The server device has a server processor, wherein the client processor and the server processor are adapted to receive the contents and the action items from the input unit, process the contents along with the action items by integrating the contents with the actions in a layered fashion so as to generate an integrated view and store the integrated view in a memory device.
**Title of the invention:** SYSTEMS AND METHODS FOR PROCESSING DATA IN SECURITY SYSTEMS USING PARALLELISM, STATELESS QUERIES, DATA SLICING, OR ASYNCHRONOUS PULL MECHANISMS

| International classification | Priority Document No | Priority Date | Name of priority country | Name of Applicant: 1) HONEYWELL INTERNATIONAL INC.  
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**Abstract:**

ABSTRACT Systems and methods for processing data using parallelism, stateless queries, data slicing, and/or asynchronous pull are provided. Some methods can include each of a plurality of data pull devices of a central server retrieving data from a respective one of a plurality of regional server databases, wherein a number of the plurality of data pull devices equals a number of the plurality of regional server databases, and wherein the plurality of data pull devices function asynchronously. Additionally or alternatively, some methods can include each of a plurality of threads of a central server retrieving a predetermined size of data from a plurality of regional server databases, wherein the plurality of threads are stateless so that any of the plurality of threads can retrieve the data from any of the plurality of regional server databases.

No. of Pages: 16 No. of Claims: 15
This invention concerns a clamp gripper for robotic arm, designed to grab light items, petri dish for instance, and comprising: a support case (99), two gripping arms (2, 3) mobile with respect to the support case, a drive mechanism that actuates the two gripping arms and comprising an operating member (10) which acts on only one gripping arm, named « operating arm » (2a), that acts on the other gripping arm (3) by means of a connection mechanism that induces a simultaneous movement in the opposite direction with respect to the other arm (3). The operating arm is actuated by means of a compression spring (15) whose distortion is measured to limit the clamping force exerted.
ABSTRACT PROCESS AND DEVICE FOR COLONY COUNTING

This invention refers to a device (6) comprising: a storage device (2) comprising locations arranged to receive samples, these samples comprising a culture medium support arranged to receive a plated culture medium, a handling system (7) arranged to convey several samples to analyze from several locations to an analysis area (5), an imaging device (8) arranged to acquire a plurality of images of the analysis area which is arranged to receive several samples to analyze, a processing unit configured to implement, for each sample to analyze: an detection step to detect the presence of colonies by analyzing an image of the plurality of images of a sample to analyze, a determination step to determine the number of colonies present in a sample to analyze.
ROUTING SWITCH FOR NETWORK BASED TRANSACTION INSTRUCTIONS

According to a first aspect of the present invention, there is provided a switch configured to route a network based electronic transaction instruction, the routing switch comprising: an input port; a processor; and at least one memory including computer program code; the at least one memory and the computer program code configured to, with the at least one processor, cause the routing switch at least to: receive, through the input port, payment facilitation data generated from a purchase made at a merchant; receive, through the input port, details of a funding source selected to pay for the purchase; generate the electronic transaction instruction in response to receipt of the payment facilitation data; and route the electronic transaction instruction to either an issuer or an acquirer, depending on the selected funding source and analysis of the payment facilitation data, the issuer being a bank for the funding source and the acquirer being a bank for the merchant, wherein routing of the electronic transaction instruction to the issuer causes pushing of funds from the issuer to the acquirer and routing of the electronic transaction instruction to the acquirer causes pulling of funds from the issuer to the acquirer. There is also disclosed a method for routing an electronic transaction instruction determining such a flow of funds.
An oil supply system for supplying at least one assembly of an internal combustion engine or a turbomachine with oil, with an oil reservoir (10), advance line (11), via which the oil can be discharged from the oil reservoir (10), with at least one oil pump (12), with a return line (13), via which the oil can be returned into the oil reservoir (10), and with an oil cooling device (14), wherein via the oil cooling device (14) an actual temperature of the oil in the reservoir (10) can be regulated to a defined set point temperature. Fig. 4

No. of Pages : 25 No. of Claims : 13
**Title of the invention:** ORK CELL FOR A PRODUCTION ROBOT

**Title of the invention:** ORK CELL FOR A PRODUCTION ROBOT

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<td>Address of Applicant: Frachtstrasse 10-16, Bielefeld 33602, Germany</td>
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<tr>
<td>(36) Name of Inventor</td>
<td>1) BESIK, Martin</td>
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<td>(42) Name of Inventor</td>
<td>2) KOUT, Radovan</td>
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<td>(43) Date of filing of Application: 19/01/2018</td>
<td>3) MALÅ•, Jiri</td>
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<td>4) MASILKO, Petr</td>
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<td>5) SULA, Vaclav</td>
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**Abstract:**

Work cell for a production robot 2, which is arranged on a base module 17 inside a modular work cell, wherein the work cell 1 has wall elements, a control cabinet 3 and an access 11, and a supply unit 16 for workpieces arranged between the access 11 and the production robot 2, wherein during transport, the base module 17 of the at least one production robot 2, the control cabinet 3, the feed unit 16 and the access 11 form a mechanically contiguous and electrically interconnected transport assembly 21, from which the wall elements can be transported separately.

**No. of Pages:** 17  **No. of Claims:** 14
Title of the invention: COMPRESSION TRAIN INCLUDING ONE CENTRIFUGAL COMPRESSOR AND LNG PLANT

(51) International classification: F04D27/02, F04D19/02
(31) Priority Document No: 102017000007473
(32) Priority Date: 24/01/2017
(33) Name of priority country: Italy
(86) International Application No: NA
(87) International Publication No: NA
(61) Patent of Addition to Application Number: NA
(62) Divisional to Application Number: NA

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Abstract:
Compression train for a natural gas liquefaction process. The compression train comprises a driver machine and only one centrifugal compressor machine driven in rotation by said driver machine; the compressor is configured to compress a refrigerant gas with a molecular weight less than 30 g/mol from a suction pressure to a discharge pressure; the ratio between discharge and suction pressures is higher than 10, preferably higher than 12, more preferably higher than 15. LNG plant comprising one or more compression train according to the present invention.

No. of Pages: 26
No. of Claims: 20
A warp knitting machine having a first knitting tool assembly (1) which has a multiplicity of first knitting tools (2) that are movable in an identical manner, and a second knitting tool assembly (8) is specified, wherein the first knitting tool assembly (1) and the second knitting tool assembly (8) are movable relative to one another during a loop-formation cycle. The intention is to be able to provide a warp knitting machine with high productivity. To this end, it is provided that the first knitting tools (2) are supported on the second knitting tool assembly (8) at least in part of the loop-formation cycle. Fig. 1
The invention relates to a device (12) for attaching a control unit (14), preferably an electronic engine control unit, to a component (16) of an internal combustion engine (10). The device (12) comprises a first connecting component (18) which is designed in order to be attached to the component (16) of the internal combustion engine (10), the first connecting component (18) comprising a first fluid duct (32). The device (12) furthermore comprises a second connecting component (20), which, via at least one damping element (22), is attached, spaced from the first fluid duct (32), to the first connecting component (18) and is designed for mounting the control unit (14). (Figure 2)
Title of the invention: KNITTING TOOL BAR AND METHOD FOR FITTING KNITTING TOOLS

A knitting tool bar (1) having knitting tools (5) which are disposed in receptacle grooves (4) of a knitting tool receptacle (3), and having a lid assembly (11) which secures the knitting tools (5) in the receptacle grooves (4) is specified, wherein each knitting tool (5) has a rear side (6) which is adjacent to a groove base (7), a front side (8) which protrudes from the receptacle groove (4), and two flanks (9, 10) which interconnect the front side (8) and the rear side (6), the lid assembly (11) acting on the front side (8). The intention is to be able to achieve a high load bearing capability with simple means. It is provided to this end that the knitting tools (5) by way of the front side (8) thereof protrude in each case into one lid groove (13). Single figure.

No. of Pages: 13 No. of Claims: 10
A network (1) is described. The network comprises a plurality of electronic devices (9) in data communication relationship with a data collection unit (4) having a wireless network access point. Moreover: - each electronic device(9) comprises a wireless communication unit (13; 13.j) featuring a station mode function (SM) and an access-point mode function (APM); - each electronic device (9) of a first set of electronic devices is directly linked, through the station mode function (SM) of the respective wireless communication unit (13), to the wireless network access point of the data collection unit (4). (Fig.2)
Title of the invention: SYSTEMS AND METHODS FOR A SOFT SWITCHING DC-DC CONVERTER

Abstract:
ABSTRACT SYSTEMS AND METHODS FOR A SOFT SWITCHING DC-DC CONVERTER Systems and methods are provided for a soft switching topology for a direct current (DC)-DC converter. The systems and methods determine an operational status of an electric motor, and activate at least one of an upper or lower first or second semiconductor switches based on an operation of the electric motor. The first and second switching circuits are conductively coupled to a power inverter circuit. The systems and methods include deliver an adjusted voltage to one of the power inverter circuit or a power circuit based on the operational status of the electric motor.

No. of Pages : 43 No. of Claims : 20
Title of the invention: COAXIAL GEAR MECHANISM WITH POSITIVE TRANSMISSION RATIO

Abstract:
Gear mechanism (1), in particular coaxial gear mechanism, having an internal gear (3) with an inwardly directed toothing (5), a tooth carrier (11) which is arranged coaxially with respect to the internal gear and in which a multiplicity of teeth (7) for engaging with the toothing (5) are accommodated, wherein the teeth (7) are mounted radially displaceably in the tooth carrier (11), a drive element with a profiling (22) for radially driving the radially displaceably mounted teeth (7), wherein the profiling (22) has, over its circumference, at least two elevations, wherein the gear mechanism is constructed such that there is a positive transmission ratio between a drive via the drive element and an output via the tooth carrier (11). (Fig. 1)
The present invention provides a composite film containing polyethylene terephthalate, which comprises inorganic mineral powder, polyethylene terephthalate, an auxiliary plastic, and an auxiliary agent. The present invention also provides a method of preparing the composite film, which comprises internally mixing inorganic mineral powder, polyethylene terephthalate, an auxiliary plastic, and an auxiliary agent to form a composite soft material; configuring the composite soft material to be in a sheet shape; and stretching the composite soft material to form a composite film.
Aspects of the present disclosure generally relate to a conditional utilization of reference signals for managing communications of one or more user equipment (UE) in a wireless communications system. The described aspects include receiving a transmission having a first subframe slot and a second subframe slot at least one of the first subframe slot and the second subframe slot have a single-slot transmission time interval (TTI). The described aspects further include detecting a first demodulation reference signal (DM-RS) in the first subframe slot and a second DM-RS in the second subframe slot. The described aspects further include determining whether to demodulate the at least one downlink channel in the first subframe slot using the first DM-RS in the first subframe slot or to demodulate both the first DM-RS in the first subframe slot and the second DM-RS in the second subframe slot based on whether at least one condition exists.

No. of Pages : 44 No. of Claims : 30
Title of the invention: IN-VEHICLE GUIDE DISPLAY DEVICE IN-VEHICLE GUIDE DISPLAY CONTROL DEVICE IN-VEHICLE GUIDE DISPLAY CONTROL SYSTEM AND IN-VEHICLE GUIDE DISPLAY CONTROL METHOD

Abstract:
In order to achieve an in-vehicle guide display device which can display effective information synchronized over multiple display units in accordance with the provided information this in-vehicle guide display device which controls multiple display units (22 22) is provided with an in-vehicle guide display control unit that includes; a display processing determination unit (211) which in accordance with the in-vehicle guide information to be displayed on the multiple display units (22a 22b) outputs a display processing determination result indicating whether or not to synchronize some or all of the display screens displayed on the multiple display units (22a 22b); and a display data generation unit (214) which receives said display processing determination result and generates display data synchronizing or not synchronizing the display screens displayed on the multiple display units (22a 22b) in accordance with the display processing determination result.

No. of Pages: 23 No. of Claims: 7
A method for the partial removal of contaminants such as nitrogen oxides from a process gas stream is described. The process gas stream is separated into at least two process gas streams by means of a partition baffle damper or other device. Ozone is fed into contact with at least one of the separated process gas streams to oxidize the contaminants therein and the at least one of the process gas streams contacted by ozone is fed to a scrubber for removal of the oxidized contaminants from the gas streams. The separation is proportional to the percentage removal of contaminants desired.
**Title of the invention:** BUTTON-LOCK FLUID CONNECTOR FOR HAND-HELD SPRAY GUNS

**Abstract:**
A spray gun reservoir connector system. The system includes a reservoir lid a spray gun inlet and complementary first and second connector formats. The first and second connector formats are provided with one of either the lid or the spray gun inlet. The first format includes a plurality of retention structures each defining a slot. The retention structures are collectively arranged in a circular pattern. The second format includes a plurality of lock structures each including a stem and a button head configured to selectively interface with the slots. The connector formats are configured to provide wedged engagement between the lock structures and corresponding ones of the retention structures upon rotation of the spray gun inlet relative to the lid.

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No. of Pages: 21  No. of Claims: 15
A method for producing (meth)acrylic acid comprising specific steps. In the method a liquid containing a discharged liquid that is discharged in at least one step among the aforementioned steps is used as a collected liquid the collected liquid is held for 1 to 60 days and the held liquid is fed to the extraction step. [Figure 1]
A washing machine according to a mode of embodiment of the present invention is provided with: a water drum which stores water; a rotating drum disposed inside the water drum; a dissolving zone into which detergent is introduced and in which the detergent dissolves; an FB water supply pathway which is provided with a fine-bubble generating device capable of generating fine bubble water causes water supplied from a water supply source to pass through the fine-bubble generating device and supplies the resulting water to the dissolving zone as fine bubble water; an FB water supply valve which opens and closes the FB water supply pathway; and a control device which controls the opening and closing of the FB water supply valve. When a washing course is in progress control is performed to bring the detergent into contact with the fine bubble water in order to dissolve the detergent during a period in which the detergent is being dissolved in the supply water.
Embodiments of the present application provide a service processing method and apparatus. The method may comprise: monitoring a near-field wireless communication signal broadcast by a second terminal; if the near-field wireless communication signal broadcast by the second terminal is monitored, parsing the near-field wireless communication signal to obtain identifier information of the second terminal; sending the identifier information of the second terminal to a server; and obtaining from the server a preset service page corresponding to the identifier information of the second terminal and outputting the preset service page in a first terminal.
Title of the invention: N-TYPE SEMICONDUCTOR ELEMENT, COMPLEMENTARY TYPE SEMICONDUCTOR DEVICE AND METHOD FOR MANUFACTURING SAME, AND WIRELESS COMMUNICATION DEVICE IN WHICH SAME IS USED

Abstract:
In the present invention an exceptional complementary type semiconductor element is provided using a simple process. An n-type drive semiconductor element provided with a base material and a source electrode a drain electrode a gate electrode a gate insulating layer and a semiconductor layer on the base material wherein the n-type semiconductor element contains a second insulation layer containing an organic compound that includes bonds between carbon atoms and nitrogen atoms on the opposite side from the gate insulating layer across the semiconductor layer and the semiconductor layer contains a carbon nanotube composite in which a conjugated polymer is affixed to at least a portion of the surface.

No. of Pages: 99
No. of Claims: 23
This invention relates to a roof wall or façade structure to a kit of parts for constructing the structure essentially comprising a retaining element (A) having a head section (1) for engaging and holding at least one building sheet and a base section (3); a supporting rail (C) comprising a first profile section (4) for detachably receiving and holding the base section (3) of the retaining element (A) and a second profile section (5) wherein the base section (3) when positioned in the first profile section (4) is rotatable relative to the supporting rail (C) around the axis perpendicular to the supporting rail between a first position at which the base section (3) is freely detachable from the first profile section (4) of the supporting rail (C) and a second position at which the base section (3) is secured in the first profile section (4) of the supporting rail (C); and a mounting element (D) comprising a head portion (6) for receiving and holding the second profile section (5) of the supporting rail (4) a foot portion (7) spaced from the head portion (6) for mounting the mounting element (D) on a roof wall or façade substructure (E).
The present invention relates to compositions or vaccines for combating Mycoplasma hyopneumoniae (M hyo) Porcine Circovirus type 2 (PCV2) and Porcine Reproductive and Respiratory Syndrome Virus (PRRSV) infections in animals and for increasing the ability of pigs to gain weight and/or improve death loss methods of vaccination against the infections and kits for use with such methods and compositions.

No. of Pages : 22 No. of Claims : 14
**Title of the invention**: SYSTEMS AND METHODS FOR MULTIPLEXING SCHEDULING REQUESTS IN UNLICENSED BANDS

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**Abstract**

According to certain embodiments a method implemented in a wireless device is provided that includes determining that a scheduling request (SR) cannot be transmitted on an uplink during a scheduled SR opportunity. The SR is transmitted in a first transmission opportunity following a partial downlink (DL) subframe from a network node (115). (Fig. 22)

No. of Pages : 35 No. of Claims : 42
In an air cleaner three cyclone dust collection units are arranged on one side of a filter dust collection unit in a mutually parallel relationship. The cyclone dust collection units are arranged along a circumferential direction of the filter dust collection unit and the central cyclone dust collection unit has a smaller diameter than the remaining cyclone dust collection units positioned on either side of the central cyclone dust collection unit so that the dust collection units can be accommodated in a rectangular profile in a highly space efficient manner.

No. of Pages : 15 No. of Claims : 8
**Title of the invention:** PACK FOR CIGARETTES

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4) SCHNACKENBERG, Jan

**Abstract:**
The invention relates to a (cigarette) pack having a sheet-material block (11) as an inner pack and a folding box as an outer pack (25) which (cigarette) pack is formed with an opening aid (18) for the sheet-material block (11) in the case of which opening aid a closure tab (20) for opening a removal opening (19) of the sheet-material block (11) is connected to a lid inner tab (33) as part of the lid front wall (31). The lid inner tab (33) is movable or pivotable. When the lid is opened a relative motion of the lid inner tab (33) occurs in coordination with the opening process of the closure tab (20). [Figure: 2]

No. of Pages : 17 No. of Claims : 13
The present application provides materials and methods for treating a patient with Amyotrophic Lateral Sclerosis (ALS) and/or Frontaltemporal Lobular Degeneration (FTLD) both ex vivo and in vivo. In addition the present application provides materials and methods for editing to modulate the expression function or activity of the C9ORF72 gene in a cell by genome editing.
Methods systems and devices for wireless communication are described. A user equipment (UE) and a base station may establish narrowband communications. The base station may configure positioning reference signal (PRS) resources based at least in part on wideband or narrowband transmissions and a UE may receive the PRS transmissions over one or more narrowband regions. The UE may determine PRS resources and receive portions of wideband PRS transmissions that are transmitted in one or more narrowband regions of the system bandwidth. The base station may configure PRS resources separately for narrowband devices such as according to a bandwidth of the narrowband devices or with a single PRS tone per symbol compared to two PRS tones per symbol that may be used for wideband PRS transmissions. The base station may perform positioning measurements for a UE based at least in part on timing of uplink transmissions from the UE.
The present disclosure relates to a capsule for the generation of oxygen typically a disposable capsule. The generation of oxygen is by a chemical reaction of a reactant with water. The capsule is configured to be coupled with an appliance for the supply of oxygen and its utilization within the appliance. The chemical reaction occurs within the capsule when coupled with the appliance upon introduction of water thereinto through an a priori sealed port.
Method of unwrapping a generally parallelepiped palletised load (2) which comprises making vertical and/or horizontal linear cuts (8 9 10 11 29) in a plastics material (1) which surrounds the palletised load wherein at least one of the linear cuts (9 10) has a discontinuous cut portion which comprises a plurality of cuts of determined length and constant pitch the method comprising a subsequent step of tearing said discontinuous cut portion.
The present invention refers to a pharmaceutical composition which in addition to allowing or producing an effective and specific immune response against Aβ40 (the antibodies produced are specific for Aβ40 without significantly binding to Aβ42) increases said response compared with the response produced by other conjugates also comprising CysAβ(33-40) peptide and KLH and in which said elements have been bound or conjugated by means of another crosslinking agent that also allow the binding of a peptide to the transport protein.
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| (54) Title of the invention: INFORMATION DISPLAY DEVICE AND INFORMATION DISPLAY METHOD |
| (51) International classification: G08G1/09B60Q1/50B60R11/02 |
| (31) Priority Document No: NA |
| (32) Priority Date: NA |
| (33) Name of priority country: NA |
| (36) Title of the invention: INFORMATION DISPLAY DEVICE AND INFORMATION DISPLAY METHOD |
| (86) International Application No: PCT/JP2016/054136 |
| Filing Date: 12/02/2016 |
| (87) International Publication No: WO 2017/138147 |
| (61) Patent of Addition to Application: NA |
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| (62) Divisional to Application Number: NA |
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<tr>
<td>1) SAKATA, Reiko</td>
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<td>2) IMAISHI, Akiko</td>
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(57) Abstract:
An information display device that: has provided therein a vehicle state determination unit (1) that determines the state of a vehicle and a display data selection unit (5) that selects from among a plurality of display data for displaying information to be presented on the outside of the vehicle display data corresponding to the state of the vehicle as determined by the vehicle state determination unit (1); and is configured such that an information display unit (8) displays information towards the vehicle exterior in accordance with the display data selected by the display data selection unit (5). As a result information that contributes to travel safety can be selected and displayed.

No. of Pages: 31
No. of Claims: 11
The present invention relates to a device (2) for the generation transmission distribution and/or use of electrical energy or to a component of such a device (2) wherein at least one insulation space (6) is formed in the interior of the device in which a current-carrying component (8) is arranged and which contains a dielectric insulation medium (10) surrounding the current-carrying component (8). The insulation medium (10) contains a) at least one organofluorine compound selected from the group consisting of fluoroketones fluoronitriles and mixtures thereof and b) a carrier gas comprising at least one component selected from the group consisting of air an air component CO2 or a mixture of these components. The device (2) comprises at least one gas seal (20) for sealing the at least one insulation space (6) from another space (18 181). According to the invention the gas seal (20) contains butyl rubber as sealing material.
A spray gun cup receptacle is disclosed comprising an open end for receiving a liner within a cavity and a base end opposite the open end. The sidewall comprises two apertures through which the cavity is visible from outside the spray gun cup receptacle. The two apertures are divided one above the other by a brace member at least a portion of which is disposed at a brace member angle relative to the base plane. Also disclosed are improved lids for spray gun cups and improved connections between the lid(s) and spray gun cup receptacles.
Provided is a composition for forming polyurethane resin having a balance between reactivity and reducing viscosity and successfully imparting low-temperature storage stability, for use in fixing a hollow or flat sheet fiber separation membrane; and an MDI prepolymer containing a large amount of allophanate group without a metal compound and a method for producing the same while successfully controlling a reaction. Solution is provided by using a composition for forming polyurethane resin, containing a specific isocyanate group-containing compound; allophanatizing MDI with a tertiary amine catalyst without containing a metal catalyst; and reacting in the presence of at least one selected from the group consisting of a carboxylic acid amide, a sulfonic acid amide and an active methylene compound. [Figure 1]
The present invention provides methods for treating reducing the severity or inhibiting the growth of acute lymphoblastic leukemia. The methods of the present invention comprise administering to a subject in need thereof a therapeutically effective amount of a bispecific antibody that specifically binds to CD20 and CD3. [Figure 1]
Title of the invention: SYSTEM DEVICE AND METHOD FOR RELEASING VEHICLE INSURANCE SURVEYING TASK AND READABLE STORAGE MEDIUM

Abstract:
Disclosed are a system device and method for releasing a vehicle insurance surveying task and a readable storage medium. The system comprises: a task releasing module (60) for acquiring a crowd-sourcing parameter corresponding to a vehicle insurance surveying task determining a public surveyor matching the vehicle insurance surveying task according to a first pre-set analysis rule and a pre-set mode and releasing the vehicle insurance surveying task carrying the crowd-sourcing parameter to a mobile terminal of the determined public surveyor; a data acquiring module (70) for acquiring after a public surveyor accepts the released vehicle insurance surveying task surveying data corresponding to the vehicle insurance surveying task from a mobile terminal of the public surveyor accepting the task; and a data analysing module (80) for analysing according to a second pre-set analysis rule the acquired surveying data to obtain surveying data acting as a task result to be adopted. The present invention has the beneficial effect of releasing a vehicle insurance surveying task by utilizing a crowd-sourcing technique improves the efficiency of releasing the vehicle insurance surveying task and effectively reduces the cost of releasing the vehicle insurance surveying task.
(54) Title of the invention: METHOD AND SYSTEM USING REFRACTIVE BEAM MAPPER HAVING SQUARE ELEMENT PROFILES TO REDUCE MOIRE INTERFERENCE IN AUTOSTEROSCOPIC DISPLAY

(57) Abstract:
A multi-display system (e.g., a display including multiple display panels) includes at least first and second displays (e.g., display panels or display layers) arranged substantially parallel to each other in order to display three-dimensional (3D) features to a viewer(s). An optical element(s) such as at least a refractive beam mapper (RBM) is utilized in order to reduce moire interference. [Figure 5]
### Title of the invention: MOTOR VEHICLE GEARBOX EQUIPPED WITH A COMPONENT THAT TEMPORARILY IMMobilises THE GEARSHIFT LEVER OF THIS BOX

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1) IMBAULT, Pierre
2) IACOBOSCHI, Ionut

### Abstract:
The invention relates to a motor vehicle gearbox equipped with a component that temporarily immobilises the gearshift lever of this box. According to the invention, the gearbox (1) comprises an immobilising component (4) comprising at least one positioning and locking part (7) for positioning and locking the immobilising component (4) on a lug (8) secured to the casing (3) of the gearbox (1) and an immobilising part (6) for immobilising the gearshift lever (2) of the gearbox in a selected gear, which part (6) comprises an arm (15), of which the free end (17) is configured to immobilise the gearshift lever (2) in the selected gear of the gearbox (1). The invention is suitable for use in the automotive industry. Figure 3

No. of Pages: 9 No. of Claims: 9
Systems and methods for eye image set selection, eye image collection, and eye image combination are described. Embodiments of the systems and methods for eye image collection can include displaying a graphic along a path connecting a plurality of eye pose regions. Eye images at a plurality of locations along the path can be obtained and an iris code can be generated based at least partly on at least some of the obtained eye images.
A display system comprises a wearable display device for displaying augmented reality content. The display device comprises a display area comprising light redirecting features that are configured to direct light to a user. The display area is at least partially transparent and is configured to provide a view of an ambient environment through the display area. The display device is configured to determine that a reflection of the user is within the user’s field of view through the display area. After making this determination augmented reality content is displayed in the display area with the augmented reality content augmenting the user’s view of the reflection. In some embodiments the augmented reality content may overlie on the user’s view of the reflection thereby allowing all or portions of the reflection to appear to be modified to provide a realistic view of the user with various modifications made to their appearance.
A method for securely connecting to a remote server that provides improved Internet security. In the method a client receives a request to connect to a remote server associated with a domain name. The client when resolving the domain name determines whether the remote server supports at least one predetermined IP layer security protocol. The client performs a key exchange protocol with the remote server to generate at least one shared secret in response to determining that the remote server supports the at least one predetermined IP layer security protocol. The client connects to the remote server using the at least one shared secret in the IP layer security protocol.
### Title of the invention:
STORAGE OF VIRTUAL REALITY VIDEO IN MEDIA FILES

| (51) International classification | H04N21/854G06F17/00 |
| (31) Priority Document No          | 62/296,528            |
| (32) Priority Date                 | 17/02/2016            |
| (33) Name of priority country     | U.S.A.                |
| (86) International Application No | PCT/US2017/017981     |
| Filing Date                       | 15/02/2017            |
| (87) International Publication No | WO 2017/142951        |
| (61) Patent of Addition to Application Number | NA |
| Filing Date                       | NA                    |
| (62) Divisional to Application Number | NA          |
| Filing Date                       | NA                    |

### Abstract:
In various implementations, modifications and/or additions to the ISOBMFF can indicate that a file that has been formatted according to the ISOBMFF, or a format derived from the ISOBMFF, includes virtual reality content. The file can include a restricted scheme information box, written into a track box in the file. The restricted scheme information box can indicate a virtual reality scheme for the contents of the track. For example, the restricted scheme information box can include a scheme type box, where the type indicates a virtual reality scheme. As a further example, the restricted scheme information box can include a scheme information box that can provide parameters relating to the virtual reality scheme. REFER TO FIGURE 2
Methods and apparatuses for irregular-region based automatic image correction are disclosed. In one aspect, the method is operable by an imaging device including a touch sensor, for performing image correction. The method can include obtaining a first image of a scene and receiving, via the touch sensor, a touch input indicating a selected region of the first image and having a shape that corresponds to a shape of the selected region. The method can also include determining statistics indicating visual properties for the selected region, adjusting at least one image correction parameter of the imaging device based on the determined statistics and the shape of the touch input, and obtaining a second image of the scene based on the adjusted at least one image correction parameter of the imaging device. REFER TO FIGURE 4
Disclosed are a method, a system, an electronic device, and a medium for classifying license plates based on deep learning that are applied to an electronic device. The method includes: acquiring at least one photograph sent by a terminal device; preprocessing the acquired at least one photograph such that the preprocessed at least one photograph matches input parameters of a pretrained recognition model; and inputting the preprocessed at least one photograph to the pretrained recognition model to recognize corresponding vehicle use information of the at least one photograph, and sending the corresponding vehicle use information of the at least one photograph to the terminal device. Thus, with this disclosure, the use of a vehicle in a photograph can be automatically and accurately recognized and further the photographs can be accurately classified, thereby improving the accuracy as well as the efficiency.
The present disclosure provides a method for automated testing of an application user interface, being implemented in an electronic apparatus, including: dividing a frame of a testing software application of an application user interface into a business requirement layer, a method definition layer, and a method implementation layer; when receiving a name modification request of modifying a name of one of the function controls, determining the process definition corresponding to the modified name according to the business requirement layer and the method definition layer; searching for a block of instructions corresponding to the determined process definition according to the method implantation layer; and searching for another name belonging to the same synonymous name set as the modified name in the found block of instructions, and replacing the found another name with the modified name. The method further provides an electronic apparatus, a system, and non-volatile storage medium for automated testing of application user interface. With the present disclosure, rewriting of codes for automated testing can be prevented when new requirements appear or the software is updated.

No. of Pages : 19  No. of Claims : 10
Access control node (200) access device (202A) tethering device (204) and methods therein for enabling wireless access to a communications network (208). One or more access devices (202) having a wireless connection to the network (208) provide (2:1) relay properties to an access control node (200). When detecting (2:2) that network access is wanted for the tethering device (204) the access control node (200) selects (2:3) an access device (202A) based on the obtained relay properties to be used for sharing wireless connection with the tethering device (204). The access control node (200) then instructs (2:4) the selected access device (202A) to be available as a relay to the communications network (208) for the tethering device (204) via a wireless link between the access device (202A) and the tethering device (204). The tethering device (204) can then access (2:8) the communications network over the wireless link. By using the relay properties as a basis for selecting the access device (202A) the performance of the wireless network access can be improved and unwanted battery consumption can be avoided. Furthermore no manual actions are required to achieve the wireless network access.
Lubricating oil composition for automatic transmissions

The present invention provides a lubricating oil composition for automatic transmissions which comprises: 55 to 85 mass% of a Fischer-Tropsch synthetic oil with a kinematic viscosity at 100°C of 2 to 4 mm²/s as a low-viscosity base oil; 1 to 10 mass% of an olefin copolymer with a kinematic viscosity at 100°C of 150 to 1000 mm²/s as a high-viscosity base oil; and a polymethacrylate with a weight-average molecular weight of 10000 to 50000. This lubricating oil composition is such that the viscosity index of the composition is not less than 190 the Brookfield viscosity is not more than 6000 mPa·s at low temperature (-40°C) the kinematic viscosity at 100°C is 6 to 7 mm²/s and the rate of reduction of the kinematic viscosity after a KRL shear stability test (60°C 20 hr) is kept to within not more 15 than 3%.
The present invention provides a novel sulfated polysaccharide having an anticoagulant activity. Specifically, the present invention provides the polysaccharide comprising a repetitive structure of a disaccharide unit composed of a hexuronic acid (HexA) residue and a D-glucosamine (GlcN) residue and having 13% or higher of a 3-O-sulfation rate in GlcN residues.
**Title of the invention:** LAMINATE, MOLDED ARTICLE IN WHICH LAMINATE IS USED, AND METHOD FOR MANUFACTURING SAME

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**Abstract:**
A method for manufacturing a molded article the method including a step for manufacturing a molded article using a laminate having: a first layer that contains polypropylene; and a second layer that contains one or more polymers selected from the group consisting of polyethylene polyamide ethylene-vinyl alcohol copolymers and ethylene-vinyl acetate copolymers.

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<tr>
<th>(71) Name of Applicant:</th>
<th>IDEMITSU UNITECH CO.,LTD.</th>
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<tr>
<td>Address:</td>
<td>2-3, Shiba 4-chome, Minato-ku, Tokyo 108-0014 Japan</td>
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<th>(72) Name of Inventor:</th>
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<tr>
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<td>KONDO, Kaname</td>
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<td>TADA, Keishi</td>
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Title of the invention: METHODS AND APPARATUS FOR ADAPTIVE MEASUREMENT CONFIGURATION SELECTION IN A VEHICULAR DEVICE

Abstract:
Certain aspects of the present disclosure relate to methods and apparatus for adaptive antenna switching for measurements for example in high gain automotive devices. According to certain aspects a method is provided herein for wireless communications. The method generally includes selecting based on one or more conditions a first measurement configuration that uses at least an external antenna mounted on a surface of a vehicle for one or more measurements or a second measurement configuration that uses at least an internal antenna associated with the vehicle for the one or more measurements; performing the one or more measurements using the selected measurement configuration; and sending a report based on the one or more measurements. The techniques for measurement configuration selection may allow the device to achieve the benefits of both the high gain external antenna and the lower gain internal antenna(s) depending on the current conditions.

No. of Pages : 27 No. of Claims : 25
A light-guide device includes a light guiding element (13) with a number of faces including two parallel faces (26) for guiding light by internal reflection. A transparent optical element (19) has an interface surface for attachment to a coupling surface (14) of the light guiding element and is configured such that light propagating within the transparent optical element passes through the interface surface and the coupling surface (14) so as to propagate within the light guiding element (13). A non-transparent coating (15) is applied to at least part of one or more faces of the light guiding element (13) defining an edge (17) adjacent to or overlapping the coupling surface (14) of the light guiding element (13). A quantity of transparent adhesive is deployed between the coupling surface and the interface surface so as to form an optically transmissive interface. An overspill region 31 of the adhesive extends to and overlaps the edge (17).

No. of Pages : 13 No. of Claims : 19
METHOD AND DEVICE FOR ANALYSIS OF MOVEMENT OF A PIECE OF SPORTS EQUIPMENT

The invention relates to a method for the analysis of movement of a piece of sports equipment of a type of ball Sport, in particular a racket, preferably a golf club, or a ball, preferably a golf ball, wherein a first Virtual trajectory model is reproduced in a display device in a way that said first Virtual trajectory model is displayed as a first line on the display device in superimposition with at least one, in particular in reality, visible section of the environment, particularly when a field of view is directed on the at least one section of the environment which is visible in reality.

One or more claims may be set forth below.
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<th>WORN PERSONAL PROTECTIVE EQUIPMENT COMPLIANCE SYSTEM</th>
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(57) Abstract:
The present invention comprises one or more sensing device interconnected or interoperable with personal protective equipment that senses the relationship between a person and the protective equipment, which can communicate that relationship to a software application for compliance purposes.

No. of Pages: 15  No. of Claims: 29
**Abstract:**

Provided herein are compounds that inhibit the phosphorylation of MAPK and thus are compositions and methods for treating cancer and inflammatory disease.

No. of Pages : 448 No. of Claims : 34
**Title of the invention:** CONNECTOR SYSTEM FOR HAND-HELD SPRAY GUNS

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**Abstract:**

Spray gun reservoir components are disclosed. The spray gun reservoir component includes a liquid outlet and an outer face, and defines a centerline plane and an attachment plane. The liquid outlet surrounds a longitudinal axis. The outer face extends away from the liquid outlet. The centerline plane passes through the longitudinal axis. The attachment plane is defined orthogonally to the longitudinal axis and the centerline plane. The outer face further comprises a retention feature extending away from the centerline plane and generally parallel to the attachment plane. In some embodiments, the spray gun reservoir component further comprises a bearing surface formed on the outer face along the attachment plane to engage with a corresponding bearing surface on a liquid spray gun attachment point, with the bearing surface comprising the retention feature. [Figure: 9]

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3. JOSEPH, Stephen C. P.
4. HEGDAHL, Anna M.
This fuel filter device 2 comprises a filter unit 7. The filter unit 7 comprises a filter 31 and a water separator 32. The filter 31 filters a fuel. The water separator 32 captures water in the fuel and separates the water from the fuel. The filter 31 and the water separator 32 are connected with each other by means of a connection mechanism 57. The filter 31 has a connection part 46 for providing a separable connection with the water separator 32. The water separator 32 has a connection part 56 for providing a separable connection with the filter 31. The connection mechanism 57 is capable of retaining fuel supply to the water separator 32 over a length L1. Distances L2 L3 between the water separator 32 and components within a cup are shorter than the length L1. Falling-off of the water separator 32 is prevented.
Title of the invention: DATA TRANSMISSION METHOD AND DEVICE

Abstract:
Embodiments of the present disclosure disclose a data transmission method and apparatus. The method is applied to a social application client and includes: displaying, in response to detecting a data transmission instruction submitted by a user for transmitting to-be-transmitted data, device identifier information of at least one hardware device associated with the social application client; determining, in response to a selection operation of the user in the at least one piece of device identifier information, a hardware device corresponding to device identifier information selected by the user; and sending the data to the hardware device. [Figure: 1]
Embodiments of the present invention provide an access method, including: sending, to an access point, a first frame that carries uplink transmission requirement information; and if a second frame that carries information about an uplink transmission resource is received from the access point within agreed time period, sending uplink multi-user transmission data to the access point, where the uplink multi-user transmission data is transmitted on the uplink transmission resource; or if the second frame is not received within an agreed time period, accessing, by a station, a channel in a contention access manner that is based on carrier sense CSMA/CA. According to the method provided in the embodiments of the present invention, a channel access manner can be managed, a congestion degree of a system can be decreased, and channel utilization can be increased.
This application provides a method and an apparatus for checking a forwarding table, and a device. A network check device generates a check packet according to network topology information. The check packet includes a label stack, TTL, a source IP address, and a destination IP address. The label stack includes N link labels, a value of TTL is N+1, and N is a quantity of hops from the network check device to a to-be-checked network node. The network check device sends the check packet according to a topmost link label of the label stack, and receives a notification message sent by a feedback node that is a next hop of the to-be-checked network node. The network check device determines, according to an IP address of the feedback node in the notification message and the network topology information, whether a forwarding table of the to-be-checked network node is correct. In this way, a fault can be quickly located.
Methods systems and devices for wireless communication are described. A user equipment (UE) may monitor a neighbor cell and report the result to a serving base station. Based on the report the serving base station may identify an estimated discovery reference signal (DRS) transmission window of the neighbor cell. In some cases the UE may estimate and report parameters of the neighbor DRS transmission window and in other cases the UE may make a measurement report and the base station may infer DRS transmission window parameters. The base station may then provide the UE with a DRS measurement timing configuration (DMTC) based on the estimated parameters of the neighbor cell so that the UE may monitor the neighbor cell and the serving cell in an efficient manner. For example the UE may conserve battery life by refraining from monitoring DRS during periods when a DRS transmission is not likely.
The present invention concerns a method for receiving plate elements (1) for a digital printing machine (20). According to the invention during a packet start step at least one plate element (1) is transported to a stop (31) and then deposited on a lift (32) in order to form the base of a packet (33) of which the front edge corresponds to the stop (31); during a packet construction step the plate elements (1) are transported to a position corresponding to the back edge of a packet (33) carried by the lift (32) the lift lowering gradually as the packet (33) is constructed; during a packet completion step the movement of certain plate elements (1) intended to form the base of the next packet (33) is interrupted and the plate elements (1) downstream from the interruption are transported to a position corresponding to the rear edge of a packet (33) carried by the lift (32); during a packet discharge step the packet (33) is discharged and the lift (32) rises back to the raised position. The invention also concerns a device (30) for receiving plate elements (1) for a digital printing machine (20) for printing on corrugated or micro-flute cardboard plate elements that can be used for implementing a method according to the invention. The invention makes it possible to adapt the reception of the plate elements (1) to the specificities of the digital printing.
**Title of the invention**: HOT WORK TOOL STEEL

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**Name of Inventor**:
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2) ANDERSSON, Jerker
3) ROBERTSSON, Rikard
4) NILSSON, Cherin
5) EJNERMARK, Sebastian

**Abstract**:
The invention relates hot work tool steel. The steel comprises the following main components (in wt. %): C 0.27 -0.38 Si 0.10 -0.35 Mn 0.2 -0.7 Cr 4.5 -5 Mo 2.05-2.90 V 0.4 -0.6 N 0.01 -0.12 H = 0.0004 S = 0.00 balance optional elements iron and impurities.

No. of Pages: 11  No. of Claims: 10
**Title of the invention:** GASOLINE PARTICULATE FILTER

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7)MILLINGTON, Paul  
8)ROBSON, Chris |

**Abstract:**
A catalytic wall-flow monolith for use in an emission treatment system comprises a porous substrate and a three-way catalyst (TWC) wherein the TWC is distributed substantially throughout the porous substrate and wherein the TWC comprises: (i) alumina; (ii) one or more platinum group metals; and (iii) an oxygen storage component (OSC) wherein the OSC comprises ceria or one or more mixed oxides comprising cerium and is present in a ratio by weight of OSC to alumina of from 65:35 to 85:15

No. of Pages : 31  No. of Claims : 19
Title of the invention: MEDICAL DRUG FOR TREATING CEREBRAL INFARCTION

Abstract:
Provided is a novel means for: reducing the risk of cerebral hemorrhage as a result of recanalization therapy for occluded blood vessels (e.g. administration of medical drugs including thrombolytic agent platelet aggregation inhibitor and blood coagulation inhibitor or physical removal of blood clots); and more effectively treating ischemic vascular disorders. The present invention is a mesenchymal stem cell-containing medical drug for treating ischemic vascular disorders characterized by being concurrently used with recanalization therapy for occluded blood vessels. More specifically the present invention is a medical drug for treating ischemic vascular disorders characterized by reducing the risk of cerebral hemorrhage as a result of recanalization therapy for occluded blood vessels and by extending the period during which the medical drug can be applied.

No. of Pages: 37 No. of Claims: 18
The present invention relates in part to methods and kits for rapidly determining antimicrobial susceptibility of microorganisms. The methods and kits use a signaling agent which binds specifically or non-specifically to the surface of the microorganisms. Preferably the signaling agents have an amplifier group such as an europium coordination complex.

No. of Pages : 94 No. of Claims : 164
**Title of the invention**: UPLINK CHANNEL DESIGN FOR SLOT-BASED TRANSMISSION TIME INTERVAL (TTI)

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**Abstract**:

Certain aspects of the present disclosure provide techniques that may be used to help enable low latency communications between a user equipment (UE) and a base station (BS) using quick uplink channels that enable a reduced transmission time interval (TTI). An example method generally includes identifying a plurality of slots in a subframe receiving a resource configuration for an uplink channel wherein the resource configuration is associated with a first slot of the plurality of slots determining a resource for transmitting the uplink channel in a second slot of the plurality of slots wherein the resource is determined based on the resource configuration associated with the first slot of the plurality of slots and transmitting the uplink channel in the second slot using the determined resource.
The invention relates to a silicone composition \( C \) that can be crosslinked by exposing same to radiation at a wavelength of 200 to 450 nm said composition comprising: - at least one radical photoinitiator \( A \); and - at least one coinitiator \( B \) selected from among the compounds comprising at least one hydrogen atom linked to a silicon atom.

No. of Pages : 45 No. of Claims : 19
Title of the invention: PROCESS FOR THE PREPARATION OF (CO) POLYMERS OF CONJUGATED DIENES IN THE PRESENCE OF A CATALYTIC SYSTEM COMPRISING A VANADIUM BIS-IMINE COMPLEX

Abstract:
Process for the preparation of (co) polymers of conjugated dienes comprising polymerizing at least one conjugated diene in the presence of a catalytic system comprising at least one vanadium bis-imine complex having the general formula (I):

$$\begin{align*}
\text{C08F136/06C08F136/08C08F36/06} \\
\text{PCT/IB2016/057991} \\
\text{WO 2017/109767} \\
\end{align*}$$

No. of Pages: 70
No. of Claims: 14
METHOD AND APPARATUS FOR TRANSMITTING PILOT SIGNAL

This application discloses a method and an apparatus for transmitting a pilot signal, so that more flexible resource configuration can be achieved, thereby improving resource usage. The method includes: determining, by a transmit end device based on prestored N pilot patterns, a target time-frequency resource for transmitting a pilot signal, where the target time-frequency resource corresponds to a total quantity of layers of a to-be-transmitted data stream, the N pilot patterns are different from each other, and N is a natural number greater than or equal to 1; and sending, by the transmit end device, indication information to a receive end device, where the indication information is used to instruct the receive end device to transmit the pilot signal to the transmit end device based on the target time-frequency resource. The apparatus includes a determining module and a transceiver module. The determining module is configured to determine, based on prestored N pilot patterns, a target time-frequency resource for transmitting a pilot signal. The target time-frequency resource corresponds to a total quantity of layers of a to-be-transmitted data stream. The transceiver module is configured to send indication information to a receive end device, to instruct the receive end device to transmit the pilot signal to the apparatus based on the target time-frequency resource.
Providing scalable dynamic random access memory (DRAM) cache management using DRAM cache indicator caches is provided. In one aspect a DRAM cache management circuit is provided to manage access to a DRAM cache in high-bandwidth memory. The DRAM cache management circuit comprises a DRAM cache indicator cache which stores master table entries that are read from a master table in a system memory DRAM and that contain DRAM cache indicators. The DRAM cache indicators enable the DRAM cache management circuit to determine whether a memory line in the system memory DRAM is cached in the DRAM cache of high-bandwidth memory and if so in which way of the DRAM cache the memory line is stored. Based on the DRAM cache indicator cache the DRAM cache management circuit may determine whether to employ the DRAM cache and/or the system memory DRAM to perform a memory access operation in an optimal manner.
An apparatus comprising a film bulk acoustic resonator and a field effect transistor (207) the film bulk acoustic resonator comprising first and second electrodes (201 202) separated by a piezoelectric material (203) the piezoelectric material configured such that the application of a potential difference between the first and second electrodes enables the generation of an acoustic wave and associated surface charge in the piezoelectric material the field effect transistor (207) comprising a channel (208) and source and drain electrodes (209 210) configured to enable a flow of electrical current through the channel when a potential difference is applied between the source and drain electrodes wherein the first electrode (201) of the film bulk acoustic resonator comprises electrically connected first and second portions the second portion capacitively coupled to the channel (208) of the field effect transistor via a dielectric material and wherein the first portion of the first electrode (201) is capacitively coupled to the piezoelectric material such that the surface charge generated in the piezoelectric material (203) induces a corresponding charge in the first electrode which causes a variation in the electrical current flowing through the channel via the second portion of the first electrode the variation in electrical current producing an output signal having a frequency which corresponds to that of the acoustic wave.
ABSTRACT

SYSTEM, METHOD, AND APPARATUS FOR BALANCING AN HVAC SYSTEM

A method and apparatus for balancing terminals of an HVAC system uses an air flow measuring device by inputting into a computer processing portion of the air flow measuring device predetermined target flows for each terminal; acquiring via the air flow measuring device initially measured air flows through each of the terminals, the initially measured air flows being provided to the computer processing portion; and adjusting the terminals in the HVAC system to flow set points according to instructions from the computer processing portion, the computer processing portion being programmed to calculate the flow set point for each terminal given current HVAC system load conditions, that will result in all terminals being set to target flow after all terminals have been adjusted as instructed. [Figure 5]
A detoxifying composition for oral administration characterized in that it comprises dried inflorescence stems from the pepper plant that are optionally ground and optionally sieved and/or a liquid or dry extract of pepper plant inflorescence stems. The pepper plant inflorescence stems are advantageously chosen from inflorescence stems from the Piper nigrum or Piper longum pepper plants in particular from the Kampot region of Cambodia. The food composition or supplement or fortified foodstuff or dietary product containing same is used in order to promote the elimination of waste from the organism in particular by the liver.
**Title of the invention:** WIDE-MOUTHED FLUID CONNECTOR FOR HAND-HELD SPRAY GUNS

**Abstract:**

WIDE-MOUTHED FLUID CONNECTOR FOR HAND-HELD SPRAY GUNS A spray gun reservoir connector system. The system includes a reservoir lid, a spray gun inlet, and complementary first and second connector formats. The first format includes a plurality of retention structures each defining a capture region. The retention structures are collectively arranged in a circular pattern. The second format includes a plurality of lock structures each including a shim body configured to selectively interface with the capture regions. The connector formats are configured to provide wedged engagement between the lock structures and corresponding ones of the retention structures upon rotation of the spray gun inlet relative to the lid. The lid may include a spout. The retention and lock structures are radially spaced outside of the spout, and the spout may have an inner diameter of not less than 22 mm. [Figure. 18A]
Title of the invention: ANTENNA AND RADIATING ELEMENT FOR ANTENNA

Abstract:
The invention relates to a radiating element comprising a conductive element comprising a lower plane sidewalls extending from edges of the lower plane at least a first and a second non-conductive slot each extending at least partly in the lower plane and along the sidewalls from the lower plane to upper edges of the sidewalls wherein the radiating element is configured to be arranged on a reflector of an antenna by a support structure holding the lower plane in a predefined distance to the reflector; and an antenna for a base station including a reflector and multiple of the radiating elements of any of the previous claims wherein the lower planes of the conductive elements of the multiple radiating elements are supported in the predefined distance to the reflector. FIG.1
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| (19) | INDIA |

| (22) | Date of filing of Application :20/07/2018 |

| (43) | Publication Date : 27/07/2018 |

| (54) | Title of the invention : ADDITIVE PROCESSING OF FLUOROPOLYMERS |

| (51) International classification | C08F259/08B33Y80/00B33Y10/00 |

| (31) Priority Document No | 62/281,349 |

| (32) Priority Date | 21/01/2016 |

| (33) Name of priority country | U.S.A. |

| (86) International Application No | PCT/US2017/014156 |

| Filing Date | 19/01/2017 |

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

| Filing Date | NA |

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| 5) HINTZER, Klaus |

| 6) GOTTSCHALK-GAUDIG, Gabriele H. |

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| 9) SCHECHNER, Gallus |

| 10) NEUMANN, Wolfgang |

| (57) Abstract : |

| Provided are methods for making shaped fluoropolymer by additive processing using a polymerizable binder. Also are 3D printable compositions for making shaped fluoropolymer articles and articles comprising a shaped fluoropolymer. |

No. of Pages : 56 No. of Claims : 43
SCOURING PAD AND METHOD OF SCOURING

A scouring pad includes a nonwoven substrate having first and second opposed major surfaces wherein the plan view shape of the scouring pad is a polygon wherein each internal angle is at least about 80 degrees and at least one internal angle is at least about 110 degrees and no greater than about 130 degrees. A method of scouring using such a scouring pad is also disclosed. [Figure 1]
NEGATIVE LITHOGRAPHIC PRINTING ORIGINAL PLATE AND METHOD FOR PRODUCING LITHOGRAPHIC PRINTING PLATE

A negative type lithographic printing plate precursor includes a support having a hydrophilic surface; and an image recording layer, on the support, containing a polymerization initiator and a polymer compound having a structure represented by Formula 1 in a main chain and an ethylenically unsaturated bond. Further, a method of preparing a lithographic printing plate includes, in order; an exposure step of image-exposing the negative type lithographic printing plate precursor; and a development step of performing development by removing a non-exposed portion of the exposed negative type lithographic printing plate precursor using a developer. In Formula 1, R1 represents an (x + 2)-valent aromatic hydrocarbon ring group, and x represents an integer of 1 to 4.
Title of the invention: A METHOD AND SYSTEM FOR MANUFACTURING A WIND TURBINE BLADE COMPONENT

Abstract:
A method for manufacturing a wind turbine blade component (6) using a layup head for automatic or semi-automatic layup of fibre material as ply sections (X1) from respective rolls of a plurality of rolls (10) in a blade component mould (8). The method comprising the steps of defining a list of ply sections (X1) for the blade component including the layup sequence and length of each ply section (X1-Xn) generating a selection of layup plans using at least said list of ply sections at least a subset of said plurality of rolls (10) and the initial lengths of fibre material on said plurality of rolls selecting one layup plan of said selection of layup plans in constraint of at least one criterion said at least one criterion comprises optimisation of the remaining amount of fibre material waste on said plurality of rolls in a length direction and controlling the layup head and said plurality of rolls with computing means (14) to perform the selected layup plan in manufacturing of the blade component (6) in the blade component mould (8). A system for manufacturing a wind turbine blade component (7).
Title of the invention: INFORMATION DISPLAY DEVICE AND INFORMATION DISPLAY METHOD

Abstract:
An information display device comprising: a vehicle state determination unit (1) that determines the state of a vehicle; a display data output unit (7) that outputs display data for displaying information indicating the state of a vehicle as determined by the vehicle state determination unit (1); and an information display unit (10) that determines a display time for the information from the state of the vehicle as determined by the vehicle state determination unit (1) and displays information towards the vehicle exterior during the display time and in accordance with the display data output from the display data output unit (7). The information display device is configured such that the information display unit (10) switches the information display method in accordance with this display time. As a result the transfer rate for the information can be increased.
A computer-implemented method includes: establishing a connection between a user device of a user and a system onboard a vehicle being driven by the user; requesting access through the established connection to user information on the user device; in response to a grant of access retrieving at least a portion of the user information from the user device the portion of user information including a digital identification document of the user that had been issued by an entity after having vetted the user the digital identification document including a digital biometric of the user as well as a digital watermark indicating the issuing entity; and retaining on the system onboard the vehicle data encoding the digital identification document of the user on the vehicle such that when the vehicle is inspected by a third-party agent the digital identification document of the user is presented to the third-party agent.
**Title of the invention:** VERIFICATION OF PICKUP TIMES IN REAL-TIME RIDE-SHARING FEEDS

| (51) International classification | :G08G1/123 |
| (31) Priority Document No | :15/063,873 |
| (32) Priority Date | :08/03/2016 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2016/065727 |
| Filing Date | :09/12/2016 |
| (87) International Publication No | :WO 2017/155581 |
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| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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| (72) Name of Inventor | 1) FRIEDLANDER, Anna |
| 2) FRIEDLANDER, Anna |

**Abstract:**
In a method for determining accuracy of arrival time information one or more ETAs are received from a transit service provider. Each ETA indicates a time at which the transit service provider purports to be able to provide a transit service at a respective location. An ETA corresponding to a target location of a mobile communications device is determined and sent to the mobile communications device for display to a user. User activity data indicative of locations of the mobile communications device over time is logged and processed to determine both (i) that the user did use the transit service provider and (ii) the time at which the transit service was actually provided at the target location. A time difference between the ETA and the actual arrival time is then calculated.

No. of Pages: 36
No. of Claims: 20
The invention relates to a device for cleaning in particular descaling a warm rolled product (2) in particular slabs or strips moved translationally relative to the device in a direction of movement with a pressurised fluid comprising at least one nozzle holder which is rotatably held on a central bearing (5) that is perpendicular or inclined with respect to the rolled product surface to be processed at least one jet nozzle (4) held in an arm (31 32) of the nozzle holder from which jet nozzle the pressurised fluid is discharged during operation wherein the jet nozzle (4) is oriented such that a fluid jet discharging from the jet nozzle (4) during operation is applied to the rolled product surface linearly or at an angle to the rolled product surface wherein the at least one jet nozzle (4) is mounted on the nozzle holder (3) such that it can rotate about an axis of rotation oriented parallel to the central bearing (5) of the nozzle holder (3) wherein during operation the jet nozzle (4) is rotatably driven such that an angle between the direction of movement of the rolled product and the orientation of the fluid jet discharging from the jet nozzle (4) is constant in the plane of the rolled product surface wherein an axis of rotation with a feed line (13) introduced therein for the pressurised fluid is accommodated in the central bearing (5) which is connected to a feed line (14) in the respective arm (31 32) of the nozzle holder (3) which opens into a feed opening (43) of a nozzle housing (41) of the jet nozzle (4) and that a vector defining the emission direction of the fluid jet pressurised to between 80 bar and 1000 bar from the jet nozzle (4) has no component in the direction of movement of the rolled product (2). In addition a method for cleaning is described.
**Title of the invention:** CONVERTIBLE FURNITURE ITEM

**Abstract:**
ABSTRACT CONVERTIBLE FURNITURE ITEM A convertible furniture item (1), configured to be transformed from a chair (1) to a sofa (1'), and vice-versa, which furniture item comprises: ■ a main supporting body (2); and ■ a first (31) and a second (32) supplementary body, each of which rotatably connected to the main supporting body (2) so that they can rotate of an angle (α) of 180 degrees with respect to such supporting body (2), wherein the arrangement is such that the furniture item (1) can assume: - a first chair configuration, wherein the first (31) and second (32) supplementary bodies are housed inside the inner room (20) and the furniture item (1) defines a chair sitting surface (10); and - a second sofa configuration, wherein the first (31) and second (32) supplementary bodies are rotated of 180 degrees with respect to the main supporting body (2) and arranged laterally adjacent thereto in such a way that the furniture item (1) defines an enlarged sofa sitting surface (10'). (Fig. 4).

No. of Pages : 10 No. of Claims : 19
A motorized furniture item (1) configured to assume a plurality of different configurations like a stool a chair a sofa or other which motorized furniture item comprises: a main body (2) having an upper supporting face (20); a first (31) and a second (32) movable body capable of supporting a user’s body and arranged side by side upon said upper supporting face (20) wherein said first movable body (31) is rotatably connected to said main body (2) and said second movable body (32) is rotatably connected to said first movable body (31); driving means (4) of said first (31) and a second (32) movable body housed inside said main body (2) and/or the two movable bodies; and an extractable table unit (5) configured so that it can assume a first minimal-encumbrance arrangement wherein it is housed inside said main body (2) and a second use arrangement wherein it is extracted from said main body and provides a support surface (50).
A compound of formula (Ia) or (Ib) or a pharmaceutically acceptable salt thereof. The compound is an inhibitor of a histone deacetylase and as such is useful in terepy e.g. in the treatment of autoimmune disorders mental disorders neurodegenerative disorders and hyperproliferative disorders.

No. of Pages : 211 No. of Claims : 19
An internal combustion engine (1) having a cylinder (5) having a rearwardly slanted axial line is provided with a plurality of cylindrical cyclone dust collection units (34) commonly connected to an upstream end of a filter dust collection unit (35). Each cyclone dust collection unit includes a main body (44 45) internally defining a separation chamber (45C) and having an air inlet (31) communicating with outside and an air outlet (73) communicating with the filter dust collection unit and the separation chamber is provided with a dust ejection hole (45D) directed tangentially in an obliquely forward direction. Thereby dust ejected from the dust ejection hole is ejected away from the operator of the engine and is prevented from depositing on the engine. [Figure 4]
System and method are provided for camera-based user authentication for content on a user device. An action by a user for displaying content on a screen of the user device is detected (610). A content file on the user device is then scanned to determine whether the content file is protected (620). An image of the user is also captured without input from the user and without notifying or prompting the user (630). The content file is displayed on the screen if the content file is not protected or if the content file is protected and the captured image of the user matches a retrieved image from an allowed users list of the content file (640).

No. of Pages : 12  No. of Claims : 22
The present disclosure relates to a method for detecting P. acnes as well as a method for detecting mutation in genomic sequence of 23S rRNA sequence of P. acnes particularly mutation A2058G. The method comprises amplifying a region of 23S rRNA specific for P. acnes using primers of SEQ ID Nos. 1 and 2 followed by detecting the mutation through selective action of an endonuclease at a mismatch at the site of said mutation or post-hybridization with specific P. acnes 23S regions followed by mismatch specific endonuclease action. The presence of A2058G mutation confers antibiotic resistance particularly clindamycin and erythromycin resistance and thus the present disclosure also relates to methods of treating acne caused by clindamycin resistant P. acnes by using fluoroquinolone based antibiotics.
Title of the invention: GAS COLLECTION METHOD

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Abstract:
A gas collection method for collecting gas produced from a raw material (PL) present in a seabed (L1) or lakebed wherein: [1] a collection film (11) is dropped into the water fixing tools (31) being connected to the lower end of the collection film (11) and the collection film (11) comprising a film body expanding downward from a top part (T1); [2] the three-dimensional positions of the fixing tools (31) in the water are perceived by position-maintaining tools (31) provided to the fixing tools (31) and the three-dimensional positions of the fixing tools (31) are maintained at the desired positions by autonomous navigation; [3] on the basis of the water temperature distribution in the vertical direction acquired by a CTD the lower end of the collection film (11) is set to a position that is higher than the seabed (L1) or lakebed and shallower than the water depth at which the raw material (PL) separates from a solid state into water and gas and the top part (T1) of the collection film (11) is set to a position deeper than the water depth at which gas mixes with the seawater or lake water and gas bubbles disappear; and [4] gas released from the seabed (L1) or lakebed is collected by the collection film (11).
| (51) International classification | :G10L13/08 |
| (31) Priority Document No | :15/009,432 |
| (32) Priority Date | :28/01/2016 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2016/069182 |
| Filing Date | :29/12/2016 |
| (87) International Publication No | :WO 2017/131924 |
| (61) Patent of Addition to Application Number | :NA |
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| (62) Divisional to Application Number | :NA |
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| (72) Name of Inventors : | 1) SHARIFI, Matthew |
| | 2) FOERSTER, Jakob Nicolaus |

(57) Abstract:
In some implementations a language proficiency of a user of a client device is determined by one or more computers. The one or more computers then determines a text segment for output by a text-to-speech module based on the determined language proficiency of the user. After determining the text segment for output the one or more computers generates audio data including a synthesized utterance of the text segment. The audio data including the synthesized utterance of the text segment is then provided to the client device for output. An improved user interface is provided through better text-to-speech conversion.
Disclosed is an electronic device including a housing having a first surface a second surface and a side surface; a touch screen display including a conductive plane substantially parallel with the first surface; a printed circuit board positioned between the touch screen display and the second surface substantially parallel with the conductive plane; a wireless communication circuit; and a side member forming at least a portion of the side surface which includes a first elongated part surrounding at least a portion of the conductive plane and formed of a non-conductive material and a second elongated part surrounding at least a portion of the printed circuit board but no portion of the conductive plane and extending in parallel with the first elongated part. The second elongated part is formed of a conductive material and is electrically coupled to the wireless communication circuit.
**Title of the invention**: METHOD AND SYSTEM FOR SHARING MEDIA CONTENT BETWEEN SEVERAL USERS

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**Abstract**: METHODS AND SYSTEM FOR SHARING MEDIA CONTENT BETWEEN SEVERAL USERS. The sharing of media contents between users is implemented in the context of a media content exchange whose topic is media content. Users may contribute (C215) by adding contribution media contents that forms a contribution to the topic relatively to a portion of the topic media content. The server application registers (C216) for each contribution association data representing the contribution and sends messages to the users participating to the media content exchange on the basis of the registered association data. The association data represent an association between the portion of the topic media content and the contribution media contents. The contribution of a user may be reproduced (C218) on the device of another user on the basis of contribution reproduction data received (C217) from the server application. [FIGURE 2C]

No. of Pages: 41 No. of Claims: 15
**Title of the invention**: A DATA VOLTAGE COMPENSATION METHOD, A DISPLAY DRIVING METHOD, AND A DISPLAY APPARATUS

**Abstract**:

ABSTRACT A DATA VOLTAGE COMPENSATION METHOD, A DISPLAY DRIVING METHOD, AND A DISPLAY APPARATUS The present application discloses a method for compensating data voltages in a display apparatus. The method for individually compensating a data voltage to be applied to one of the multiple pixel circuits in the display apparatus. The method includes obtaining a threshold voltage of the driving transistor in the one of the multiple pixel circuits. Additionally, the method includes applying a testing voltage to a gate electrode of the driving transistor for charging the sense line up to a first time period to determine a first monitoring voltage associated with the sense line. The testing voltage is set to be a sum of the threshold voltage and a first setting voltage. Moreover, the method includes compensating a data voltage to be applied to the one of the multiple pixel circuits based on the first monitoring voltage and the threshold voltage. [Figure. 1]
The invention relates to an arrangement for preparing a gas (G) in a closable reactor (3) by supplying said reactor with carbon-based biomass or chopped wood material, such as chips, in substantially oxygen-free conditions, by allowing the biomass or wood material to gasify at a high temperature, and by recovering the gas (G) generated in a gasification reaction (R). In that the arrangement - the reactor (3) has its interior (30) defined by a feed pipe whose inlet end is closable with a shut-off valve (24), especially with a ball valve, and whose outlet end adjoins a heatable gasification dome (36), - biomass or chopped wood material is delivered from the feed pipe's inlet end into the reactor's (3) interior, - the reactor's interior (30) is supplied with free water/water vapor in its supercritical state, which is optionally prepared catalytically by splitting water/water vapor (V), - the biomass or wood material is conveyed into a gasification space (30; 31) of the reactor's interior, which is in connection with the heated gasification dome (36) and which is adapted to have existing conditions selected in a manner such that the water (V) present in said gasification space (31) is present in its supercritical state, -the gas (G) generated in the gasification reaction is recovered. [FIGURE 2]
Abstract:
The purpose of the invention is to effectively prevent or suppress in a gas cooler drain water from flowing outside. This gas cooler comprises a casing housing a cooling unit, a seal plate, an inlet, an outlet, and a drain scatter-preventing member. The cooling unit is housed inside the casing and cools the gas. The seal plate is provided to partition the inside of the casing into an upper space before the cooling unit and a bottom space after the cooling unit. Gas is introduced from the inlet to the upper space and the gas is discharged from the bottom space via the outlet. The drain scatter-preventing member is arranged in the bottom space and permits the passage of gas and collects drain water. [Figure 3]
To provide a lubricating oil composition for internal combustion engines which can realize low friction in both internal combustion engines equipped with a DLC and internal combustion engines not equipped with a DLC. [Solution] a lubricating oil composition for internal combustion engines which is characterized in that the lubricating oil composition for internal combustion engines is a composition obtained by blending a molybdenum dithiocarbamate (MoDTC) and a polyalkylene glycol (PAG) in a base oil the weight average molecular weight of the polyalkylene glycol is 2750-4500 and the content of the polyalkylene glycol is not less than 0.05 mass% and less than 10 mass% relative to the total mass of the composition.
**Title of the invention**: CHARGING FOR SERVICES IN TELECOMMUNICATIONS NETWORKS

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**Abstract**:

Methods and apparatus for implementing a service function chain (401) of a mobile telecommunications network. The methods and apparatus comprise at a plurality of service function means which may be service functions (414a-414c) arranged sequentially receiving by a receiving means which may be a receiver (604) a user packet from a service function forwarder in the service function chain. The methods and apparatus further comprise applying by a service implementing means which may be a service implementer (614) a service associated with the user packet and the service function. The methods and apparatus further comprise determining by a charging trigger function means which may be a charging trigger function CTF (616) charging data for the applied service. The methods and apparatus further comprise generating by the CTF an updated user packet comprising the charging data. The methods and apparatus further comprise returning by a transmitting means which may be a transmitter (602) the updated user packet towards the service function forwarder in the service function chain. The methods and apparatus further comprise at a charging function (420-428) receiving by a further receiving means which may be a receiver (504) from the service function forwarder collective charging data comprising individual charging data determined by each of the plurality of service functions. The methods and apparatus further comprise controlling by a charging controlling means which may be a charging controller (518) charging for the applied services based on the collective charging data.

No. of Pages : 31 No. of Claims : 32
**Title of the invention:** DIGITAL ASSET PROTECTION POLICY USING DYNAMIC NETWORK ATTRIBUTES

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**Abstract:**
Various systems and methods for determining whether to allow or continue to allow access to a protected data asset are disclosed herein. For example, one method involves receiving a request to access a protected data asset wherein the request is received from a first user device; determining whether to grant access to the protected data asset wherein the determining comprises evaluating one or more criteria associated with the first user device and the criteria comprises first information associated with a first policy constraint; and in response to a determination that access to the protected data asset is to be granted granting access to the protected data asset.

No. of Pages: 52 No. of Claims: 22
Title of the invention: HIGH FREQUENCY WIRELESS ACCESS NETWORK

A high frequency data network access system leverages commodity WiFi chipsets and specifically multi spatial stream (e.g. 802.11ac) chipsets in combination with phased array antenna systems at the aggregation nodes. Examples can be very spectrally efficient with both polarization and frequency diversity.
The present invention provides a method for manufacturing a laminate that exhibits visible light transparency and ultraviolet light shielding properties while maintaining an extremely high degree of scratch resistance and that has all the necessary weather resistance and durability properties for withstanding long-term outdoor exposure. This method for manufacturing a laminate having the abovementioned properties includes: (1) using active energy rays to cure on an organic resin substrate an acrylic silicone resin composition having an inorganic component percentage X of 0.2 to 0.8 to form an intermediate layer; (2) dry-etching the surface of the intermediate layer obtained at step (1) using a non-oxidizing gas plasma of a plasma irradiation amount Y correlated with the inorganic component percentage X; and (3) plasma-polymerizing an organosilicon compound to form a hard coat layer on the surface of the intermediate layer obtained at step (2).

No. of Pages : 55  No. of Claims : 12
**Title of the Invention:** ADAPTER COUPLING

**Abstract:**

ABSTRACT ADAPTER COUPLING A coupling for joining a flanged pipe element to a non-flanged pipe element has segments that are connected end to end and surround a central space. Flange portions extend from one side of the segments. Each segment defines two channels, one of which receives a split ring for gripping the non-flanged pipe; the other channel receives a seal. A flanged tube is also positioned between the segments. The flange of the tube is positioned adjacent to the flange portions of the segments. The seal engages the tube and the non-flanged pipe element. The flange portions of the segments are bolted to the flange of the flanged pipe element and the flange of the tube is captured between the flanged portions of the segments and the flange of the flanged pipe element. [Figure 1]

No. of Pages: 10  No. of Claims: 16
Title of the invention: PROTECTION SWITCHING METHOD AND NODE

Abstract:
Disclosed in an embodiment of the invention is a protection switching method comprising: if a failure occurs in a working path between a first end node and a second end node the first end node sends to an intermediate node a first protection switching request message wherein a protection path of the working path comprises the first end node the second end node and at least one intermediate node; the first end node receives a second protection switching request message from the intermediate node and switches service data to the protection path for transmission wherein one overhead frame in the first protection switching request message and the second protection request message comprises at least two overhead information groups including a request type field a request signal identifier field and a bridging identifier field. One overhead frame in the first protection switching request message and the second protection request message can indicate overheads of two timeslots thus increasing the utilization rate of overhead resources.

No. of Pages: 40 No. of Claims: 18
Stabilized polyolefin composition comprising: - A. a copolymer of ethylene and at least one a-olefin - B. between 25 and 300 ppm by weight of a-tocopherol relative to the component.
The present invention relates to a method for the manufacture of a woven article comprising the steps of i) preparing a plurality of uniaxially oriented tapes of a polyethylene terephthalate composition optionally comprising a step of heat setting said tapes to obtain tapes having a first crystallinity ii) weaving at least two of said tapes into a woven article iii) heat setting the woven article to obtain tapes having a second crystallinity higher than the first crystallinity.

No. of Pages : 21 No. of Claims : 13
The invention relates to a process for transitioning from a first continuous polymerization in a gas phase reactor conducted in the presence of a metallocene catalyst to a second polymerization conducted in the presence of a Ziegler-Natta catalyst in the gas phase reactor wherein the metallocene catalyst and the Ziegler-Natta catalysts are incompatible the process comprising: (a) discontinuing the introduction of the metallocene catalyst into the gas phase reactor; (b) introducing an effective amount of cyclohexylamine into the reactor to at least partially deactivate the metallocene catalyst; (c) introducing an organometallic compound into the reactor and reacting the organometallic compound with cyclohexylamine; (d) degas the gas composition of the reactor and build up a new composition inside the reactor for the second polymerization with the Ziegler-Natta catalyst (e) introducing the Ziegler-Natta catalyst into the reactor.
In a vehicle body front structure 10 a sub frame 13 is fixed to a front mount bracket 45 and a rear mount bracket 46 of a pair of front side frames 21. A power unit 15 is disposed in front of the sub frame 13 within the vehicle body and the power unit 15 is supported on the pair of front side frames 21. An inclined surface 66 is formed in the sub frame 13 and the inclined surface 66 is inclined at an upward slope toward the rear of the vehicle body. The rear part 32a of the power unit 15 is made to face the inclined surface 66.
Provided are an eNB a UE and wireless communication methods. The eNB in an embodiment comprises: circuitry operative to fill a SPS activation/deactivation field in a DCI with a predetermined pattern of bits; and a transmitter operative to transmit the DCI to a first UE for the first UE to start periodically transmitting signals to a second UE or stop periodically transmitting signals to the second UE based on the SPS activation/deactivation field wherein the DCI is in a SPS format formed by adopting part or all bits of at least one field of DCI format 5 as the SPS activation/deactivation field and information supposed to be transmitted in the at least one field is indicated with the assistance of or by RRC or MAC signaling.
Apparatuses and methods to adjust voltage for thermal mitigation are provided. The apparatus includes a circuit a plurality of switches configured to provide power of a power domain to the circuit a plurality of thermal sensors disposed at different locations about the circuit and configured to detect temperatures at the different locations and a control circuit configured to determine that one of the detected temperatures at one of the locations exceeds a temperature threshold and in response adjust one or more of the plurality of switches in proximity with the one location to reduce power provided to the circuit. The method includes providing power of a power domain through a plurality of switches detecting a temperature at a location exceeding a temperature threshold and adjusting the plurality of switches in proximity with the location to reduce the power provided in response to the detecting the temperature exceeding the temperature threshold.
| (51) International classification       | G06Q40/08 |
| (31) Priority Document No             | 2015-249425 |
| (32) Priority Date                    | 22/12/2015 |
| (33) Name of priority country         | Japan |
| (86) International Application No     | PCT/JP2016/086299 |
| Filing Date                          | 07/12/2016 |
| (87) International Publication No     | WO 2017/110461 |
| (61) Patent of Addition to Application Number | NA |
| Filing Date                          | NA |
| (62) Divisional to Application Number | NA |
| Filing Date                          | NA |

(57) Abstract:

[Problem] To provide insurance specific to a worker by calculating a reasonable premium from the actual condition of the worker based on the personnel labor information of the worker the calculated premium being set in the insurance. [Solution] An insurance providing device 1 provides insurance specific to a worker based on personnel labor information for the worker in which a premium is set in accordance with the personnel labor information that varies. The device is configured to be capable of communication through a personnel labor information managing device 2 and a network NW and has an insurance information DB1A storing insurance information comprising a subscription requirement for the insurance based on the personnel labor information as well as a reference value for the premium set in accordance with the personnel labor information. A determination processing unit 12 refers to a personnel labor information DB2A and the insurance information DB1A and determines whether the worker can subscribe to a predetermined insurance. As a result if the worker satisfies the subscription requirement for the predetermined insurance a calculation processing unit 13 calculates a premium to be imposed on the worker based on the reference value of the premium and the personnel labor information of the worker.

No. of Pages : 33 No. of Claims : 14
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<td>3) KORTEN, Malte</td>
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| **Abstract** | The present disclosure provides methods of making a vitreous bond abrasive article and a metal bond abrasive article. The methods include sequential steps. Step a) includes a subprocess including sequentially: i) depositing a layer of loose powder particles in a confined region; and ii) selectively applying heat via conduction or irradiation to heat treat an area of the layer of loose powder particles. The loose powder particles include abrasive particles and organic compound particles as well as vitreous bond precursor particles or metal particles. The layer of loose powder particles has substantially uniform thickness. Step b) includes independently carrying out step a) a number of times to generate an abrasive article preform comprising the bonded powder particles and remaining loose powder particles. Step c) includes separating remaining loose powder particles from the abrasive article preform. Step d) includes heating the abrasive article preform to provide the vitreous bond abrasive article comprising the abrasive particles retained in a vitreous bond material or to provide the metal bond abrasive article. A method of making a metal bond abrasive optionally includes infusing an abrasive article preform with a molten lower melting metal and solidifying the molten lower melting metal to provide the metal bond abrasive article. The present disclosure further provides a vitreous bond abrasive article precursor and a metal bond abrasive article precursor. |

No. of Pages : 25 No. of Claims : 18
An image display device is provided with: an acquisition unit for acquiring two or more items of information; a detection unit for detecting one or more of the acceleration orientation and angular velocity of the image display device; an image change unit for determining the state of the image display device on the basis of the results detected by the detection unit switching in accordance with the determined state of the image display device between information selected from the two or more items of information acquired by the acquisition unit and generating display data on the basis of the switched information; and a display unit for displaying the display data.
(54) Title of the invention: METHODS AND SYSTEMS FOR GENERATING COLOR REMAPPING INFORMATION SUPPLEMENTAL ENHANCEMENT INFORMATION MESSAGES FOR VIDEO

(57) Abstract:
Systems methods and computer readable media are described for providing improved color remapping. In some examples a video bitstream is obtained that includes a plurality of pictures having a first color characteristic. A color remapping information (CRI) supplemental enhancement information (SEI) message is identified from the video bitstream. A restriction is placed on the CRI SEI message such that a value of a syntax element of the CRI SEI message is restricted based on a condition. One or more samples of the plurality of pictures is remapped from the first color characteristic to a second color characteristic using a color remapping model of the CRI SEI message according to the restriction. In some cases the condition is a chroma format of the plurality of pictures in which case the value of the syntax element of the CRI SEI message is restricted based on the chroma format. In some cases the condition is a color remap value identifying a purpose of the color remapping model of the CRI SEI message in which case the value of the syntax element of the CRI SEI message is restricted based on the color remap value.

No. of Pages: 66  No. of Claims: 55
Systems and methods for managing access to a cache relate to determining one or more execute permissions associated with a write-address of a write-request to the cache. The cache may be a unified cache for storing data as well as instructions. If there is a write-miss in the cache for the write-request a cache controller may determine whether to implement a write-allocate policy or a write-no-allocate policy for servicing the write-miss based on the one or more execute permissions. The one or more execute permissions can relate to a privilege level associated with the write-address. Execute permissions of a producing agent which generated the write-request and an execute permission of a consuming agent which can execute from the write-address may be based on the privilege levels of the producing agent and the consuming agent respectively.
A method for processing data in a graphics processing unit including receiving an indication that all threads of a warp in a graphics processing unit (GPU) are to execute a same branch in a first set of instructions storing one or more predicate bits in a memory as a single set of predicate bits wherein the single set of predicate bits applies to all of the threads in the warp and executing a portion of the first set of instructions in accordance with the single set of predicate bits. Executing the first set of instructions may include executing the first set of instruction in accordance with the single set of predicate bits using a single instruction multiple data (SIMD) processing core and/or executing the first set of instruction in accordance with the single set of predicate bits using a scalar processing unit.
Title of the invention: GAS-INSULATED SWITCH GEAR USING DUAL MOTION WITH MULTI-LEVER

Abstract:
The present disclosure may allow the movable base and the second movable contact driven in a dual-motion manner to be connected by a plurality of levers, and a force transferred to the movable base while the plurality of levers are in close contact with one another or released from the close contact may be transferred to the second movable contact, and thus a size of the levers may not be required to increase even when a stroke ratio between the movable base and the second movable contact increases, thereby having an effect capable of minimizing a size of the gas circuit breaker as well as appropriately controlling a stroke ratio between the movable base and the second movable contact. FIG. 8
COMPOSITION TO REDUCE DNA AND PANCREATIC DAMAGE AND TO ENHANCE REPAIR THEREOF

The invention relates to a composition to reduce DNA and hepatic damage and to enhance repair thereof. More particularly, the invention relates to a synergistic composition comprising a combination of active ingredients which can be used in a beverage composition and also relates to a beverage composition comprising said synergistic composition of active ingredients, wherein each active ingredient in the combination composition and/or beverage composition in appropriate concentration synergistically reduces the DNA damage as well as hepatic damage due to alcohol consumption and/or due to other reasons. The composition also enhances repair of the DNA and hepatic which has already been damaged. The composition also synergistically reduces hangover, modulates and/or alleviates immunology parameters and CNS parameters due to alcohol consumption and due to other reasons. Further, a beverage composition comprising above synergistic composition and method of preparation thereof is provided.
**Title of the invention:** A NOVEL METHOD TO FABRICATE CARBON FIBRE REINFORCED ARIS PENDULUM FOR ADVANCED LIGHT CHOPPERS

**Abstract:**
Passive vibration isolation uses materials and linkages that absorb and damp the amplitude of vibration. This technique is widely used in choppers to counter the vibration caused primarily due to the main rotor system. Pendulum absorber is a member of vibration isolation system, which helps in passive suppression of vibrations. ARIS (Anti-Resonance Isolation System) pendulum is a cylindrical-shaped member, which houses the tuning mass and transfers the inertia forces to the structure through elastomeric bearings. The monolithic construction with the use of uni-directional and bi-directional carbon epoxy fabric promotes weight reduction, reliability and efficient vibration reduction in the fuselage. This invention deals with the unique method of manufacturing carbon fibre composite pendulum using sophisticated tooling in the form of closed mould coupled with an intensifier, to achieve close dimensional tolerance and avoiding any defects in the form of wrinkles and layer folds. The closed mould with an inner core to fabricate a variable circular cross sectional tube section along the length of component, has also been developed in-house. Manufacturing of Composite Pendulum with the subject method provides the following advantages: > Uniform pressure application on the component along with vacuum results in void free & excellent compaction properties > Achieving variable thickness of the tube section along the part length with the use of intensifier > Achievement of close dimensional tolerances The manufacturing process of Composite pendulum has evolved over a significant duration and over 500 units are in service, the robustness of the method has been proven by the continuous fabrication of defect free components.
Title of the invention: DISPLAY SUBSTRATE, MANUFACTURING METHOD THEREOF AND DISPLAY PANEL

Abstract:
ABSTRACT A display substrate, a manufacturing method thereof and a display panel are provided. The display substrate includes: a base substrate (10) and an alignment film (20) disposed on the base substrate (10). The base substrate (10) includes a plurality of pixel units (100), each of the pixel units (100) including an active display region (110) and a peripheral region (120) located on the periphery of the active display region (110). The alignment film (20) located at the peripheral region (120) is configured not to cause aligned liquid crystal molecules to deflect during operation, and the alignment film (20) located at the active display region (110) is configured to cause the aligned liquid crystal molecules to deflect during operation. Upon being applied with voltage, the liquid crystal molecules in the periphery region (120) do not rotate, i.e., taking on a black image, which plays the light shading role of an ordinary black matrix. Thus, it is possible to decrease the size of the black matrix, raise the aperture ratio of pixels, and promote the transmissivity of the display substrate.
The present disclosure relates to the prioritization of devices taking part in a multi-user random access wireless communication. Based on some known conditions devices that comply with the conditions are given preferential treatment during the random access period. The preferential treatment may refer to the eligible devices being allowed to access more resource units during the random access or it may also mean faster access to the medium during the random access. By taking advantage of the methods described in the present disclosure it is possible to assign higher priority to selected frame types and/or device categories in a multi-user random access wireless communication system.
Title of the invention: COOPERATIVE MIMO AMONG BASE STATIONS WITH LOW INFORMATION INTERACTION, A METHOD AND APPARATUS FOR SCHEDULING THE SAME

Abstract:
A method, for use in a base station of a wireless network, for conducting a multiple-input multiple-output (MIMO) communication with a mobile terminal based on scheduling, comprising the steps of: A. acquiring (S20) signal-quality-related information between said base station and each mobile terminal in the vicinity of said base station; B. acquiring (S21) indication information relevant to said base station, indicating mobile terminals associated with said base station; C. when said indication information indicates that said mobile terminals associated with said base station include multiple mobile terminals which need a downlink signal transmission via the same time-frequency resource from said base station, generating a pre-coded matrix according to the Channel Status Information, further referred to as CSI, between said base station and the multiple mobile terminals; D. pre-coding, by utilizing said pre-coded matrix, service data to be transmitted to the multiple mobile terminals so as to generate pre-coded downlink signals to be transmitted to the multiple mobile terminals, wherein, before the step B, the method further comprises a step of: receiving signal-quality-related information reported by other at least one base station; said step B further comprises a step of: determining indication information for said base station and said other one or more base stations respectively according to said signal-quality-related information acquired by said base station and signal-quality-related information reported by said other one or more base stations, said indication information is used for indicating mobile terminals respectively associated with said other one or more base stations; and the method further comprises the step of: informing said other one or more base stations with said indication information respectively determined for said other one or more base stations. Fig. 3
(12) PATENT APPLICATION PUBLICATION
(21) Application No.6437/CHE/2015 A

(19) INDIA

(22) Date of filing of Application: 30/05/2016

(43) Publication Date: 27/07/2018

(54) Title of the invention: NOVEL MURAMYL PEPTIDE DERIVATIVE COMPOUND, SYNTHESIS AND USES THEREOF

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2) COUNCIL OF SCIENTIFIC AND INDUSTRIAL RESEARCH

(72) Name of Inventor:
1) Krishna Murthy Ella
2) Brunda Ganneru
3) Halmathur Mahabalarao Sampath Kumar
4) Miryala Sreekanth

(57) Abstract:
Novel muramyl dipeptide derivative compound represented by the structural Formula-VIII (MDP-AA) and a process for synthesis thereof are disclosed. Structural Formula-VIII (MDP-AA) Wherein, \( n \) can be any natural number(s), and: wherein R or R1 is selected from the group consisting of a hydrogen, heteroatom substituted alkyl (with both linear and branched chains), cycloalkyl, arylalkyl, heteroaryl represented by \( \text{CH}_3, \text{CH}_2\text{CH}_3, \text{CONH}_2, \text{COOH}, \text{CH}_2\text{OH}, \text{CH}(\text{CH}_3)\text{OH}, \text{CH}(\text{CH}_2\text{CH}_3), \text{CH}_2\text{CH}(\text{CH}_3)\text{2}, \text{CH}(\text{CH}_3)\text{CH}_2\text{CH}_3, \text{CH}_2\text{C}_6\text{H}_5, p\)-hydroxy benzyl, \( \text{CH(OH)}\text{CH}_3, \text{CH}_2\text{CONH}_2, \text{CH}_2\text{CH}_2\text{CONH}_2, \text{CH}_2\text{CH}_2\text{CH}_2\text{NH}_2, \text{CH}_2\text{COOH}, \text{CH}_2\text{CH}_2\text{COOH}, \) and; wherein \( \alpha \) or \( \beta \) is selected from the group consisting cyclic amino acids such as proline, homoproline, pipercolinic acid, \( 4\)-hydroxy L-proline, Azetidine carboxylic acid, piperezic acid. These compounds possess excellent pharmacological properties, in particular immunomodulating properties for use as adjuvant in vaccine formulations. These compounds are, particularly useful as adjuvants in vaccines. The process of synthesis of MDP-AA with variation in amino acid binding conjugates are also disclosed. The starting compound L-alanyl-D-isoglutamine benzyl ester, used to obtain MDP-AA, is synthesized according to the scheme A. Further, MDP-AA is obtained according to step wise reactions mentioned in the scheme B.

No. of Pages: 56 No. of Claims: 24
A multi rotor permanent magnet synchronous motor (100) comprising: a motor main shaft (3) and a primary mechanism (1) and auxiliary mechanism (4) sequentially sleeved and connected on the motor main shaft (3) and operating cooperatively; the auxiliary mechanism (4) comprises a one way bearing member (41) sleeved and connected on the motor main shaft (3) and an auxiliary rotor module (40) sleeved and connected on the one way bearing member (41). The multi rotor permanent magnet synchronous motor (100) does not need to use a gear box to realize driving and consumes little energy and since the primary mechanism (1) and auxiliary mechanism (4) operate cooperatively the invention can output different torques and thereby output different speeds.
Title of the invention: A METHOD, KIT AND SYSTEM FOR PREPARING AN ANTIBODY PAIR AND THE USE OF THE KIT

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Abstract:
The application discloses a method, kit and system for preparing an antibody pair, and the use of the kit. Wherein the method comprises using an antigen-binding fragment of an existing antibody as a capture antibody and using an anti-crystallizable fragment antibody as a labelled antibody to directly screen a target antibody which can be paired with the existing antibody from cell culture supernatant. By using the technical solution of the present application, the cell culture supernatant can be directly screened to obtain the antibody pair without requiring a large-scale preparation, purification and labelling of the antibody to be screened, thereby greatly reducing the workload. FIGURE 1
Systems and methods for performing unit testing are described. During code level testing of the software code, the software code is scanned and converted into compiled code which is received by the system. The system further converts back the compiled code into its source code which comprises several units of source. However, the system filters out only user-defined units of source code for testing. The system further identifies rules for the units of source to be tested. Further, based on the rules and content of the units of source code, the system determines expected parameters. Further, the system utilizes the expected parameters for generating test cases for units of source code. The test cases generated may be a combination of positive and/or negative test case. This way, the system automatically generates the test cases and performs unit testing by using the generated test cases. FIG. 1

No. of Pages : 27 No. of Claims : 12
A multi-display system (e.g., a display including multiple display panels) includes at least first and second displays (e.g., display panels or display layers) arranged substantially parallel to each other in order to display three-dimensional (3D) features to a viewer(s). Panel vibration (e.g., lateral vibration) and/or selective backlight control is/are used to reduce moire interference in order to improve image quality to viewer(s). [Figure 1]
The present disclosure discloses an intelligent connector module coupled to a bus and a load module of electrical equipment. The intelligent connector module includes: a circuit board; a bus interface connector mounted on the circuit board and coupled to the bus; a load interface connector mounted on the circuit board and coupled to the load module; and a control detection circuit mounted on the circuit board and coupled between the bus interface connector and the load interface connector. The intelligent connector modules are adapted to couple the loads having different functions to the bus, and the whole bus control system thus has a good extension and generality. If there is a failure in a certain intelligent connector module, only this failed intelligent connector module, rather than the main control module and other intelligent connector modules, may need to be replaced, and thus the repair of the bus control system is quite convenient with low cost.

No. of Pages : 16 No. of Claims : 15
A poly(methyl methacrylate) (PMMA) membrane having a highly porous, reticulated, 3-D structure suitable for lateral flow diagnostic applications is described. Also described is a method for producing a poly(methyl methacrylate) (PMMA) membrane that comprises the steps of mixing a suitable amount of PMMA, a solvent and a optionally one of either a co-solvent or a nonsolvent to produce a solution, casting a thin film of the solution onto a support, and removal of the solvent from the solution to produce the PMMA membrane. A lateral flow diagnostic device comprising a highly porous PMMA membrane as a reaction membrane is also described.
A knitting tool bar (1) having a body (2) that has a longitudinal direction, and a knitting tool receptacle (5) which has a multiplicity of grooves (6) that run transversely to the longitudinal direction, knitting tools (4) being releasably disposed in said grooves (6), is specified. The intention is to be able to operate a warp knitting machine in an economical manner. To this end, it is provided that the knitting tool receptacle (5) is disposed on a knitting tool support (11) which is releasably fastened to the body (2). Fig. 1
**Title of the invention**: SYSTEMS AND METHODS FOR TIME-BOUND HOMOGENOUS CONSECUTIVE EVENTS TRIGGERING A PROCEDURE IN AN ACCESS CONTROL HOST SYSTEM

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**Name of Applicant**: 1) HONEYWELL INTERNATIONAL INC.
Address of Applicant : 101 Columbia Road, POB 2245, Morristown, N.J. U.S.A.

**Name of Inventor**: 1) GOPALAKRISHNA, Rajesh

**Abstract**: Systems and methods for time-bound homogeneous consecutive events triggering a procedure in an access control host system are provided. Some methods can include receiving notifications of a plurality of events occurring in an access control system, identifying an event trigger when at least some of the plurality of events are homogeneous, time-bound, and consecutive, and, responsive to identifying the event trigger, transmitting an instruction to at least one device in the access control system for execution of a procedure associated with the event trigger.

No. of Pages : 15 No. of Claims : 15
The invention relates, inter alia, to a method for determining a time offset between measurement values, which indicates the time offset between a first measurement value, which has been detected using a measurement device (21) arranged at a first location (11) in an electrical line (10) or an electrical network, and at least one second measurement value, which has been identified using at least one measurement device (22) arranged at a second location (12) in the electrical line (10) or the electrical network. There is provision in accordance with the invention for a first measurement vector (JJA) to be identified as the first measurement value and a second measurement vector (tJB) to be identified as the second measurement value, for a line-based phase difference value, which, in the event of synchronous measurement vector measuring, describes the line-based phase offset.
Title of the invention: METHOD AND DEVICE FOR TRANSMITTING UPLINK SIGNAL

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Name of Applicant: BEIJING XIAOMI MOBILE SOFTWARE CO., LTD.
Address of Applicant: Room 01, Floor 9, Rainbow City Shopping Mall II of China Resources, NO. 68, Qinghe Middle Street, Haidian District, Beijing China

Name of Inventor: HUANG, Jiangtao

Abstract:
The present disclosure relates to a method and a device for transmitting an uplink signal and belonging to the field of communication technology. The method includes: when an uplink signal to be transmitted is detected, judging whether there is at least one unsheltered antenna array in a plurality of antenna arrays, in which the plurality of antenna arrays are arranged in a terminal, and the unsheltered antenna array is an antenna array of which all antennas are not sheltered; when there is at least one unsheltered antenna array in the plurality of antenna arrays, selecting an antenna array from the at least one unsheltered antenna array; and transmitting the uplink signal via the selected antenna array. With the present disclosure, a quality of transmitting the uplink signal is enhanced.

No. of Pages: 31 No. of Claims: 13
AUTHORIZATION PROCESS FOR PROCESSING ABNORMAL COMBUSTION IN THE HEAT ENGINE OF MOTOR VEHICLE

The invention concerns an authorization process for processing abnormal combustions in the heat engine of motor vehicle containing a combustion chamber, abnormal combustions being due to self-ignition of unwanted, uncontrolled and unforeseen air and gas mixture in the aforementioned combustion chamber, a specific operating mode of the heat engine being set up when an abnormal combustion is detected. The specific operating mode is authorized as long as a predetermined calibratable target ratio of a maximum mass of nitrogen oxides released from the heat engine in the exhaust gases per kilometer travelled is not attained or is estimated as not attained in the next predetermined unelapsed period having stared at the beginning of driving the motor vehicle.

FIG. 1

No. of Pages : 21 No. of Claims : 10
Title of the invention: DYNAMIC PIPELINE THROTTLING USING CONFIDENCE-BASED WEIGHTING OF IN-FLIGHT BRANCH INSTRUCTIONS

Abstract:
Systems and methods for operating a processor include determining confidence levels such as high, low, and medium confidence levels associated with in-flight branch instructions in an instruction pipeline of the processor based on counters used for predicting directions of the in-flight branch instructions. Numbers of in-flight branch instructions associated with each of confidence levels are determined. A weighted sum of the numbers weighted with weights corresponding to the confidence levels is calculated and the weighted sum is compared with a threshold. A throttling signal may be asserted to indicate that instructions are to be throttled in a pipeline stage of the instruction pipeline based on the comparison.
A fuel cell system including: a solid oxide type fuel cell that is supplied with an anode gas and a cathode gas to generate an electric power; a fuel tank that stores a water-containing fuel containing water; a fuel supply passage that couples the fuel cell to the fuel tank; a reformer disposed on the fuel supply passage, the reformer reforming the water-containing fuel into the anode gas; a separator disposed on the fuel supply passage in an upstream side with respect to the reformer, the separator separating the water contained in the water-containing fuel; a detector disposed in the upstream side with respect to the reformer, the detector detecting or estimating a moisture content contained in the water-containing fuel; and a control unit that controls the separator. The control unit controls the separator on the basis of the moisture content detected or estimated by the detector.
Title of the invention: FUEL CELL SYSTEM AND CONTROL METHOD THEREFOR

Abstract:
This fuel cell system is equipped with a solid oxide fuel cell receiving the supply of anode gas and cathode gas to generate power and comprises: a cathode gas supply unit supplying the cathode gas via a cathode gas supply path to the fuel cell; a first combustor provided on the cathode gas supply path; a second combustor for burning anode off gas and cathode off gas discharged from the fuel cell; a first branching path branching upstream from the first combustor and merging downstream from the first combustor on the cathode gas supply path; and a second branching path branching downstream from the first combustor on the cathode gas supply path and merging with a cathode off gas discharge path which discharges the cathode off gas from the fuel cell to the second combustor.
Title of the invention: FUEL CELL SYSTEM AND CONTROL METHOD FOR FUEL CELL SYSTEM

Abstract:
This fuel cell system is equipped with: an oxidizing agent supply device for supplying oxidizing agent gas to a fuel cell; a fuel passage letting fuel gas pass through to the fuel cell; a fuel supply device provided on the fuel passage; and a combustor for combusting and eliminating fuel off gas and oxidizing agent off gas discharged from the fuel cell. The control method for this fuel cell system comprises: a power generation control step of supplying the fuel gas and the oxidizing agent gas to the fuel cell to cause the fuel cell to generate power; and when the fuel battery system is to be stopped a stop control step of stopping the supply of the fuel gas to the fuel cell and supplying the oxidizing agent gas to the combustor on the basis of the amount of unburnt fuel gas in the fuel cell system.

No. of Pages: 48  No. of Claims: 16
**Title of the invention:** IMPROVED PROCESS FOR THE SYNTHESIS OF AMOROLFINE AND ITS HYDROCHLORIDE SALT

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<td>1) BHEMIREDDY, Satyanarayana Reddy</td>
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<td>2) YARAPATHI, Venkat Reddy</td>
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<td>3) PAIDIMARLA, V. Vara Prasada Reddy</td>
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**Abstract:**
The invention discloses an improved process for the preparation of Amorolfine Base of Formula-I which is further converted into the Active Pharmaceutical Ingredient (API) Amorolfine Hydrochloride of Formula-Ia. The Amorolfine Hydrochloride obtained by the process has high HPLC purity and reduced impurities like Fenpropimorph (tert butyl impurity) and starting material impurity.

No. of Pages: 28 No. of Claims: 17
Abstract:
Embodiments of a sensor device and methods for manufacturing the same are disclosed. In one embodiment a sensor device comprises a piezoelectric micromechanical ultrasonic transducer (PMUT) array configured to transmit and receive ultrasonic signals where the PMUT array comprises a plurality of PMUTs and the PMUT array is flexible one or more integrated circuits configured to process the ultrasonic signals a battery configured to provide power to the PMUT array and the one or more integrated circuits a coupling material configured to hold the PMUT array the one or more integrated circuits and the battery and a capsule configured to seal the PMUT array the one or more integrated circuits the battery and the coupling material within the capsule.

No. of Pages : 22 No. of Claims : 30
(54) Title of the invention : ANHYDROUS COMPOSITION WITH NON-STICKY FEELING

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<tr>
<td>Name of Inventor</td>
<td>TAN, Jingxian, XU, Zhen</td>
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(57) Abstract :
The invention relates to an anhydrous composition comprising: a. at least one oil selected from ester containing at least 18 carbon atoms; b. at least one pasty compound; c. at least one ester of dextrin and fatty acid; and d. at least one non-emulsifying organopolysiloxane elastomer.

No. of Pages : 32 No. of Claims : 15
**Title of the invention:** LAMINATED SHEETS AND METHOD FOR THE PRODUCTION THEREOF

**Abstract:**

The invention relates to a laminated sheet having a surface layer on at least one sheet surface which as the outermost layer has a polymer coating with a polyurethane(meth)acrylate polymer and which is characterized by excellent scratch resistance and resistance to weather. Furthermore a method for the production of polyurethane(meth)acrylate-coated laminated sheets is provided.

No. of Pages: 30 No. of Claims: 17
Abstract:
A system for use with beam signals the system including: a crest factor reduction (CFR) module having inputs and corresponding outputs wherein each of the inputs is for receiving a corresponding different beam signal of the beam signals and wherein each output corresponds to a different input of the plurality of inputs and is for outputting a different CFR-adjusted signal of a plurality of CFR-adjusted signals each CFR-adjusted signal of the plurality of CFR-adjusted signals corresponding to a different beam signal of the plurality of beam signals; and a transmitter connected to the outputs of the CFR module wherein the CFR module is configured to perform crest factor reduction on the beam signals to generate the plurality of CFR-adjusted signals and wherein the crest factor reduction performed on the beam signals is based on a weighted sum of the magnitudes of multiple beams signals among the beam signals.
The invention relates to a device for mounting and dismounting of cutter-arbor assembly on and from 3-Axis HMC machine, comprising a base plate (1) to mount the assembly on the machine with the help of a first plurality of screws (4); at least one support column (2) mounted on the base plate (1), the support columns (2) used for placement of a plurality of steady in required orientations and mounted on the base plate (1) with the help of a second plurality screws (4); a locking arm (3) used for locking the movement of the plurality of steady in forward or reverse direction allowing sliding of the plurality of steady through the arbor in correspondence with the movement of machine head and ultimately dismounting the steadies from the machine.

No. of Pages : 14 No. of Claims : 3
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| (72) Name of Inventor            | 1) DUKHIRAM MAJI |

The present invention relates to single link bottom discharge door mechanism. The current invention proposes to introduce a quick and reliable bottom discharge door mechanism with three large single linked doors with 6 large door openings for application on high axle load hopper type wagons on the Indian Railways.

No. of Pages : 16  No. of Claims : 5
A permeable reactive barrier made of steel slag for purifying industrial waste water comprises five consecutive chambers. A water inlet system is made in the 1st chamber which is the reservoir of plant waste water and from this chamber water flows down to from first to fifth chamber sequentially.
(54) Title of the invention: METHOD FOR REDUCING THE AADHAAR ENABLED PAYMENT SYSTEM (AEPS) TRANSACTION TIME BY LINKING AADHAAR NUMBER WITH A VIRTUAL PAYMENT ADDRESS AND WITHOUT HAVING TO FEED IN AADHAAR NUMBER AND ISSUER BANK MANUALLY.

(51) International classification: H04L5/00, G06Q30/00, H04W60/00

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(72) Name of Inventor:
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2) Alakesh Das
3) Gopal Singh
4) Joydeep Ghosh

(57) Abstract:
The method comprises: completing registration process (1) by both buyer and seller; When both buyer & seller have smartphones, the seller, after downloading the app, generates a dynamic QR by entering Amount and description (optional) using the Payskp app (or a static QR in the sticker distributed to the seller). The Buyer scans the merchant QR through his Payskp app. After buyer initiates payment request, the customer Aadhaar & linked Bank information is pushed to the buyer smartphone. After confirmation by buyer of payment receipt request, buyer biometric is captured in the device connected with merchant smartphone and AEPS transaction request is sent to NPCI from merchant device. The transaction gets completed once the biometric verification process is approved by UIDAI and notification is sent to both merchant and buyer. When no smart phone with buyer; the buyer is issued with a QR printed on low cost PVC card for long lasting purpose. Buyer QR is linked with his Aadhaar number and linked bank details. Merchant scans the buyer QR and retrieves the Aadhaar number and linked bank details. Merchant enters the amount and captures buyer biometric in the device connected with merchant smartphone. AEPS transaction request is sent to NPCI from merchant device. The transaction gets completed once the biometric verification process is approved by UIDAI and notification is sent to both merchant and buyer.
The invention relates to a planetary gear (10) with a first and a second gear stage (20, 30), comprising a housing (12) and a first shaft (16), which is connected in the first gear stage (20) for torque transmission to a first planet gear carrier (22), wherein the first shaft (16) is accommodated in a bearing (17) on a wall (14) of the housing (12), and the second gear stage (30) comprises a second planet gear carrier (32), which is connected for torque transmission to a sun gear shaft (21) of the first gear stage (20), characterized in that the second planet gear carrier (32) is accommodated in an axially inner bearing (42), which is arranged on the first planet gear carrier (22) and/or is accommodated in an axially outer bearing (44), which is accommodated in the wall (14) of the housing (12).
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<th>(12) PATENT APPLICATION PUBLICATION</th>
<th>(21) Application No.201834002885 A</th>
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<td>(19) INDIA</td>
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<td>(22) Date of filing of Application :24/01/2018</td>
<td>(43) Publication Date : 27/07/2018</td>
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<td>(54) Title of the invention : METHOD AND APPARATUS FOR DETECTING THE SYNCHRONIZATION SIGNAL IN WIRELESS COMMUNICATION SYSTEM</td>
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<td>(51) International classification :H04L 27/26</td>
<td>(71) Name of Applicant : 1) SAMSUNG ELECTRONICS CO., LTD. 2) Yongjun KWAK 3) Taehyoung KIM 4) Juho LEE</td>
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<td>(32) Priority Date :25/01/2017</td>
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<td>(33) Name of priority country :Republic of Korea</td>
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<td>(86) International Application No :NA</td>
<td>(72) Name of Inventor : 1) Donghan KIM 2) Yongjun KWAK 3) Taehyoung KIM 4) Juho LEE</td>
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(57) Abstract:
Disclosed is a method and apparatus for performing, by a terminal, time and frequency synchronization with a base station in an initial access process to the base station. The method includes receiving, by the terminal, a physical broadcast channel, and detecting a synchronization signal based on the received physical broadcast channel.

No. of Pages : 76 No. of Claims : 20
Title of the invention : OPTICAL IMAGING LENS SYSTEM, IMAGE CAPTURING UNIT AND ELECTRONIC DEVICE

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<td>G02B13/00</td>
<td>1)LARGAN Precision Co., Ltd.</td>
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<td>Address of Applicant : No.11 Jingke Rd. Nantun Dist., Taichung City, Taiwan, R.O.C.</td>
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<tr>
<td>106103068</td>
<td>2)LIU, Ssu-Hsin</td>
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<td>Priority Date</td>
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<td>Name of priority country</td>
<td>2) YANG, Shu-Yun</td>
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Abstract:
An optical imaging lens system includes six lens elements which are, in order from an object side to an image side, a first lens element, a second lens element, a third lens element, a fourth lens element, a fifth lens element and a sixth lens element. The first lens element has negative refractive power. The third lens element has an object-side surface being concave in a paraxial region thereof and an image-side surface being convex in a paraxial region thereof. The fourth lens element has positive refractive power. The fifth lens element has negative refractive power. The sixth lens element has positive refractive power.

No. of Pages : 131 No. of Claims : 35
**Title of the invention:** ABRASIVE PARTICLES HAVING A UNIQUE MORPHOLOGY

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**Abstract:**

An abrasive particle having an irregular surface, wherein the surface roughness of the particle is less than about 0.95. A method for producing modified abrasive particles, including providing a plurality of abrasive particles, providing a reactive coating on said particles, heating said coated particles; and recovering modified abrasive particles.

No. of Pages: 52 No. of Claims: 9
Title of the invention: ABRASIVE PARTICLES HAVING A UNIQUE MORPHOLOGY

Abstract:
An abrasive particle having an irregular surface, wherein the surface roughness of the particle is less than about 0.95. A method for producing modified abrasive particles, including providing a plurality of abrasive particles, providing a reactive coating on said particles, heating said coated particles; and recovering modified abrasive particles.

No. of Pages: 51  No. of Claims: 5
Title of the invention : ABRASIVE PARTICLES HAVING A UNIQUE MORPHOLOGY

Abstract:
An abrasive particle having an irregular surface, wherein the surface roughness of the particle is less than about 0.95. A method for producing modified abrasive particles, including providing a plurality of abrasive particles, providing a reactive coating on said particles, heating said coated particles; and recovering modified abrasive particles.

No. of Pages : 52 No. of Claims : 16
Title of the invention: ABRASIVE PARTICLES HAVING A UNIQUE MORPHOLOGY

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<td>Divisional to Application Number Filed on :1111/KOLNP/2011</td>
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1) DIAMOND INNOVATIONS, INC.
   Address of Applicant: 6325 Huntley Road, Worthington, OH 43086, USA.

Name of Inventor:
1) DUMM, Timothy, F.
2) NG, Kan-yin

Abstract:
An abrasive particle having an irregular surface, wherein the surface roughness of the particle is less than about 0.95. A method for producing modified abrasive particles, including providing a plurality of abrasive particles, providing a reactive coating on said particles, heating said coated particles; and recovering modified abrasive particles.

No. of Pages: 52 No. of Claims: 10

CONTINUED TO PART- 2