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

10th MARCH, 2017
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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>
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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>
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<td>Phone: (91)(22) 24123311, Fax: (91)(22) 24123322, E-mail: <a href="mailto:cgpdtn@nic.in">cgpdtn@nic.in</a></td>
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<td>Phone: (91)(33) 2367 1943/44/45/46/87, Fax: (91)(33) 2367 1988, E-Mail: <a href="mailto:kolkata-patent@nic.in">kolkata-patent@nic.in</a></td>
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Website: [www.ipindia.nic.in](http://www.ipindia.nic.in)  
[www.patentoffice.nic.in](http://www.patentoffice.nic.in)

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

Fees: The Fees may either be paid in cash or may be sent by Bank Draft or Cheques payable to the Controller of Patents drawn on a scheduled Bank at the place where the appropriate office is situated.
पेटेंट कार्यालय
कोलकाता, दिनांक 10/03/2017

* कार्यालयों के क्षेत्राधिकार के पते

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

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4 पेटेंट कार्यालय, भारत सरकार इंडिस्ट्रियल रिसेठ बिल्डिंग, इंडिस्ट्रियल इस्टेट एसआईसीसी आरएमडी गोडाडन एरिया एडीसेन्ट टाइ ईंगल फ्लास्क, जी. एस. टी. रोड, गायल्डी चेन्नई - 600 032. फोन: (91)(44) 2250 2081-84 फैक्स: (91)(44) 2250-2066 ई. मेल: chennai-patent@nic.in

5 पेटेंट कार्यालय, भारत सरकार कोलकाता, प्रशासन संस्थान बौद्धिक संपदा भवन, सीपी-2, सेक्टर- V, साल्ट लेक सिटी, कोलकाता-700 091, भारत. फोन: (91)(33) 2367 1943/44/45/46/87 फैक्स/Fax: (91)(33) 2367 1988 ई. मेल: kolkata-patent@nic.in

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

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाए, विवरण या अन्य दस्तावेज़ या कोई अन्य पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होगे।

शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ज्व्याफ या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

The Patent Office Journal 10/03/2017 5963
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)
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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:

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<td>(22) Date of filing of Application :27/09/2016</td>
<td>(43) Publication Date : 10/03/2017</td>
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<td>(54) Title of the invention : A DEVICE WITH IMPROVED MODULATION CAVITY FOR HIGH PULSE MICROWAVE SIGNAL GENERATION AND METHOD THEREOF</td>
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<td>1) MANPURAN MAHTO</td>
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<td>Address of Applicant :Centre of Research in Microwave Tubes</td>
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<td>(CRMT) Lab, Department of Electronics Engineering, Indian</td>
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<td>Institute of Technology (BHU) Varanasi-221005, Uttar Pradesh, India</td>
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<td>(72) Name of Inventor :</td>
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<td>2) PRADIP KUMAR JAIN</td>
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<table>
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<th>(57) Abstract :</th>
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<td>The present invention relates to a method and device for high pulse microwave generation. The device is equipped with a radially coupled modulation cavity for effective modulation of a relativistic beam within the cavity for HPM generation. The device comprises a field emissive annular cathode; a radially coupled modulation cavity; a post acceleration gap; a drift tube; an extraction cavity; and a beam bump. The modulation cavity further comprises four pillbox cavities, of which two pillbox cavities are axially connected along z-axis direction and other two pillbox cavities are radially coupled from the top and bottom side of said axially connected pillbox cavities. The axial cavities are separated by three discs with holes that allow passage of the electrons along with confinement of electromagnetic waves between the discs.</td>
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No. of Pages : 29 No. of Claims : 15
The present invention relates to communication method or system mostly in the automation industry, which can be either use for home and Industrial use both, to technically optimize and efficient utilization of resources like the communication channel. Embodiments of the present invention provide a system for managing the switching of appliances and equipment is an essential part, thus the invention is not only decrease the processing needs of the system but also proves helpful in simplifying the programming needs also. Eight Bits of a Byte (0/1 can be the value of each one) wherein Consecutive bits representing either 0 or 1 at any point in time which can then be converted into decimals and can be then transmitted on the communication channel, at the receiving end the communication received will interpret the message bits as serial status codes for the mechanical switches or equipment directly attached to the system.

No. of Pages : 10 No. of Claims : 8
Title of the invention: METHOD AND SYSTEM FOR GENERATING VISUALIZED INFORMATION

Abstract:
The present disclosure describes method and system for generating visualized information. The system enables forming a data pool for career-related information, collected from one or more sources comprising at least one of candidate resumes, career & company websites, job portals, online assessment portals, professional networking platforms, social media platforms and a combination thereof. The system further analyses unstructured data and transforms it into a format readable by a computer. The system comprises a machine learning based algorithm wherein processed information is translated into a career tree, based on similar attributes present in background of other users. Further, the algorithm detects one or more missing data points and triggers user-specific survey questions on the interaction platform. The system provides a comprehensive data platform with all possible deviations to certain career path, based on career path data collected from multiple users.

No. of Pages : 27 No. of Claims : 9
**Title of the invention:** A CONTAINER FOR FLUIDS AND A BACKPACK DEVICE FOR CARRYING THE SAME.

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**Abstract:**
The container composed of polymer comprising of a main body portion having a plurality of panels such as a top panel, a bottom panel, a front panel, a back panel, a plurality of side panels, a back furrow having a C shaped curvature present on the back panel creating additional comfort while carrying and travelling, a plurality of depressions and a plurality of ribs on a container surface so the container can stand in upright position. A whistle attached to a knuckle at the bottom end of one of the shoulder strap that emits ultrasound frequency. A back pack device comprises of a belt arrangement which modifies the center of gravity of the container thus reducing the efforts of the person carrying the container and a whistle with frequency that repels reptiles, lizards, et cetera. A plurality of reflective strips prevents accident of person carrying water by moving vehicles in night time.

No. of Pages : 28
No. of Claims : 9
**Title of the invention:** READY TO ASSEMBLE PARTS FOR BUILDING FURNITURE & HOME WALL AND FLOOR AND METHOD FOR CONSTRUCTING SAME.

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**Abstract:**
ABSTRACT TITLE: READY TO ASSEMBLE PARTS FOR BUILDING FURNITURE & HOME WALL AND FLOOR AND METHOD FOR CONSTRUCTING SAME. The invention consists of some standard parts designed such that the parts attach and interlock into each other by transition fit to form a solid and complete product. The thus formed product can be any furniture desired which can be assembled according to the provided instructions. The same parts can be used for building home walls at a faster rate. Use of the invention in both the cases is very simple and easy for any user. In case of furniture making using the same parts in different number allows us to make various furniture products for example a bed, cupboard, sofa, desk etc. And many more can be done. The invention allows the user to easily assemble and disassemble the part for transporting it in small pieces kit form which can fit in very small space instead of carrying a big and heavy furniture product in one piece. In case of using the invention for building home walls the interlocking ready to assemble parts can prove very useful in saving time and money. As the parts are interlocking themselves by transition fit use of additional bonding material such as cement is not mandatory for holding the wall together and assembly process requires less skill, thus saving time and money. The proposed invention provides a replacement for bricks for construction of walls. Materials used for furniture can be wood/plywood or plastic whereas for building home structures materials can be cement, concrete, or metal, also wood for wooden homes.

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

**Address of Applicant:** Pratik V. Gangurde
1, jai bhvani road, nashik, Maharashtra India

**Name of Inventor:**
1) Pratik V. Gangurde
Title of the invention : SEA-WEED LIQUID FERTILIZER COMPOSITION AND METHOD FOR MANUFACTURING THEREOF.

Abstract:
In one of the important aspect of the invention it is provided that a Seaweed extract in a solvent or in combination of solvent is extracted and effective amount of the extract an excess solvent is used as liquid fertilizer, the Seaweed includes from various families induces chlorophyceae, rhodophyceae and phaeophyceae families or combination of thereof; The seaweed of the present invention seaweeds selected for liquid fertilizer composition is Ulva fasciata Delite, Sargassum tenerimum J. Ag., and Hypnea valentiae (Turn) Mont or mixture thereof, the mixture of seaweed liquid extract in a solvent is collectively called as Sagarsanjivani; Preparation of composition of the seaweed extract as Sagarsanjivani; The aqueous extract prepared from the seaweeds Ulva fasciata Delite, Sargassum tenerimum J. Ag., and Hypnea valentiae (Turn) Mont in the concentration of 100% mixed in the ratio of 1:1:1 v/v to obtain composition of seaweed extract which is then compared as fertilizer with branded known variant to obtain morphological and biochemical results which as depicted in table 2-4. In the other aspect of the invention a method for preparation of an extract of the seaweed is also provided after drying and extraction in solvent includes water or water miscible alcohol, further providing concentration in an effective amount.

No. of Pages : 19 No. of Claims : 10
Disclosed is a system to enhance heat transfer coefficient, and further increase in thermo-hydraulic performance of a solar air heater. The system includes an absorber plate and plurality of V shaped ribs. The absorber plate absorbs and convects heat. The plurality of V shaped ribs having plurality of pre-defined symmetrical gaps with plurality of staggered ribs. The V shaped ribs configured with the absorber plate to generate a secondary flow of cells. In an embodiment the staggered ribs are placed in front of the symmetrical gaps to achieve maximum scattering of air flow. The staggered rib, and the symmetrical gaps having a same pre-defined length to prevent interference of a secondary vortices with the reattachment point of the air flow.
Present invention discloses a method of generating a DNA fingerprint for identification of a genotype comprising the steps of:

Collection of plant samples for DNA extraction, DNA isolation from a plant or a part thereof, DNA quantification and dilution up to the concentration of 25 ng/µL, amplification of genomic DNA using microsatellite markers. Obtaining a single allele for a single primer with a single genotype, and finally generation of fingerprint on the basis of different amplicons sizes using self invented computer program and identifying the genotype based on generated fingerprint. The method also discloses the method of identification or authentication of a specific plant variety containing any adulterant plant or part thereof e.g. soybean by application of the disclosed method.

No. of Pages : 22 No. of Claims : 10
Present invention in general relates to develop and design an efficient adaptive power line interference canceller. The objective of the proposed method is to develop an efficient adaptive power line interference canceller for biomedical signal processing. In this work, various adaptive PLI cancellation algorithms are evaluated and two new algorithms are proposed. The proposed algorithm combines two different approaches; NSLMS and PID to get an efficient solution for adaptive PLI cancellation. Two different versions; PID based Response Adjustment for Reducing Error (PID-RARE) and PID based Coefficient Adjustment for Reducing Error (PID-CARE) are proposed. The PID controller attempts to minimize the error over time by adjusting the control variables kp, ki and kd. Combining PID with adaptive algorithm improvise the process of updating filter coefficients. The performances of proposed systems are evaluated on the basis of Output Signal to Noise Ratio (SNRout), Correlation Coefficient (CC), Mean Square Error (MSE), Percent Root Mean Square Difference (PRD) and Convergence Rate. The proposed algorithms have shown significant improvement in overall system performance. Following invention is described in detail with the help of Fig. 1 of sheet 1 showing adaptive PLI canceller using PIDRARE algorithm and Fig. 2 of sheet 2 showing adaptive PLI canceller using PIDCARE algorithm.
**Title of the invention:** HEARING AID FOR HEARING IMPAIRED WITH MINIMUM LATENCY FOR BETTER PERCEPTION OF THE SPEECH SIGNAL.

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<th>:H04M1/60,H04R25/00</th>
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<td>1) JAYANT JANARDHAN CHOPADE</td>
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<td>Address of Applicant: ASB-10, NEAR SHREE-VILLA GUEST HOUSE, ASHWIN NAGAR, NASHIK, MAHARASHTRA, PIN 422009, INDIA. Maharashtra India</td>
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<tr>
<td>1) DR. N. P. FUTANE</td>
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<tr>
<td>2) MAHESH TUKARAM KOLTE</td>
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Present invention in general relates to develop method and technique for analysis of printing pressure over entire printing area of sheet fed offset printing machine and in particular to quantitative tool to analyze printing pressure variation across the print area. In this experimental work the densitometry is used to devise alternative subjective method to give information about the levels of printing pressure across the print area. The image across the print area is divided into uniformly spaced small patches and one thousand sheets of uncoated paper are printed with magenta process ink on large format offset printing machine. Three sheets, 102nd, 502nd and 902nd, representing start, middle and the end of the print run are selected. Out of each identified sheets three patches are selected from left middle and right columns giving total nine locations from across the print area. The reflection densities, of nine cyan patches uniformly covering the print area, are measured using electronic densitometer for each of the sheets and tabulated. This approach, involving statistics, is aimed at providing a quantitative tool to analyze printing pressure variation across the print area and within the print run. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the guide to printer in preparing layout for solid density printing.
Theft and accidental alerts on mobile with tracking system for vehicle comprising control unit which is master part of the unit, GPS module and GPRS module are works for tracking and sending latest alters to the user with the help of control unit. Accidental sensor is connected to control unit and gives the accidental alters to register mobile numbers, RF receiver and RF transmitter is for valid user identification. Display and keypad is for registering the mobile no for getting alters of theft and accident of vehicle. Ignition sensor is for altering the control unit.

No. of Pages : 15 No. of Claims : 8
Title of the invention: A BRUSHLESS DIRECT CURRENT CEILING FAN

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Abstract:

An assembly of a BLDC ceiling fan is described. The ceiling fan may comprise motor housing having upper cover (11) and bottom cover (10) holding the permanent magnet rotor (17) mounted on the shaft (22) via upper bearing (16) and lower bearing (15). The ceiling fan may further comprise blades (12) mounted on top of motor upper cover (11) and stator (21) comprising upper frame (213) and lower frame (214) serving as insulator for copper windings (212) which is configured to mount switch mode power supply (SMPS) module (19) and motor controller module (18). The ceiling fan comprises infrared (IR) receiver module (14) mounted on IR receiver holder (27) on lower end of shaft (22) below lower bearing (15) and is exposed to user remote through IR lens (13). The windings (212) and IR receiver module (14) connected to motor controller module (18) which is powered by SMPS module (19).

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Name of Inventor:

1) Manoj Meena
**Title of the invention:** ORGANIC LIGHT EMITTING DISPLAY PANEL AND METHOD FOR FABRICATING THE SAME

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**Name of Inventor:**
1) **CAI, Yu**

**Abstract:**
An organic light emitting display panel and a method for fabricating the same are provided by the present invention. The organic light emitting display panel includes: a substrate (10); a light emitting element layer (11) disposed on the substrate (10), the light emitting element layer (11) is provided with a plurality of first grooves (100); and an encapsulation layer (12) disposed on the light emitting element layer (11), the plurality of first grooves (100) are filled with the encapsulation layer (12).

No. of Pages: 62 No. of Claims: 20
Title of the invention: ACARICIDE AGAINST IXODID TICKS.

Abstract:
Tick borne disease affect 80% of worlds cattle population and are widely distributed throughout the continents, particularly in the tropics and subtropics. Acaricide against cattle ixodid tick prepared using cow urine, neem oil and dishwashing soap (purchased from local market). The acaricide was sprayed on the body of cattle specifically on predilection site of ticks for vivo efficacy. The result obtained indicate that tick get paralyzed and killed within an hour of spraying, histological studies of cuticle before and after spraying also were carried out.

No. of Pages: 14 No. of Claims: 10
Title of the invention: SYSTEM & METHOD FOR QUICK STORAGE & EASY RETRIEVAL OF HANDWRITTEN MEDICAL RECORDS USING MOBILE PHONE & BACKEND TRANSCRIPTION.

Abstract:
The invention comprises of systems and methods to capture the paper based handwritten treatment prescription of doctor or any paper based handwritten note through a simple process of clicking the picture of the handwritten document from the mobile phone camera or uploading previously photographed or scanned copies to a secure server to digitally store these images as a document archive for easy search & future retrieval of these records with the aid of manual transcription by backend transcriptionists or use of automated optical character recognition softwares or combination of both.
Title of the invention : ILLUMINATED EXAM WRITING PAD

Abstract:
Illuminated Exam Writing Pad is very eco friendly and easy to use. As it is light in weight so can be easily handled. Here Illuminated Exam Writing Pad is so designed that during day time the solar panel attached on back side of it absorbs light energy and converts it into electric energy, this electric is then stores in rechargeable batteries and can be effectively used to study at night.

No. of Pages : 10
No. of Claims : 4
This invention relates to a cold storage system having an improved air circulation comprising civil construction part and a refrigeration system. The civil construction part includes a thermally insulated structure, an evaporator for supplying cold air from the refrigeration system to the civil construction part, and a duct for defining a flow passage of the cold air to circulate the cold air supplied from the evaporator within the civil construction part; wherein the duct arrangement comprises at least one fan and at least one slot. The duct arrangement is mounted inside civil construction part on the opposite of the evaporator mounting. Results of the measured and/or calculated performance parameters such as temperature distribution, Coefficient of performance (COP), and power consumption, clearly indicates that the present invention provides the simple and novel duct arrangement for improved air circulation.
**Title of the invention:** MULTIFUNCTION PROTECTIVE LID FOR FUEL TANK IN VEHICLES

**Abstract:**
A system to avoid the emission of hydrocarbons from fuel into the atmosphere, the said system uses a flexible and adjustable cover along with the fuel tank cap that remains in contact with the fuelling nozzle at the time of refilling of the fuel tank, the said mechanism is to be provided along with the conventional fuel tank cover cap, the said flexible cover arrangement is useful every now and then while refilling the fuel tank, as the fuelling nozzle is inserted into the fuel tank for fuelling purpose the flexible cover remains in contact with the nozzle thereby not allowing the hydrocarbons from the fuel to escape into the atmosphere. Also, the cover avoids the entry of the dusty particles into the fuel tank thereby reducing the chances of the choking of carburetor. Once the fuelling nozzle is removed after refilling, the flexible cover returns to its place and once again covers the fuel tank.

No. of Pages: 10 No. of Claims: 8
The present invention discloses a system and a method for marking over a plurality of substrates. The marking is visible in moist surrounding. The device implements an efficient plasma marking process enabling a mark with a longer life and has efficient working even under irregular grounding conditions using vacuum. The device for marking over a plurality of substrates has slow start switching modes suitable for power sensitive equipment. FIG. 1

No. of Pages: 38  No. of Claims: 1
**Title of the invention:** WATER SAVING APPARATUS

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**Abstract:**
A water saving apparatus 104 for use at or near a water outlet is provided. The apparatus includes a first element 104A, a second element 104B and a strainer 104C. The first element may have an internal volume on inner surface and a collar 104D on outer surface. The inner surface may include a circular slot 104A1, a hole 104A3, and a channel 104A2. The channel 104A2 connecting and for passage of water from the circular slot 104A1 to the hole 104A3. The second element may include a solid section 104B1 and a hollow cylindrical section 104B2 within the solid section 104B1. The second element 104B may be placed in the inner surface of the first element 104A to regulate water flow. The strainer 104C may be connected suitably to the second element 104A to remove suspended particles from the water from the water outlet 102, thus providing filtering and water flow regulation at the same time.

No. of Pages : 19  No. of Claims : 10
The present invention relates to a atmospheric water generator. Specifically, the invention provides an apparatus for generating purified drinking water from the atmospheric air using traditional power grid. The apparatus utilizes a standard dehumidification technique to condense the pressurized or compressed air to water. For achieving this, the apparatus uses electricity from the power grid to cool air (or increase pressure), which results in a formation of water vapor. Then the captured water vapor from the air gets condensed to water. Thus, the apparatus provides a 99% pure and safe drinking water from the humidity present in the air.

No. of Pages : 24 No. of Claims : 9
Title of the invention: THE PREPARATION OF BENZIMIDAZO-IMINO THIAZOLIDIN-4-OLS, BENZIMIDAZO-AMINO THIAZOLES AND ARYL DIAMINO THIAZOLES AND ANTICANCER ACTIVITIES THEREOF.

Abstract:
The present invention provides a compound of general formula A, B, and C useful as potential anti-cancer agents against human cancer cell lines and process for the preparation thereof. Present invention further relates to iminothiazolidin-4-ols of general formula A as anticancer agents and process for the preparation thereof. Present invention further relates to benzimidazole linked to iminothiazolidin-4-ols of general formula A with C-N bond useful as anticancer agents. Present invention further relates to aminothiazoles of general formula B as anticancer agents and process for the preparation thereof. Present invention further relates to benzimidazole linked to aminothiazoles of general formula B with C-C bond useful as anticancer agents. Present invention further relates to aminothiazoles of general formula C as anticancer agents and process for the preparation thereof. Present invention further relates to aryl diamine linked to aminothiazoles of general formula C useful as anticancer agents.

No. of Pages: 31 No. of Claims: 8
### An Improved Videolaryngoscope

#### Abstract:

The present improved video laryngoscope mainly comprises of a holding device; the part which is inserted inside mouth in curvature form; which further comprises of: high resolution camera, LED, IC, wire arrangement, ON-OFF and a display (screen) at rear end (near hand holding with 360 X 90 Degree movement) which shows inside image; wherein said there are two or more screens (display device) employed; of which one is mounted on distal end of holding device and another at remote place to observe and advise over the investigation from remote area.; said remote screens can be connected to camera with wire or wirelessly; a blade (25), mounted on curved portion of holding device which is preferably disposable blade; said Blade (25) is mounted on curved portion of holding device which is to be inserted in to oral cavity to shield holding device and prevent any contact with patient™s oropharyngeal structures.

No. of Pages : 21  No. of Claims : 4
Title of the invention: HELICAL PUMP ASSEMBLY

Abstract:
Helical pump assembly comprises of suction case-2, intermediate pipe-3 & holder-5 welded together to form rigid structure of bottom assembly-17, stator assembly-7 fasten on adapter-6 in a way that adapter-6 works as intermediate link & firmly hold stator assembly-7 & bottom assembly-17, NRV assembly-34 mounted on top of the stator assembly-7 & capable to receive discharge pipe in outlet side, rotor-10 placed inside the stator assembly-7, connecting rod fasten at bottom of the rotor-10 & another end of the connecting rod-9 capable to receive motor shaft/driver shaft.

No. of Pages : 10 No. of Claims : 10
Present invention provides complete automatic cleaning of water ionization chamber and high performance electrolysis of water ionization system. A unique water ionizer with automatic cleaning function or system or device or method with specific structural arrangements; is empowering and maintain to regular end users drinking water quality and completely cleans the water ionizers ionization chamber and parts automatically; particularly in them ionization chamber, ionization plates, mesh plates and etc. all ionization chamber area. Following invention is described in detail with the help of Figure 1 of sheet 1 showing self-auto cleaning and high performance electrolysis water ionizer.

No. of Pages : 21 No. of Claims : 6
Title of the invention : THE EFFICIENT TOOTHBRUSH

Abstract :
A toothbrush for more efficient cleaning in most difficult accessible areas around the teeth the head assemble consist of primary head which is rigid and accessory heads attached to primary head in suspended state with the help of memory retainer alloy which is super elastic in nature

No. of Pages : 10 No. of Claims : 4
Abstract: This invention relates to a novel hydrocarbon fuel and a method of manufacturing the said hydrocarbon fuel from a novel biomass source. The hydrocarbon fuel has the following ingredients in the proportion herein defined: a. Limonene 2% to 60% b. Benzoyl Peroxide 1% to 5% c. Iso Propyl Alcohol 1% to 5% d. Glycerine 5% to 25% e. Tetra Hydrofurn 10% to 40% f. Tertiary Butyl Alcohol 10% to 20% g. Ethyl Formate 5% to 30% h. Methyl Alcohol 5% to 25% i. Cyclopentane 2% to 10% j. Ethyl Alcohol 22% to 40% k. Methyl formate 5% to 40% l. Calcium Carbide 10% to 30% m. Acetic Acid 10% to 50%
(57) Abstract:
Dyes (Strains) are very important role in biology including microbiology, histology etc. In microbiology, whether the dyes are used to observe microbes under microscopic condition. The sections of tissues, cells, DNA and other cellular organelles were observed under microscopic using dyes. There are many number of dye was used in biological studies. But these dyes are not Eco-friendly. In commonly, Nigrosin, India ink/ congo red, crystal violet, methylene blue, safranin, Grams iodine, carbolfuchsin, malachite green etc. Mostly these dyes are chemically synthesized one. The present study has been focused the extraction of Eco-friendly dyes from prickly pear plant fruit and to used in microbial staining.

No. of Pages: 10
No. of Claims: 3
(54) Title of the invention: A PROCESS OF PREPARING EFFICIENT HERBAL NANOPARTICLES OF SOLASODINE FOR BREAST CANCER

(57) Abstract:
The present invention relates to a process of preparing herbal nanoparticles of solasodine by micro emulsion cross linking technology using gelatin type B, PMMA, toluene and glutaraldehyde. Herbal nanoparticles of solasodine are aimed to deliver solasodine at targeted site of anti breast cancer therapy in chemically induced breast adenocarcinoma at a faster rate than the pure solasodine. Thus herbal nanoparticles of solasodine are effective in the management of breast cancer.

No. of Pages: 30 No. of Claims: 5
A light for beautification purpose is disclosed that uses a holographic element illuminated by LED for generation of some special structure and the structure gets propagated utilizing Talbot-Lau effect. The hologram is an in-line computer-generated phase hologram, which generates the holographic image within a few centimeters when illuminated with a monochromatic LED light. The holographic image made to convolve with a 3D comb function to generate a 3D periodic array of the structure. The periodic structure then reconstructs itself up to a certain distance along the propagation direction. Another 3D comb function, same as the previous one, is placed in the propagation path for enhancement of the reconstructions.
Publication After 18 Months:
The following Patent Applications have been published under Section 11A (3) of The Patents (Amendment) Act, 2005. Any Person may file representation by way of opposition to the Controller of Patents at the appropriate office against the grant of the patent in the prescribed manner under section 25(1) of the Patents (Amendment) Act, 2005 read with the rule 55 of The Patents (Amendment) Rules, 2006:

(12) PATENT APPLICATION PUBLICATION (21) Application No.201617035707 A
(19) INDIA
(22) Date of filing of Application : 19/10/2016 (43) Publication Date : 10/03/2017

(54) Title of the invention : SELF-CAPACITIVE FINGERPRINT SENSOR WITH ACTIVE AMPLIFIED PDCELS

(51) International classification :G06K9/00,G06F3/041
(31) Priority Document No :62/060526
(32) Priority Date :06/10/2014
(33) Name of priority country :U.S.A.
(86) International Application No Filing Date :PCT/CN2015/091490 :08/10/2015
(87) International Publication No Number :WO 2016/055007 :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)VANG Mengta
3)HE Yi

(57) Abstract :
A fingerprint sensor device (100) is provided. The fingerprint sensor device (100) includes a substrate (104) and a sensor chip (102) disposed over the substrate (104). The sensor chip (102) includes an array of sensor pixels (108) configured to generate fingerprint data by sensing ridges and valleys of a surface of a finger (101) contacting the fingerprint sensor device (100). Each sensor pixel (108) includes a single sensor electrode (112) and an amplifier (122) having an inverting terminal electrically connected to the sensor electrode (112) and a non inverting terminal electrically connected to a drive signal. The drive signal generates electric fields between the sensor electrode (112) and at least one of the ridges and valleys of the surface of the finger contacting the fingerprint sensor device (100) to generate a variable capacitor (130) having a variable capacitance based at least partly on a distance between the sensor electrode (112) and the at least one of the ridges and valleys of the finger (101).

FIG. 1B

No. of Pages : 23 No. of Claims : 42
This invention relates to a polymeric pipe and more particularly to a polymeric pipe where the pipe comprises a crosslinked polyolefin formed from extruded polyolefin comprising a photoinitiator. More particularly, this invention relates to the manufacturing of plastic pipes and tubing by utilizing co-rotating twin-screw extrusion combined with photo-induced crosslinking of thermoplastic polymers such as polyethylene to produce PEX pipes and tubing.

No. of Pages : 47 No. of Claims : 57
The present invention relates to a super absorbent resin having improved solidification resistance and a method for preparing the same. More specifically, the super absorbent resin having improved solidification resistance comprises a super absorbent resin microparticles and water and is characterized in that the temperature of the super absorbent resin or water or the aging time at stirring is controlled when adding water in order to improve the solidification resistance of the super absorbent resin thereby preventing caking of the particles.
Title of the invention: METHOD AND DEVICES FOR CONTROLLING USAGE OF MULTI PATH TCP

Abstract:
The present disclosure relates to a method performed by a network element in a communication network. The method comprises inspecting (91) traffic between a radio device and the communication network. The method also comprises based on said inspecting (91) determining (92) that the traffic is part of a TCP subflow of an MPTCP connection. The method also comprises based on said inspecting (91) calculating (93) a ratio of how much data is transmitted in the subflow in relation to the total amount of data transmitted in the MPTCP connection over a predetermined time period. The method also comprises observing (94) that the calculated ratio is below a reference ratio. The method also comprises based on said observing (94) performing (95) an action for preventing congestion in the communication network. (Fig 9a)
An inkjet printing method for producing images durable for outdoor usage including the steps of: a) inkjet printing on a substrate a UV curable colourless primer including monofunctional monomers in a range of 40 wt% to 65 wt% based on the total weight of the UV curable colourless primer; b) at least partially UV curing the inkjet printed UV curable colourless primer; and c) inkjet printing on the at least partially cured UV curable colourless primer one or more UV curable colour inkjet inks including monofunctional monomers in a range of 30 wt% to 60 wt% based on the total weight of the UV curable colour inkjet inks; wherein a ratio of the wt% monofunctional monomers in the UV curable colourless primer over the wt% monofunctional monomers in the one or more UV curable colour inkjet inks is between 0.65 and 2.10.
Title of the invention : SOUND INSULATOR

Abstract:
This sound insulator contains a flexible material (A) having a peak of the loss tangent (tand) determined by dynamic viscoelasticity measurement in the temperature range of at least 60°C and less than 0°C and a resin (B) having a peak of the loss tangent (tand) determined by dynamic viscoelasticity measurement in the temperature range of 0°C to 60°C inclusive there being 1 to 50 parts by mass of the resin (B) for every 100 parts by mass of the flexible material (A). The sound insulator is a material that does not rely on a complex shape and achieves superior sound insulating performance without an increase in weight.
**Title of the invention:** ORBITAL TENSIONER

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<td>International Publication No: WO 2015/167602</td>
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<td>MARTINEZ Arnaud</td>
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<td>DILTHEY Jochen</td>
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<td>HAENBEUKERS Casper</td>
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**Abstract:**

An orbital tensioner comprising a base a carrier engaged with the base and revolvable about an axis A a first pulley journalled to the carrier a pivot arm mounted to the carrier the pivot arm pivotable about an axis B B a second pulley journalled to the pivot arm the axis B B is orbitally movable about axis A A a spring engaged between the carrier and the pivot arm and a damping mechanism frictionally engaged between the carrier and the base to damp a carrier movement.

No. of Pages: 12  No. of Claims: 17
The invention relates to a high voltage feedthrough 1 comprising an insulating body 4 that is arranged concentrically around a cylindrical winding support 2 consisting of electrically conductive material conductive control inlays 5, 51 which capacitively control said high voltage feedthrough 1. Said high voltage feedthrough 1 are spaced apart from one another by means of insulation layers 6 and are arranged concentrically with said winding support as well as a connection device 7 for establishing an electrical connection between a first control inlay 51 closest to the winding support and said winding support 2. The invention is characterised in that the connection device contains an electrical sliding contact.

No. of Pages : 17 No. of Claims : 11
**Title of the invention:** OLEFIN BASED RESIN METHOD FOR PRODUCING SAME AND PROPYLENE BASED RESIN COMPOSITION

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**Abstract:**
Provided are an olefin-based resin (β), which satisfies the following requirements (I) to (VI), and a propylene-based resin composition comprising the same. (I) (β) comprises a grafted olefin-based polymer [R1] which has a main chain comprising an ethylene/α-olefin copolymer and a side chain comprising a propylene polymer. (II) The ratio (Pwt%) of the propylene polymer contained in (β) is 5 to 60wt%. (III) When the ratio of a component, which shows a peak temperature lower than 65°C in a differential elution curve measured by cross fractionation chromatography (CFC) using ortho-dichlorobenzene as a solvent, to (β) is referred to as (Ewt%), the value (a) represented by formula (Eq-1) is 1.4 or greater: 

\[ a = \frac{100 - E}{P} \] 

[wherein E and P are as defined above]. (IV) When measured by differential scanning calorimetry (DSC), the melting temperature (Tm) is 120 to 165°C and the glass transition temperature (Tg) is -80 to -30°C. (V) The content of matters insoluble in hot xylene is less than 3wt%. (VI) The limiting viscosity [η] measured in decalin at 135°C is 0.5 to 5.0 dl/g.

No. of Pages : 181 No. of Claims : 12
Title of the invention: METHOD AND DEVICE FOR TESTING A TAP CHANGER OF A TRANSFORMER

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**Abstract:**
For testing a tap changer (20) of a transformer (5; 6) which tap changer is designed to change a transmission ratio of the transformer (5; 6) the following steps are carried out: generating a test signal which is supplied to a winding (13; 10) of the transformer (5; 6) and to the tap changer (20). Repeatedly actuating the tap changer (20) in order to change the transmission ratio with each actuation, determining a curve of an electrical measurement variable (I; I; I) of the transformer (5; 6) over time (t) for each actuation of the tap changer (20) depending on the test signal. Filtering the curves (41; 42) in order to prevent at least one of the curves (41; 42) from being output. Outputting the filtered curves (41; 42).
Title of the invention: REVERSE ACTING RUPTURE DISC WITH BUCKLING CONTROL FEATURE

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Abstract:
A reverse acting pressure relief device (10) is provided comprising buckling control structures namely pocket regions (20, 22) and belt regions (24) having differing material thicknesses. The pocket regions (20, 22) generally comprise areas of reduced material thicknesses and serve to weaken the structural integrity of the bulged section (12) of device (10) so that reversal can be initiated at lower pressures. Belt regions (24) generally comprise areas of enhanced mechanical properties that assist with reversal control and opening of bulged section (12) thereby ensuring complete opening of the device (10).

No. of Pages: 14
No. of Claims: 27
The invention relates to a method in which provision is made of a first assembly (10) comprising a field of gripping elements (12) and a second assembly (20) provided with holding means (22) designed to engage with the gripping elements (12) of the first assembly (10) in order to realize touch and close attachment. The first and second assemblies are brought into contact such that the gripping elements (12) of the first assembly and the holding means (22) of the second assembly realize touch and close attachment. A treatment zone of the touch and close attachment is treated so as to deform the gripping elements (12) of the first assembly (10) and/or the holding means (22) of the second assembly (20) with the result that the first and the second assembly (10 20) are definitively secured and thus form a joined structure.
A radio frequency inductive heating apparatus includes a control device a plurality of radio frequency devices a plurality of transformers a resonant tank circuit a heating element a first power supply and a second power supply. The radio frequency devices are selectively activated by the control device and each of the plurality of radio frequency devices is coupled to the primary winding of one of the plurality of transformers. The secondary winding of each of the plurality of transformers is coupled to the resonant tank circuit and the heating element is coupled to the resonant tank circuit. The plurality of radio frequency devices includes a first radio frequency device and a second radio frequency device. The first radio frequency device is coupled to the first power supply and the second radio frequency device is operatively coupled to the second power supply. A corresponding method is also disclosed.
Title of the invention : SOUND TREATMENT ASSEMBLY FOR A FLUID TRANSMISSION LINE

Abstract :
A sound treatment assembly (110) includes an outlet member (112) having a bore (120) extending along a longitudinal axis (114) and a first flange portion (122) is adapted to be coupled to a portion of a valve body (124) of a regulator valve (126). The first flange portion includes a contoured mating surface (128) adapted to mate with a corresponding contoured portion (130) of an exterior surface (132) of the valve body. The outlet member also includes a second flange portion (134) disposed at a second end (118). A diffuser assembly (135) includes a diffuser housing (136) extending along the longitudinal axis and a first flange portion (150) is disposed at a first end (138) of the diffuser housing and is adjacent to the second flange portion of the outlet member. One or more diffuser elements (155) are disposed within an interior (142) of the diffuser housing to reduce noise levels in the fluid exiting the outlet member.
The present invention pertains to a combination for detecting a target marker easily and with high sensitivity. More specifically, the present invention pertains to a combination for detecting a target marker in a biological specimen in which is concomitantly employed a target marker binding molecule capable of specific binding to the target marker in a biological specimen wherein the combination includes (a) a first binding agent that includes a target substance and a first binding molecule capable of specific binding directly or indirectly to the target marker binding molecule; (b) a linker molecule capable of specific binding to the first binding agent; and (c) a second binding agent capable of specific binding to the linker molecule the second binding agent including a second binding molecule and a target substance.
The invention relates to the general field of head mounted display systems for aircraft comprising a head support a display device means for detecting the posture of the head support means for detecting the current heading (C1) of an aircraft and means for the graphical generation of said heading. The system of the invention comprises means for controlling displaying and selecting headings arranged such that: in response to a first command said means display a second heading (C2) known as the heading set value and a third heading (C3) known as the support heading corresponding to the direction of the head support in a terrestrial reference frame said direction given by information resulting from the detection of the posture of the head support and means for detecting the current heading; and in response to a second command said means replace the second heading with the third heading thereby becoming the new heading set value.
Systems and methods for evaluating muscle pain within a patient by determining the minimum stimulation magnitude at which one or more physiological pain signals can be detected within a selected muscle of the patient. Disclosed herein in one aspect is a system for evaluating pain within at least one selected muscle of a patient. The system can comprise at least one stimulation source at least one sensor and processing circuitry.

No. of Pages : 28 No. of Claims : 20
Title of the invention: METHOD FOR MANUFACTURING OUTER JOINT MEMBER FOR CONSTANT VELOCITY UNIVERSEAL JOINT AND OUTER JOINT MEMBER

Abstract:
Provided is a method for manufacturing an outer joint member for a constant velocity universal joint formed by welding a cup member with which a torque transmission element is engaged and a shaft member wherein: the cup member and the shaft member are formed from medium carbon steel; the cup member is prepared by forming a cylindrical section and a base section as a single unit by forge processing and forming a joining end surface on the outer surface of the base section in a mechanical processing step; the shaft member is prepared by forming a joining end surface that is joined to the base section of the cup member in the mechanical processing step; and the joining end surface of the cup member and the joining end surface of the shaft member are abutted and welded by irradiating the abutted sections with a beam from outside the cup member in the radial direction. In the method the external diameter of the joining end surface of the cup member is set to the same dimension for each joint size; on the internal diameter side of the joining end surface of either the cup member or the shaft member a projecting surface that projects further radially inward than the internal diameter of the other joining end surface is provided; and an ultrasonic flaw detecting examination step is provided in which after welding is performed in the foregoing state a flaw detection is performed from the surface side of the member with the other joining end surface.
**Title of the invention:** VISCOSITY MODIFIER FOR LUBRICATING OILS ADDITIVE COMPOSITION FOR LUBRICATING OILS AND LUBRICATING OIL COMPOSITION

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**Name of Inventor:**
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2) SUZUKI Terufumi
3) IDE Kenta
4) HUANG Chor

**Abstract:**
Provided are a viscosity modifier for lubricating oils for obtaining an additive composition for lubricating oils having excellent fluidity in a wide temperature range from low temperature to high temperature; and said additive composition for lubricating oils. Further provided are a viscosity modifier for lubricating oils for obtaining a lubricating oil composition capable of reducing viscosity in good balance in a wide temperature range from low temperature to high temperature; and said lubricating oil composition. The viscosity modifier for lubricating oils includes an ethylene a olefin copolymer (A) which includes 30 to 50 mole% of structural units derived from at least one a olefin selected from a olefins having 4 and 5 carbon atoms and 50 to 70 mole% of structural units derived from ethylene (with the proviso that the total of all structural units of said copolymer is 100 mole%) and which satisfies specific requirements (a) (b) and (c).
A composition for the topical application on a mammalian skin comprises one or more Brassica plant extracts selected from the group consisting of: extract extract Brassica oleracea botrytis extract and extract. The composition further comprises one or more selected from the group consisting of: extract curcuminoids tetrahydrocurcuminoids metabolites of curcuminoids or tetrahydrocurcuminoids and derivatives of curcuminoids or tetrahydrocurcuminoids. The composition further comprises one or more selected from the group consisting of: extract extract green tea extract and white tea extract; Wasabia japonica extract; extract; extract; and one or both of extract or tetrahydropiperine.
The problem to be solved is to provide an immunochromatographic analysis device with which it is possible to measure various components present in an analyte such as blood urine or the like and to do so efficiently within a brief measurement period without the need for complicated preparations or operations. The problem is solved by an immunochromatographic analysis device containing an anionic surfactant in a test sample addition unit the immunochromatographic analysis device being used to develop an analyte containing liquid of an analyte that includes a substance for detection diluted with an analyte diluent liquid.

No. of Pages : 24 No. of Claims : 4
Provided is a tape cartridge with which it is possible to simultaneously detect the obstruction of an opening/closing lid and the presence of a tape cartridge in a tape printing apparatus. A tape cartridge (100) mounted in a removable manner in a cartridge mounting part (5) of a tape printing apparatus (1) provided with a lid detection unit (52) for detecting the obstruction of an opening/closing lid (7) provided on the cartridge mounting part (5) wherein the tape cartridge is provided with a displacement part (186). When the opening/closing lid (7) has been mounted on the cartridge mounting part (5) and is displaced from an opened state to a closed state a detection protrusion (83) provided on the opening/closing lid (7) is displaced as the opening/closing lid (7) is displaced from the opened state to the closed state and is received by the displacement part (186). When the opening/closing lid (7) is further displaced in the same direction from the opened state to the closed state the displacement part (186) actuates a detector (52b) of the lid detection part (52) along with said displacement.
Title of the invention: FLUID CONTROL DEVICES INCLUDING SELF HEALING MATERIALS AND RELATED METHODS

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Abstract:
Fluid control devices including self healing materials and related methods are disclosed. An example apparatus includes a valve body a seat ring; a plug movable relative to the seat ring to control fluid flow through the valve body and a self healing material on one of the plug or the seat ring. The self healing material to self heal without an external stimulus.

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2) MATTHEWS Kunrong
The present invention provides an entry sheet for drilling that is superior to conventional entry sheets for drilling in terms of hole position precision. The present invention is a metal foil which is an entry sheet for drilling comprising a metal foil and a resin composition containing layer which is formed at least on one surface of the metal foil wherein the resin composition contains a resin and tungsten disulfide (E) which serves as a solid lubricant and the tungsten disulfide content in the resin composition is 10 200 parts by mass with respect to 100 parts by mass of the resin in the resin composition.

No. of Pages : 45 No. of Claims : 16
Abstract:
Embodiments and associated aspects of the disclosure permit regulation of dispense of a product in a self serve environment via at least in part reconciliation of a product order originated in an access device such as a point of sale (POS) device and a product selection effected at a product dispenser configured to fulfill the product order.
The present invention relates to polypeptides which include tenth fibronectin type III domains (Fn3) that binds to serum albumin with south pole loop substitutions. The invention further relates to fusion molecules comprising a serum albumin binding Fn3 joined to a heterologous protein for use in diagnostic and therapeutic applications.
In some embodiments an apparatus includes a solenoid and a solenoid controller. The solenoid is configured to move an actuator a distance between a first position and a second position when a voltage is supplied to the solenoid. The solenoid controller is implemented in at least one of a memory or a processor and includes a feedback module and an output module. The feedback module is configured to receive a feedback signal associated with a solenoid current after the voltage is removed from the solenoid. The feedback module is further configured to determine whether the distance is less than a maximum distance between the first position and the second position (i.e. a stroke). The output module configured to produce an output signal when the feedback module determines that the distance is less than the maximum distance.
The purpose of the present invention is to provide an automatic transaction system whereby after a malfunction in the conveyancing of banknotes has occurred in an automatic transaction device a bank teller is capable of accurately and rapidly determining the validity of said malfunction in a host center. A server comprises: a storage unit that stores malfunction information being information relating to the state of malfunctions in the automatic transaction device and to malfunction history; a server control unit that controls the server; and a display unit that displays the malfunction information. An automatic transaction device connected to the server comprises a banknote unit that handles banknotes a detection unit that detects malfunctions in the banknote unit and a device control unit that controls the device. If a malfunction is detected by the detection unit: the device control unit creates malfunction information and sends the malfunction information to the storage unit for storage; the server control unit stores the malfunction information sent by the automatic transaction device in the storage unit; and the display unit displays the malfunction information stored in the storage unit.
The present invention relates to an improved process for the preparation of Apixaban and intermediates thereof. Further the present invention also relates to novel intermediate of Formula V and its process for the preparation.

No. of Pages : 24 No. of Claims : 20
**Title of the invention:** METHOD AND SYSTEM FOR BANDWIDTH DEPENDENT FILE TRANSFER

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**Abstract:**
A method and system for bandwidth dependent file transferring. A server sends a webpage code to a client to instruct the client to measure or update a current bandwidth value. The server receives from the client a request for reading a file which is located at the server and can be read at various quality levels. A quality level of the requested file appropriate to the current bandwidth value is selected to allow the server to send to the client the requested file at the selected quality level. The bandwidth value can be calculated by measuring the speed of reading a previously requested file and updated by measuring the speed of reading the current requested file.

**No. of Pages:** 30  **No. of Claims:** 20
Methods apparatuses and systems for data transmission are described. A sending terminal sends data and a data identification of the data to a server. The data identification is broadcasted to one or more receiving terminals through a short distance wireless communication. The receiving terminal obtains the data from the server according to the data identification. When the sending terminal needs to transmit data to multiple receiving terminals the techniques of the present disclosure do not require the sending terminal to establish a point to point connection with each of the receiving terminal. Thus the techniques of the present disclosure effectively reduce transmission time with multiple receiving terminals improve data transmission efficiency and lower power consumption at the sending terminal.
The present disclosure relates generally to a method for controlling pathogen infestation in human and animal subjects and agents and formulations and cells including plant extracts useful for same.

No. of Pages : 39 No. of Claims : 31
(57) Abstract:
The present disclosure is directed to a robotic surgical system that includes a robotic surgical device having a robotic arm and an end effector with a pair of jaw members. A handpiece includes a pinch interface to control the arm or end effector optical marker(s) an accelerometer and a transmitter to transmit data from the pinch interface or accelerometer to the robotic surgical device. The system further includes a tracking system to track the marker and provide a position or orientation of the handpiece. A processor receives: (i) the position or orientation of the handpiece from the tracking system; and (ii) the measured acceleration of the handpiece from the accelerometer. The processor integrates the measured acceleration to establish a second position beyond that of the tracking system. The processor controls movement of the robotic arm and end effector based on the received data from the camera or the accelerometer.

No. of Pages : 17 No. of Claims : 21
In alternative embodiments provided are methods for treating ameliorating or protecting (preventing) congestive heart failure (CHF) or a diabetes related cardiac dysfunction comprising: providing a urocortin 2 encoding and/or a urocortin 3 encoding nucleic acid transcript or message or gene operatively linked to a transcriptional regulatory sequence optionally contained in an expression vehicle or a vector such as an adeno associated virus (AAV) e.g. an AAV8 serotype; and administering to an individual or a patient in need thereof such as a type 2 diabetic (T2DM) e.g. by IV administration thereby treating ameliorating or protecting against (preventing) the T2DM and/or the diabetes related cardiac dysfunction in the individual or patient.
A method includes supplying a conjoined molten glass stream to an overflow distributor. A cross section of the conjoined molten glass stream includes a first cross sectional portion and a second cross sectional portion. The first cross sectional portion includes a first glass composition. The second cross sectional portion includes a second glass composition different than the first glass composition. The first glass composition is flowed over a first transverse segment of a weir of the overflow distributor. The second glass composition is flowed over a second transverse segment of the weir of the overflow distributor.
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| **Abstract**: |
| A ceiling system in one embodiment includes a grid support member a ceiling panel a torsion spring mounted on the ceiling panel and a spring clip slideably mounted on the grid support member and configured to retain the spring. The spring clip includes a pair of resilient locking tabs engaging the grid support member to lock the clip to the member thereby preventing withdrawing the clip from the support member. In one embodiment the locking tabs form a snap fit to the grid support member. The spring clip is positionable in a plurality of axial mounting positions on the grid support member to facilitate mounting the ceiling panel. In one embodiment the grid support member may have a T shaped cross section. |

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| **Name of Inventor**: HOLDRIDGE Daniel M. |

| **No. of Pages**: 15 | **No. of Claims**: 35 |
A dual-phase ferritic-martensitic stainless steel includes, by weight, about 11.5% to about 12% Cr, about 0.8% to about 1.5% Mn, about 0.75% to about 1.5% Ni, 0% to about 0.5% Si, 0% to about 0.2% Mo, 0% to about 0.0025% B, Fe, and impurities. In various embodiments, the steel has a Brinell hardness (HB) and Charpy V-notch impact energy at -40°C (CVN) such that CVN (ft-lb) + (0.4xHB) is about 160 or greater. Articles of manufacture including the stainless steels also are disclosed.
Title of the invention: SYSTEM AND METHOD FOR MANAGING SUPPLY OF SERVICE

Abstract:
Disclosed herein are a system and a method for managing supply of service. The system may include at least one processor that performs the operations including receiving a plurality of orders for a service; marking a locus based on the plurality of orders the marked locus relating to a first number of orders sharing a first characteristic and the marked locus relating to a first location; and identifying at least one provider of the service to whom information relating to the marked locus is to be delivered.
SYSTEM AND METHOD FOR RADIATION INSPECTION ON MOVING OBJECT

A system and method for radiation inspection on a moving object. The system comprises a radiation source and a radiation detector. Rays emitted by the radiation source are limited in a scanning area. The scanning area is provided by a first boundary surface and a second boundary surface. The system also comprises: multiple detection units (110 120 130 140 150 160) arranged along a detection channel in turn and used for triggering and sending a signal when detecting that the moving object arrives or leaves; and a control module used for receiving signals sent by the multiple detection units (110 120 130 140 150 160) and controlling the radiation source according to the received signal. The first to third detection units (110 120 130) among the multiple detection units (110 120 130 140 150 160) are located at one side of the scanning area and near the first boundary surface. The fourth to sixth detection units (140 150 160) among the multiple detection units (110 120 130 140 150 160) are located at the other side of the scanning area and near the second boundary surface. The system and the method can implement radiation inspection on moving objects travelling in multiple directions.
A monitoring system comprising: a uterine insert comprising an insert extension wherein the insert extension comprises at least one sensor; a deployment module engageable with the insert and configured to allow the insert extension to bend when the module is engaged with the insert; a system control device operationally coupled to continuously receive signals from the at least one sensor and to convert the signals into data representing the signals and a display operationally coupled to display the data from the system control device.
When a thick or curled medium is inserted friction resistance between the medium and a guide surface increases and as a result the insertion action itself becomes difficult or if insertion is possible bills crumple up in a gap between the medium and the guide surface. Provided is a media handling device having an insertion unit into which media are inserted. The insertion unit comprises a first guide section and a second guide section arranged vertically. The first guide section has a slanted surface in the width direction of a medium which faces the insertion direction of the medium said slanted surface having a tangential line that has an increased slant in the surface of contact with the medium. As a result ease of user operation is ensured curls in thick media can be flattened out and media can be inserted and accurately conveyed to inside the device.
Gluing machine (10) and corresponding method for making a box starting from a pre cut sheet and gluing the two edges of the latter together. The gluing machine (10) comprises a fixed frame (21) having at least a first support plane (25) to support the pre cut sheet a first reference member (49) to align the pre cut sheet laterally with respect to the first support plane (25) and a gluing device (46) to spread a gluing material on a fin (K) of the pre cut sheet or on one lateral wall of the latter in correspondence to the fin. The gluing device (46) and the first reference member (49) are supported by the same support member (31) mounted on the fixed frame (21) and mobile with respect to the latter between an inactive position and an operating position.
The present invention provides substantially nonionic brush polymers having pendant polyether groups preferably poly(alkylene glycol) groups which polymers are useful as synthetic polymer substitutes for cellulose ethers in mortars and hydraulic binders. The brush polymers are preferably crosslinked such as with ethylene glycol di(meth)acrylates.
Title of the invention: MULTI LAYER FILMS AND ARTICLES MADE THEREFROM

| (51) International classification | B32B27/08, B32B27/32 |
| (31) Priority Document No | 61/973448 |
| (32) Priority Date | 01/04/2014 |
| (33) Name of priority country | U.S.A. |
| (86) International Application No | PCT/US2015/023925 |
| Filing Date | 01/04/2015 |
| (87) International Publication No | WO 2015/153794 |
| (61) Patent of Addition to Application Number | NA |
| Filing Date | NA |
| (62) Divisional to Application Number | NA |
| Filing Date | NA |

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Abstract:
A multilayer film comprising a first layer comprising from greater than 0 to 100 percent by weight of an ethylene/alpha olefin interpolymer composition (LLDPE) based on the total weight of the film composition; and a second layer comprising at least 5 percent by weight of an anhydride and/or carboxylic acid functionalized ethylene/alpha olefin interpolymer having a density in the range of from 0.855 to 0.900 g/cm; and having a melt index (190°C/2.16 kg) of greater than 200 g/10 min; and from 60 to 95 percent by weight of the second layer of EVOH is provided.

No. of Pages: 31 No. of Claims: 10
A hydroformylation process wherein a water soluble amine is contacted with the reaction fluid liquid from the reactor is sent to an extraction zone and a neutralized phosphorus acidic compound is at least partially removed from the extraction zone.
Title of the invention: SPIRAL WOUND MEMBRANE MODULE WITH DEFINED FLOW RESISTANCE SECTIONS WITHIN FEED SPACER

Abstract:
A spiral wound membrane module adapted for hyperfiltration and including at least one membrane envelope and feed spacer sheet wound about a central permeate tube to form an inlet and outlet scroll face and an outer periphery wherein the feed spacer sheet includes: i) a feed entrance section extending along the permeate collection tube from the inlet scroll face toward the outlet scroll face ii) a feed exit section extending along the outer periphery from the outlet scroll face toward the inlet scroll face and iii) a central feed section located between the feed entrance section and the feed exit section; and wherein the feed entrance section has a median resistance to flow in a direction parallel to the permeate collection tube that is less than 25% of the median resistance to flow of the central feed section in a direction perpendicular to the permeate collection tube.

No. of Pages : 9 No. of Claims : 8
**Title of the invention:** OXAZOLIDINE BASED COMPOUND AND SELECTIVE ANDROGEN RECEPTOR AGONIST COMPRISING SAME

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**Abstract:**

The present invention relates to a novel selective androgen receptor agonist a preparing method thereof and a pharmaceutical composition containing a pharmaceutically effective amount thereof. The selective androgen receptor agonists of the present invention act on an androgen receptor to increase the activity of the androgen receptor and thus can be favorably used as an agent for treating and preventing diseases or conditions in which the increased activity of the androgen receptor can lead to the improvement of symptoms or the responsiveness to treatment that is various hormone related diseases of the male or female muscle wasting disease osteoporosis and the like.

No. of Pages: 174  No. of Claims: 14
An endoscopic surgical assembly houses at least one force transmitting member that is connected to a surgical attachment supported on the endoscopic surgical assembly. The endoscopic surgical assembly includes an elongate shaft having a proximal end and a distal end configured for connection to a surgical attachment. At least one longitudinal cavity is formed in an outer surface of the elongate shaft and extends between the proximal and distal ends of the elongate shaft. The at least one longitudinal cavity is configured for disposal of the at least one force transmitting member therein such that the at least one force transmitting member is translatable relative to the elongate shaft.
The invention concerns a heat exchanger (1) comprising an inlet tank (2) having a fluid inlet (4) and an outlet tank (3) having a fluid outlet (5) and a core (6) of tubes (7,8) joining said inlet tank (2) and said outlet tank (3) together and creating a plurality of fluid flow paths (P1) from said inlet tank (2) to said outlet tank (3) wherein said tubes (7,8) belong to a primary and a secondary group of tubes (7,8). According to the invention said inlet tank (2) and said outlet tank (3) have header plates (9,10) which form core interfaces and comprise throughout identical tube insertion orifices for both the primary group of tubes (7) and the secondary group of tubes (8). Further the tubes being a member of the primary group are base tubes (7) and the tubes being a member of the secondary group are adaptation tubes (8) which differ from the base tubes (7) and a reused to locally change properties of the heat exchanger (1) in critical areas of the heat exchanger (1).
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(57) Abstract:
The present invention relates to antibody drug conjugates (ADCs) wherein a linker drug is site specifically conjugated to an antibody through an engineered cysteine and their use as a medicament notably for the treatment of human solid tumours and haematological malignancies in particular breast cancer, gastric cancer, colorectal cancer, urothelial cancer, ovarian cancer, uterine cancer, lung cancer, mesothelioma, liver cancer, pancreatic cancer, prostate cancer and leukaemia.

No. of Pages : 51 No. of Claims : 17
The invention relates to a rotary electric machine stator (1) comprising a body (2) with slots (15) a coil (3) made of windings (4 5 6 7 8) which comprise first conductive segments (19) equipped with two first branches and second conductive segments (25) equipped with two second branches. Each conductive segment is coated with insulation except for the presence of a bared surface on each of the branches. The shapes of the bared surfaces complement one another. The first and second conducting segments are arranged in a staggered configuration and in opposite directions successively one after the other each slot accepting first branches and second branches positioned opposite with the bared surfaces thereof respectively in contact with one another to form a continuous wire. The stator comprises means for keeping the bared surfaces in contact with one another in the slots.
The invention relates to a connector assembly (1) comprising a pipe (3), a sealing element (5), and a plug connector (4) which comprises a connector body (6). The connector body (6) has an annular chamber (22) which is located between a first exterior section (12) and a second exterior section (15) of the plug connector (4). A connection section (34) of the pipe (3) is inserted into the annular chamber (22) of the connector body (6) from the pipe receiving side (25) and is connected thereto. The connection section (34) of the pipe (3) includes a fastening recess (43) and a seal receptacle (44) which are incorporated in a circumferential surface (42) of the pipe (3). The first (12) or the second exterior section (15) is deformed in the region of the seal receptacle (44) in such a way that the sealing element (5) is pressed between the first (12) or second exterior section (15) and the seal receptacle (44). The invention further relates to a method for producing the connector assembly (1).
There is provided a portable extinguisher (200) for extinguishing a single smoking article at a time. The extinguisher comprises defining reservoir (213) a chamber (217) and an opening (219) to receive a smoking article into the chamber. The chamber is sized to receive at least part of a single smoking article and is isolated from the reservoir such that there is no fluid communication between the chamber and the reservoir. The reservoir and the chamber are thermally coupled.
The invention relates to a drive unit (1 41) for automotive applications in particular a central locking drive unit for a motor vehicle door closure comprising a motor (2 42) and a transmission unit (3 43). The transmission unit has at least a first transmission element (4 44) and a second transmission element (5 45) which have respectively a first tooth segment (6 46) and a second tooth segment (7 47) and a first axis of rotation (8 48) and a second axis of rotation (9 49). The transmission unit also has a first stop (10 50). The drive unit has at least a first stop position and at least the first transmission element (4 44) has a locking element (11 51) which is locked in the first stop position by means of an accommodating element (12 52) and secures a distance (20) of the first axis of rotation (8 48) of the first transmission element (4 44) from the second transmission element (5 45) in the first stop position.
Methods and apparatus to determine production of downhole pumps are disclosed. An example method includes measuring an amount of liquid produced from a well by a pumping unit during a predetermined time period and determining first areas of first pump cards during the predetermined time period. The example method also includes summing the first areas and based on the amount of liquid produced and the summed first areas determining a leakage proportionality constant of a downhole pump of the pumping unit.
An electrosurgical instrument (1) is disclosed including a housing (2) comprising an elongate main body (3) extending in an axial direction and a grippable member (12). An implement (4) is fixed relative to and projecting from a forward region of the main body (3). A smoke evacuation passage (8) is defined within the main body (3) and extends from an inlet proximal to the implement (4). An electrical conductor (11) is housed within the housing (2) for supplying an electro surgical current to the implement (4). The grippable member (12) is slidably connected to the main body (3) such that the axial position of the grippable member (12) relative to the main body (3) may be adjusted in use. Further there is provided a controllable smoke passage obstructor (25) for enabling adjustment of the throughput of the smoke passing through the interior of the housing (2).
(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application: 21/10/2016

(21) Application No.201617036129 A

(43) Publication Date: 10/03/2017

(54) Title of the invention: TAPE CARTRIDGE

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(57) Abstract:
Provided is a tape cartridge with which it is possible to suppress infiltration of dust or positional misalignment without impairing a guide function for mounting a cartridge mounting part. A tape cartridge (100) mounted on a tape printing apparatus (1) provided with a cartridge mounting part (5) on which the tape cartridge (100) is mounted with a printing head (21) and a head cover (43) for covering the printing head (21) and a guide projection part (67) projecting from the head cover (43) wherein the tape cartridge (100) is provided with; a printing tape (102); an ink ribbon (110); a platen roller (120); a cartridge case (130) for accommodating these; an insertion opening (134) through which the head cover (43) is inserted the insertion opening (134) being provided to the cartridge case (130); and a guide recessed part (169) for receiving the guide projection part (67) the guide recessed part (169) being provided to an opening periphery wall (164) of the insertion opening (134).

No. of Pages: 72 No. of Claims: 20
The present disclosure relates to methods and apparatuses for folding absorbent articles and placing such folded absorbent articles into stacker receptacles. The absorbent articles may be in the form of diaper pants that are advanced through a folding apparatus and subsequently advanced to a stacker apparatus having stacker receptacles before being packaged. During the folding process portions of the diaper pants may be subjected to forces to help maintain relatively well defined fold lines in the diaper pants. The relatively well defined fold lines of the folded diaper pants are oriented to promote a relatively smooth transfer from the folding apparatus to the stacker receptacles.
Title of the invention: HETEROGENEOUS MASS CONTAINING FOAM

Abstract:
A heterogeneous mass comprising one or more enrobeable elements and one or more discrete open cell foam pieces wherein at least one of the discrete open cell foam pieces enrobes at least one of the enrobeable elements.

No. of Pages: 43  No. of Claims: 15
Disclosed is a multi functional flying platform having a simple structure convenient operation and the ability to realise the mounting of devices having different functions. Comprised are a rotor arm system and a mounting plate (1) wherein several evenly distributed fixing devices (2) are provided on the mounting plate (1) the mounting plate (1) is fixedly connected to rotor arms (3) of the rotor arm system via the fixing devices (2) and the underside of the mounting plate (1) is further provided with several mounting positions for mounting different devices. The multi functional flying platform is applicable to the field of agricultural aviation.
The invention relates to a process system and a high pressure pump for the preparation of a copolymer of ethylene and a di or higher functional (meth) acrylate in a tubular reactor comprising the steps of: injecting ethylene at a pressure of 100 MPa to 350 MPa into the reactor from a high pressure compressor and injecting the (meth)acrylate at a pressure of 100 MPa to 350 MPa into the reactor from a high pressure pump wherein the high pressure pump comprises a pump suction chamber for receiving a medium to be compressed; a cylinder for receiving the medium to be compressed from the pump suction chamber; an outlet for discharging a compressed medium from the cylinder; a seal fixed to the inner wall of the cylinder at an end of the cylinder distal to the outlet and a plunger movable in the cylinder by sliding through the seal wherein a leakage gap is present along the plunger and the leakage gap is fluidly connected to the pump suction chamber.
Title of the invention: DELETION MUTATIONS

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Abstract:
The present invention relates to a process for removing genetic material from a bacterial cell specifically producing deletions in bacterial genomes or eliminating endogenous bacterial plasmids. In particular the process relates to the transformation of bacterial cells with one or more Deletion Vectors wherein the Deletion Vectors are capable of directing production of two or more crRNAs which target two or more PAM/Protopacers within the genomes of the bacteria within the population or within endogenous bacterial plasmids.

No. of Pages: 26  No. of Claims: 20
**Title of the invention:** ALIGNMENT TOOL SYSTEM AND METHOD FOR THE CONNECTION OF WIND TURBINE TOWER SEGMENTS

| (51) International classification       | F03D1/00,E04H12/08 |
| (31) Priority Document No              | PA 2014 70229      |
| (32) Priority Date                     | 22/04/2014         |
| (33) Name of priority country          | Denmark            |
| (86) International Application No      | PCT/DK2015/050096  |
| (87) International Publication No      | WO 2015/161855     |
| (61) Patent of Addition to Application | NA                 |
| Filing Date                           | NA                 |
| (62) Divisional to Application Number  | NA                 |
| Filing Date                           | NA                 |

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**Abstract:**
The application relates to an alignment tool (200) for the alignment of a pair of vertical flanges for the connection of the longitudinal edges of adjacent segments of a cylindrical section of a wind turbine tower and to a system and method utilising one or more such alignment tools (200). The alignment tool comprises mounting means (202) for connecting the alignment tool to a portion of a vertical flange of a tower segment; and a longitudinal alignment head (204) for aligning the vertical flange with an opposing vertical flange of an adjacent tower segment. The alignment head (204) comprises a front portion (218) extending in a forwards direction from the mounting means (202) the front portion (218) comprising a lower guiding surface (222) adapted to abut with a top guiding edge of the opposing vertical flange or a bracket or tool mounted thereon and to guide the alignment head (204) over the top edge of the opposing flange bracket or tool as the vertical flanges are brought towards each other during connection of the adjacent tower segments.

No. of Pages: 23  No. of Claims: 20
The present invention relates to detection of target nucleic acid sequences using different detection temperatures. The present invention employing different detection temperatures enables to detect a plurality of target nucleic acid sequences in conventional real time manners even with a single type of label in a single reaction vessel. The conventional technologies detect a plurality of target nucleic acid sequences by a melting analysis after target amplification. Unlike the present invention does not require a melting analysis after target amplification such that the time for analysis is greatly reduced.
The present invention relates to a polyhedral unit apparatus for implementing a circuit and a method for implementing a circuit by means of same and more specifically to a polyhedral unit apparatus for implementing an electronic circuit by combining with other apparatuses using variable routing and a method for implementing an electronic circuit using the polyhedral unit apparatus the polyhedral unit apparatus being characterized by: having a polyhedral external shape; being equipped with an inner circuit in the interior thereof responsible for a part of the function of the overall circuit; and allowing a circuit to be implemented by variably routing the connective routes between the inner circuit and the other apparatuses regardless of the order and location of the combination.

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No. of Pages: 24 No. of Claims: 23
CATECHOLAMINE FLAKY GRAPHITE BASED POLYMER COMPLEX FOR PREPARATION OF COMPOSITE

Abstract:
The present invention relates to a flaky graphite based polymer nanocomplex for preparation of a polymer complex and more specifically to a complex to which a polymer is stably bonded by surface modifying with catecholamine a flaky graphite having a structure with nanoparticles crystallized at a high density on the surface. If the complex is dispersed in a target polymeric resin preferably in a homogeneous polymeric resin which is bonded to the complex the complex is dispersed in the polymeric resin homogeneously and evenly thereby being capable of obtaining a composite having excellent function in conductivity thermal conductivity etc.

No. of Pages : 19 No. of Claims : 22
Title of the invention: OUTAGE NOTIFICATION WITH CLIENT CONTROL MODIFICATION IN AN ABR STREAMING NETWORK

Abstract:
A scheme for modulating an adaptive bitrate (ABR) streaming client engaged in a current ABR streaming session. In one implementation a determination is made whether a wireless UE device executing the ABR streaming client is approaching a radio white spot area. If so a video buffer of the ABR client is configured to preload lower quality video segments to last for the duration of the radio white spot area. One or more ABR client controls may be selectively deactivated while the wireless UE device is in the radio white spot area.

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No. of Pages: 27 No. of Claims: 21

The Patent Office Journal 10/03/2017  6063
The present invention provides an energized ophthalmic device (150) with an active agent release system (105) and an associated method. The active agent release system can be suitable to dispense an active agent including for example a vitamin lubricant a saline a solvent and/or medicament at one or more predetermined times through the use of an energization element (100) contained in the ophthalmic device. The energization element may be a battery and/or an energy receptor antenna. The release of the active agent can be according to a signal received wirelessly a predetermined time and/or a sensed condition which can cause an activation element to conduct a current to at least a portion of a metal cap under stress causing it to fold and thereby expose the active agent to a surrounding environment.
Title of the invention: USER DEVICE ENABLING ACCESS TO PAYMENT INFORMATION IN RESPONSE TO MECHANICAL INPUT DETECTION

Abstract:
In certain embodiments an electronic device can include a secure element that detects a mechanical input. The mechanical input can correspond to an instruction to transmit securely stored payment information to another device and/or to release such information to an application on the device (e.g. for use in an in app commerce transaction). This feature can inhibit or prevent unauthorized transmission of payment information. When the mechanical input is detected payment information can be transmitted to a point of sale (POS) terminal (e.g. via near field communication) or released to an app on the device. Further a user can either use default payment information or interact with the device (before or after providing the mechanical input) to select appropriate payment information for a transaction. For example the user can select between credit cards debit cards and/or stored value cards (e.g. transit card).
A client request formatted in accordance with a file system interface is received at an access subsystem of a distributed multi tenant storage service. After the request is authenticated at the access subsystem an atomic metadata operation comprising a group of file system metadata modifications is initiated including a first metadata modification at a first node of a metadata subsystem of the storage service and a second metadata modification at a second node of the metadata subsystem. A plurality of replicas of at least one data modification corresponding to the request are saved at respective storage nodes of the service.
**Title of the invention:** CATEGORIZATION OF VERTICAL EDGES CORRESPONDING TO A HALFTONE IMAGE

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**Abstract:**
A method of printing includes identifying vertical edges in a halftone image. The method also includes determining whether a lightness of color of a first predetermined area to a left side of a respective vertical edge is substantially equal to less than or greater than the lightness of color of a second predetermined area to a right side of the respective vertical edge. The method also includes categorizing respective vertical edges left vertical edges right vertical edges and neutral vertical edges to prioritize a print direction thereof.

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No. of Pages: 14 No. of Claims: 15
The invention relates to a method for contact free interaction with a module wherein the module has a first sub module and a second sub module. In a first method step a primary beam is generated by the first sub module. In a second method step the primary beam is deflected by the second sub module such that image information is projected into a projection area. In a third method step the operating beam is deflected by the second sub module such that an operating information is projected into an operating region. In a fourth method step a control signal is generated by the module if a control command is detected in a location zone associated with the primary beam wherein in the third method step the operating region is projected onto an operating object when the operating object is positioned in the positioning zone.
The present invention provides a method of making a mask for patterning a three dimensional substrate. A mandrel includes a form machined in a surface corresponding to a shape of the substrate. A layer of material is deposited in a first region of the form and a metal layer is deposited in a second region of the form. A portion of the mandrel is subsequently removed. The present invention also provides a method of patterning a three dimensional substrate with a mask.
**Title of the invention**: SUPERCHARGED INTERNAL COMBUSTION ENGINE

| (51) International classification | :F02D41/06,F02D41/00 |
| (31) Priority Document No | :2014126320 |
| (32) Priority Date | :19/06/2014 |
| (33) Name of priority country | :Japan |
| (86) International Application No | :PCT/JP2015/002765 |
| Filing Date | :01/06/2015 |
| (87) International Publication No | :WO 2015/194104 |
| (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) YOEDA Keiji

**Abstract**:  
A supercharged internal combustion engine is provided that is capable of introducing EGR gas into an intake passage on an upstream side relative to a compressor. When a required WGV opening degree is less than a lower limit value \( WGV_{\text{min}} \) in a case in which introduction of EGR gas is started under a situation in which the temperature of an EGR valve is less than or equal to a predetermined value \( X_1 \) the WGV opening degree is controlled during a protection time period \( T_3 \) after introduction of EGR gas starts by using the lower limit value \( WGV_{\text{min}} \) as the required WGV opening degree.

No. of Pages : 39  
No. of Claims : 12
Methods for operating a portable electronic device to conduct a mobile payment transaction at a merchant terminal are provided. The electronic device may verify that the current user of the device is indeed the authorized owner by requiring the current user to enter a passcode. If the user is able to provide the correct passcode the device is only partly ready to conduct a mobile payment. In order for the user to fully activate the payment function the user may have to supply a predetermined payment activation input such as a double button press that notifies the device that the user intends to perform a financial transaction in the immediate future. The device may subsequently activate a payment applet for a predetermined period of time during which the user may hold the device within a field of the merchant terminal to complete a near field communications based mobile payment transaction.
(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application : 21/10/2016

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(43) Publication Date : 10/03/2017

(36) (43) Publication Date : 10/03/2017

(54) Title of the invention : METHOD FOR MANUFACTURE OF LOW EMISSION POLYPROPYLENE

| (51) International classification | :C08F8/50 |
| (31) Priority Document No | :14162786.9 |
| (32) Priority Date | :31/03/2014 |
| (33) Name of priority country | :EPO |
| (86) International Application No | :PCT/EP2015/055167 |
| Filing Date | :12/03/2015 |
| (87) International Publication No | :WO 2015/150042 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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(36) (57) Abstract :
The present invention relates to a method for the manufacture of polypropylene having a target melt flow rate of from 10 to 200 g/10min as determined in accordance with ISO 1133 (230°C 2.16 kg) comprising the subsequent steps of i) polymerizing propylene monomer and optionally one or more alpha olefin co monomers so as to form a polypropylene having an initial melt flow rate of from 0.5 to 20 g/10 min (ISO 1133 230°C 2.16 kg) ii) visbreaking said polypropylene to obtain polypropylene having said target melt flow rate and wherein the ratio of target to initial melt flow rate is more than 1 iii) maintaining the polypropylene obtained from step ii) at an elevated temperature for a time sufficient to reduce the FOG value of the polypropylene as determined in accordance with VDA 278. The method allows the time for FOG reduction to be reduced as compared to polypropylenes that have the same target melt flow rate yet which have obtained said melt flow rate without the visbreaking step.

No. of Pages : 14 No. of Claims : 14
| (51) International classification | :H04L12/40 |
| (31) Priority Document No | :14168731.9 |
| (32) Priority Date | :16/05/2014 |
| (33) Name of priority country | :EPO |
| (86) International Application No | :PCT/EP2015/060865 |
| Filing Date | :18/05/2015 |
| (87) International Publication No | :WO 2015/173428 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

**Title of the invention:** COMMUNICATION SYSTEM FOR USE IN A RAILWAY VEHICLE

**Abstract:**
The invention pertains to a communication system for use in a railway vehicle comprising: a first communication network (10) and a second communication network (20) using physically separate communication media; and a plurality of communication terminals (100 200) each connected to both communication networks (10 20). The communication system is adapted to prioritise communications from the communication terminals (100 200) over the communication networks (10 20) according to at least two levels of service. A first communication terminal (100) comprises a first functional module (110) and a second functional module (120) the functional module (110 120) being functionally equivalent the first functional module (110) being adapted to interface with the first communication network (10) and the second functional module (120) being adapted to interface with the second communication network (20). The functional modules (110 120) are configured to be simultaneously operational.

No. of Pages : 15 No. of Claims : 14
A crimpable compression clamp (40) that secures a tube (42) onto a fitting (44) and is able to be installed and removed without having to separate the tube (42) and the fitting (44) from each other. The crimpable compression clamp (40) includes an inner band portion (46) and an outer band portion (48). The inner band portion (46) is detachably attached in the outer band portion (48) so as to allow the crimpable compression clamp (40) to be installed and removed without having to separate the tube (42) and the fitting (44) from each other by merely separating the outer band portion (48) and the inner band portion (46) from each other.
The present invention relates to: a welding torch (1A 1B 1C) that is provided with an attachment jig (50A 50B) for attaching a wire aim guide (60) which feeds a welding wire (W) toward a molten pool of an object to be welded said welding torch (1A 1B 1C) being characterized in that the attachment jig (50A 50B) has a male screw portion (10d) that can be screwed into a female screw portion (51a) provided in a torch body (5) and is attached to the torch body (5) in a detachable manner; and an attachment jig (50A 50B). The present invention makes it possible to provide: a welding torch (1A 1B 1C) with which a wire aim guide (60) can be stably attached and which makes possible a highly versatile wire aim guide (60) attachment structure; and an attachment jig (50A 50B).
The present disclosure relates to an improved transcutaneous energy transfer (TET) system (100) that generates and wirelessly transmits a sufficient amount of energy to power one or more implanted devices (102) including a heart pump while maintaining the system's efficiency, safety, and overall convenience of use. The disclosure further relates one or more methods of operation for the improved system.
METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING PACKET IN COMMUNICATION SYSTEM

The present invention relates to a method for transmitting a packet in a communication system the method comprising: generating drop information indicating at least one source packet to be dropped among source packets to be transmitted and whether or not to drop each of the other source packets except the at least one source packet; performing forward error correction (FEC) encoding on the drop information and the other source packets except the at least one source packet; generating a repair packet comprising repair data for restoring the drop information and a repair symbol for restoring the other source packets except the at least one source packet; and transmitting the other source packets except the at least one source packet and the repair packet.

No. of Pages : 18 No. of Claims : 16
A method is proposed for contactless interaction with a module wherein the module has a first submodule and a second submodule wherein in a first method step a main beam is generated by the first submodule wherein in a second method step the main beam is deflected by the second submodule in such a way that image information is projected into a projection region wherein in a third method step the main beam is deflected by the second submodule in such a way that operating information is projected into an operating region wherein in a fourth method step a control signal is generated by the module if a control command is detected in a location zone associated with the main beam wherein the main beam is deflected by the second submodule in such a way that the projection region and the operating region are arranged separated from one another.
The invention relates to a method for contactless interaction with a module wherein the module comprises a first sub module and a second sub module wherein in a first step a primary beam is produced by means of the first sub module wherein in a second step a scanning motion is applied to the primary beam by means of the second sub module in such a way that image information is projected into a projection region wherein in a third step a control command performed by an object is recognized by the module wherein the control command relates to the contactless interaction with the module wherein in the third step a geometric shape of the object is detected by means of the module.
Title of the invention: MITIGATING DAMAGE TO DROP GENERATORS IN A PRINTING SYSTEM

Abstract:
According to an example in a method for mitigating damage to a plurality of drop generators in a printing system data corresponding to an image to be printed on a media by the printing system may be accessed. In addition the plurality of drop generators may be controlled to print the image on the media while mitigating damage to the plurality of drop generators and without shifting placement of the image on the media or shifting the plurality of drop generators in a direction perpendicular to a feed direction of the media.

No. of Pages: 25 No. of Claims: 15
Title of the invention : CLAD COOKWARE

| (51) International classification     | A47J27/00, A47J37/00 |
| (31) Priority Document No            | NA                  |
| (32) Priority Date                   | NA                  |
| (33) Name of priority country        | NA                  |
| (86) International Application No    | PCT/US2014/035763,  |
| Filing Date                         | 29/04/2014          |
| (87) International Publication No    | WO 2015/167443      |
| (61) Patent of Addition to Application Number | NA |
| Filing Date                         | NA                  |
| (62) Divisional to Application Number | NA |
| Filing Date                         | NA                  |

Abstract:
A novel cookware made of clad composite materials provides novel functionalities not only for improvement in daily use but also provides a practical way to incorporate fin structures on the surface of the clad materials.

No. of Pages : 9 No. of Claims : 11
Continuity compositions are provided as are methods of their preparation. The compositions comprise at least one metal carboxylate salt which is modified with at least one molten fatty amine. These compositions find advantageous use in olefin polymerization processes.
Polymerization catalyst compositions are provided as are methods of their preparation. The compositions comprise fatty amines and find advantageous use in olefin polymerization processes. The catalyst composition comprises at least one supported polymerization catalyst wherein the catalyst composition is modified with at least one fatty amine wherein the fatty amine is substantially free of particulate inorganic material.
Abstract:
The present invention relates to a process for preparing a procatalyst for polymerization of olefins comprising contacting a magnesium containing support with a halogen containing titanium compound a monoester and an amidobenzoate internal donor. The process comprises the steps of: i) contacting a butyl Grignard compound with an alkoxy or aryloxy containing silane compound to give a first intermediate reaction product; ii) optionally activating the first intermediate reaction product with at least one activating compound to give a second intermediate reaction product; iii) contacting the first or second intermediate reaction product obtained respectively in step i) or ii) with a halogen containing Ti compound the monoester and said internal electron donor represented by a compound represented by Formula A as the first internal electron donor and optionally the diester or diether as the second internal electron donor. The present invention also relates to a polymerization catalyst system comprising said procatalyst a co catalyst and optionally an external electron donor. Furthermore the present invention relates to a polyolefin obtainable by the process according to the present invention and a shaped article thereof.

No. of Pages : 80  No. of Claims : 15
An integrated panel made of interconnected laminates comprising stacked first and second metal layers (5 5 5) and fibre reinforced adhesive layers (19) between adjacent metal layers. At the location of the transition from the outer surface (7) of the first outer metal layer (5) to the outer surface (7) of the second outer metal layer (4) is located a filler (11). The panel further comprises a cladding layer (14) which comprises at least one fibre material layer (15 24) that extends over the filler (11) and the adjacent outer surface regions (12 13) of the outer metal layers (5 4) located on opposite sides and which are adhered to the outer surface regions.

No. of Pages : 13 No. of Claims : 25
The invention relates to an apparatus for supporting a heliostat and method thereof comprising: a rigid elongate vertical member having a first end region and a lower second end region the first end region connected to a heliostat drive mechanism connection means wherein the lower second end region is adapted for being driven into the ground with frictional contact.
Title of the invention: COMPUTERIZED METHOD AND SYSTEM FOR PROVIDING CUSTOMIZED ENTERTAINMENT CONTENT

Abstract:
Targeted Content solutions can be provided using a variety of techniques. Targeted Content can be provided in place of generic advertisements on a first device or on personal computing devices. Targeted Content can be presented during or in place of generic advertisements in Content (e.g. television content streaming content etc.). Targeted Content can include customized video content to improve a user's viewing experience and thereby provide increased revenue opportunities for advertisers and content providers. The video content and/or customized content that is provided to a user can be paused or substituted to permit customized content to be delivered to the user. The video content and/or customized content can be of sporting events and can facilitate and improve participation in a Fantasy Sports league.
An apparatus for delivering liquid includes a wand with a nozzle a toggle switch and a supply canister for delivering self tanning and sun tanning solutions to a human body. The wand may pivotably attach to a cap attached to the supply canister containing the chosen liquid to be delivered without the necessity of an exposed external tube suspended between the wand and the supply canister.
A directed acyclic graph (DAG) is generated to represent a namespace of a directory. In response to a request to create a new object with a specified name, a hash value bit sequence is computed for the name. A plurality of levels of the DAG are navigated using successive subsequences of the bit sequence to identify a candidate node for storing a new entry corresponding to the specified name. If the candidate node meets a split criterion, the new entry and at least a selected subset of entries of the candidate node's list of entries are distributed among a plurality of DAG nodes, including at least one new DAG node, using respective bit sequences obtained by applying the hash function for each distributed entry.

No. of Pages: 138
No. of Claims: 15
Title of the invention: CLOSURE DEVICE FOR BOTTLES

Abstract:
A closure device (10) for bottles for example containing cosmetic products comprising a main body (11) with a first portion (11a) coupled to a threaded neck of the bottle or inserted with pressure into the bottle's neck and a second portion (11b) that has at least one hole or opening (12) for discharging the product; between said first (11a) and second portion (11b) of the main body (11) there is a peripheral portion (14) which extends externally to the first portion (11a) so as to entirely lean against an external wall of the bottle and on which there are formed one or more holes, slits or shaped through openings (15).
The present invention provides a train control method for performing train service control by performing switching between a moving block operation mode and a fixed block operation mode. When the operation mode of a train (3a) is switched from moving block to fixed block continuous running is enabled by considering to be valid an ATP pattern (C) of the immediately preceding moving block. Thus train service control can be implemented by switching the operation mode between moving block and fixed block without having to stop the running train.

No. of Pages : 15 No. of Claims : 7
Provided is a disposable diaper that readily deforms to the intended shape of an absorbent body and that can prevent the absorbent body from losing shape during use. The absorbent body is provided with a left and right pair of fold inducing bands (8) that extend forward and backward from the crotch area center the distance in the width direction between the left and right pair of fold inducing bands being greater at the front edge and the back edge of the fold inducing bands than in the crotch area center. The front edges and the back edges of the fold inducing bands are positioned farther to the outside in the width direction than are the widthwise inside positions of joined areas (9) of a leak barrier and a top sheet. The fold inducing bands include hydrophilic fibers and a highly absorbent polymer but have lower basis weight and lower highly absorbent polymer content as compared with other regions of the absorbent body. Compression grooves (10) are provided within the fold inducing bands the compression grooves having higher density as compared with other regions of the absorbent body.
A method of manufacturing a security device component is disclosed comprising: providing a photosensitive film comprising a diazonium compound which decomposes upon exposure to radiation of a predetermined wavelength; providing a dye coupler film comprising one or more dye coupler compositions; exposing elements of the photosensitive film to radiation of the predetermined wavelength in accordance with a predetermined pattern; and contacting at least part of the exposed photosensitive film against at least part of the dye coupler film so as to effect at least partial transfer of the one or more dye coupler compositions to the exposed photosensitive film whereupon unexposed elements of the photosensitive film exhibit one or more colours such that the photosensitive film exhibits a reproduction of the predetermined pattern.
The present invention is directed to novel pharmaceutically acceptable addition salts of (S) 2 (1 (6 amino 5 cyanopyrimidin 4 ylamino)ethyl) 4 oxo 3 phenyl 3 4 dihydropyrrolo[1 2 f][1 2 4]triazine 5 carbonitrile with sulfonic acid derivatives in particular with methanesulfonic acid naphthalene 2 sulfonic acid and para toluenesulfonic acid and pharmaceutically acceptable solvates thereof and their use as Phosphoinositide 3 Kinase (PI3K) inhibitors.
The application relates to wind turbine tower section production methods and in particular to methods of manufacturing a plurality of elongate tower segments for forming a wind turbine tower section the tower section constructed from a plurality of elongate tower segments connected along their respective longitudinal edges. The tower section is formed from a plurality of cans connected end to end and is divided into elongate segments by cutting along two or more cut lines extending along the length of the tower. A method of providing a horizontal flange at the end of a wind turbine tower is also discussed as is a vertical flange preassembly including a pair of vertical flanges for connecting the longitudinal edges of adjacent first and second tower segments.
The element comprises: a hollow body (19); a delivery nozzle (32) for delivering a first liquid carried by the hollow body (19); a dispensing nozzle (50) for dispensing a second liquid carried by the hollow body (19); The dispensing nozzle (50) is suitable for producing droplets having a diameter less than 1 mm particularly comprised between 1 µm and 1000 µm and the delivery nozzle (32) is suitable for producing droplets having a diameter greater than 1 mm and particularly comprised between 1 mm and 5 mm.
The invention relates to particular substituted heterocycle fused gamma carbolines their prodrugs in free solid pharmaceutically acceptable salt and/or substantially pure form as described herein pharmaceutical compositions thereof and methods of use in the treatment of diseases involving 5 HT2A receptor serotonin transporter (SERT) and/or pathways involving dopamine D1/D2 receptor signaling systems and/or the treatment of residual symptoms.
Provided is a temporary train speed limiting device that keeps the cost advantage of a point type automatic train stop system pattern (ATP) device and is capable of executing a train speed limiting operation in response for example to a sudden deterioration of weather conditions or infrastructure work such as railway track repair being performed. This temporary train speed limiting device includes an information transmission line (1) ground side devices (31 33) and an onboard device (7). The information transmission line (1) is laid along a railway track (5) across multiple train control areas (D1 D4). This information transmission line transmits temporary speed limiting information indicating that the speed of a train should be temporarily limited in a specific zone (P) of the train control areas. The ground devices are installed at each train control area and transmit the temporary speed limiting information supplied from the information transmission line. Upon receiving the temporary speed limiting information the onboard device (7) generates a speed pattern based on a temporary train speed limit and controls the speed of the train so as not to exceed the speed specified by this speed pattern.
The invention relates to a stretchable multilayer film comprising in the following order:

a. a first outer layer comprising at least 98 wt% of a linear low density polyethylene
b. a first inner layer
c. a second inner layer
d. a third inner layer and
e. a second outer layer

comprising 70% to 30 wt% of a linear low density polyethylene and 30 to 70 wt% of very low density polyethylene (VLDPE) wherein at least one of the inner layers comprises at least 98 wt% of a propylene homopolymer or 98 wt% of a propylene ethylene copolymer and wherein the other inner layer(s) comprise(s) at least 98 wt% of a linear low density polyethylene.
Title of the invention: THREE DIMENSIONAL MOLDING DEVICE

Abstract:
The present invention provides a three dimensional molding device which makes it possible to reduce molding time by decreasing the inkjet head waiting time during the molding step. A three dimensional molding device for scattering and layering sand on a molding table (30) using a recoater (2) discharging a binder from a head (1) so as to coat the top of the scattered sand with the binder on the basis of molding data and creating a three dimensionally molded article by joining the sand (S) using the binder wherein: the recoater (2) is formed so as to have an amount of sand (S) equivalent to the length of one side of the molding table (30) as the scatterable length thereof and be capable of moving in a direction perpendicular to the one side; the head (1) is formed as a line head capable of discharging an amount of the binder equivalent to the length of a side adjacent to the one side and so as to be capable of moving in a direction perpendicular to the side adjacent to the one side; and the three dimensionally molded article is formed on the molding table (30) by alternatingly operating the recoater (2) and the head (1).
Disclosed is a syringe comprising: a needle seat (1) an inner sleeve (2) and an injection piston (4). The needle seat (1) is used for installing an injection needle (5). The injection piston (4) is arranged opposite to the needle seat (1) and is used for pushing liquid medicine towards the needle seat (1); and the needle seat (1) and the inner sleeve (2) are nested in a mutually sliding manner. When injecting the inner sleeve (2) is slid to make the inner sleeve overlap with the needle seat (1) to expose the injection needle (5) in order to facilitate injection. When the injection is completed the inner sleeve (2) is slid so as to wrap around the injection needle. After the injection of the syringe the injection piston (4) is slid along the same direction as the injection direction. The needle is wrapped inside the inner sleeve (2) to prevent the needle (5) from being exposed such that it pierces other bodies and causes bacterial infections.
(54) Title of the invention: ASSISTANCE DEVICE FOR A FREE TURBINE TURBOMACHINE OF AN AIRCRAFT COMPRISING AT LEAST TWO FREE TURBINE TURBOMACHINES

(51) International classification: F02C7/262, B64C27/04, B64D35/08

(31) Priority Document No: 1400753
(32) Priority Date: 27/03/2014
(33) Name of priority country: France

(86) International Application No: PCT/FR2015/050767
Filing Date: 26/03/2015

(87) International Publication No: WO 2015/145077

(31) Priority Document No: 1400753
(32) Priority Date: 27/03/2014
(33) Name of priority country: France

(86) International Application No: PCT/FR2015/050767
Filing Date: 26/03/2015

(87) International Publication No: WO 2015/145077

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

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

(57) Abstract:
Assistance device (100) for a free turbine turbomachine (TAG1) of an aircraft comprising at least two free turbine turbomachines (TAG1 TAG2) the device comprising an electric starter machine (D1) for providing prolonged assistance to the gas generator of a first turbomachine (TAG1) using energy produced by an electric generator machine (G2) driven by the second turbomachine (TAG2) the device additionally comprising at least one electrical storage member (S1) electrically connected to said electric starter machine (D1) to provide short term assistance to said gas generator in which the electric starter machine (D1) is powered by a first power converter (CVS1) that allows it to exchange energy with the storage member (S1) for the short term assistance and that transmits to it energy supplied by a second power converter (CVS2) for the prolonged assistance.

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No. of Pages: 23 No. of Claims: 12
**Title of the invention:** PROCESS FOR PREPARING THIAZOLE DERIVATIVES

| (51) International classification | :C07D417/14,A61K31/454 |
| (31) Priority Document No | :14170156.5 |
| (32) Priority Date | :28/05/2014 |
| (33) Name of priority country | :EPO |
| (86) International Application No | :PCT/EP2015/061455 |
| Filing Date | :22/05/2015 |
| (87) International Publication No | :WO 2015/181097 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

**Abstract:**
The present invention relates to a novel process for preparing thiazole derivatives.

No. of Pages : 11 No. of Claims : 13
The present invention relates to an improved process for O-demethylating methoxy substituted morphinan 6 one derivatives using AlCl3 as a demethylating agent in a reaction inert solvent having a water content ranging from 0.1 %wt to 0.8 %wt.
This asphalt composition contains 0.5 parts by mass to 20 parts by mass of a block copolymer and 100 parts by weight of asphalt. The block copolymer comprises a polymer block (A) having a vinyl aromatic monomer units as the main ingredient thereof and a copolymer block (B) containing conjugated diene monomer units and vinyl aromatic monomer units and the quantity of the vinyl aromatic monomer units contained in the block copolymer is from 20 mass% to 60 mass% the quantity of the copolymer block (A) in the block copolymer is from 10 mass% to 40 mass% the hydrogenation rate of double bonds in the conjugated diene monomer units of the block copolymer is 40% to 100% the colloidal index of the asphalt is 0.30 to 0.54 and the saturated content does not exceed 11 mass%.

No. of Pages : 88 No. of Claims : 11
The invention relates to an apparatus for cooking (1) food under pressure and comprising at least: one vessel (2) and one lid (3) intended to be locked relative to said vessel (2) to form therewith a cooking chamber capable of rising in pressure bayonet mount means which form first and second series of projections (5A 5J 6A 6J) which are secured to the shell of the lid (3) and to the shell of the vessel (2) respectively and which are intended to engage with one another to lock the lid (3) relative to the vessel (2) said apparatus being characterized in that each projection of at least one of said series consists of a bulky element having opposing convex (50A 50J) and concave (51A 51J) surfaces and which is formed by a localized radial deformation of the corresponding shell. The invention also relates to pressure cooking apparatuses.
A handle for a shaver having a front portion a removable shaving cartridge an upper part and a lower part assembled together and a movable button positioned in the front portion of the handle and adapted to facilitate the removal of the shaving cartridge. The upper part of the handle has a slot with two longitudinal edges forming a pair of opposed tracks the button has a pair of opposed flexible hooks which are snap fitted with the longitudinal tracks of the slot and hold the button onto the handle and the lower part of the handle has an abutment member which is engaged between the flexible hooks the abutment member being adapted to prevent the flexible hooks from disengaging the tracks of the slot.

No. of Pages : 27 No. of Claims : 17
**Title of the invention : WINDSCREEN WIPER DEVICE**

| (51) International classification | :B60S1/40 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :PCT/EP2014/065270 |
| Filing Date | :16/07/2014 |
| (87) International Publication No | :WO 2016/008523 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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**Abstract :**
A windscreen wiper device comprising a connecting device (1) for an oscillating arm wherein said oscillating arm can be pivotally connected to said connecting device (1) about a pivot axis near a free end of said oscillating arm with the interposition of a joint part (2) wherein said joint part (2) is detachably connected to said connecting device (1) by engaging protrusions (10 11) of said connecting device (1) at the location of said pivot axis (10 11) in recesses (12 13) provided in said joint part (2) wherein said connecting device (1) and said joint part (2) are arranged to enable its connection to an oscillating arm of at least three types.

No. of Pages : 21 No. of Claims : 20
**Title of the invention:** REDUNDANT CONTROL DEVICE AND SYSTEM SWITCHING METHOD

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<th>:G06F11/18,B60L15/42,B60R16/023</th>
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**Abstract:**

Provided are a low cost redundant control device such that there is no distinction between the main system and the subordinate system thereof and such that system switching time can be reduced and a method for switching between said systems. The redundant control device includes an active system (11) and a standby system (12). The active system and the standby system operate synchronously with each other. When the active system has detected an error regardless of whether or not the presence of a fault is determined the control output from the active system is stopped and the control output from the standby system is supplied to a device to be controlled (7).

| No. of Pages : | 12  |
| No. of Claims : | 10  |
This absorbent product (1) has an absorbent body (3) in which a slit (31) is formed and indicators (9). A plurality of the indicators are arranged extending in the lengthwise direction of the product and spaced apart in the lengthwise direction of the product. The area in which the slit is situated is provided with a first area (R1) of overlap between the indicator and a recess in plan view of the absorbent product and a second area (R2) situated adjacent to the first area in the lengthwise direction of the product in which there is no overlap between the indicators and the recess in plan view of the absorbent product.
The present inventors employed cyclodextrins for use as a proteoglycan substitute to engineer a biomimetic collagen based matrix composition. The resulting incorporation of cyclodextrin in the inventive collagen compositions increased collagen thermal stability and reduced collagen fibrogenesis. As a result, a thick transparent and mechanically strong collagen based composition was formed. This cyclodextrin collagen composition holds a great potential to be used as a therapeutic eye patch for corneal repair. Methods for making these inventive compositions and their use are also provided.
The invention relates to active compound combinations in particular a fungicidal composition comprising (A) 2\{3\{2\{1\{[3\,5\,bis(difluoromethyl)IH\,pyrazol\,1\,yl\}acetyl\}piperidin\,4\,yl\}\,1\,3\,thiazol\,4\,yl\}\,4\,5\,dihydro\,1\,2\,oxazol\,5\,yl\}\,3\,chlorophenyl\,methanesulfonate (B) fosetyl aluminium and (C) 2\,6\,dimethyl\,IH\,5H\,1\,4\,dithiino[2\,3\,c:5\,6\,c]\,dipyrrole\,1\,3\,5\,7(2H\,6H) tetrone Propineb or Folpet. Moreover the invention relates to a method for curatively or preventively controlling the phytopathogenic fungi of plants or crops to the use of a combination according to the invention for the treatment of seed to a method for protecting a seed and not at least to the treated seed.
Title of the invention: FLEXIBLE BAG AND METHOD FOR FILLING IT

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Abstract:
A flexible bag and a method for filling a flexible bag which is collapsed when empty wherein at least one fastening means (41a 41b 42a 42b; 43) is provided on a surface of the flexible bag such that at least two upper parts (53a 53b) of the flexible bag can be held together by this at least one fastening means during a first part of filling of the flexible bag whereby the fastening means is designed to release when the bag is filled to a certain amount such that the two upper parts being held together by the fastening means will lose contact.

Name of Applicant:
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Address of Applicant: 800 Centennial Avenue Piscataway New Jersey 08855 U.S.A.

Name of Inventor:
1) OUELLETTE Matthew David

No. of Pages: 8 No. of Claims: 7
(54) Title of the invention : ORAL CARE COMPOSITIONS HAVING IMPROVED FRESHNESS

(57) Abstract :
Oral care compositions having a certain rheology profile exhibit higher rates of achieving user freshness.

No. of Pages : 27 No. of Claims : 15
Title of the invention : DISPERSION COMPRISING AN ESTERIFIED CELLULOSE ETHER

Abstract:
An aqueous composition useful for producing capsules shells comprises (a) at least one dispersed esterified cellulose ether comprising (i) groups of the formula $C(O)R$ $COOA$ or (ii) a combination of aliphatic monovalent acyl groups and groups of the formula $C(O)R$ $COOA$ wherein $R$ is a divalent aliphatic or aromatic hydrocarbon group and $A$ is hydrogen or a cation and b) from 0.05 to 20 percent of at least one salt of a fatty acid based on the weight of the dispersed esterified cellulose ether wherein the median particle size $d_{50}$ of the dispersed esterified cellulose ether particles is up to 7 micrometers such median particle size ($d_{50}$) being the size at which 50 mass percent of the particles have a smaller equivalent diameter and 50 mass percent have a larger equivalent diameter.

No. of Pages : 30 No. of Claims : 15
**Title of the invention:** CATALYST RESIN

| International classification | :C08J9/16,C08J9/20,C08F8/36 |
| (31) Priority Document No | :61/977363 |
| (32) Priority Date | :09/04/2014 |
| (33) Name of priority country | :U.S.A. |
| (61) Patent of Addition to Application Number | :NA |
| (62) Divisional to Application Number | :NA |
| (86) International Application No Filing Date | :PCT/US2015/025170 09/04/2015 |
| (87) International Publication No Filing Date | :WO 2015/157550 |

**Name of Applicant:**
1) ROHM AND HAAS COMPANY
   Address of Applicant: 100 Independence Mall West Philadelphia Pennsylvania 19106 U.S.A.

**Name of Inventor:**
1) TREJO Jose Antonio
2) MASUDO Takashi
3) KOUZAKI Daika

**Abstract:**
A method of making a plurality of resin beads comprising (a) providing a reaction mixture comprising monovinyl aromatic monomer multivinyl aromatic monomer and porogen (b) performing aqueous suspension polymerization on said reaction mixture to form resin beads and (c) sulfonating said resin beads. Also provided is a plurality of resin beads wherein said resin beads comprise polymerized units of monovinyl aromatic monomer and polymerized units of multivinyl aromatic monomer wherein said resin beads have BET surface area of 15 to 38 m²/g and volume capacity of 0.7 or higher. Also provided is a method of making a product of the chemical reaction of one or more reactants said method comprising reacting said one or more reactants with each other in the presence of the plurality of such resin beads.

No. of Pages: 17  No. of Claims: 5
A spine cage (1) comprising a pair of opposite functional sides (2 3) and at least another pair of opposite functional sides (4 5) such that the cage can be positioned in at least two different positions providing at least two different configurations.

No. of Pages : 6 No. of Claims : 10
**Title of the invention:** IMPROVEMENTS IN TRANSCUTANEOUS ENERGY TRANSFER SYSTEMS

**Abstract:**

The present disclosure relates to an improved transcutaneous energy transfer (TET) system (100) that generates and wirelessly transmits a sufficient amount of energy to power one or more implanted devices (102) including a heart pump while maintaining the system's efficiency, safety, and overall convenience of use. The disclosure further relates one or more methods of operation for the improved system.

No. of Pages : 34  No. of Claims : 14
The present invention relates to compounds of formula (I) or pharmaceutically acceptable salts thereof wherein $A$ $L$ $D$ $R$ $w$ $x$ $y$ and $z$ are defined herein. The novel cycloalkyl linked diheterocycle derivatives that are useful in the treatment of abnormal cell growth such as cancer in mammals. The present invention also relates to pharmaceutical compositions containing the compounds and to methods of using the compounds and compositions in the treatment of abnormal cell growth in mammals.
Abstract:
Provided is a tape cartridge which makes it possible to suppress an increase in size while improving the stability of detection by a detection unit. A tape cartridge (100) to be detachably mounted in a tape printing device (1) which has a detection unit (51) for detecting attribute information of the mounted tape cartridge (100) and provided in a cartridge mounting section (5) in which the tape cartridge (100) is equipped with a wound printing tape (102) a core shaft part (192) at least part of which is positioned in the inner circumferential section of the printing tape (102) and a detectable part (180) which faces the detection unit (51) while the tape cartridge (100) is mounted in the cartridge mounting section (5). Furthermore the detectable part (180) is provided on the core shaft part (192).
Provided is a tape cartridge for which it is possible to mitigate rising in relation to a cartridge installing portion when the tape cartridge is installed on the cartridge installing portion. Provided is a tape cartridge (100) for being detachably installed on a cartridge installing portion of a tape printing device provided with: a cartridge installing portion having an installation base portion (31) and an installation wall portion surrounding the installation base portion the cartridge installing portion being detachable from the tape cartridge (100); and a thickness detection switch (65) having a stem (282) protruding in a direction that intersects the installation direction the thickness detection switch (65) being provided on the installation wall portion wherein the tape cartridge (100) is provided with a detected portion provided on the outer surface of the tape cartridge (100) corresponding to the stem (282) when the tape cartridge (100) is installed on the cartridge installing portion the detected portion having an installation guide inclined surface (302) that presses on the stem (282) when the tape cartridge (100) is installed on the cartridge installing portion.
(54) Title of the invention: RUBBER COMPOSITION AND MANUFACTURING METHOD AND VULCANIZATE THEREOF

(57) Abstract:
Provided are: a rubber composition with which a vulcanizate of favorable formability and excellent thermal and ozone resistance can be obtained; and a manufacturing method and a vulcanizate thereof. The rubber composition is obtained by adding: 100 parts by mass of a blended rubber comprising 50-90 mass% of chloroprene rubber and 10-50 mass% of chlorinated polyethylene; 4.5-15 parts by mass of a primary vulcanizing agent for vulcanizing the chloroprene rubber and chlorinated polyethylene; and 0.5-3.5 parts by mass of a secondary vulcanizing agent for vulcanizing the chloroprene rubber. The secondary vulcanizing agent is added simultaneously with the primary vulcanizing agent or after the primary vulcanizing agent. For the primary vulcanizing agent at least one oxide selected from magnesium oxide, calcium oxide, potassium oxide and hydrotalcite is used. For the secondary vulcanizing agent at least one oxide selected from zinc oxide, iron oxide, lead oxide, and titanium oxide is used.

No. of Pages: 26 No. of Claims: 7
Title of the invention: METHODS OF FORMING AN AQUEOUS TREATMENT LIQUOR

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Priority Document No | 61/988649 | Priority Date | 05/05/2014 | Address of Applicant: One Procter & Gamble Plaza Cincinnati Ohio 45202 U.S.A.

Name of priority country | U.S.A. |

International Application No | WO 2015/171535 |

Patent of Addition to Application Number | NA |

Divisional to Application Number | NA |

Abstract:
A method of forming an aqueous treatment liquor comprising a benefit agent the method comprising the steps of: (a) providing a consumer product comprising: (i) a porous dissolvable solid structure and (ii) a hydrophobic coating comprising a benefit agent the hydrophobic coating applied to the porous dissolvable solid structure; (b) providing an aqueous solution; and (c) dissolving the consumer product in the aqueous solution to form an aqueous treatment liquor comprising a hydrophobic portion and an aqueous portion. The method provides a Capillary Number of less than about 1000.

No. of Pages: 59 No. of Claims: 18
A consumer product comprises: (a) a porous dissolvable solid structure (b) a first hydrophobic coating comprising a first benefit agent and (c) a second hydrophobic coating comprising a second benefit agent. The first and second hydrophobic coatings are discretely applied to the porous dissolvable solid structure. A method of forming an aqueous treatment liquor comprises the steps of: (a) providing a consumer product (b) providing an aqueous solution and (c) dissolving the consumer product in the aqueous solution to form an aqueous treatment liquor comprising a hydrophobic portion and an aqueous portion.
A consumer product comprises: (a) a porous dissolvable solid structure and (b) a hydrophobic coating comprising a benefit agent. The hydrophobic coating is applied to the porous dissolvable solid structure and the hydrophobic coating has an area density of application of less than about 250 µg per mm² of the porous dissolvable solid structure. A method of forming an aqueous treatment liquor comprises the steps of: (a) providing a consumer product (b) providing an aqueous solution and (c) dissolving the consumer product in the aqueous solution to form an aqueous treatment liquor comprising a hydrophobic portion and an aqueous portion.
### Title of the invention: CONSUMER PRODUCTS

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<td>(43) Publication Date: 10/03/2017</td>
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| Name of Applicant: 1) THE PROCTER & GAMBLE COMPANY |
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| Address          | (22) Date of filing of Application: 24/10/2016 |
| One Procter & Gamble Plaza Cincinnati Ohio 45202 U.S.A. | (43) Publication Date: 10/03/2017 |

| Name of Inventor: 1) LYNCH Matthew Lawrence |
|-----------------|-----------------------------------------------|
| 2) GLENN Robert Wayne Jr. |
| 3) WILLMAN Joanne Roberta |
| 4) KUTAY Benjamin John |
| 5) SAWIN Philip Andrew |
| 6) HAMERSKY Mark William |

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<td>A porous dissolvable solid structure and a hydrophobic coating comprising a benefit agent. The hydrophobic coating is applied to the porous dissolvable solid structure and the hydrophobic coating has a viscosity of less than 14.5 Pas. A method of forming an aqueous treatment liquor comprises the steps of: (a) providing a consumer product (b) providing an aqueous solution and (c) dissolving the consumer product in the aqueous solution to form an aqueous treatment liquor comprising a hydrophobic portion and an aqueous portion. The hydrophobic portion of the aqueous treatment liquor has a viscosity of less than about 14.5 Pas.</td>
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No of Pages: 61 No of Claims: 20
A lithium ion secondary battery with high capacity is provided. Alternatively, a lithium ion secondary battery with improved cycle characteristics is provided. To achieve this, an active material including a particle having a cleavage plane and a layer containing carbon covering at least part of the cleavage plane is provided. The particle having the cleavage plane contains lithium, manganese, nickel, and oxygen. The layer containing carbon preferably contains graphene. When a lithium ion secondary battery is fabricated using an electrode including the particle having the cleavage plane at least part of which is covered with the layer containing carbon as an active material, the discharge capacity can be increased and the cycle characteristics can be improved.
(54) Title of the invention : ACCELEROMETERS

(51) International classification : G01P15/125,G01P15/13,G01P21/00

(31) Priority Document No : 1410038.2

(32) Priority Date : 06/06/2014

(33) Name of priority country : U.K.

(86) International Application No : PCT/GB2015/051643

Filing Date : 05/06/2015

(87) International Publication No : WO 2015/185937

(61) Patent of Addition to Application Number : NA

Filing Date : NA

(62) Divisional to Application Number : NA

Filing Date : NA

(57) Abstract :
In a method for open loop operation of a capacitive accelerometer a first mode of operation comprises electrically measuring a deflection of a proof mass (204) from the null position under an applied acceleration using a pickoff amplifier (206) set to a reference voltage Vcm. A second mode of operation comprises applying electrostatic forces in order to cause the proof mass (204) to deflect from the null position and electrically measuring the forced deflection so caused. In the second mode of operation the pickoff amplifier (206) has its input (211) switched from Vcm to Vss using a reference control circuit (209) so that drive amplifiers (210) can apply different voltages Vdd to the proof mass (204) and associated fixed electrodes (202).

(71) Name of Applicant :
1) ATLANTIC INERTIAL SYSTEMS LIMITED
   Address of Applicant : Clittaford Road Southway Plymouth Devon PL6 6DE U.K.

(72) Name of Inventor :
1) DURSTON Michael
2) TOWNSEND Kevin

No. of Pages : 18 No. of Claims : 13
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(57) Abstract: Disposable absorbent articles assembled from a collection of components using an adhesive comprising an amorphous polyolefin composition and a heterophase polyolefin composition comprising amorphous character and crystalline blocks.

No. of Pages: 26 No. of Claims: 15
A method of controlling an output characteristic of an electronic device is provided. The method includes executing an application detecting the brightness of an ambient environment determining a gamma characteristic based on the executing application and the detected brightness and outputting a screen of the running application based on the determined gamma characteristic.
A method for producing a security document comprising a volume hologram including the steps of: applying an optically sensitive material onto a first surface of a substrate in a first region of the first surface; and irradiating the optically sensitive material with patterned radiation configured for recording a volume hologram within the optically sensitive material.
(21) Application No.201617039677 A
(19) INDIA
(22) Date of filing of Application :21/11/2016
(43) Publication Date : 10/03/2017

(54) Title of the invention : AUTOMATIC TRANSACTION DEVICE AND METHOD FOR MANAGING STATE THEREOF

(51) International classification :G07D9/00
(31) Priority Document No :2014112394
(32) Priority Date :30/05/2014
(33) Name of priority country :Japan
(86) International Application No :PCT/JP2015/065480
Filing Date :28/05/2015
(87) International Publication No :WO 2015/182729
(61) Patent of Addition to Application Number :NA
Filing Date :NA
(62) Divisional to Application Number :NA
Filing Date :NA

(57) Abstract :
To manage a cash management service and an important management medium by adapting to the operations of an automatic transaction device and to execute a necessary final inspection process without inhibiting any reduction in labor. [Solution] An automatic transaction device is provided with: a money processing unit for managing and feeding money; an important medium processing unit for handling important media including bankbooks or cards; a detecting unit for detecting whether the money processing unit and the important medium processing unit are being accessed and whether a door is opened or closed when the power source for the automatic transaction device is on or when the power source is cut off; an action determining unit for determining the operational state of the automatic transaction device on the basis of whether the money processing unit and the important medium processing unit are being accessed and whether the door is opened or closed as detected by the detecting unit; and a final inspection process commanding unit for giving out a command to carry out a final inspection process according to the operation state of the automatic transaction device as determined by the action determining unit.

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Address of Applicant :6 3 Osaki 1 chome Shinagawa ku Tokyo 1418576 Japan

(72)Name of Inventor :
1)KATAYAMA Yoshihiro
2)KOUNO Tetsuya

No. of Pages : 31 No. of Claims : 10
Title of the invention: APPARATUS AND METHOD

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Abstract:
An apparatus comprising: an identity determiner configured to determine an identity of a removable fluid container; a characteristic determiner configured to obtain a first characteristic based on testing the fluid of the fluid container; a data obtainer configured to obtain a second characteristic based on the identity; and a processor configured to control a fluid provider to provide fluid from the removable fluid container based on the comparison of the first characteristic and the second characteristic.

No. of Pages: 14  No. of Claims: 28
**Title of the invention:** METHODS OF PRODUCING 6 CARBON CHEMICALS FROM LONG CHAIN FATTY ACIDS VIA OXIDATIVE CLEAVAGE

**Abstract:**
This document describes biochemical pathways for producing adipyl-[acp] and either hexanoic acid or acetic acid from a long chain acyl-[acp] such as dodecanoyl-[acp] or octanoyl-[acp] using a polypeptide having pimeloyl-[acp] synthase activity and biochemical pathways for converting adipyl-[acp] and/or hexanoic acid to one of more of adipic acid, 6-aminohexanoic acid, 6-hydroxyhexanoic acid, hexamethylenediamine, caprolactam, and 1,6-hexanediol.

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<tr>
<td>1) BOTES Adriana Leonora</td>
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<td>2) CONRADIE Alex Van Eck</td>
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No. of Pages: 60
No. of Claims: 69
Techniques systems and devices are disclosed for converting an alcohol and water mixture to hydrogen rich gas inside a gasoline engine to power the gasoline engine vehicle. In one aspect of the disclosed technology an electronic control module installed on a gasoline engine vehicle for controlling the gasoline engine vehicle to run on an alcohol and water mixture as fuel is disclosure. This electronic control module includes a processor a memory and an interface coupled to the ECU of the gasoline engine vehicle to receive various sensor signals from the ECU. The electronic control module also includes interconnects coupled to various modules of the gasoline engine vehicle to control a process of running the vehicle on the alcohol and water mixture stored in the gasoline tank of the vehicle. The said process includes converting catalyzed alcohol and water mixture to a hydrogen rich gas inside a cylinder of the gasoline engine.
A method for preparing an eSIM for provisioning is provided. The method can include a provisioning server encrypting the eSIM with a symmetric key. The method can further include the provisioning server after determining a target eUICC to which the eSIM is to be provisioned encrypting the symmetric key with a key encryption key derived based at least in part on a private key associated with the provisioning server and a public key associated with the target eUICC. The method can additionally include the provisioning server formatting an eSIM package including the encrypted eSIM the encrypted symmetric key and a public key corresponding to the private key associated with the provisioning server. The method can also include the provisioning server sending the eSIM package to the target eUICC.
No. of Pages : 6 No. of Claims : 4

Disclosed are a method and device for alternately cutting off materials by back and forth movement of multiple vehicles. The device is specifically a cut off machine for alternately cutting off materials by back and forth movement of multiple vehicles. The cut off machine is at least provided with two cutter vehicles (12) wherein these vehicles are installed on tracks (4) parallel to materials; the tracks are arranged around the materials (3) side by side; each vehicle moves back and forth in accordance with a set sequence; cutters (79) on the vehicles alternately cut off the materials in accordance with a set length; and the larger the number of vehicles is the longer the stroke of each vehicle can be set so that the cutters have more time to cut off the materials and therefore the cut off machine can be adapted to a higher material forming speed in a production line.
The present invention provides novel pladienolide pyridine compounds pharmaceutical compositions containing such compounds and methods for using the compounds as therapeutic agents. These compounds may be useful in the treatment of cancer particularly cancers in which agents that target the spliceosome and mutations therein are known to be useful.
Compositions and methods useful in identifying and/or selecting maize plants that have bacterial stalk rot resistance are provided herein. The resistance may be newly conferred or enhanced relative to a control plant. The methods use markers to identify, select and/or construct resistant plants. Maize plants generated by the methods also provided.
The present disclosure provides a flexible container (10) having four panels a front panel (22) a rear panel (24) and opposing gusseted side panels (18, 20). The front panel bottom face (26a) includes a first line (A) defined by the inner edge (29a) of a first peripheral tapered seal (40a) and a second line (B) defined by the inner edge (29a) of a second peripheral tapered seal (40b). The first line (A) intersects the second line (B) at an apex point (35a) in a bottom seal area (33). The front panel bottom face (26a) has a bottom distalmost inner seal point (37a) on the inner edge and the apex point (35a) is separated from the bottom distalmost inner seal point (37a) by a distance (S) from 0mm to less than 8.0mm.

No. of Pages : 25 No. of Claims : 19
A process for producing a flexible container is provided and includes: A. providing a rear panel web (124) a front panel web (122) a first folded gusset panel web (118) and a second folded gusset panel web (120) each panel web having peripheral edges and a bottom face each bottom face having two opposing tapered edges meeting at a bottom end; B. placing the folded gusset panel webs between the rear panel web (124) and the front panel web (122) the gusset panel webs (118 120) opposing each other the panel webs configured to form a common periphery (110) and the bottom seal area (133) including the bottom end of each panel; C. first sealing the peripheral edges the tapered edges and the bottom seal area (133) under a set of heat seal conditions; D. second sealing a portion of the bottom seal area (133) under a second heat seal condition; and E. forming a flexible container (10).
An embodiment of this schedule determination device has an acquisition unit, a setting unit, and a determination unit. The acquisition unit acquires an operation schedule index for a machine and a constraint condition for the index. The setting unit sets a second range (having a narrower range than a first range which was set in the operation schedule prior to the change) to a range of values of variables that determine the constraint condition of a new operation schedule index. The determination unit uses the values of the variable within the second range to determine an operation schedule for the machine.
The invention relates to a universally applicable method for reducing the chlorine content of organomonophosphites using dimethylaminobutane or triethyamine.

No. of Pages : 35 No. of Claims : 14


### Title of the invention:

**METHODS FOR ISOLATING CULTURING AND GENETICALLY ENGINEERING IMMUNE CELL POPULATIONS FOR ADOPTIVE THERAPY**

### Abstract:

The present disclosure relates in some aspects to methods, cells, and compositions for preparing cells and compositions for genetic engineering and cell therapy. Provided in some embodiments are streamlined cell preparation methods, e.g., for isolation, processing, incubation, and genetic engineering of cells and populations of cells. Also provided are cells and compositions produced by the methods and methods of their use. The cells can include immune cells, such as T cells, and generally include a plurality of isolated T cell populations or types. In some aspects, the methods are capable of preparing of a plurality of different cell populations for adoptive therapy using fewer steps and/or resources and/or reduced handling compared with other methods.

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### Patent Details:

- **International classification**: C12N5/0781, C12N5/0783
- **Priority Document No**: 61/983415
- **Priority Date**: 23/04/2014
- **Name of priority country**: U.S.A.
- **International Application No**: PCT/US2015/027401
  - **Filing Date**: 23/04/2015
- **International Publication No**: WO 2015/164675
- **Patent of Addition to Application Number**: NA
  - **Filing Date**: NA
- **Divisional to Application Number**: NA
  - **Filing Date**: NA

### Patent Application Publication Details:

- **Application No.**: 201617039534 A
- **Date of filing of Application**: 19/11/2016
- **Publication Date**: 10/03/2017

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No. of Pages: 125
No. of Claims: 116
The invention relates to an engine with natural heat flow which can generate the rotary movement of a turbine as a result of the movement of a fluid contained therein by means of convection at different temperatures. For this purpose the heat source of the engine is provided by solar heat while cold is provided by the fresh night air and the low abyssal temperature. The engine comprises two chambers insulated from another and from the environment namely: a cold chamber and a hot chamber the temperature gradient therebetween causing the flow that propels the driving rotation.
The invention relates to a method for preparing sheets intended for manufacturing a steel welded blank, which comprises the following consecutive steps: providing at least one first (11) and one second (12) pre-coated steel sheets, made up of a steel substrate (25, 26), and a pre-coating (15, 16) made of an intermetallic alloy layer (17, 18) in contact with said steel substrate, mounted on top of a aluminium, aluminium-alloy or aluminium-based metal layer (19, 20), the sheet (11) comprising a main surface (111), an opposing main surface (112), and at least one secondary surface (71), the sheet (12) comprising a main surface (121), an opposing main surface (122), and at least one secondary surface (72); then moving the first (11) and second (12) sheets close together, leaving a clearance (31) of 0.02 to 2 mm between the secondary surfaces (71) and (72) placed facing one another, the fact of moving the first (11) and second sheets (12) together defining a median plane (51) perpendicular to the main surfaces of the sheets (11) and (12); and then simultaneously removing by melting and vaporisation, on the main surface (111) and the main surface (121), the layer of metal alloy (19) in a peripheral area (61) of the sheet (11), and the layer of metal alloy (20) in a peripheral area (62) of the sheet (12), the peripheral areas (61) and (62) being the areas of the main surfaces (111) and (121) that are closest to said median plane (51) located on either side of same. The invention also relates to a welded blank and to a device for manufacturing such welded blanks.

No. of Pages : 24 No. of Claims : 34
Title of the invention: DIAMINE PRODUCING MICROORGANISM AND METHOD FOR PRODUCING DIAMINE USING SAME

Abstract:
The present invention relates to a microorganism which has the ability to produce diamine and a method for producing diamine using the same the microorganism having an introduced or enhanced activity of protein comprising an amino acid sequence represented by SEQ ID NO: 6 or an amino acid sequence having a sequence identity of 55% or more thereto.

No. of Pages: 45 No. of Claims: 8
(54) Title of the invention : PUTRESCINE PRODUCING VARIANT STRAIN AND PUTRESCINE PRODUCTION METHOD USING SAME

(51) International classification : C12N1/21, C12N15/77, C12P13/00
(31) Priority Document No : 1020140049766
(32) Priority Date : 25/04/2014
(33) Name of priority country : Republic of Korea
(36) International Application No : PCT/KR2015/004087
(37) Filing Date : 24/04/2015
(87) International Publication No : WO 2015/163718

(57) Abstract :
The present invention relates to a recombinant microorganism capable of producing putrescine at high yield due to inactivated activity of a protein having an amino acid sequence represented by SEQ ID NO: 2 in the microorganism, and a method of producing putrescine using the microorganism.

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No. of Pages : 29 No. of Claims : 8
Title of the invention: DIAMINE PRODUCING MICROORGANISM AND METHOD FOR PRODUCING DIAMINE USING SAME

Abstract:
The present invention relates to a microorganism for producing diamine, in which activity of a protein having an amino acid sequence of SEQ ID NO: 6 or an amino acid sequence having 42% or higher sequence homology with SEQ ID NO: 6 is introduced or enhanced, and a method of producing diamine using the same.

No. of Pages: 46 No. of Claims: 8
The invention relates to a lock having a locking mechanism comprising a rotary latch and a pawl for locking the rotary latch in a locked position of the lock. An identification device for identifying a position of a moving component of the lock is provided. The identification device comprises a spring which is fitted to the component. The spring opens or closes an electrical circuit when the component and the spring which is connected to said component are moved. In this way positions of the locking mechanism can be reliably determined without having to worry about fatigue of the spring and associated problems.
Title of the invention: NAPHTHYRIDINEDIONE DERIVATIVES

Abstract:
The invention relates to compound of the formula (I) or a salt thereof wherein the substituents are as defined in the specification; to its preparation to its use as medicament and to medicaments comprising it.

No. of Pages : 73 No. of Claims : 12
## Title of the invention: METHOD FOR FOLDING ABSORBENT ARTICLES

| (51) International classification | :B65H45/12,A61F13/15 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :PCT/CN2014/081150 |
| Filing Date | :30/06/2014 |
| (87) International Publication No | :WO 2016/000124 |
| Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

### Abstract:

Disclosed are a method and an apparatus for folding an article into three parts. Steps of the method are that: first folding a leading end portion (11) of the article (100) to form a first folded article and second folding a trailing end portion (12) of the first folded article wherein the first folded article is transported with a moving direction change no higher than about 45 degree. The apparatus comprises a) a first pathway (21) comprising convey system transporting the article (100) b) a first fold means for folding a leading end portion (11) of the article c) a second pathway (23) comprising convey system transporting the article (100) d) a second fold means for folding a trailing end portion (12) of the article e) a third pathway (25) comprising convey system transporting the article (100) wherein the second pathway (23) has an angle T of moving direction change of the article (100) not higher than about 45 degree and wherein the first pathway (21) and the third pathway (25) are placed in the same side of the second pathway (23).
**Title of the invention:** INPUT/OUTPUT DEVICE AND METHOD FOR DRIVING INPUT/OUTPUT DEVICE

**Abstract:**
A novel input/output device which is highly convenient or reliable is provided. A method for driving an input/output device is provided. The present inventors have conceived a structure which includes an input/output circuit supplied with a selection signal and a control signal, a display signal including display data, and a sensing signal and capable of supplying a potential based on the sensing signal, a conversion circuit capable of supplying sensing data based on the sensing signal, a sensing element capable of supplying the sensing signal, and a display element supplied with a current.

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4) INOUE Seiko

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No. of Pages: 87  No. of Claims: 20
**Title of the invention:** METHANOGEN SUBSTRATE FOR BIOGAS PRODUCTION

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<td>Patent of Addition to</td>
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<tr>
<td>Application Number</td>
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<td>Filing Date</td>
<td>NA</td>
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<tr>
<td>Divisional to Application Number</td>
<td>NA</td>
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(57) Abstract:
The invention relates to the use of a product for internal dehydration of hydrogenated sugar as a methanogen substrate in a method for biogas production a composition comprising a monoanhydroxylitol (M) a dianhydroxylitol (D) and anhydroxylitol polymers (P) and a methanisation method.

No. of Pages : 17 No. of Claims : 22
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<th>(12) Patent Application Publication</th>
<th>(21) Application No. 201617039555 A</th>
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<tr>
<td>(22) Date of Filing of Application: 21/11/2016</td>
<td>(43) Publication Date: 10/03/2017</td>
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(54) Title of the invention: HUMANIZED VARIABLE LYMPHOCYTE RECEPTORS (VLR) AND COMPOSITIONS AND USES RELATED THERETO

(51) International Classification: C07K14/705, C07K14/725, C07K19/00

(31) Priority Document No: 61/987566
(32) Priority Date: 02/05/2014
(33) Name of Priority Country: U.S.A.

(86) International Application No: PCT/US2015/028645
Filing Date: 30/04/2015

(87) International Publication No: WO 2015/168469

(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) Cooper Max Dale
3) Ehrhardt Rudolf

(57) Abstract:
This disclosure relates to variable lymphocyte receptors (VLRs) modifications such as humanized sequences and polypeptides comprising such sequences that specifically bind a target molecule and uses related thereto. In certain embodiments, the disclosure relates to recombinant polypeptide VLRs disclosed herein and variants thereof. In certain embodiments, this disclosure relates to treating or preventing a disease or condition comprising administering an effective amount of a recombinant polypeptide or variant disclosed herein to a subject in need thereof.

No. of Pages: 43 No. of Claims: 22
The present invention addresses the problem of providing a polyarylene sulfide dispersion which has high dispersion stability even if the polyarylene sulfide resin concentration is high and which is coated with an anionic group containing organic polymer compound that exhibits excellent bondability and adhesion to various bases such as plastics, metals, and glass. The present invention solves the above-mentioned problem by providing: a polyarylene sulfide dispersion which is composed of polyarylene sulfide particles that have high stability even at a high concentration by being coated with an anionic group containing organic polymer compound by means of an acid deposition method; and powder particles which are obtained from the polyarylene sulfide dispersion.
The present invention relates to a method for manufacturing a positive electrode electrolyte for a redox flow battery, the method comprising the steps of: forming a first positive electrode electrolyte by reducing vanadium pentoxide (V2O5) in an acidic solution, in the presence of a particular reductive compound; forming a second positive electrode electrolyte by reducing vanadium pentoxide (V2O5) in an acidic solution, in the presence of a C2-C10 linear or branched chain aliphatic alcohol; and mixing the first positive electrode electrolyte and the second positive electrode electrolyte, and to a redox flow battery comprising the positive electrode electrolyte obtained by the manufacturing method.
The application relates to a screed assembly (1) for laying a road surface (3) said screed assembly (1) determining a working width (W) viewed in the working direction (R) for the laying of the road surface (3) and a working station (9) for an operator (P) being mounted on the screed assembly (1). The working station (9) is mounted on the screed assembly (1) in a vibration decoupled manner such that the transmission of vibrations from the screed assembly (1) to the working station (9) can be reduced or prevented.

No. of Pages : 15 No. of Claims : 23
Disclosed is a method of preparing a hair conditioning composition, wherein the composition comprising: a mono-alkyl amine cationic surfactant; a high melting point fatty compound; an anionic polymer comprising higher % of a vinyl monomer (A) with a carboxyl group; and an aqueous carrier, wherein the method comprises a step: mixing the cationic surfactant, high melting point fatty compound, anionic polymer and aqueous carrier to form an emulsion. The method of the present invention provides hair conditioning compositions having reduced chunks while containing both mono-alkyl amine cationic surfactants and anionic polymers containing higher % of vinyl monomer with carboxyl group.
[Problem] To enable the selection of a more desirable cell for a terminal device in an environment in which beamforming is performed. [Solution] Provided is a device equipped with: an acquisition unit that acquires reception quality information indicating the reception quality of a reference signal in a terminal device; and a control unit that selects a cell for the terminal device on the basis of the reception quality information. The control unit does not perform the abovementioned selection on the basis of the reception quality information in the case that predetermined conditions pertaining to the use of a weighting set for beamforming by a base station are satisfied.
The invention relates to an equipment item comprising a key (60) and a humanoid-type robot comprising several mechanisms (70) that can be actuated from outside the robot, characterized in that each of the mechanisms (70) comprises a connection interface (72) into which the key (60) can be inserted, the connection interface (72) of each of the mechanisms (70) being configured such that the insertion of the key (60) actuates the mechanism (70). Advantageously, the key (60) comprises two slender fingers (61a, 61b) intended to be inserted simultaneously into two longitudinal orifices.
Title of the invention: MATCHING USERS IN A LOCATION BASED SERVICE

Abstract:
Embodiments of the present application relate to a method apparatus and system for matching users in connection with a Location Based Service. The method includes receiving service messages from a plurality of terminals wherein the service messages include communication attributes geographic location information and user feature identifiers extracting the communication attributes the geographic location information and the user feature identifiers from the received service messages determining whether two or more of the plurality of terminals are within a threshold range determining whether the extracted user feature identifiers corresponding to the terminals are the same and in the event that one or more of the plurality of terminals are within the threshold range and the extracted user feature identifiers are the same setting a terminal of the one or more terminals as a message receiving terminal if a service message associated with the terminal includes a communication attribute corresponding to receiving.
The invention relates to a release mechanism (1) comprising a housing (3) inside which a pressure chamber (6) is located a piston (2) that is movable inside the pressure chamber (6) a throw out bearing (10) that has a first race (11) and a second race (12) the piston (2) being operatively connected to one of the races (11 12) in order to axially move the throw out bearing (10) further comprising an energy accumulator (13) that is supported on the housing (3) and on one of the races (11 12) a dirt shield (16) in the form of rolling bellows (17) which have two end portions (18 19) one (18) of which is retained between the housing (3) and the energy accumulator (13) and the other one (19) of which is retained on the axially movable piston (2).
**Title of the Invention:** DETERMINATION OF BEAM CONFIGURATION

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| (51) International classification | H04B7/06, H04B7/08 |
| (31) Priority Document No | NA |
| (32) Priority Date | NA |
| (33) Name of priority country | NA |
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| Filing Date | 17/06/2014 |
| (87) International Publication No | WO 2015/192889 |

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(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:**
There is provided determination of a beam configuration between a first radio transceiver device and a second radio transceiver device. The first radio transceiver device performs beam searching by transmitting a first sounding signal in all transmit beam configurations in a set of transmit beam configurations; and receiving from the second radio transceiver device a second sounding signal in all receive beam configurations in a set of receive beam configurations. The first radio transceiver device determines a beam configuration based on the receive beam configuration in the set of receive beam configurations in which the second sounding signal having best predetermined metric was received.

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No. of Pages: 24  No. of Claims: 24
A method in a network node is disclosed. The method comprises sending one or more packet data convergence protocol (PDCP) packet data units (PDUs) to a second network node on an internode interface each of the one or more PDUs having an associated PDCP sequence number and an associated internode interface specific sequence number the mtemode interface specific sequence numbers assigned by the network node. The method further comprises receiving feedback from the second network node.
The present invention refers to the use of protein kinase inhibitors and more specifically to the use of inhibitors of the protein kinase c-Jun amino terminal kinase, JNK inhibitor sequences, chimeric peptides, or of nucleic acids encoding same as well as pharmaceutical compositions containing same, for the treatment of various diseases or disorders strongly related to JNK signaling.
A hyaluronic acid product is comprising a cross-linked hyaluronic acid and one or more dextran molecules. The hyaluronic acid is cross-linked by ether bonds, and the one or more dextran molecules are covalently grafted to the cross-linked hyaluronic acid.
Title of the invention: AUTOMATED LAYER BY LAYER CONSTRUCTION OF MULTILAYER COATED CORES BY TFF

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Abstract:
Layer by layer (LBL) construction of products by tangential flow filtration (TFF) or the like is described including computer controlled automation of such procedure for production of a multilayer coated core.

No. of Pages: 57 No. of Claims: 30
The invention relates to a moving robot comprising a trunk (11) and a plurality of limbs (12, 13, 14) joined to the trunk (11) in a removable manner, characterized in that it comprises: for each of the limbs (12), means (32, 28, 36, 37) for pre-positioning, said limb (12) on the trunk (11), and a single flange (25) connected to the trunk (11) and configured to removably attach all of the limbs (12, 13, 14) to the trunk (11). Each of the limbs (12, 13, 14) comprises a motorized joint (22, 23, 24), by means of which the limb (12, 13, 14) is positioned and attached on the trunk (11), and can be driven to move with respect to the trunk (11).
An engine (10) for a spacecraft comprising a chemical thruster comprising a nozzle (30) for ejecting combustion gas, and a Hall-effect thruster. The engine is arranged such that the nozzle acts as an ejection channel for particles ejected by the Hall thruster when same is operating. The engine can deliver a high thrust with a low specific impulse or a relatively low thrust with a high specific impulse.
(54) Title of the invention : COMBINATION OF BREXIPRAZOLE AND NALM Efene AND USE THEREOF FOR TREATING SUBSTANCE RELATED DISORDERS

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2) NAKAMURA Mai

(57) Abstract:
A medicament comprising (I) brexiprazole or a pharmaceutically acceptable salt thereof, and (II) nalmefene or a pharmaceutically acceptable salt thereof in combination, wherein brexiprazole or a pharmaceutically acceptable salt thereof, and nalmefene or a pharmaceutically acceptable salt thereof are contained in a single preparation, or a pharmaceutical composition containing brexiprazole or a pharmaceutically acceptable salt thereof and a pharmaceutical composition containing nalmefene or a pharmaceutically acceptable salt thereof are formulated for use in combination. The medicament is used for the prophylaxis or treatment of a substance-related disorder, preferably an alcohol-related disorder.

No. of Pages: 30 No. of Claims: 20
Abstract:
Disclosed is a method of preparing a hair conditioning composition wherein the composition comprising: a mono alkyl amine cationic surfactant; a high melting point fatty compound; an anionic polymer comprising higher % of a vinyl monomer (A) with a carboxyl group; a polyol; and an aqueous carrier wherein the method comprises the steps: mixing the cationic surfactant high melting point fatty compound polyol and aqueous carrier to form an emulsion; and adding the anionic polymer to the emulsion before during or after forming the emulsion. The method of the present invention provides hair conditioning compositions having reduced chunks while containing both mono alkyl amine cationic surfactants and anionic polymers containing higher % of vinyl monomer with carboxyl group.

No. of Pages : 32 No. of Claims : 12
The invention relates to an obstacle detection device (10) for equipping a moving vehicle (11) moving parallel to a reference plane (12) characterized in that it comprises: · a first horizontal transmitter (14) of a first horizontal electromagnetic beam (15) extending in a first virtual plane (22) substantially parallel to the reference plane (12) · a first image sensor (5) capable of covering a field (36) intended to intersect with the first virtual plane (22) to form a detection surface (71) · and an image analysis means for determining the presence of an obstacle by detection of the presence of an image on the detection surface (71). The invention also relates to a detection method implementing such a device.
The invention relates to a steel sheet provided with a sacrificial cathodically protected coating comprising between 1 and 40 % by weight zinc between 0.01 and 0.4 % by weight lanthane and optionally up to 10 % by weight magnesium optionally up to 15 % by weight silicon and optionally up to 0.3 % by weight in cumulative amounts of additional components the remainder consisting of aluminium and unavoidable impurities or residual elements. The invention also relates to a method of producing parts by hot or cold swaging and the parts which can be obtained in this way.
Title of the invention: METHOD FOR PREPARING P HYDROXYMANDELIC COMPOUNDS IN STIRRED REACTORS

Abstract:
The method can be used for preparing a p-hydroxymandelic compound comprising at least a step of condensing at least one aromatic compound bearing at least one hydroxyl group and of which the para position is free, with glyoxylic acid, the condensation reaction being conducted in at least one reactor provided with at least one mixing means, the specific mixing power being between 0.1 kW/m³ and 15 kW/m³. The invention further concerns a method for preparing a 4-hydroxy aromatic aldehyde by oxidising said p-hydroxymandelic compound.

No. of Pages: 21 No. of Claims: 10
The present disclosure is directed to a robotic surgical system. The robotic surgical system includes at least one robot arm and a camera and a console. The console includes a first handle a second handle and a selector switch configured to select between a robotic control mode and a camera control mode. In the system the first handle or the second handle control the at least one robot arm in the robotic control mode and the first handle and the second handle control the camera in the camera control mode.
Title of the invention: METHODS OF PRODUCING 6 CARBON CHEMICALS USING 2,6 DIAMINOPIMELATE AS PRECURSOR TO 2 AMINOPIMELATE

Abstract:
This document describes biochemical pathways for producing 2-amino pimelate from 2,6-diaminopimelate, and methods for converting 2-amino pimelate to one or more of adipic acid, adipate semialdehyde, caprolactam, 6-amino hexanoic acid, hexamethylenediamine, or 1,6-hexanediol by decarboxylating 2-aminopimelate into a six carbon chain aliphatic backbone and enzymatically forming one or two terminal functional groups, comprised of carboxyl, amine or hydroxyl group, in the backbone.
The present invention relates to the technical field of wireless communications and particularly to data transmission apparatuses and methods so as to effectively reduce a round trip time (RTT). A data transmission apparatus provided in an embodiment of the present invention comprises: a processing module used for determining a transmission time interval (TTI) for transmitting data with a user equipment (UE); and a transmission module used for transmitting data with the UE by using the determined TTI the TTI being less than 1 ms. By reducing the TTI a minimum unit of data scheduling is shortened so that the RTT is reduced. Another data transmission apparatus provided in an embodiment of the present invention comprises: a processing module used for determining according to a processing delay of a UE a time sequence of a hybrid automatic repeat request (HARQ) process for transmitting data with the UE; and a transmission module used for transmitting data with the UE by using the determined time sequence of the HARQ process. By determining an HARQ time sequence according to a processing delay of a UE the HARQ process becomes compact in time and an RTT is effectively shortened.
The invention relates to a secure motor driven hinge to be mounted between a first and second member of a humanoid robot characterized in that said hinge includes: a motor (21) including a stationary portion (25) to be connected to the first member and a movable portion (26) movable relative to the stationary portion (25) and intended for connecting to the second member relative to the first member; a brake (22) capable of exerting a force on the movable portion (26) of the motor (21) by means of a spring effect such as to prevent the movable portion (26) from moving relative to the stationary portion (25); and an actuator (23) capable of moving the brake (22) by opposing the spring effect such as to release the movable portion (26) of the engine (25) from the force of the brake (22) and enabling the motor (21) to move the movable portion (26) relative to the stationary portion (25).
(51) International classification: C07D401/12, C07D401/14, C07D491/22

(31) Priority Document No: 62/001725
(32) Priority Date: 22/05/2014
(33) Name of priority country: U.S.A.

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

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

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4) TSOU Lun Kelvin
5) CHAO Yu Sheng

(54) Title of the invention: DIPICOLYLAMINE DERIVATIVES AND THEIR PHARMACEUTICAL USES

Abstract:
Dipicolylamine compounds of Formula (I) set forth herein. Also disclosed are pharmaceutical compositions containing metal ions and these compounds. Further disclosed is a method for treating a condition associated with cells containing inside-out phosphatidylserine, with these compounds.

No. of Pages: 53 No. of Claims: 25
Title of the invention: ALKYL AND ARYL DERIVATIVES OF 1 OXA 4 9 DIAZASPIRO UNDECANE COMPOUNDS HAVING MULTIMODAL ACTIVITY AGAINST PAIN

Abstract:
The present invention relates to compounds of general formula (I) having dual pharmacological activity towards both the sigma (s) receptor and the µ opioid receptor and more particularly to diazaspiro undecane compounds having this pharmacological activity to processes of preparation of such compounds to pharmaceutical compositions comprising them and to their use in therapy in particular for the treatment of pain.
A process for flushing a dispenser and a process for combining a first composition and a second composition to form a mixture and dispensing said mixture through an exit orifice are provided; assemblies for flushing are also provided.
Title of the invention: HAIR CONDITIONING COMPOSITION COMPRISING AMIDOAMINE CATIONIC SURFACTANT AND DEPOSITION POLYMER AND HAVING LOWER PH

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Abstract:
NA

No. of Pages: 32 No. of Claims: 15
**Title of the invention:** Method for manufacturing stretchable elastic member and disposable diaper using stretchable elastic member

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**Abstract:**

Provided is a method for manufacturing a stretchable elastic member having excellent appearance and reduced manufacturing cost by applying a first adhesive (71) at predetermined intervals to an inside face of a one side sheet (12S) applying a second adhesive (75) at predetermined intervals to a long narrow elastic stretch member (110) forming first non application regions (71B) between first application regions (71A) in which the first adhesive (71) is applied and first application regions (71A) adjacent to the first application regions (71A) forming second non application regions (75B) between second application regions (75A) in which the second adhesive (75) is applied across numerous first application regions (71A) and second application regions (75A) adjacent to the second application regions (75A) fixing the long narrow elastic stretch member (110) and an other side sheet (12H) to the inside face of the one side sheet (12S) from an outside of the long narrow elastic stretch member (110) and cutting the long narrow elastic stretch member (110) at locations where the first non application regions (71B) and the second application regions (75A) face each other in plan view.
Method and device for feeding bulk material through a pneumatic conveying line (10) having an inlet end (12) and an outlet end (14) wherein bulk material is fluidised at the inlet end by adding conveying gas to form a fluidised material flow. The fluidised material flow is split into a first partial flow and a second partial flow at a first junction (20) located near the outlet end of the pneumatic conveying line. The fluidised material from the second partial flow is fed through a separation device (26) to separate conveying gas from bulk material. The bulk material recovered from the separation device (26) is then fed into the first partial flow at a second junction (40) located downstream of the first junction (20).
Title of the invention: STRAND INVASION BASED DNA AMPLIFICATION METHOD

Methods for amplification of a target nucleic acid sequence comprising strand invasion are provided in which strand invasion occurs both at upstream and downstream regions of the target nucleic acid sequence. Further provided are kits and compositions suitable for use in such methods. The methods may comprise amplifying a target nucleic acid sequence comprising a region of unknown sequence or determining the sequence of a target nucleic acid comprising a region of unknown sequence.

No. of Pages: 40  No. of Claims: 31
An overhead transmission conductor includes a core including a plurality of stranded core wires, wherein each of the stranded core wires includes a composite made of a carbon composite material, and an aluminum clad part covering the composite, and a plurality of conductor wires made of aluminum and stranded around a periphery of the core. The plurality of conductor wires have a round or trapezoidal cross section.

No. of Pages : 28 No. of Claims : 4
The invention relates to a modular pod mattress used for sleeping. The mattress includes a structural frame having bottom rails guide rails and a dividing rail. A plurality of modular pods are secured to the frame to form the customized mattress that relates directly to the height and weight distribution of an individual's body parts to provide the maximum quality sleep environment unique to that individual. The modular pods include a plurality of spring members which may have varying elasticity or resistant levels. The modular pods are supported by a support platform that prevents the pods from sagging or deflecting during use of the mattress. A horizontal scale system may be utilized to determine the specific weight of a particular body part e.g. head shoulders thorax buttocks thighs calves and feet of the user.
Title of the invention: A HINGED CAPSULE INHALER

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Abstract:
A dry powder inhaler (1) for pulmonary or nasal use employing capsules (6) containing a dose of powder for inhalation comprising four components: a capsule tray (2) a cover (4) and a mouthpiece (8) and an inhaler body (3). Air is drawn by the patient via the mouthpiece (8) which is in communication with the capsule (6) and travels via air paths through the device (1) and through the capsule (6) thereby dispersing and entraining the dose of powder. The capsule (6) is cut by cutting means (18 19) located on the body (3). The inhaler body (3) the mouthpiece (8) and the cover (4) are provided with hinge segments (20 35 42) which when assembled together and the mouthpiece (8) is locked into the body (3) form a single hinge (5) and which allows the cover (4) to freely pivot around the body (3) and the mouthpiece (8).
Abstract:
Embodiments described herein relate to a composite structures or sandwiches that may have a relatively high bending stiffness and may have a relatively light weight as well as related methods of use and fabrication of the composite sandwiches. For example a composite sandwich may include a core structure sandwiched between a two composite skins.
The embodiments disclose a method in AP for adaptive beacon transmission. The AP transmits a beacon signal through a plurality of beacon beams to an area. The plurality of beacon beams are grouped into a plurality of beacon beam sets. The method comprises obtaining a first statistical information within a first period on times each of beacon beams in a first beacon beam set is identified by any one of the at least one communication device within the area to carry a beacon signal with the best reception quality among its received beacon signals and adapting a frequency to transmit a beacon signal over each of the beacon beams in the first beacon beam set based on the first statistical information.
Bronchus sealants and methods of sealing bronchial tubes are provided. In general the bronchus sealants and methods of sealing bronchial tubes can facilitate sealing of stapled bronchial tubes. In some embodiments a reinforcement material can be introduced into a bronchial tube and then the bronchial tube and the reinforcement material can be stapled using a surgical stapler. A sealant can be introduced into the bronchial tube and can harden therein thereby helping to seal the bronchial tube where the bronchial tube was stapled. The sealant can be introduced into the bronchial tube before and/or after the stapling of the bronchial tube and the reinforcement material.

No. of Pages : 26 No. of Claims : 20
An apparatus (10) includes a body (40) a needle (30) a catheter (20) and an actuator assembly (66). The needle extends distally from the body. The needle has an inner wall defining a needle lumen. The needle lumen is in fluid communication with a fluid port of the body. The catheter is slidably disposed in the needle lumen. The catheter has a catheter lumen. The first actuator assembly is configured to translate the catheter within and relative to the needle. The apparatus may also include an actuator assembly that is configured to rotate the needle relative to the body. The apparatus may be used to first deliver a leading bleb of fluid to the subretinal space in a patient's eye via the needle. The apparatus may then be used to deliver a therapeutic agent to the subretinal space in the patient's eye via the catheter.

No. of Pages : 60 No. of Claims : 20
The present invention relates to compounds having cholane scaffolds of formula (I) said compounds for use in the treatment and/or prevention of FXR and TGR5/GPBAR1 mediated diseases.

No. of Pages : 48 No. of Claims : 19
**Title of the invention**: WASHING MACHINE AND A METHOD FOR OPERATING SAME

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4) LEE Se Ki

**Abstract**:
A washing machine according to the present invention comprises: a washing tub connected to an outer rotor by means of an outer shaft; a pulsator connected to an inner rotor by means of an inner shaft; and a planetary gear device provided between the inner rotor and the pulsator and between the outer rotor and the washing tub for reducing the rotating speed of the inner shaft wherein if the pulsator is overloaded during an initial start up of the inner rotor the rotational force of the inner rotor is transmitted to the washing tub by means of the planetary gear device so as to reduce starting current and wherein when the inner rotor pauses end current can be reduced thereby reducing power consumption.
A washing machine according to the present invention comprises: a washing tub connected to an outer rotor by means of an outer shaft; a pulsator connected to an inner rotor by means of an inner shaft; and a planetary gear device provided between the inner rotor and the pulsator and between the outer rotor and the washing tub for reducing the rotating speed of the inner shaft wherein the washing tub rotates during the period in which the pulsator pauses such that the pulsator and/or the washing tub rotate during washing and that pause time of a washing machine is minimized during washing administration thereby increasing operation rate and washing efficiency.

No. of Pages : 19 No. of Claims : 14
(21) Application No.201617041590 A
(19) INDIA
(22) Date of filing of Application: 06/12/2016
(43) Publication Date: 10/03/2017

(54) Title of the invention: **DEVICES AND METHODS FOR SEALING STAPLES IN TISSUE**

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(57) Abstract:
Devices and methods for forming an anastomosis between two body lumens are described herein. In one embodiment, an anastomosis can be formed by transecting a body lumen using a linear surgical stapler (10) that delivers a plurality of sealing adjuncts (4106, 4108) in combination with a plurality of surgical staples (4080) along a staple line where the plurality of sealing adjuncts are coupled to one another by a suture (41026). A circular surgical stapler can be used to create an anastomosis with a second body lumen across the staple line. Before actuating the circular stapler, the proximal and distal ends of the staple line can be drawn into a central lumen of the circular stapler using the suture extending between the plurality of sealing adjuncts such that the staple line is resected when the circular stapler is actuated.

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No. of Pages: 74
No. of Claims: 15
A surgical instrument is disclosed. The surgical instrument can include a first jaw a second jaw and a jaw closure lockout system. The first jaw can comprise a pivot pin slot (1214) and a slide pin slot (1211, 1217 or 1219). The second jaw can comprise an anvil (1220) and in addition a mounting portion (1223) comprising a pivot pin (1230) which can be movably positioned in the pivot pin slot. A shiftable guide (1240) can be movably positioned in the first jaw and can comprise a body (1242) and a barrier wall (1241). The body can comprise a slide pin (1243, 1245 or 1249) movably positioned in the slide pin slot. The barrier wall can be aligned with a portion of the pivot pin slot when the slide pin is positioned within a range of positions in the slide pin slot and the barrier wall can be offset from the pivot pin slot when the slide pin is positioned outside the range of positions.
A frequency tuneable laser device comprises a cavity mode selector (10) and a cavity tuning arrangement (22 24). The cavity mode selector (10) has a frequency response with a selection feature that is alignable in frequency with a selected cavity mode of the laser device. The cavity tuning arrangement (22 24) comprises a plurality of reflective elements arranged in optical series and is used to adjust the effective optical path length of the laser cavity to move the cavity modes in frequency. The laser device further comprises means (30 40) for making the cavity mode selector (10) and the cavity tuning arrangement (22 24) perform a simultaneous coordinated movement such that respective frequencies of the selection feature and the selected cavity mode vary with substantially the same dependence on a parameter characterising the simultaneous coordinated movement. For example a periscope (22 24) with a co rotating etalon (10) can be used to provide mode hop free tuning of the laser device particularly where the periscope (22 24) is configured to give a predominantly cosine tuning response.
This electrical steel sheet has a prescribed chemical composition, a crystal grain size of 20 to 300μm, and a texture that satisfies the relationships of formula 1, formula 2, and formula 3 when the degree of integration of the (001) [100] orientation is expressed as ICube and the degree of integration of the (011) [100] orientation is expressed as IGoss. Formula 1: IGoss + ICube ≥ 10.5 Formula 2: IGoss / ICube ≥ 0.50 Formula 3: ICube ≥ 2.5
Title of the invention : RETROFIT SEAT BELT SYSTEM

Abstract :
Systems and methods for installing retrofit seat belt systems with structural support for the lap and shoulder belts while at the same time providing a low cost solution. In particular some or all of the loads as required are shared by an added support structure connected rigidly to a structural base e.g. of a bus or other vehicle via a base plate. As such the present teachings achieve compartmentalization around passengers in the event of a crash. Furthermore unlike prior retrofit seat belt designs the systems and methods of the present teachings uniquely facilitate a seamless transition for the different seat configurations and do not require complete replacement of the seats.

No. of Pages : 25 No. of Claims : 20
**Title of the invention:** COMPOSITIONS RELATING TO VITAMIN D

**International classification:** A61K31/59

**Priority Document No:** 62/018008

**Priority Date:** 27/06/2014

**Name of priority country:** U.S.A.

**International Application No:** PCT/US2015/036904

**Filing Date:** 22/06/2015

**International Publication No:** WO 2015/200180

**Patent of Addition to Application Number:** NA

**Filing Date:** NA

**Divisional to Application Number:** NA

**Filing Date:** NA

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3) SHARMA Manoj
4) DRINAN Martin A.
5) WEI Tie Quan

**Abstract:**
This invention relates to compositions, methods and kits for determining the presence and/or amount of vitamin D analytes, including vitamin D isomers, and metabolites thereof in a sample suspected of containing the same. Compounds include compounds of the Formula I, namely, (R1)p-(L)q-Z wherein R1, L, p and q are as defined herein. These compounds are capable of binding specifically to corresponding antibodies. Compounds and antibodies in accordance with the principles described herein can have therapeutic activity. These compounds may be administered in therapeutically effective amount, which is an amount to provide treatment of a particular disease state associated with vitamin D. Administration of the examples of compounds in accordance with the principles described herein can be by means of any of the accepted modes of administration for agents that serve similar utilities.

No. of Pages: 64
No. of Claims: 19
The present invention provides compositions and methods for enhancing immunogenicity of polysaccharide antigens. Immunogenic compositions and vaccines comprising polysaccharide protein conjugates comprising a chimeric carrier protein having a universal epitope are provided. Methods of preparing the compositions and methods for treating or preventing bacterial infections are further provided. The compositions and methods are useful for enhancing immune response in young children elderly and immunocompromised individuals.
Title of the invention: TWO PARTICLE TOTAL INTERNAL REFLECTION IMAGE DISPLAY

Abstract:
A totally internally reflective image display having a first electrically charged particle and a second electrically charged particle of opposite charges are disclosed. By applying a non-zero voltage the particles are moved such that they frustrate total internal reflection and create a dark state. By applying a zero voltage and/or voltage pulsing light is totally internally reflected to create a light state. The display is DC balanced and compatible with common drive electronics. Multi-colored displays may be created using first and second particles with different optical characteristics.

No. of Pages: 25
No. of Claims: 20
**Title of the invention:** PROCESS FOR THE PRODUCTION OF ALKENOLS AND USE THEREOF FOR THE PRODUCTION OF 1,3 BUTADIENE

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**Abstract:**
Process for the production of alkenols comprising the dehydration of at least one diol in the presence of at least one catalyst based on cerium oxide wherein said catalyst based on cerium oxide is obtained by precipitation in the presence of at least one base of at least one compound containing cerium. Preferably said diol may be a butanediol more preferably 1,3-butanediol still more preferably bio 1,3-butanediol derived from biosynthetic processes. Said alkenols may advantageously be used for the production of 1,3 butadiene in particular of bio 1,3-butadiene.

No. of Pages: 40 No. of Claims: 26

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A connector includes a conductor engager coupler driver and a compressor body. A coupler is disposed over and engages a grounding end of the conductor engager while a torque drive member rotationally drives the coupler to threadably engage an interface port. Threaded engagement of the coupler causes the conductor engager to move forwardly toward the interface port and the torque drive member to move rearwardly relative to the conductor engager. Rearward movement of the torque drive member causes a compressor to slide axially over plurality of radially compliant fingers of the compressor body. The compliant fingers are displaced radially inward to compress a prepared end of the coaxial cable i.e. an outer conductor and a radially compliant outer jacket against a tubular shaped retention end of the conductor engager. Compression of the prepared end connects the coaxial cable to the connector.
A method of mass spectrometry is disclosed comprising performing a plurality of experimental runs wherein each experimental run comprises: periodically mass analysing fragment or product ions at a plurality of time intervals wherein a delay time is provided between the start of the experimental run and the first time interval at which the fragment or product ions are mass analysed. Different delay times are provided in different ones of the experimental runs and fragment or product ions that have been analysed in the same time interval in at least one of said experimental runs and that have been analysed in different time intervals in at least one other of said experimental runs are identified as fragment or product ions of interest. These fragment or product ions are thus determined to relate to different precursor ions and are used to identify their respective precursor ions.
The present invention provides: a composition for transarterial chemoembolization comprising two types of biodegradable microbeads having different anticancer drug release characteristics; and a preparation method therefor. According to the present invention a composition for transarterial chemoembolization exhibiting a desired anticancer drug release characteristic can be effectively prepared by controlling the mixing ratio of first and second biodegradable microbeads. Therefore the present invention can be usefully applied to the transarterial chemoembolization of liver cancer.
Title of the invention : SPIRAL WOUND MODULE WITH INTEGRATED PERMEATE FLOW CONTROLLER

Abstract :
A spiral wound membrane module (2) comprising at least one membrane envelope (4) wound about a permeate collection tube (8) wherein the module (2) is characterized by a flow controller (54) located within or fixed to the permeate collection tube (8) that provides a flow resistance that varies as a function of permeate flow.

No. of Pages : 8 No. of Claims : 3
A method for making a composite polyamide including the steps of: i) applying a polar solution comprising a polyfunctional amine monomer and a non-polar solution comprising a polyfunctional acyl halide monomer to a surface of a porous support and interfacially polymerizing the monomers to form a thin film polyamide layer; ii) treating the thin film polyamide layer with a polyfunctional arene compound; and iii) exposing the thin film polyamide layer to nitrous acid; wherein the non-polar solutions further comprises at least one of the following: (A) at least 50 vol% of a C5 to C20 aliphatic hydrocarbon and from 2 to 25 vol% of benzene or benzene substituted with one or more C1 to C6 alkyl groups; and (B) an acid-containing monomer comprising a C2-C20 hydrocarbon moiety substituted with at least one carboxylic acid functional group or salt thereof and at least one amine-reactive functional group.
The present invention relates to a new process for the synthesis of 2,3,4,5,6,7-substituted indenes which are useful precursors for the formation of certain ansa metalocene catalysts.
An anatomical drape such as a dental drape for covering a treatment area of an anatomical part the drape comprising an elastomeric material capable of conforming to the contours of the anatomical part and including a curing agent wherein activation of the curing agent for example by a light source causes selective hardening of the stretched material to at least partially set the drape in a configuration conforming to the anatomical part. The semi rigid set drape is liquid impermeable but gas permeable. A method of manufacturing the drape is also disclosed.
Title of Invention: GLS1 INHIBITORS FOR TREATING DISEASE

Abstract:
Disclosed herein are compounds and compositions useful in the treatment of GLS I mediated diseases such as cancer having the structure of Formula I. Methods of inhibition GLS I activity in a human or animal subject are also provided. Accordingly the inventors herein disclose new compositions and methods for inhibiting glutaminase activity. The present disclosure relates to new heterocyclic compounds and compositions and their application as pharmaceuticals for the treatment of disease. Methods of inhibition of GLS I activity in a human or animal subject are also provided for the treatment of diseases such as cancer.
Title of the invention: ASSAYS FOR VITAMIN D EPIMERS

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Abstract:
Methods include determining an amount of an epimeric vitamin D analyte in a sample suspected of containing the epimeric vitamin D analyte. A combination is provided in an assay medium that includes the sample and a vitamin D epimer antibody that is specific for the epimeric vitamin D analyte. The assay medium is incubated under conditions for binding of the vitamin D epimer antibody to the epimeric vitamin D analyte to form an epimeric vitamin D antibody-bound complex. The amount of the epimeric vitamin D antibody-bound complex is determined and related to the amount of epimeric vitamin D analyte in the sample.

No. of Pages: 59
No. of Claims: 20
A sanitaryware cleaning system can include a sanitary fixture such as a toilet having a compartment formed on and under its deck. The compartment can house a cleaning tablet that is maintained within a waterway between a tank and a bowl of the sanitary fixture. When the fixture is operated water flowing down the waterway can dissolve a portion of the cleaning tablet thus injecting cleaning agents into the bowl along with the water.
## Patent Information

**Title of the invention:** BINDING PARTNERS SPECIFIC FOR VITAMIN D EPIMERS

| (51) International classification | :C07K16/44 |
| (31) Priority Document No | :62/018012 |
| (32) Priority Date | :27/06/2014 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2015/036907 |
| Filing Date | :22/06/2015 |
| (87) International Publication No | :WO 2015/200182 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

### Abstract:
Antibodies are raised against compounds of Formula (I) where Z is an immunogenic carrier. These compounds are capable of binding specifically to corresponding antibodies. The antibodies are specific for epimers of vitamin D. Antibodies in accordance with the principles described herein may be employed to minimize or eliminate 3 epimer cross reactivity in assays for non epimeric forms of vitamin D analytes. Over estimation of total non epimeric vitamin D analyte caused by the cross reactivity of 3 epimer vitamin D with an antibody for vitamin D analyte can be substantially avoided employing as blocking agents antibodies prepared against immunogens that are a compound of the Formula (I) wherein Z is an immunogenic carrier.

No. of Pages : 62 No. of Claims : 20
The invention relates to a catalytic coating of surfaces of valve metals for example titanium suitable for operation in highly aggressive electrolytic environments such as electrolysis cells of hydrochloric acid. The coating may be used as catalytic activation of electrodes for example for anodic evolution of chlorine or for protection from crevice corrosion of flanges and other elements of electrolysers subject to stagnation of liquid.
**Title of the invention :** BURST FRAME ERROR HANDLING

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**Name of Inventor :**
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**Abstract :**
There is provided mechanisms for frame loss concealment. A method is performed by a receiving entity. The method comprises adding in association with constructing a substitution frame for a lost frame a noise component to the substitution frame. The noise component has a frequency characteristic corresponding to a low resolution spectral representation of a signal in a previously received frame.

No. of Pages : 51 No. of Claims : 15
The invention relates to a base (200) for a mould for a clippable bottle comprising on the upper face (201) thereof a wall (202) for moulding the bottom of the container to be produced from which a head (204) extends along a longitudinal axis A2. Said head (204) comprises a peripheral surface (205) comprising at least one blind opening (207) characterised in that the portion (208) of said peripheral surface (205) in line with said blind opening (207) can move between a forward position wherein said portion is aligned with the rest of said peripheral surface (205) and a rear position wherein said portion (207) is set back from the axis parallel to the axis A2 and passing through the bottom of said blind opening (207).
The present invention relates to a process for preparing hot melt adhesive (HMA) preferably hot melt pressure sensitive adhesive (HMPSA) having a substantially tack free coating wherein said HMA preferably HMPSA can be easily handled packed and transported for further use.
Title of the invention: ARTICLES PROVIDING LONG LASTING FRAGRANCES

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Abstract:
A method of providing a longer lasting fragrance and a kit for delivering a longer lasting fragrance by dispensing microcapsules and a volatile solvent is provided.

No. of Pages: 38 No. of Claims: 15
**Title of the invention:** ARTICLES PROVIDING LONG LASTING FRAGRANCES

**Abstract:**
A composition for delivering a longer lasting fragrance: the composition containing microcapsules and water.

**No. of Pages:** 36  **No. of Claims:** 14
The invention relates to a novel type of grill. The latter consists of a planar steel plate of which the crosspieces are configured such that the plate despite inhomogeneous heating and therefore inhomogeneous expansion of the crosspieces always remains planar. For this purpose the crosspieces are configured such that as a result of the expansion in a direction predetermined by the geometry they expand purely horizontally so that the surface remains planar and therefore the food for grilling does not stick to a planar support and with the aid of a thin spatula can be readily released from the steel plate as on a Teppanyaki plate and turned.

No. of Pages : 4 No. of Claims : 7
Disclosed are insert assemblies with stacked gas flow gaps to add and/or remove gases from a solid/gas mixture travelling through a barrier. An example system may comprise a barrier and an insert assembly in the barrier defining an annulus between the insert assembly and the barrier wherein the insert assembly comprises stacked flow gaps configured for addition and/or removal of gas from a solid/gas mixture flowing in the annulus.
A surgical suturing device comprises a cartridge having a needle and suture. An elongate shaft has a proximal end and a distal end. An actuator is connected to the proximal end of the elongate shaft. A pair of jaws is connected to the distal end of the elongate shaft. The jaws have a closed position adapted to receive and retain the cartridge and wherein the jaws are latched in the closed position. The jaws also have a partially opened position adapted to release the cartridge wherein the jaws are biased by a spring from the first opened position towards the closed position. The jaws also have a fully opened position spaced apart further than the partially opened position wherein spring does not bias the jaws towards the closed position.
A surgical suturing device comprises an arced needle having a leading end and a trailing end and a length of suture. A needle driver is operable to drive the needle in a first rotational direction along a circular path. A cleat projects into the circular path and is operable to engage and prevent the needle from rotating in a second rotational direction opposite the first rotational direction. The cleat may project inward into the plane of the circular path.
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**Title of the invention:** METHOD FOR CONTROLLING A HYDROSTATIC TRANSMISSION OF A VEHICLE WITH FOUR DRIVE WHEELS

| (31) | Priority Document No       | :1454088 |
| (32) | Priority Date              | :06/05/2014 |
| (33) | Name of priority country   | :France |
| (36) | International Application No | :PCT/FR2015/050949 |
| (38) | Filing Date                | :09/04/2015 |
| (43) | Publication Date           | :10/03/2017 |
| (51) | International classification| :B60K17/356,B60K23/08 |
| (52) | | |

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<td>The invention relates to a method for controlling a hydrostatic transmission of a vehicle with four drive wheels powered by a hybrid hydro mechanical system wherein the first axle is mechanically driven by a drive motor (2) of the vehicle and a second axle is driven by a hydrostatic transmission (1) comprising a hydraulic machine (4) that uses the energy collected by a hydraulic pump (3) from the differential of the first axle characterized in that the turning on or off of the hydrostatic transmission is based on the monitoring of the adhesion conditions of the wheels of the vehicle and its steering angle.</td>
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<td>RENAULT S.A.S</td>
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<tr>
<td>Address of Applicant:</td>
<td>13 15 quai Alphonse Le Gallo F 92100 Boulogne Billancourt France</td>
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<tr>
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<td>BOUTRON Olivier</td>
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<tr>
<td>2)</td>
<td>DAMOUILLE Tony</td>
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No. of Pages : 8 No. of Claims : 10
Systems and methods are provided for labeling a piece of merchandise with a wireless communication device. In addition to a wireless communication device the merchandise tag includes an associated label made of a washable fabric material. The wireless communication device is incorporated into the label and includes an RFID chip and a slot loop hybrid antenna with the antenna including a conductor sheet that defines a slot. The label is secured to a piece of merchandise at a sew line with the sew line dividing the label into an upper portion and a lower portion. The RFID chip and the slot of the antenna along with a relatively high conductance piece or portion of the conductor sheet are positioned within the upper portion of the label while a relatively low conductance piece or portion of the conductor sheet is positioned within the lower portion of the label.
The present invention relates to an improved nitrification inhibitor composition and its use in agricultural applications. (Trichloromethyl) pyridine compounds useful in the composition of the present invention include compounds having a pyridine ring which is substituted with at least one trichloromethyl group and mineral acid salts thereof. Suitable compounds include those containing chlorine or methyl substituents on the pyridine ring in addition to a trichloromethyl group, and are inclusive of chlorination products of methyl pyridines such as lutidine, collidine and picoline.
Methods include determining an amount of vitamin D analyte in a sample suspected of containing the vitamin D analyte. A combination is provided in an assay medium that includes the sample a vitamin D epimer antibody that is specific for epimers of the vitamin D analyte wherein the vitamin D epimer antibody does not bind to any detectable degree to the vitamin D analyte and a vitamin D antibody that is specific for the vitamin D analyte and. The assay medium is incubated under conditions for binding of the vitamin D epimer antibody to the epimers of the vitamin D analyte and for binding of the vitamin D antibody to the vitamin D analyte to form a vitamin D antibody bound complex. The amount of vitamin D antibody bound complex is determined and related to the amount of vitamin D analyte in the sample.
The present invention relates to a compound of the general formula (1). The compound of formula (1) is suitable for use in a method for treating a disorder relating to the binding of a galectin, such as galectin-3 to a ligand in a mammal, such as a human. Furthermore the present invention concerns a method for treatment of a disorder relating to the binding of a galectin, such as galectin-3 to a ligand in a mammal, such as a human.

No. of Pages : 62 No. of Claims : 22
METHODS AND DEVICES FOR SEALING STAPLED TISSUE

Adjunct material and methods of using adjunct material to reinforce a staple line are provided herein. In general, adjunct material can be used to maintain a seal in tissue and prevent stapled tissue from tearing. This adjunct material can be coupled to a jaw of a surgical stapler and can be deployed into tissue along with the staples. In some embodiments, the adjunct material can be sized and shaped so that a portion of the material extends laterally outside of the staple line and distributes strain to tissue outside of the staple line. In certain aspects, sealant can be applied to the staple line and to the adjunct material in various ways to further seal the tissue and/or prevent leaks from forming in the tissue.

No. of Pages : 52 No. of Claims : 20
A hydroformylation process wherein the hydrolyzable organophosphorous ligand component of the catalyst is supplied as a stabilized ligand composition comprising a hydrolyzable organophosphorous ligand and per 100 moles compound from 0.05 to 13 acid neutralizing equivalents of an acid scavenger.
Genetically modified non-human animals expressing human EPO from the animal genome are provided. Also provided are methods for making non-human animals expressing human EPO from the non-human animal genome, and methods for using non-human animals expressing human EPO from the non-human animal genome. These animals and methods find many uses in the art, including, for example, in modeling human erythropoiesis and erythrocyte function; in modeling human pathogen infection of erythrocytes; in in vivo screens for agents that modulate erythropoiesis and/or erythrocyte function, e.g. in a healthy or a diseased state; in screens for agents that are toxic to erythrocytes or erythrocyte progenitors; in in vivo screens for agents that prevent against, mitigate, or reverse the toxic effects of toxic agents on erythrocytes or erythrocyte progenitors; in in vivo screens of erythrocytes or erythrocyte progenitors from an individual to predict the responsiveness of an individual to a disease therapy.
Abstract:
The present invention relates to a novel process for preparing 3,5-bis(haloalkyl)pyrazole derivatives of the formula (Ia) and (Ib) via acylation of ketimines.

No. of Pages : 14 No. of Claims : 6
The invention provides peptides derived from a ubiquitous protein, and nucleic acids encoding such peptides. The invention extends to various uses of these peptides and nucleic acids, for example, as antigens for use in vaccines per se and in the generation of antibodies for use in therapeutic drugs for the prevention, amelioration or treatment of infections caused by sepsis-inducing bacteria. The invention particularly benefits immunocompromised hosts such as neonates, babies, children, women of fertile age, pregnant women, foetuses, the elderly and diabetics.
The invention relates to a process for manufacturing tetrafluoropropene comprising alternately: at least one step of reacting a chlorinated compound with hydrofluoric acid in the gas phase in the presence of a fluorination catalyst the proportion of oxygen optionally present being less than 0.05 mol.% relative to the chlorinated compound; a step of regenerating the fluorination catalyst by bringing the fluorination catalyst into contact with a regeneration stream comprising an oxidizing agent. The invention also relates to equipment suitable for carrying out this process.
The invention relates to devices for catching small rodents, particularly mice and rats, in which a bait serves as an element of the trap design, triggering the trap when removed (eaten). A trap includes a base (1), on which a spring-loaded frame (2) and a hold-down bar (3) are hingedly mounted. A bait holder (4) is attached to the base (1) and consists of two L-shaped vertical elements (5) and (6) with horizontal portions (9) and (10) respectively. The vertical elements (5) and (6) of the bait (4a) holder (4) are positioned opposite one another on different sides of the hold-down bar (3), forming a gap (13a) for the hold-down bar. Vertical portions (7) and (8) of the L-shaped elements are located in a single plane perpendicular to the surface of the base of the trap, and the horizontal portions (9) and (10) of the L-shaped elements are arranged in such a way that the side edges thereof, one of which is designated by the reference sign (15), are positioned along the longitudinal axis (14) of the base (1) of the trap.
# Inductive Heating Device and Aerosol Delivery System

An inductive heating device (1) for heating an aerosol-forming substrate (20) comprising a susceptor (21) comprises: a device housing (10), a DC power source (11) for providing a DC supply voltage (Vdc) and a DC current (Idc), a power supply electronics (13) comprising a DC/AC converter (132), the DC/AC converter (132) comprising an LC load network (1323) comprising a series connection of a capacitor (C2) and an inductor (L2) having an ohmic resistance (R(M)), a cavity (14) in the device housing (10) for accommodating a portion of the aerosol-forming substrate (20) to inductively couple the inductor (L2) of the LC load network (1323) to the susceptor (21). The power supply electronics (13) further comprises a microcontroller (131) to determine from the DC supply voltage (Vdc) and the DC current (Idc) an apparent ohmic resistance (R) and from the apparent ohmic resistance (R) the temperature (T) of the susceptor (21).

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<td>An inductive heating device (1) for heating an aerosol-forming substrate (20) comprising a susceptor (21) comprises: a device housing (10), a DC power source (11) for providing a DC supply voltage (Vdc) and a DC current (Idc), a power supply electronics (13) comprising a DC/AC converter (132), the DC/AC converter (132) comprising an LC load network (1323) comprising a series connection of a capacitor (C2) and an inductor (L2) having an ohmic resistance (R(M)), a cavity (14) in the device housing (10) for accommodating a portion of the aerosol-forming substrate (20) to inductively couple the inductor (L2) of the LC load network (1323) to the susceptor (21). The power supply electronics (13) further comprises a microcontroller (131) to determine from the DC supply voltage (Vdc) and the DC current (Idc) an apparent ohmic resistance (R) and from the apparent ohmic resistance (R) the temperature (T) of the susceptor (21).</td>
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<td>1) ZINOVIK Ihar Nikolaevich</td>
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<td>2) MIRONOV Oleg</td>
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<td>3) FURSA Oleg</td>
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No. of Pages: 33
No. of Claims: 17
The phase changing accommodating rigid fluid container (200) disclosed herein includes a variety of features that protect the container from phase changes of a fluid (214) stored therein. As a result, the container may be in direct contact with the fluid without any flexible membrane or bag between them. For example, the fluid container may include one or more of matched pairs of recesses (206) for physical manipulation of the container stiffening ribs (207) extending between the recesses and input/output assemblies (202, 204) acting as inputs for fluid into the container and outputs of fluid from the container and vents for pressure equalization of the container.
A disconnect unit (301) and an associated method in a photovoltaic system includes a plurality of input power lines (303) configured to receive power from a photovoltaic (PV) generator and deliver the received power to an inverter (311). The disconnect unit (301) further includes a sensor (309) configured to determine a voltage at the plurality of input power lines (303) and a controller (308) configured to selectively disconnect and reconnect one or more of the plurality of input power lines (303) based on the determined voltage.
Apparatus for forming a liquid tight seal across gaps (22) formed between adjacent components (26a, 26b) of a load supporting surface (16) useful at an outdoor worksite includes a liquid impermeable elongated seal member (10) configured to be sealing coupled to first and second mats in the load supporting surface and extend across the gap formed therebetween. And method of assembling a load supporting surface having a liquid tight seal across gaps formed between adjacent thermoplastic mats thereof.

No. of Pages : 28 No. of Claims : 29
A shrink fit collar consisting of an initially open clamping band (10) has ends (11, 12) that engage with each other like a puzzle in order for the shrink fit collar to be closed. One end (11) of the band supports a tongue (13) which protrudes in the longitudinal direction of the band and which has members (15, ..., 17) extending transversely to the longitudinal direction of the band; the other end (12) of the band has a complementarily designed groove (14). The transverse edges (20, 21) of the members (15, 16) facing the free end (18) of the tongue (13) and extending transversely to the longitudinal direction of the band are each provided with a bulge (22) at the outer end thereof and with a depression (23) at the inner end thereof.
A charging arrangement for a vehicle comprises: · a charge receiving connector (10) secured to the roof of a vehicle (100) at a fixed height from the roof of the vehicle, the charge receiving connector (10) including at least three elongate charge receiving conductors (12, 14, 16), longitudinal axes of the charge receiving conductors (12, 14, 16) being disposed substantially along the same line; and · a charging gantry (150) including at least three charging conductors (142, 144, 146), the charging conductors being vertically movable between a raised position in which the charging conductors are clear of the vehicle (100) when the vehicle is under the charging gantry (150), and a lowered position in which the charging conductors (142, 144, 146) make contact with the charge receiving conductors on the roof of the vehicle (100).
A silicon photonic device (1) comprising: a silicon core (2) having a core refractive index; and a structure formed in the silicon core, comprising: a first refractive index variation pattern (4) across the core in a first direction (x) and having a first modulation depth (H_1); and a second refractive index variation pattern (6) across the core in a second, orthogonal, direction (y) and having a second modulation depth (H_2), less than the first modulation depth. The first refractive index variation pattern overlays the second refractive index variation pattern, forming a three-dimensional structure. The first refractive index variation pattern only supports propagation of light having a TM mode between the first direction and a third direction (z) and the second refractive index variation pattern only supports propagation of light having a TE mode between the second direction and the third direction. An optical waveguide coupler is also disclosed. The optical waveguide coupler comprises a plurality of planar waveguides, each supporting propagation of one of a TE and a TM mode, and a plurality of silicon diffractive gratings each comprising a planar silicon core and a grating structure formed by a periodic refractive index variation extending across the core in a first direction and having a grating period and a modulation depth, these selected to cause the grating to support propagation of the light between the first direction and a third direction substantially orthogonal to the planar silicon core. Additionally the optical waveguide coupler comprises a plurality of tapered planar waveguides.
The invention relates to a thermoelectrically cooled or heated receptacle in particular a refrigeration and/or freezing appliance comprising at least one chilled or heated interior and at least one thermoelectric element especially at least one Peltier element for generating cold or heat in the interior; the thermoelectric element is disposed between two thermally conducting solids (10, 12) one or both of which have a cross-sectional area that becomes larger as the distance from the thermoelectric element increases.
A solid/fluid separation module and apparatus enables treatment of solids with enclosed fluids to generate a filtered mass having a solids content above 50%. A split filter module with first and second filter blocks clamped together for forming barrel sections or filtering sections is disclosed for use in a solid/fluid separating device including a barrel and a conveyor screw in the barrel. The split filter module permits replacement maintenance or repair of the filter blocks without disassembly or the separating device or removal of the conveyor screws.
The invention relates to a temperature controlled container (10) comprising a cooled or heated inner chamber (100) and a thermoelectric element (20) particularly a Peltier element (20) arranged such that said inner chamber (100) is cooled or heated by means of the thermoelectric element (20). In order to control the temperature of the inner chamber (100) a plurality of thermoelectric elements (20) are provided which are arranged to be spaced apart from one another.
The present invention relates to a cooling and/or freezing device comprising a cooled inner chamber (100) and a thermoelectric element (20) particularly a Peltier element (20) which is arranged such that the inner chamber (100) is cooled by means of the thermoelectric element (20) means (4, 20, 40) for evaporating the condensed water being provided comprising a heat exchanger (40) located outside of the cooled inner chamber (100).
(51) International classification : H04L29/08
(31) Priority Document No : 14169111.3
(32) Priority Date : 20/05/2014
(33) Name of priority country : EPO
(86) International Application No : PCT/EP2015/061603
   Filing Date : 26/05/2015
(87) International Publication No : WO 2015/177380
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

(57) Abstract:
The invention relates to a geopositioning method attributing a geographical position (1410, 1420, 1430) to a web user in a territory (1110, 1120, 1130) determined on the basis of the geographical position of his or her IP address. The invention relates to a method for broadcasting advertisements according to the geopositioning method.

No. of Pages : 37 No. of Claims : 22
A method and apparatus for protecting the details of an image to ensure privacy of the image by generating a protected image from an original image is disclosed. The method includes generating a preview image from an original image and applying 5 effects to the preview image so as to obscure the preview image. The original image is encrypted using an encryption key and stored as non visual metadata of the preview image. The encryption key is encrypted using one or more key encryption key (KEK) and the encrypted encryption keys is also stored in the metadata of the preview image. Any image viewer will display the preview image. The key encryption 10 key is generated based on a passphrase or based on the encryption key of another protected image. Instances of the protected image called profile and cover images is used to provide logical groupings and share access to protected images.
Title of the invention: ELECTROMAGNETIC SOLENOIDS HAVING CONTROLLED RELUCTANCE

Abstract:
An apparatus includes a housing a solenoid coil disposed within the housing a pole member and an armature configured to move from a first position to a second position when the solenoid coil is energized. A contact surface of the armature is spaced apart from a contact surface of the pole member by a first distance when the armature is in the first position and a second distance when the armature is in the second position. The housing the pole member and the armature collectively define a flux path characterized by a first reluctance when the armature is in the first position and a second reluctance when the armature is in the second position. The difference between the first reluctance and the second reluctance is less than about thirty percent of the value of the first reluctance.
The invention relates to an overhead luggage compartment (1) for airplanes comprising a stationary luggage compartment element (2) which can be secured to a structural element and comprising a movable luggage compartment element (3) which can be loaded with a piece of luggage said compartments being connected together by a joint (4) such that the movable luggage compartment element (3) can be pivoted between an open position and a closed position. The overhead luggage compartment also comprises a device (10) for holding the movable luggage compartment element (3) in the open position said device having a force transmission element (11) which is connected to the joint (4) between the stationary luggage compartment element (2) and the movable luggage compartment element (3). In the open position of the movable luggage compartment element (3) the joint (4) can be moved depending on the load state of the movable luggage compartment element (3) wherein when the movable luggage compartment element (3) is in the open position the force transmission element (11) is arranged in an active position in the unloaded state and in an inactive position in the loaded state by means of a movement of the joint (4). In the active position of the force transmission element (11) a holding torque is exerted which counteracts the pivot of the movable luggage compartment element (3) from the open position in the direction of the closed position.
When a line pressure is dominated (determined) by at least one of a primary pressure and a secondary pressure during idling of a continuously variable transmission the hydraulic pressure that is applied to at least one of pulleys to which the hydraulic pressure larger than a clutch pressure is applied is reduced. On the other hand when the line pressure is dominated by the clutch pressure during idling of the continuously variable transmission the speed gear ratio of the continuously variable transmission is controlled to a lowest speed gear ratio.
The invention relates to an arrangement and a method for manufacturing custom objects, for instance dental restorations such as dental prostheses, bridges, crowns, caps, inlays, onlays, implants, abutments or other dental products. The arrangement comprises a device for scanning a model of a dental restoration or other custom object, control means (2) for the scanning device, online server (3) and manufacturing facilities (4). The scanning is performed by means of a self contained computer-automated photo unit (1) for taking a series of photographs for capturing the three-dimensional surface of the custom object to provide a passive 3D reconstruction of the object. Each photo unit (1) has a private wifi network (5) and is controlled by any kind of connected device such as mobile phone, tablet, personal computer, connected watches, internet browser or similar control means (2). Each unit (1) is connected to an online server (3) for updating, maintaining, and managing each unit, and arranged to send all the information for manufacturing the dental restoration or other custom object (Id, 3D file, parameters, etc.) to the online server (3) when a manufacturing order is done.
The present invention relates to a method for reproducing at least one single walled carbon nanotube (3) with predetermined electronic properties or a plurality of single walled carbon nanotubes (3) with the same electronic properties. For this purpose a dispersion (2) is produced and carbon nanotubes (3) contained in the dispersion (2) are processed into fragments (6) by inputting energy. Said fragments (6) are applied to a carrier (7) and oriented. Consequently the fragments (6) are extended by chemical gas phase deposition and hence the originally present carbon nanotubes (3) are reproduced.
The abrasion tool including a generally elongate body having a proximal end and a distal end the proximal end including a first proximal segment a head formed in the distal end of the body and a lumen formed within the body and extending from the first proximal segment to the head. The head further includes an opening spanning a portion of the width of the head and in communication with the lumen and a plurality of teeth extending transversely to the longitudinal axis and spanning the width of the opening where the plurality of teeth are longitudinally spaced apart by a plurality of gaps. The first proximal segment of the body is further adapted to communicate with a vacuum source and wherein the lumen is adapted to convey a vacuum force applied by the vacuum source from the first proximal segment to the plurality of gaps.
The present invention describes a novel process for preparing 3-chloro-2-vinylphenol which owing to the chemoselectivity achieved also allows direct conversion into (3-chloro-2-vinylphenyl)methane sulphonate.

No. of Pages : 9  No. of Claims : 17
(54) Title of the invention: POLYOL COMPOSITION FOR PRODUCING POLYURETHANE RESIN COMPOSITION

(57) Abstract:
Provided is a polyurethane resin composition which contains an inorganic filler and despite this is more inhibited from foaming. A polyol composition for polyurethane resin composition production which is characterized by comprising a polyol an inorganic filler and a catalyst and having a water content regulated to 0.2% or less by heating and/or depressurization is used to produce a polyurethane resin composition.

No. of Pages: 24 No. of Claims: 13
The present invention relates to the use of GLOI to modulate acetic acid tolerance in yeast. More specifically, it relates to the use of a specific GLOI allele to confer tolerance to acetic acid, and to improve the fermentation performance of yeast in the presence of acetic acid.
Title of the invention: COMPOSITE MEDIA FOR WATER TREATMENT PROCESSES AND METHODS OF USING SAME

Abstract:
Systems and methods for treating a stream comprising hydrocarbons and an aqueous-based liquid are provided. The systems and methods may utilize a media composite comprising a mixture of a cellulose-based material and a polymer. In certain systems and methods, the media composite is capable of being backwashed. The stream comprising the hydrocarbons and aqueous-based liquid may be separated by contacting the stream with the media composite. In certain systems and methods, the stream comprising the hydrocarbons and aqueous-based liquid may be coalesced by contacting the stream with the media composite.

No. of Pages : 52  No. of Claims : 21
The present disclosure relates to pharmaceutical compositions comprising a non naturally occurring fusion molecule and one or more pharmaceutically acceptable carriers formulated for oral delivery to a subject and designed to provide for improved effective therapies for treatment of e.g. inflammatory diseases autoimmune diseases cancer metabolic disorders and growth deficiency disorders.
**Title of the invention:** A MULTI PART ACRYLIC COLD CURING COMPOSITION

**Abstract:**
A multi part acrylic cold curing composition for metallography moulds to produce a metallography mount is described. The composition has a storage stable solid part and a storage stable liquid part. The parts are operable to form a mixture which polymerises to a solid mass upon mixing of the parts together. The solid part comprises polymer powder and initiator and the liquid part comprises acrylic monomer and optionally activator or accelerator. The initiator is present in an amount effective to polymerize the acrylic monomer component upon being mixed with the liquid part. The composition comprises a cyclic ester side group containing monofunctional acrylic monomer. The composition liquid part may contain a mixture of monofunctional monomer(s) and polyfunctional monomer(s) wherein the polyfunctional monomers comprise between 12 and 22% w/w of the total monomers in the uncured composition. Metallography mounts and processes for producing the mounts are also described.

No. of Pages: 25  No. of Claims: 37
The inductive heating device (1) for aerosol generation comprises a device housing (10) comprising a cavity (13) having an internal surface for receiving at least a portion of an aerosol forming insert (2) comprising an aerosol forming substrate and a susceptor. The device housing (10) further comprises a pin (14) extending into the cavity (13). The device (1) further comprises an induction coil (15) arranged along the pin (14) and a power source (11) connected to the induction coil (15) and configured to provide a high frequency current to the induction coil (15).
The invention relates to a device for immobilising the chute on the ends of journals in an apparatus for loading a shaft furnace comprising a pivotable chute (1) for distributing material the chute being connected to support journals (2) by means of tabs (11) which are inserted into recesses (21) arranged on the journals and which are immobilised thereon by means of pins (3) comprising an eccentric nipple (31) at the end thereof which is inserted in a lug of the chute in order to keep the lug immobilised at the bottom of the recess thereof and locking means (4) for rotationally locking the chute. Each chute comprises at the outer end thereof opposite the nipple means (32) for rotational adjustment and for clamping in order to be able to press the nipple onto the lug of the chute using sufficient force by means of rotating the pin and the locking means comprising an indexing plate (41) which is rotatably connected to the end of the pin (3) the plate (41) further comprising teeth (416) which are arranged so as to engage in the corresponding teeth (421) of a lock (42) which is rigidly connected to the journal in such a way that said lock can render the pin unable to rotate in a plurality of circumferential positions of said pin.
A manufacturing article adapted for use in the production of pharmaceuticals comprising a tray comprising a base having a top surface; and a manifold extending from the top surface of the base the manifold comprising a sidewall and an upper surface the upper surface further comprising a channel wherein when viewed from the top surface the base has an area AB the upper surface of the manifold has an area AM and AB > AM and wherein the base is adapted to support a plurality of vessels each adapted to contain a fluid.
### Title of the invention: COMPRESSOR MOUNTING BASE PLATE

- **International classification**: F25D23/00, F25B31/00, F25B31/02
- **Priority Document No**: 2438/CHE/2014
- **Priority Date**: 16/05/2014
- **Name of priority country**: India
- **International Application No**: PCT/US2015/030927
- **Filing Date**: 15/05/2015
- **International Publication No**: WO 2015/175857

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2. **BIJJARGI Onkareshwar V.**
3. **TAWDE Nilesh R.**
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### Abstract:
An elongated non metal corrosion resistant compressor mounting base plate structure useful for an appliance such as a refrigerator unit including (I) a base plate having a top surface and a bottom surface wherein the base plate is adapted for receiving a compressor on the top surface of the base plate; (II) a means for receiving and removably affixing a compressor to the top surface of the base plate; and (III) a reinforcement means integral with said base plate; wherein said reinforcement means includes for example at least two elongated transverse tubular reinforcement segments integral with the base plate segment one transverse tubular reinforcement segment at each of the transverse ends of the base plate segment; said reinforcement means being adapted for providing the base plate with sufficient strength and rigidity such that the base plate can withstand the deformation load from the weight of the compressor.
(54) Title of the invention: DUAL VOLUTE TURBOCHARGER TO OPTIMIZE PULSE ENERGY SEPARATION FOR FUEL ECONOMY AND EGR UTILIZATION VIA ASYMMETRIC DUAL VOLUTES

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(57) Abstract:
A product for use in a turbocharger system. A turbine housing may define a center core that is circular in shape with a circumference. The turbine housing may define a first volute that extends for a length around only a part of the circumference of the center core and a second volute that may be positioned radially outside the first volute and that may extend entirely around the circumference of the center core. The first volute and the second volute may define first and second exhaust gas passages through the turbine housing that may be asymmetric. All points of the second volute may be radially outside the first volute from the center core over the entire length of the first volute.

No. of Pages: 11 No. of Claims: 15

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(72) Name of Inventor:
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**Title of the invention:** SLURRY MIXER GATE WITH ENHANCED FLOW AND FOAMING GEOMETRY

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**Abstract:**
A discharge gate (36) is provided for a gypsum slurry mixer (12) and includes a lower member (44) having an inlet opening (52) configured for receiving the slurry and an outlet opening (54) configured for delivering the slurry to a dispensing device. An upper member (46) is attached to the lower member (44) at least one of the upper and lower members (44, 46) having at least one opening (76) for accommodating insertion of an injection port (80) for introducing the foam to the slurry. A cavity (48) is configured for mixing the foam and slurry and is defined by inner surfaces of the lower member (44) and the upper member (46).

No. of Pages : 15 No. of Claims : 7
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3) TAKEUCHI Masaru
4) YOSHIHARA Makoto

(57) Abstract:
Provided are a testing device and testing method having excellent portability whereby a device for detecting an arc discharge can be calibrated and the operation thereof confirmed easily and inexpensively. A testing device according to an embodiment of the present invention is provided with an optical semiconductor element for emitting light including ultraviolet light and a luminescence control unit for causing the optical semiconductor element to emit light for a predetermined time in response to a luminescence start signal the luminescence control unit being provided with an oscillator for oscillating at a predetermined oscillation frequency a counter for starting counting in response to an oscillation output of the oscillator and stopping counting when the count value reaches a predetermined set value and a drive circuit for driving the optical semiconductor element on the basis of the counting result of the counter.

No. of Pages: 22 No. of Claims: 6
Title of the invention: PROCESS FOR THE PURIFICATION OF L ALPHA GLYCEROPHOSPHORYLCHOLINE

| (51) International classification | :C07F9/10 |
| (31) Priority Document No | :MI2014A001053 |
| (32) Priority Date | :10/06/2014 |
| (33) Name of priority country | :Italy |
| (86) International Application No | :PCT/IB2015/054346 |
| Filing Date | :09/06/2015 |
| (87) International Publication No | :WO 2015/189766 |
| (61) Patent of Addition to Application Number | :NA |
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| Filing Date | :NA |

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Name of Inventor:
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3) ZENONI Maurizio
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Abstract:
A process for the purification of L-a-glycerophosphorylcholine is described wherein L-a-glycerophosphorylcholine is crystallized from DMSO or from a mixture of DMSO with at least another solvent preferably selected from water alcohol halogenated solvents ethers esters and/or amides. Such a process allows to obtain L-a-glycerophosphorylcholine having a purity greater than 99.5% preferably greater than 99.7% even more preferably greater than or equal to 99.9%. A method for determining the purity of L-a-glycerophosphorylcholine is also described comprising the elution of L-a-glycerophosphorylcholine through an HPLC column having an amino stationary phase and subsequent detection of L-a-glycerophosphorylcholine itself and any impurity thereof by means of an Evaporative Light Scattering Detector type.

No. of Pages: 23 No. of Claims: 15
(54) Title of the invention: END FACE COATING OF A WAVEGUIDE

(51) International classification: G02B6/02, G02B1/10
(31) Priority Document No: 10 2014 008 369.1
(32) Priority Date: 05/06/2014
(33) Name of priority country: Germany
(86) International Application No: PCT/EP2015/001076
  Filing Date: 26/05/2015
(87) International Publication No: WO 2015/185194
(61) Patent of Addition to Application Number: NA
  Filing Date: NA
(62) Divisional to Application Number: NA
  Filing Date: NA

(57) Abstract:
The invention concerns a waveguide such as an optical fibre having a front face such as a fibre facet provided with a coating. The coating comprises one or more organic fluorine compounds. The invention also concerns a method for producing this type of waveguide by means of plasma polymerisation.

No. of Pages: 9 No. of Claims: 11
A low pressure separation system comprising a separator for receiving fluid from a well and a surge vessel for receiving liquid from the separator characterised in that when the liquid reaches a predetermined high level in the surge vessel a valve on the equalisation pipe connecting the surge vessel to the separator is closed and high pressure gas is directed into the surge vessel by opening a valve or a gas pipe forcing: the liquid out of the surge vessel to a production header via a liquid outlet a when the liquid drops to a predetermined low level in the surge vessel the valve on the gas pipe is closed and the valve on the equalisation pipe is opened to equalise the pressure between the surge vessel and the separator.
The disclosure is directed at a method and apparatus for producing a detector element. The detector element includes first and second electrodes located on opposite sides of a semiconductor layer. The first and second electrodes are staggered with respect to each other in a plane perpendicular to the semiconductor layer.
Dosage forms and treatment regimens employing dasotraline for treating Attention Deficit Hyperactivity Disorder (ADHD) are disclosed. The compositions described herein exhibit no abuse potential.
Title of the invention: DOSAGE OF DASOTRALINE AND METHOD FOR TREATMENT OF ADHD

Abstract:
Dosage forms and treatment regimens employing dasotraline for treating Attention Deficit Hyperactivity Disorder (ADHD) are disclosed. The compositions described herein exhibit no abuse potential.

No. of Pages: 11 No. of Claims: 3
The invention relates to the use of a pan PPAR agonist or of a pharmaceutical composition containing said agonist for the treatment of a fibrotic condition.
In one aspect methods of printing a three dimensional article are described herein. In some embodiments a method described herein comprises jetting an ink at a temperature $T_1$ onto a substrate at a temperature $T_2$ to form a layer of the ink on the substrate. The method further comprises subsequently curing the layer of the ink. In some embodiments $T_1$ is greater than $T_2$ and the ink in an uncured state has a liquid gel transition temperature below $T_1$ and above $T_2$. Further the layer of the ink is deposited on the substrate at a rate $R_1$ in mg/s/in$^2$ that is within 60% of a gelation rate $R_2$ of the ink in inverse minutes in an uncured state at $T_2$. The ink can comprise a curable material and a gellant.

No. of Pages : 64 No. of Claims : 19
### Abstract:
A liner (1) for lining an aperture in sheet material such as plasterboard the liner having (a) an annular ring (2) defining a hole (4) having a smaller diameter than an aperture to be lined; a slot (3) extending from the inner periphery (5) of the hole to the outer periphery (6) of the ring (2) so sized and shaped as to allow the liner (1) to be passed from one side of the aperture to the other. A lip (8) is optionally provided around the hole. Resiliently deformable liners are also provided. Also provided are methods of repairing reinforcing or re sizing apertures in sheet materials.

No. of Pages : 13  No. of Claims : 18
**Title of the invention:** PROCESS FOR THE PREPARATION OF ETHYLENE GLYCOL FROM SUGARS

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**Abstract:**
A process for the preparation of ethylene glycol comprising the steps of pyrolysing a monosaccharide and hydrogenating the product composition in the presence of a catalyst and a solvent wherein the pressure of the hydrogenation reaction is 40 bar or greater.

No. of Pages: 17
No. of Claims: 17
A vehicle exhaust component assembly includes a first exhaust component a second exhaust component downstream of the first exhaust component and an injection system configured to inject a reducing agent into engine exhaust gases upstream of the second exhaust component. A mixer connects an outlet of the first exhaust component to an inlet to the second exhaust component. The mixer includes an outer housing that is configured to direct a mixture of the reducing agent and the engine exhaust gases into the second exhaust component. The mixer also includes at least one insulation feature that is configured to reduce heat lost at the outer housing.
**Title of the invention:** DRIVING SYSTEM FOR VEHICLE

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<th>1) TOYOTA JIDOSHA KABUSHIKI KAISHA</th>
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**Abstract:**
In a region in which a rate of change (ASLIP(y)) in slip ratio SLIP(y) of a transmission belt with respect to a change in input torque (Tin) exceeds a permissible slip ratio rate of change set in advance, a steep change in the slip ratio (SLIP(y)) is suppressed by limiting the rate of change in the input torque (Tin).

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No. of Pages : 33  No. of Claims : 4
A monocular stereoscopic camera according to the present invention uses a macro lens capable of performing proximity expansion shooting as a third image formation lens assembly or a telephoto lens having in combination with a second image formation lens assembly the characteristics of a macro lens. Thus the monocular stereoscopic camera has an advantage in that the camera can use various first image formation lens assemblies reduce a vignetting phenomenon reduce the entire length thereof remove an adjustment parameter which is repetitive or replaceable from among parameters requiring adjustment of an optical axis and distinguish a parameter to be adjusted during shooting and an adjustment parameter which may be fixed during shooting once after adjustment from each other. Thus the camera can be easily and simply manipulated and operated and has a simple structure.
A processor [100] monitors directly or indirectly the amount of time it takes for the memory controller [110] to respond to one or more memory access requests. When this memory access latency indicates that a memory latency tolerance of a program thread has been exceeded [504] the processor can apportion additional power [506] to the memory controller thereby increasing the speed with which the memory controller can process memory access requests.
Disclosed are devices and methods for non cryogenic vitrification of biological materials that include the steps of providing one or more capillary channels of which a first opening is operably in contact with a moisture containing vitrification mixture made of a biological material and a vitrification agent. The capillary absorbs and transports the moisture to the second opening through capillary action and the moisture is subsequently evaporated into a surrounding low humidity atmosphere until the vitrification mixture enters into a vitrified state.
METHOD AND DEVICE FOR GENERATING ZC SEQUENCE OF RANDOM ACCESS CHANNEL

Provided are a method and device for generating a ZC sequence of a random access channel. The method for generating a ZC sequence of a random access channel comprises: generating by a base station notification signalling the notification signalling being used for instructing a user equipment (UE) to use a second constraint set in a random access set to generate a random access ZC sequence; and sending by the base station the notification signalling to the UE so that the UE uses the second constraint set to generate the random access ZC sequence wherein the random access set comprises an unconstraint set a first constraint set and a second constraint set wherein the second constraint set is a random access set which the UE needs to use when the doppler frequency shift of the UE is greater than or equal to a first predetermined value and the first predetermined value is greater than one interval between subcarriers of a physical random access channel (PRACH).
A protocol chart creation device having: an initial symbol arrangement unit (12) that arrangements initial symbols indicating the initial state of containers having samples housed therein; an order line arrangement unit (13) that arranges an order line indicating a processing order for the containers in a direction along a first axis from the initial symbols; a processing symbol arrangement unit (15) that arranges processing symbols indicating processes to be performed on the containers along the order line and if there are a plurality of processes to be performed on one container arranges the processing symbols indicating the processes in a line along the order line; and a separation section (22) that separates the initial symbols order lines and arrangement of processing symbols for different containers in a direction along a second axis intersecting the first axis.
The Patent Office Journal 10/03/2017

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<th>(21) Application No. 201617041526 A</th>
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<td>(33) Name of Inventor</td>
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| (57) Abstract                      | Provided is a method for producing a 1,3-di-substituted-cyclobutane-1,2,3,4-tetracarboxylic acid (2) and a dihydride (3) of the acid with high selectivity and high yield. A 1,3-di-substituted-cyclobutane-1,2,3,4-tetracarboxylic acid (2) is produced through step (a) of producing a crystal (1) that is composed of an ethylene dicarboxylic acid derivative represented by formula (4C) or formula (4M) and a nitrogenated organic compound (5) and subsequent step (b) of irradiating the crystal (1) with light to perform a cyclization reaction. A dihydride (3) of the acid is produced through subsequent step (c) of performing a dehydration condensation reaction using the 1,3-di-substituted-cyclobutane-1,2,3,4-tetracarboxylic acid (2) as a starting material. (In the formulae, R1 represents a C1-C4 alkyl group, a phenyl group or a halogen atom.) |

No. of Pages: 36  No. of Claims: 13
A communication apparatus (5) is disclosed, which comprises a base station module (5-1) and an access point module (5-2) for providing wireless connectivity to a communication network to at least one mobile communication device (3-1,3-2,3-3); an interface (100) for coupling the base station module (5-1) and the access point module (5-2) for performing at least one of: a channel restriction operation; a power restriction operation; an intelligent uplink scheduling operation; a carrier frequency reselection operation; and a traffic steering operation; whereby alleviating an interference arising due to coexistence of the base station module and the access point module.
The Patent Office Journal 10/03/2017

No. of Pages : 74 No. of Claims : 8
A process for upgrading a solid carbonaceous material comprising heating the solid carbonaceous material in the presence of a catalyst under partial pyrolysis conditions and obtaining an upgraded solid carbonaceous product a gaseous product and a spent catalyst.
PROCESS FOR PREPARING 3,5-BIS(HALOALKYL)PYRAZOLE DERIVATIVES VIA ACYLATION OF HYDRAZONES

Process for preparing 3,5-bis(haloalkyl)pyrazole derivatives of the formula (I) via acylation of hydrazones.

No. of Pages : 15 No. of Claims : 6
A sealant is provided for sealing a puncture through tissue that comprises an elongate first section including a proximal end, a distal end, and a cross-section sized for delivery into a puncture through tissue, and a second section extending from the distal end of the first section. The first section may be formed from a freeze-dried hydrogel that expands when exposed to physiological fluid within a puncture. The first section comprises chitosan and at least one additional polymer. The second section may be formed from a solid mass of non-freeze-dried, non-cross-linked hydrogel precursors. The precursors are in an unreactive state until exposed to an aqueous physiological environment, whereupon the precursors undergo in-situ crosslinking with one another to provide an adhesive layer bonded to the first section. The second section may further comprise chitosan. Apparatus and methods for delivering the sealant into a puncture through tissue are also provided.
The present invention relates to a low ductility steel tube for use in chemical engineering applications. In particular, the invention relates to a high strength steel tube which has low ductility at elevated temperatures. Such tubes are typically used in chemical plants for transporting reactants and products. One such application includes the use in plants for producing hydrogen and methanol. The tubes could also be used when producing ethylene and other hydrocarbons.
A communications system is disclosed. A communication system for communication between one or more terminal units comprising: a communication manager that is configured to define and manage one or more adjustable communication links for efficient bandwidth utilization wherein the one or more communication links are adjustable by the communication manager adjusting the bandwidth of each of the one or more communication links the frequency bands utilized by each of the one or more communication links and the latency for each of the one or more communication links.
The Patent Office Journal 10/03/2017

| (12) PATENT APPLICATION PUBLICATION | (21) Application No.201617041677 A |
| (19) INDIA | (43) Publication Date : 10/03/2017 |
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(54) Title of the invention : VOLATILE APPLICATIONS AGAINST PATHOGENS

| (51) International classification : A61K31/69,A61P31/04,A61P31/10 |
| (31) Priority Document No : 61/991821 |
| (32) Priority Date : 12/05/2014 |
| (33) Name of priority country : U.S.A. |
| (36) Title of the invention : VOLATILE APPLICATIONS AGAINST PATHOGENS |
| (43) Publication Date : 10/03/2017 |
| (57) Abstract : |

This invention is related to the use of a volatile antimicrobial compound against pathogens affecting humans comprising contacting infected areas with an atmosphere containing an effective amount of a volatile antimicrobial compound in gaseous form. The volatile antimicrobial compounds provided include certain oxaborole compounds for example benzoxaboroles. Delivery systems are provided to take advantage of the volatile nature of these antimicrobial compounds. The method and use disclosed can be combined with other volatile compounds.

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| 1) MALEFYT Tim |

No. of Pages : 68 No. of Claims : 12
The invention deals with a cold rolled and hot dip steel sheet, with a tensile strength of at least 980 MPa, with yield strength above or equal to 500 MPa, with total elongation above or equal to 8%, the composition consisting by weight percent: 0.05 < C < 0.15%, 2 < Mn ≤ 3%, Al < 0.1 %, 0.3 < Si < 1.5%, 0.01 % < Nb < 0.05%, N < 0.02%, 0.1 < Cr + Mo < 1 %, 0.0001 < B < 0.0025, Ti < 0.5%, V < 0.01 %, S < 0.01 %, P < 0.05% the remainder of the composition being iron and unavoidable impurities resulting from the smelting and the microstructure contains, in surface fraction: between 50 and 95 % of martensite and between 5 and 50 % of the sum of ferrite and bainite, wherein the ferrite grain size is below 10 μm, and wherein the aspect ratio of the ferrite grain size is between 1 and 3. The steel according to the invention is oxidized and subsequently reduced during heating, soaking and cooling steps of the annealing.
Adjunct material and methods of using adjunct material to reinforce tissue in proximity to a staple line are provided herein. In general, the adjunct material can be used to maintain a seal in tissue such as lung tissue and prevent stapled tissue from tearing. This adjunct material can be coupled to a jaw of a surgical stapler and can be deployed into tissue along with the staples. In some embodiments, the adjunct material can comprise an outer material encompassing an inner hydrophilic swellable material. The outer material can be selectively dissolvable and/or absorbable. When the outer material is punctured by staples or otherwise penetrated, moisture is passed to the inner material which then swells and expands to transition to a predetermined shape to seal the tissue and prevent leaks from forming in the tissue. Portions of the inner material around the staple line can transition to a large radius.
Various surgical kits are provided including a sealing cuff configured to be positioned around a body lumen and a sealant. In one embodiment the sealing cuff can form an enclosed loop around an anastomosis and can define an interior chamber for receiving sealant therein. The sealing cuff can ensure that sealant remains in contact with the body lumen as the sealant cures and reinforces the anastomosis. Methods for sealing an anastomosis are also provided and include delivering sealant to the sealing cuff inserting inflatable members so that they are positioned adjacent to the anastomosis and delivering fluid to at least one of the inflatable members to expand an inner wall of the tubular organ. In certain aspects gas and/or liquid can be delivered to an anastomosis such as after the sealant has solidified in order to test the effectiveness of the seal.
Title of the invention: METHODS FOR BIOLOGICAL PRODUCTION OF VERY LONG CARBON CHAIN COMPOUNDS

| International classification: | C12P7/64,C12N1/21 |
| Priority Document No: | 61/994042 |
| Priority Date: | 15/05/2014 |
| Name of priority country: | U.S.A. |
| International Application No: | PCT/US2015/030836 |
| Filing Date: | 14/05/2015 |
| International Publication No: | WO 2015/175809 |
| Patent of Addition to Application Number: | NA |
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| Filing Date: | NA |

Abstract:
The present disclosure provides compositions and methods for biologically producing very long carbon chain compounds (longer than C24), such as fatty acyl-CoA, fatty aldehydes, fatty alcohols, fatty ester waxes, alkanes and ketones, from recombinant C1 metabolizing microorganisms that utilize C1 substrates, such as methane or natural gas as a feedstock.

No. of Pages: 81 No. of Claims: 85
A solid/liquid separation module and apparatus enables treatment of solid/liquid mixtures to generate a filtered mass having a liquid content above 50%. A filter unit with stacked filter plates and filter passages recessed into a face of each filter plate is provided.
Chromatic components are presented which alleviate the usage in various applications in that this chromatic component is according to a first aspect of the present application made up of a mirroring surface and a diffusing layer in front of the mirroring surface which preferentially scatters short wavelength components of impinging light with respect to long wavelength components of the impinging light and in that according to another aspect the chromatic component is made up of a stratified glass panel which comprises two less sheets sandwiching an adhesive transparent polymeric film wherein the adhesive transparent polymeric film forms a diffusing layer which preferentially scatters short wavelength components of light passing the stratified glass panel with respect to long wavelength components of this light with respect to long wavelength components of the same.
The invention relates to the field of the protection of security documents such as for example banknotes and identity documents against counterfeit and illegal reproduction. In particular the invention relates to a method for freezing the orientation of orientable magnetic or magnetizable pigment particles by irradiation hardening the coating layer comprising the orientable magnetic or magnetizable pigment particles through the substrate carrying the coating layer.
The present invention addresses the problem of providing a new aromatic dihydroxyalkoxy compound that is highly soluble, is highly processable at a low melting point, and can improve optical properties and other properties such as heat resistance. As the solution, provided are bis(hydroxyalkoxyphenyl)diphenylmethanes expressed by general formula (1). (In the formula, R represents an alkylene group with 2 to 6 carbon atoms; R1 is a phenyl group; R2 each independently represents an alkyl group with 1 to 6 carbon atoms, an alkoxy group with 1 to 6 carbon atoms, or a halogen atom; a represents an integer of 1 to 3; b represents 0 or an integer of 1 to 3, where if b is 2 or more, R2 may be the same or different; and 1 ≤ a + b ≤ 4.)
Disclosed herein is a recyclable barrier film comprising a first layer comprising high density polyethylene; and a barrier layer comprising a polymer other than polyethylene; where the polymer is operative to reduce the oxygen transmission rate through the barrier film relative to the oxygen transmission rate through the first layer; where the barrier layer is present in the barrier film in an amount of less than 5 weight percent based on the total weight of the barrier film. Disclosed herein too is a method of manufacturing the disclosed barrier film.
Title of the invention: LOW SPEED BRAKE APPARATUS FOR ESCALATOR

Abstract:

The present invention relates to a low speed brake apparatus for an escalator comprising: a brake sprocket mounted on a drive shaft for a step; a driven sprocket connected to the brake sprocket through a brake chain to operate in conjunction with the brake sprocket; an electronic clutch that controls a connection between the driven sprocket and a transmission gear; a brake motor of which the central shaft is rotated by the transmission gear; a plurality of switching means connected to a plurality of winding wires that are stators of the brake motor; and a controller for supplying an operating pulse to a selected switching means. Therefore when there is an abnormality in an escalator it is possible to stop a step at a low speed according to an operating pulse supplied by the controller thereby stably stopping riders standing on the step and thus protecting the riders.

No. of Pages: 15 No. of Claims: 4
The present invention relates to a safe operation stop method for an escalator for safely operating and stopping an escalator that senses an abnormal speed of the escalator so as to prevent passengers from falling. A safe operation stop method for an escalator is provided the method including sensing an abnormal speed of the escalator and stopping the escalator before it is reversely rotated and being capable of reliable braking when an abnormal speed of the escalator occurs thereby preventing passengers from falling by adjusting the inertial stopping distance when braking.
Title of the invention: LIQUID RECOVERY FILTER

Abstract:
A liquid recovery filter assembly for recovering filtered liquid trapped within a core or downstream side of a filter element. Multiple embodiments each include a recovery port and a recovery filter in fluid communication with the core or downstream side of the filter element. The recovery port is opened following filtration operations to permit and to facilitate filtered liquid to flow from a downstream or outlet port thus allowing recovery of liquid remaining in the filter core or downstream side following filtering operations. The recovery filter permits the introduction of pressurized gas to force the filtered liquids from the filter assembly without compromising the sterility and/or non contaminant condition of the liquid. Additional aspects include exchangeable filter cartridges or filter elements in single and multi round configurations embodiments with aspiration tubes and dip tubes and still others with hydrophille/hydrophobic recovery filters that function as filters and as valves for the recovery port.

No. of Pages: 112 No. of Claims: 10
The invention related to a tubular electrode assembly for use in a fuel cell comprising: a central inner tubular air supply space; an annular cathode surrounding the tubular air supply space; an annular anode surrounding the cathode; an oxygen permeable layer that is impermeable for water between the tubular air supply space and the cathode; an electrically insulating ion permeable layer between the cathode and the anode; and a first current collector attached to the anode and a second current collector attached to the cathode wherein the first and the second current collectors are suitable for electrically connecting the anode with the cathode via an external electrically conductive path wherein the central inner tubular air supply space is provided with an inlet for air that prevents water from entering the tubular air supply space. The invention further relates to use of such assembly in a fuel cell to a microbial fuel comprising such assembly and to a process for converting light energy into electricity using such microbial fuel cell that makes use of organisms capable of photosynthesis.
A method of accessing a remote resource (4) from a data processing device (2) includes obtaining a first URL corresponding to the remote resource (4) obtaining secret data corresponding to the first URL using the secret data to generate an obscured URL at the data processing device (2) and accessing the remote resource using the obscured URL. This allows the user of the device (2) to see a first URL which is intelligible and provides useful information about the device without sharing that information with the network. The obscured URL identifies the actual location of the remote resource and can be an unintelligible stream of digits or letters.
Abstract:
Provided herein are stereoisomerically pure ester and carbonate analogues of nicotinamide riboside and nicotinamide riboside hydride, and pharmaceutical compositions and uses thereof. The stereoisomerically pure ester and carbonate analogues of nicotinamide riboside and nicotinamide riboside hydride may be used to treat a disease or disorder that would benefit from increased NAD levels including a mitochondrial disease or disorder, insulin resistance, a metabolic syndrome, diabetes, obesity, for increasing insulin sensitivity in a subject, or to treat or prevent a skin condition. The compounds have general formulas (I) or (II) wherein R1 is \(-\text{C}(=\text{O})-\text{X}-\text{(C}2-\text{C}18 \text{ straight chain or branched)}\) alkyl or \(-\text{C}(=\text{O})-\text{X}-\text{(C}2-\text{C}18 \text{ straight chain or branched)}\) alkenyl; each R2 is independently selected from hydrogen, and \(-\text{C}(0)-\text{X}-\text{(C}2-\text{C}18 \text{ straight chain or branched)}\) alkyl or a \(-\text{C}(0)-\text{X}-\text{(C}2-\text{C}18 \text{ straight chain or branched)}\) alkenyl; and X is a covalent bond or 0.

No. of Pages: 132 No. of Claims: 40
Title of the invention: METHODS SYSTEMS AND APPARATUS FOR CONTROLLING MOVEMENT OF TRANSPORTING DEVICES

Abstract:
Systems methods and machine executable coded instruction sets for controlling the movement of transporting devices and/or operations conducted at various workstations are disclosed. In particular the disclosure provides methods systems and computer readable media for controlling the movement of transporting devices configured for fully and/or partly automated handling of goods and/or controlling operations conducted at various workstations.
Title of the invention: **TEXAPHYRIN PT(IV) CONJUGATES AND COMPOSITIONS FOR USE IN OVERCOMING PLATINUM RESISTANCE**

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**Abstract:**
The present disclosure relates platinum(IV) and texaphyrin linked conjugates and compositions comprising a texaphyrin and a platinum(IV) agent. The present disclosure also provides pharmaceutical compositions of the conjugates and compositions. Also provided herein are methods of using the instant compounds in the treatment of cancer such as a platinum resistant cancer.

No. of Pages: 82 No. of Claims: 144
Title of the invention: PROCESSES FOR PRODUCING THICKER GAGE PRODUCTS OF NIOBIUM MICROALLOYED STEEL

Abstract:
A process for controlling austenite grain size in austenite processing through nano scale precipitate engineering of TiN-NbC composites to produce thicker gage product of niobium microalloyed steel includes controlling the base chemical composition of a steel product to include 0.003-0.004 wt. percent nitrogen 0.012-0.015 wt. percent titanium 0.03-0.07 wt. percent carbon and 0.07-0.15 wt. percent niobium; lowering the temperature of roughening to end the roughening operation in the temperature range of from about 980°C to 1030 °C; retaining greater than about 0.03 wt. percent niobium in solution in the matrix by rapid cooling of the product to enter the finish rolling operation below the temperature of no recrystallization with an austenite grain size of about 30 microns; and applying reduced rolling reduction in the finish rolling operation.
Title of the invention: VEHICLE LED LAMP LIGHTING CIRCUIT VEHICLE LED LAMP LIGHTING DEVICE AND METHOD FOR CONTROLLING VEHICLE LED LAMP LIGHTING CIRCUIT

Abstract:
This vehicle LED lamp lighting circuit controls lighting of an LED lamp mounted on a vehicle and is provided with: a first resistor which has one end connected to a power supply line for feeding power supply voltage and has the other end connected to a first contact; a first LED lamp which is formed of at least one first LED element and which has one end connected to a reference node and has the other end connected to a second contact and a grounded ground wire; and a switching device exposed to water which switches between a first state where the reference node and the first contact have electrical continuity and a second state where the reference node and the second contact have electrical continuity.

No. of Pages: 27 No. of Claims: 17
The present invention provides compositions and methods of promoting human health and nutrition.
**Title of the invention:** POLYAMIDE COMPOSITION COMPRISING AMORPHOUS POLYAMIDE AND/OR POLYESTER WITH ENHANCED AND UNIFORM ELECTRICAL CONDUCTIVITY

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**Abstract:** Provided is a composition comprising a) at least one semi crystalline polyamide b) at least one conductive material and c) at least one amorphous polyamide and optionally d) at least one polyester. The composition may further comprise e) at least one filler and f) at least one additive.

No. of Pages: 14  No. of Claims: 15
The present invention relates to a recombinant microorganism useful for the production of 1,2-propanediol and process for the preparation of 1,2-propanediol. The microorganism of the invention is modified in a way that the 1-2-propanediol production is improved by enhancing NADPH dependent HAR activity.

No. of Pages : 39 No. of Claims : 11
The invention relates to an absorbent core (3) intended for use in an absorbent product such as a panty liner. The core (3) comprises an absorbent material and a superabsorbent material. The core (3) has a first extension in a longitudinal direction and a second extension in a transverse direction and the core has a longitudinal central line (A) extending through the core located between a first longitudinal portion (I) and a second longitudinal portion (II). The first and second longitudinal portions (I; II) are symmetric about the longitudinal central line (A). The core has a head portion (a1) an intermediate portion (a2) and a rear portion (a3) extending in a longitudinal direction of the core. The head portion (a1) comprises mirror imaged first circular segment portions (11; 11) and first edge lines (13; 13 ) to which the circular segment portions (11, 11) transition. The intermediate portion (a2) comprises mirror imaged first convex edge portions (15; 15). The rear portion (a3) comprises second edge lines (17; 17) tapering towards a rear end (T5) and the central line (A) of the core in an angle (ϒ).
Title of the invention: DUAL MODE RAPIDLY PASSING TYPE MOVING TARGET RADIATION INSPECTION SYSTEM AND METHOD

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Abstract:
A dual mode rapidly passing type moving target radiation inspection system comprises a radiation source a collimator (220) sensor units (110, 121, 122, 150, 160) a control module (500) a radiation detector and a radiation imaging device wherein the sensor units (110, 121, 122, 150, 160) are used for identifying the type of a moving target and monitoring the position of the moving target in an inspection channel; the control module (500) is used for controlling the radiation source to emit rays in a preset working mode on the basis of the type and the position of the moving target; the preset working mode corresponds to the type of the moving target and the rays emitted by the radiation source in different working modes differ in dosage rate. Also disclosed is a dual mode rapidly passing type moving target radiation inspection method. The inspection system and method described above are capable of radiation inspection of the entire moving targets such as vehicles.

No. of Pages: 10 No. of Claims: 17
Disclosed are template matching based intra prediction coding and decoding and an array scanning method and device. Prediction pixel values of a block to be predicted are calculated using templates in at least two shapes. Since the intra prediction is conducted based on template matching based on the correlation between a template area and the texture of the block to be predicted compared with a template in a single shape templates in different shapes can represent different textures so that when the correlation between the texture of the template in one shape and the texture of the block to be predicted is small templates in other shapes can also be selected. Therefore the degree of matching between the texture of the template and the texture of the block to be predicted can be improved so that the optimal prediction pixel value determined from at least two prediction pixel values has a higher accuracy than a prediction pixel value determined using the template in a single shape.
A printed circuit board includes a laminate substrate. The laminate substrate includes catalytic core material that resists metal plating except where a surface of the catalytic material is ablated. Metal traces are formed within in trace channels within the laminate substrate. The channels extend below the surface of the catalytic material.
Title of the invention : WINDSCREEN WIPER DEVICE

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Abstract:
The wiper device (20) includes a connecting assembly (22) with a base (32) and a joint part (38). The joint part is made as one integral piece and includes a main body portion (40) and a nose portion (41). The main body portion generally extends longitudinally from a front end (46) to a back end (48) and has a top (42) and a pair of sides (44). A resilient tongue (58) is formed into the top and has a button (59). The nose portion is connected with the front end of the main body portion at a resilient hinge (52) and includes a pair of locking tangs (54) that are spaced vertically from the resilient hinge. A pair of locking lugs (70) extend from the back end of the main body portion opposite of the nose portion. The sides of the main body portion present a pair of ledges (64) which are spaced vertically from one another to present a groove (68) between said ledges.
| (51) International classification          | G06F3/0484  |
| (31) Priority Document No                | NA         |
| (32) Priority Date                        | NA         |
| (33) Name of priority country            | NA         |
| (86) International Application No        | PCT/CN2015/075501 |
| Filing Date                              | 31/03/2015 |
| (87) International Publication No        | WO 2016/154893 |
| (61) Patent of Addition to Application Number | NA     |
| Filing Date                              | NA         |
| (62) Divisional to Application Number    | NA         |
| Filing Date                              | NA         |

(57) Abstract:
Disclosed is a method applicable to a portable electronic device comprising a display and a plurality of application programs wherein the display comprises a touch sensitive surface and a display screen. The method comprises: displaying a first application interface element in a first region of a display screen the first application interface element corresponding to a first application program; displaying a second application interface element in a second region of the display screen the second application interface element indicating that a new message corresponding to the first application program has been generated and the second region and the first region being at least partially overlapped; detecting a first gesture; and displaying in response to the first gesture the second application interface element in a third region of the display screen the third region being not overlapped with the first region.

No. of Pages : 49 No. of Claims : 16
Title of the invention: SUBSTITUTED DIHYDROISOQUINOLINONE COMPOUNDS

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Abstract:
This invention relates to compounds of general formula (I) in which R1, R2, R3, R4, L, X and Z are as defined herein, and the pharmaceutically acceptable salts thereof, to pharmaceutical compositions comprising such compounds and salts, and to methods of using such compounds, salts and compositions for the treatment of abnormal cell growth, including cancer.

No. of Pages: 249 No. of Claims: 20
The present invention provides compounds of formula I: or a pharmaceutically acceptable salt tautomer or stereoisomer thereof wherein the variables are as defined herein. The present invention further provides pharmaceutical compositions comprising such compounds and methods of using such compounds for treatment of joint damage or joint injury in a mammal and for inducing differentiation of mesenchymal stem cells into chondrocytes.
The present disclosure relates to a multispecific molecule comprising a binding domain specific to the antigen CD45 and a binding domain specific to the antigen CD79a and/or CD79b compositions comprising same and use of each in treatment for example treatment of autoimmune disease.
The Patent Office Journal 10/03/2017

(12) PATENT APPLICATION PUBLICATION
(21) Application No.201617041841 A
(19) INDIA
(22) Date of filing of Application :07/12/2016
(43) Publication Date : 10/03/2017

(54) Title of the invention : SPINNING MACHINE AND FALSE TWIST DEVICE

(51) International classification :D01H7/92
(31) Priority Document No :10 2014 108 194.3
(32) Priority Date :11/06/2014
(33) Name of priority country :Germany
(86) International Application No :PCT/EP2015/062318
   Filing Date :03/06/2015
(87) International Publication No :WO 2015/189077
(61) Patent of Addition to Application Number :NA
   Filing Date :NA
(62) Divisional to Application Number :NA
   Filing Date :NA

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(57) Abstract :
In a spinning machine in particular a ring spinning machine having a multiplicity of units (1) arranged alongside one another wherein each unit (1) has a drafting unit for drafting a sliver and a spinning device for twisting the drafted sliver to form a thread (3) and also a false twist device (9) arranged between the drafting unit and the spinning device the false twist device (9) has at least one belt (11) driven by a drive device said belt (11) running substantially transversely to the thread (3). The thread (3) wraps around two opposed strands (4, 5) of the belt(s) (11) in particular in a Z or S shape and the at least one belt (11) extends between the drive device and a deflection device along a plurality of units (1) of the spinning machine (10). The belt (11) is assigned at least two non return devices (20) between which a plurality of the units (1) are located. The invention also relates to a corresponding false twist device having belts and a drive device.

No. of Pages : 24 No. of Claims : 15

The Patent Office Journal 10/03/2017 6328
The instant disclosure provides a die assembly for producing an annular microcapillary product. The die assembly is operatively connectable to an extruder having a thermoplastic material passing therethrough. The die assembly includes a shell an inner manifold an outer manifold and a die assembly. The inner and outer manifolds are positionable in the shell with matrix flow channels thereabout to receive the thermoplastic material therethrough such that matrix layers of the thermoplastic material are extrudable therefrom. The die insert is disposable between the inner and the outer manifolds and has a distribution manifold with a tip at an end thereof defining microcapillary channels to pass a microcapillary material therethrough whereby microcapillaries are formed between the matrix layers.
The invention relates to a method for producing an engine component, in particular a piston for an internal combustion engine, wherein an aluminum alloy is cast in the gravity die casting process and wherein the aluminum alloy has 7 to < 14.5 wt% silicon, > 1.2 to ≤ 4 wt% nickel, > 3.7 to < 10 wt% copper, < 1 wt% cobalt, 0.1 to 1.5 wt% magnesium, 0.1 to ≤ 0.7 wt% iron, 0.1 to ≤ 0.7 wt% manganese, > 0.1 to < 0.5 wt% zirconium, ≥ 0.1 to ≤ 0.3 wt% vanadium, 0.05 to 0.5 wt% titanium, and 0.004 to ≤ 0.05 wt% phosphorus as alloying elements and aluminum and unavoidable contaminants as the remainder. The aluminum alloy can optionally comprise beryllium, wherein the calcium content is limited to a low level. The invention further relates to an engine component, in particular a piston for an internal combustion engine, wherein the engine component is composed at least partially of an aluminum alloy, and to the use of an aluminum alloy to produce an engine component, in particular a piston of an internal combustion engine.
There are provided thermoregulatory coatings for paper comprising a nanostructured phase change material (PCM) and a protective layer the PCM including a first agent that undergoes an endothermic phase transition at a desired temperature and a second agent that assists in maintaining a nanostructure and the protective layer providing a basecoat a topcoat or both. There are also provided coated papers and articles comprising such coatings and methods for preparation thereof. Coated papers and articles provided herein have a wide range of application for example in packaging or transport of temperature sensitive materials.
Title of the invention: SYNTHESIS OF DOUBLE STRANDED NUCLEIC ACIDS

Abstract:
The present invention relates to a method for the synthesis of double stranded nucleic acids from a wide variety of samples and comprises the use of these nucleic acids for deep sequence analysis. Also the present invention relates to specific reagents used in the method of the present invention. Further the invention relates to kits comprising reagents for the method of the invention and use of said kits.

No. of Pages: 45 No. of Claims: 29
A platform of devices for removing obstructions and other objects within a blood vessel or other interior lumen of an animal is provided. The system may be deployed in the lumen from a catheter(s) and the system includes a proximal hub and a distal basket comprised of a plurality of cells. A number of different baskets designs are disclosed. Methods of manufacturing such baskets out of a single tube of a memory metal without the need for any welding and methods of use are also disclosed.
The present disclosure relates to a non aerosol foam pump for use in association with an unpressurized liquid container and a foaming element comprising. The pump includes a liquid pump portion and an air pump portion. The liquid pump portion has a liquid chamber with a liquid internal volume and a shuttle liquid piston. The liquid chamber is in flow communication with the unpressurized liquid container and in flow communication with the foaming element. The air pump portion has an air chamber with an air internal volume. The air chamber is in flow communication with the foaming element. The liquid pump portion and the air pump portion have an activation stroke and a return stroke. During the activation stroke the air internal volume is reduced and during a beginning stage of the stroke the liquid internal volume remains the same and during a later stage the liquid internal volume is reduced.
The present invention relates to compounds which are capable of selectively binding to and inhibiting the activity of the potassium channel Kv1.3. The invention also relates to pharmaceutical compositions comprising such compounds and to the use of said compounds and said pharmaceutical compositions for the treatment or prevention of autoimmune diseases obesity parodontitis and/or tissue transplant rejection.
Systems and methods used to control tangential flow filtration are provided including control systems and methods for use with connected systems with upstream processing units such as chromatography processing units in fluid communication with a tangential flow filtration processing unit. Also included are control systems and methods for performing continuous concentration using single pass tangential flow filtration with permeate flow control.
The invention relates to a method for filling a gripper (2) for bulk material (14) said gripper being suspended on holding cables (12) raised and lowered by a crane (1) via a controller (17) and acting on the bulk material (14) with the gripper weight during the closing and filling process. By reducing the effect of the weight of the gripper (2) on the bulk material (14) a fill degree of the gripper (2) is influenced via the controller (17) in that a tensile force acting on the holding cables (12) is influenced. The aim of the invention is to provide a method for optimally filling the gripper. This is achieved in that a tensile force TARGET value (Fsoll) is determined for the holding cables (12) via the controller (17); the tensile force TARGET value (Fsoll) is output to a tensile force controller (18) as an input variable; an electric motor (19) for lifting and lowering the gripper (2) is controlled by the tensile force controller (18); and an ascertained tensile force ACTUAL value (Fist) of the holding cables (12) is supplied to the tensile force controller (18) as an input variable.
The invention relates to an assembly having a number of heat exchangers and to a method for evaporating a working medium by exchanging heat from a heat source medium which assembly can be particularly advantageously used in combination with a system and a method for recovering energy from waste heat in a thermo dynamic cycle process wherein the waste heat is used as the heat source medium. In the assembly having a number of heat exchangers each heat exchanger has a heat source medium through passage and a working fluid chamber separated from said through passage and the heat source medium through passages of the heat exchanger can be/are connected to one another in series in a ring assembly wherein a respective valve means is provided between the heat source medium through passages of two respective serially consecutive heat exchangers in the ring assembly wherein a supply line for the heat source medium is provided which can be selectively connected to the inlet of the heat source medium through passage of each heat exchanger and wherein a discharge line for the heat source medium is provided which can be selectively connected to the outlet of the heat source medium through passage of each heat exchanger.
In a structure such as that described in WO2009/122178 it is necessary to provide an adhesive bond between composite panels and the tubular framework. We describe a chassis comprising a framework of interconnected tubular section metallic members and a plurality of composite panels each panel being adhesively bonded to a plurality of the metallic members wherein at least one bond between a composite panel and a metallic member is formed by an arcuate formation integral with and extending from an edge of a planar section of the composite panel and fitting around an exterior of the metallic member and a layer of adhesive along the gap there between extending substantially from the edge of the planar section across a part of but less than the complete angular extent of the arcuate section. We also describe a method of forming a vehicle chassis comprising the steps of assembling a framework of tubular section metallic members providing a plurality of composite members at least one of which has a planar section and at an edge thereof an arcuate formation substantially matching an external profile of a metallic member applying an adhesive bead along the arcuate formation to a predetermined depth and covering an angular extent of the arcuate formation that is less than the complete extent thereof bringing together the at least one composite member and the metallic member so that the metallic member sits within the arcuate formation and a spacing between them is less than the predetermined depth.
**Title of the invention:** IMPROVED POLYETHYLENEIMINE POLYETHYLENEGLYCOL VECTORS

**Abstract:**
A polyplex of a double stranded RNA and a polymeric conjugate is provided wherein the polymeric conjugate consists of a linear polyethyleneimine covalently linked to one or more polyethylene glycol (PEG) moieties each PEG moiety being conjugated via a linker to a targeting moiety capable of binding to a cancer antigen.

**No. of Pages:** 40  **No. of Claims:** 27
The invention concerns a cassette comprising a sterile barrier (39) with attachment brackets (45) each attached to a guide member (24, 24) for guiding an elongate flexible medical device and flexible portions (44) between two adjacent attachment brackets (45). The flexible portions are rigidly connected to the attachment brackets. The guide surfaces (46) of the attachment brackets come into contact with the elongate flexible medical device.
Title of the invention: SYSTEM AND METHOD OF MEASURING DEFECTS IN FERROMAGNETIC MATERIALS

Abstract:
Defects in ferromagnetic materials are detected and characterized by analyzing the items magnetic fields to find portions of the magnetic fields that differ in characteristic ways from residual magnetic fields generated by non defective portions of the items. The portions of the magnetic fields that differ in the characteristic ways correspond to locations of the defects. The residual magnetic fields correspond to portions of the items distant from the defects. The defect characterization may include volume of material lost due to each defect and/or width and/or depth of each defect.

No. of Pages: 26 No. of Claims: 22
The present invention relates to a plasticizer composition a resin composition and preparation methods therefor and can provide: a plasticizer capable of improving physical properties such as plasticizing efficiency migration tensile strength elongation stress migration and light resistance which are required in a sheet formulation when used as a plasticizer of a resin composition by improving inferior physical properties generated because of structural limitations; and a resin composition containing the same.
Title of the invention: FLUID FILTER CARTRIDGE FLUID FILTER ARRANGEMENT AND METHOD FOR SERVICING A FLUID FILTER ARRANGEMENT

Abstract:
Fluid filter cartridges, in particular fuel filter cartridges, fluid filter arrangements and methods for servicing a fluid filter arrangement.

No. of Pages: 54 No. of Claims: 89
**Title of the invention**: ANTI VIRAL COMPOUNDS PHARMACEUTICAL COMPOSITIONS AND METHODS OF USE THEREOF

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**Abstract**:
Disclosed herein are compounds pharmaceutical compositions and related methods for the treatment of viral infection including RNA viral infection in subjects. The compounds pharmaceutical compositions and methods can modulate the innate immune antiviral response in vertebrate cells including activating the RIG I pathway.

No. of Pages: 100  No. of Claims: 29
According to the invention, one or more discrete edge binning (DEB) features of a DEB template matching system method and/or computer readable medium may preferably comprise and/or apply an image processing algorithm preferably for use in template matching. According to the invention, template matching may preferably involve using one or more known reference features to detect and/or localize similar features within an image.
**Title of the invention:** MICROORGANISM OF GENUS *CORYNEBACTERIUM* FOR PRODUCING L-ARGININE AND L-ARGININE PRODUCTION METHOD USING SAME

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The present invention relates to a microorganism of the genus Corynebacterium for producing L-arginine and an L-arginine production method using same.

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<td>4) KIM Jong Hyun</td>
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<td>5) KIM Hye Won</td>
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No. of Pages: 18 No. of Claims: 4
A method for quantifying the amount of ammonium bicarbonate in a solid sample of ammonium carbamate is provided. The method includes measuring the FT-IR spectrum of the sample calculating the IR band maximum for a first band that is common to ammonium carbamate and ammonium bicarbonate and for a second band that is unique to ammonium carbamate calculating a ratio of the maximum of the second band to the maximum of the first band and calculating the concentration of ammonium bicarbonate in the sample from a calibration curve.
Title of the invention: DC DC CONVERTER WITH HIGH TRANSFORMER RATIO

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Abstract:
A DC-DC converter with a high transformer ratio includes two DC-DC converter bodies with inputs connected in parallel and outputs connected in series so as to ensure the high safe reliability and the high energy conversion efficiency of the DC-DC converter while increase the boost ratio of the DC-DC converter.
Title of the invention: METHODS FOR PRODUCING BERAPROST AND ITS DERIVATIVES

Abstract:
The present invention is directed to methods for preparing Beraprost and novel synthetic intermediates for Beraprost. In one aspect a process is provided to produce a pharmaceutical compound represented by the general Formula (I) via a radical cyclization route. The process is completed in fewer steps than the known synthetic methods and may be conducted to prepare commercially useful quantities. In another aspect synthetic methods are provided for producing Beraprost and its derivatives which are stereoselective efficient scalable and economical. In another aspect substantially isomerically pure compounds and intermediates are produced by the above processes.

No. of Pages: 103 No. of Claims: 26
A printed circuit board includes a laminate substrate. The laminate substrate includes catalytic material that resists metal plating except where a surface of the catalytic material is ablated. Metal traces are formed within in trace channels within the laminate substrate. The channels extend below the surface of the catalytic material.

No. of Pages : 10  No. of Claims : 20
A via in a printed circuit board is composed of a patterned metal layer that extends through a hole in dielectric laminate material that has been covered with catalytic adhesive material on both faces of the dielectric laminate material. The layer of catalytic adhesive coats a portion of the dielectric laminate material around the hole. The patterned metal layer is placed over the catalytic adhesive material on both faces of the dielectric laminate material and within the hole.
Title of the invention: DIGESTIVE SUPPLEMENT TO MITIGATE ADVERSE REACTIONS

Abstract:
A digestive supplement that mitigates adverse reactions caused by food allergens and assists in the enhancement of digestive health of mono gastric mammals including but not limited to companion animal and humans. The supplement comprises inactivated whole yeast cells lysed cells of Saccharomyces cerevisiae and montmorillonite clay.

No. of Pages: 15 No. of Claims: 9
A system for providing electrical energy to an energy consumer includes an environmental energy source; an energy storage unit being electrically connected to the environmental energy source and configured to operate with the environmental energy source; and a control unit connected to the environmental energy source and to the energy storage unit. The control unit further comprising an authentication unit configured to periodically authenticate operation of the energy storage unit with the environmental energy source such that upon authentication by the authentication unit the control unit enables energy to flow from the environmental energy source to the energy storage unit.
The present invention provides a compound of formula (I) or a pharmaceutically acceptable salt thereof; a method for manufacturing the compounds of the invention and its therapeutic uses. The present invention further provides a combination of pharmacologically active agents and a pharmaceutical composition.

No. of Pages : 217 No. of Claims : 27
A communication system is disclosed comprising a gateway connecting a source base station and a target base station. The gateway receives a message from the source base station initiating a handover of a mobile device from the source to the target base station. The received message comprises a security context (an NCC-KeNB pair and/or a KeNB) for securing communications with the mobile device and for deriving a further key for securing subsequent communications with the mobile device. The gateway generates and sends to the target base station a message requesting the target base station to carry out a handover the message comprising the security context.
The Patent Office Journal 10/03/2017
6357

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(57) Abstract:
The present invention relates to a method for verification of the authenticity of currency, documents, debit and credit note in a network comprising the steps of generating verification codes for the currency, documents, debit and credit note from publishers/owners/service providers; entering the usernames and password for accessing the application layer, middleware layer as well as database layer for authorization; under condition that the single or multiple codes will be printed over the currency, document, debit & credit note in a predefine mechanism; verification code gets generated on demand and stored in the database; configuring a labeler to produce labels of the generated codes stored in the database; printing or attaching the verification codes over the currency, documents, debit & credit note with the labels of desired nature; communicating with the verifier and service provider and publisher/owner for the currency, document and debit & credit note verification with respect to the generated codes and a device for said verification of the authenticity of currency, documents and debit & credit notes.

No. of Pages: 13 No. of Claims: 10
Generally the present invention provides novel quinolone compounds and pharmaceutical composition thereof which may inhibit cell proliferation and/or induce cell apoptosis. The present invention also provides methods of preparing such compounds and compositions and methods of making and using the same.

No. of Pages : 102 No. of Claims : 31
The present disclosure relates to a multi-specific antibody molecule comprising or consisting of: a) a polypeptide chain of formula (I): \( \text{VH-CH1-X-V1} \); and b) a polypeptide chain of formula (II): \( \text{VL-CL-Y-V2} \) and pharmaceutical formulations comprising, for example for use in treatment. The disclosure also provides polynucleotide sequences encoding said multispecific antibody molecules, vectors comprising the polynucleotides and host cells comprising said vectors and/or polynucleotide sequences. There is a provided a method of expressing a multispecific antibody molecule of the present disclosure from a host cell.
The present invention discloses a method of making high performance ZnO varistor with improved composition containing CaO additives. It is made from doped nanopowders obtained from metal salts of Zinc selected from nitrates or acetates or carbohydrates with salts of Calcium and one or more of metal selected from Cobalt, Manganese and Aluminum and further mixed with salts of Bismuth prior to subjecting them to one step combustion process. Said nano powder is further consolidated into dense mass by conventional sintering treatment. The varistor pellets so produced have an excellent breakdown field as high as 33kV/cm and coefficient of non-linearity more than 75. The novel method and improved compositions could reduce the manufacture cost of varistor because it does not require high temperature sintering and at the same time eco-friendly because it does not contain Sb2O3 or Cr2O3.

No. of Pages : 29 No. of Claims : 12
## Title of the invention: TAPE CARTRIDGE

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### Abstract

Provided is a tape cartridge which makes it possible to appropriately and stably apply a pressing force for position determination regardless of the size of the thickness of a cartridge case or the device side structure. A tape cartridge (100) for printing onto a printing tape (102) using a printing head (21) of a tape printing device (1) while feeding out the printing tape (102) while the tape cartridge (100) is detachably mounted in the tape printing device (1) the tape cartridge (100) being equipped with: the printing tape (102); a cartridge case (130) for housing the printing tape (102); and an elastic part (182) which is displaced by the pressing force of a pressing part (85) of the tape printing device (1) imparts a reactive force to the pressing part (85) which increases according to the amount of displacement and is provided on the surface of the cartridge case (130) or in a concavity thereof.

No. of Pages: 47
No. of Claims: 18
Provided is a tape cartridge which makes smooth mounting to and release from a cartridge mounting section possible. A tape cartridge (100) to be detachably mounted to a tape printing device (1) in which a cartridge mounting section (5) is equipped with two guide pins (48, 50) for guiding the mounting and release of the tape cartridge (100) the tape cartridge (100) being equipped with: a cartridge case (130) having a pair of finger catch projections (304) on the lateral surfaces thereof; a platen roller (120) guided by one guide pin (48) at the time of mounting/release; and a guidable part (182) guided by the other guide pin (48) at the time of mounting/release. Furthermore the guidable part (182) is positioned at a far point of the cartridge case (130) which is the farthest point relative to the platen roller (120) across an imaginary line (L) connecting the pair of finger catch projections (304).
(54) Title of the invention : TAPE CARTRIDGE

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| (31) Priority Document No | :2014060916 |
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(72) Name of Inventor :
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(57) Abstract :
Provided is a tape cartridge which makes it possible to configure a platen support shaft of a tape printing device into a support state where both ends are supported by using a simple structure and simple operation. A tape cartridge (100) to be detachably mounted in the cartridge mounting section (5) of a tape printing device (1) that is equipped with a cantilever type platen support shaft (48) which passes through a platen roller (120) of the tape cartridge (100) the tape cartridge (100) being equipped with: a platen roller (120) rotatably supported on the platen support shaft; a cartridge case (130) to which the platen roller (120) is mounted; and a shaft support section (236) which is provided on the ceiling section (156) of the cartridge case (130) and shaft supports the tip section of the platen support shaft (48) while the tape cartridge (100) is mounted in the cartridge mounting section (5).

No. of Pages : 38 No. of Claims : 6
The present invention relates generally to a synergistic herbicidal composition to combat weeds in oilseed crops mainly soybean and ground nut, said composition comprising: (a) a aryloxyphenoxypropionic ester; (b) at least one acetolactate synthase (ALS) inhibitor; (c) Fomesafen and (d) additives.

No. of Pages : 29 No. of Claims : 15
An image reading apparatus includes a sensor, a light source, and an image-capture controller. The sensor has a sensitivity area that is in a predetermined wavelength band, and acquires an image signal in accordance with light from sheet. The light source has a first light emitting unit that emits first light having a wavelength within the sensitivity area of the sensor, and a second light emitting unit that emits second light that has a wavelength which is outside of the sensitivity area of the sensor and that excites a fluorophore applied on the sheet. The image-capture controller irradiates the sheet with the first light and the second light to acquire a first image signal using the sensor, and irradiates, after acquiring the first image signal, the sheet with only the second light to acquire a second image signal using the sensor.
A sheet processing system comprising: a sheet processing apparatus; and a sheet counting apparatus, wherein the sheet processing apparatus includes: a conveying unit for conveying a sheet to be processed; a determination unit for determining the sheet conveyed by the conveying unit; and an accumulation unit for accumulating a rejected sheet on the basis of a determination result given by the determination unit, wherein the sheet counting apparatus includes a counting unit for counting the paper sheet, and the paper sheet counting apparatus counts the rejected sheet accumulated on the accumulation unit of the sheet processing apparatus, and having a transmitting unit that transmits an information about the counting result to a receiving unit of the paper sheet processing apparatus. (Fig.9)
A sheet processing system comprising: a plurality of sheet processing apparatuses; a conveying unit conveying a container containing a plurality of sheets; a distribution unit for distributing the container to any one of the plurality of sheet processing apparatuses; an identification information reading unit for obtaining identification information about the container from the container; a communication unit for receiving information about the sheets contained in the container; a control unit for controlling a distribution destination of the container, on the basis of information about processing situations of the plurality of sheet processing apparatuses, the identification information about the container, and the information about the sheets contained in the container. (Fig.8)
Title of the invention: CBRN FOLDABLE STRETCHER

Abstract:
The present disclosure relates to a chemical, biological, radioactive, and nuclear (CBRN) foldable stretcher. The CBRN foldable stretcher is used for carrying a contaminated victim from the hot areas to the decontamination facility and the victim can be decontaminated on the stretcher itself without creating hot spots of hazardous materials on the foldable stretcher.

No. of Pages: 19
No. of Claims: 11
Title of the invention: NOVEL ELTROMBOPAG SALT AND PREPARATION THEREOF

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4) PARVEN KUMAR LUTHRA

Abstract:
New eltrombopag salt form have been obtained and characterized. Pharmaceutical compositions comprising the novel salt form can be used for treatment of diseases, including thrombocytopenia in patients with chronic immune (idiopathic) thrombocytopenic purpura (ITP) who have had an insufficient response to corticosteroids, immunoglobulins, or splenectomy. Process of preparing the novel salt form is also provided herein.

No. of Pages: 12 No. of Claims: 8
## Patent Application Publicaton

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### Title of the invention: CELL TRAY

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### Abstract:

An apparatus is provided for use with a fluid that contains biological cells e.g. seminal fluid. The apparatus (20) includes a tray (22) shaped to define a flat upper surface configured to support the fluid and an underside. The apparatus (20) further includes a plurality of protrusions protruding from the underside of the tray which may serve to separate the underside from a flat surface on which the tray is placed or as delineating protrusions that facilitate subsequent retrieval of the fluid following placement on the tray. The tray has a thickness between 0.4 and 0.8 mm and is transparent or translucent. The upper surface preferably has a level of hydrophobicity that is sufficient for droplets to maintain their shape to a certain extent. A handle (52) facilitates handling of the tray. The apparatus typically fits into a standard sized cryogenic vial (70).

No. of Pages: 20
No. of Claims: 16
An animated poster system (10) including a simulation panel (20) an image server (14) having appropriately processed media and a projector (18) enable a moving image to appear on a textured surface of the panel (20) with no detectable projection devices. The simulation panel (20) includes a portion that when illuminated by the projector (18) with the media appears to be paper that is wrinkled torn and/or pasted to the wall and includes graphics that also appear to be printed but include moving images. The animated poster system (10) can produce a convincing illusion of an animated poster even at close observing distances.
A system utilizes a screen (30) having a compound curvature (104 106 108 110) to simulate an environment viewable from multiple vantage points. The compound curvature of the screen (30) is such that the screen is curved in at least two directions about at least two axes. The display can be positioned behind a wall (32) opening to provide a window effect. The display (30) terminates its active image area (28) outside of a region from which the display can be viewed to create a seemingly infinite simulated environment.
The present invention relates to a compound represented by chemical formula 1 which can be used for the prevention and treatment of diseases caused by abnormality in a prolyl tRNA synthetase (PRS) activity or a pharmaceutically acceptable salt thereof a method for preparing the same and a pharmaceutical composition comprising the same.
A consumer product comprises: (a) a porous dissolvable solid structure and (b) a hydrophobic coating comprising a first benefit agent and a second benefit agent. The hydrophobic coating is applied to the porous dissolvable solid structure. The first benefit agent and the second benefit agent are premixed to form the hydrophobic coating before the hydrophobic coating is applied to the porous dissolvable solid structure. A method of forming an aqueous treatment liquor comprises the steps of: (a) providing a consumer product (b) providing an aqueous solution and (c) dissolving the consumer product in the aqueous solution to form an aqueous treatment liquor comprising a hydrophobic portion and an aqueous portion.
Title of the invention: A GREEN TOILET SYSTEM AND METHOD FOR TREATMENT OF SOLID WASTE AND WASTE WATER

Abstract:
A green toilet system comprises a housing having urinal(s), water closet(s) and water storage tank(s), a receiving module to receive solid waste and waste water from the housing, a first and a second polymer dispenser for dispensing a first polymer that facilitates the segregation of solid waste from water and a second polymer to aggregate the separated solid waste, a filtration module to filter out solid particles from the segregated water, an oxygenator to supply oxygen, a water treatment module to treat the filtrate, chemical dosing system to maintain water clarity and a controller to provide command signals to the polymer dispensers and the oxygenator for dispensing the first and the second polymers and oxygen to the receiving module and the water treatment module.

No. of Pages: 27
No. of Claims: 9
Abstract:
Embodiments of the present invention disclose a process for preparing a stable blend for slow release of insoluble phosphate to soluble phosphate comprising the steps of mixing a source of insoluble phosphate and a source of sulphur to form a mixture; and homogenizing the mixture in an agitator along with other nutrient additives at an rpm of 400-1600 to a temperature in the range of 80-85 degree Celsius to obtain a stable blend, wherein the stable blend is capable of slowly releasing soluble phosphate when the stable blend contacts soil. (Fig. 1)

No. of Pages : 18 No. of Claims : 8
Title of the invention: A MANUALLY INFLATED RETROFIT SEAT BELT

Abstract:
Manually inflatable retrofit seat belt is a device to provide occupant safety during crash and to improve the comfort levels by reducing the human body vibration which causes health hazards. Seat belt is provided with air bag for spinal comfort particularly for automobile applications. Retrofit seat belt of present invention is more suitable for transport particularly with auto rickshaws where manufacturer does not provide a seatbelt restraint system. Present invention provides one complete portable system which can be easily carried and strapped over the accessible frames in the auto rickshaw by a passenger. A spinal comfort air bag is a simple airbag, which can be easily shaped by blowing air by mouth and this is placed between the seat backrest and the lower back of the passenger. A waist belt system is attached to the spinal air bag so that it can be strapped around the waist of the passenger. Seat belt also has got a long tube like airbag which can be manually inflated.

No. of Pages : 17
No. of Claims : 4
Disclosed are a switch assembly, a switch assembly control method, a controller and a base station which relate to the field of wireless communications. The switch assembly comprises a mechanical normally open switch (102), a movable contact (104) and a controller (106) wherein the controller (106) is connected to a phase shifter (108) of a remote electric regulation unit; the movable contact (104) is configured to move with a transmission rod (1082) of the phase shifter (108); and when reaching a designated position, the movable contact (104) triggers the mechanical normally open switch (102) to close. The switch assembly is used as a transmission mechanism of the mechanical normally open switch (104) by using the phase shifter (108) of the remote electric regulation unit which is set up in the base station already thereby solving the problems in the prior art of interference with a base station signal caused by the fact that an integrated semiconductor chip type radio frequency switch is a nonlinear element and relatively difficult installation of a relay type switch caused by relatively large volume so that the effect of reducing the installation difficulty while avoiding the interference with the base station signal is achieved.
A casting strand reduction equipment includes a stand, first and second rollers configured to be held relative to the stand and gripping and pressing a solidified strand $S_t$, actuators driving the upper roller to move closer to and away from each other, detectors configured to detect a central position of the strand in a width direction of the strand that is positioned on an upstream side of the first and second rollers, a shift actuator configured to shift the stand in the width direction, and a controller. The first and second rollers are provided with annular projections extending in circumferential directions thereof, respectively. The controller controls the shift actuator to shift the stand so that the positions of the projections in the width direction substantially correspond to the central position of the strand detected by the detectors.
Title of the invention: COILING TEMPERATURE CONTROL APPARATUS AND COILING TEMPERATURE CONTROL METHOD

Abstract:
A preset cooling instruction calculation block 11 calculates, prior to a steel plate 51 being rolled and cooled, a control code for cooling headers 61 to be opened or closed to achieve a target coiling temperature of the steel plate 51 when the steel plate 51 is cooled according to a velocity pattern that is predetermined. A coiling temperature correction amount calculation block 31 detects a steel plate velocity while the steel plate 51 is being cooled and calculates a correction amount on the coiling temperature corresponding to an influence which a change on the steel plate velocity has on material properties. A cooling header instruction calculation block 35 corrects the control code calculated by the preset cooling instruction calculation block 11 based on the correction amount on the coiling temperature calculated by the coiling temperature correction amount calculation block 31 and outputs the corrected control code to a pre-coiling cooling machine 57.

No. of Pages: 60 No. of Claims: 10
Parachute canopy fabrics are required to have high strength in minimum mass. Hence, fabric designers & manufacturers always try to reduce the mass of canopy fabrics with available yarn strength & yarn linear density by varying the construction of fabric such as yarn density. In these attempts, a common problem that occurs is poor fabric woven stability i.e. inter-yarn slippages/displacement of yarns during handling. No specification of canopy fabrics takes care of this aspect and there is no quantitative method available which can measure the fabric wovenstability. The present invention relates to the evolution of a method for quantitative measurement of fabric stability, so that proper quality acceptance criterion could be established for light weight canopy fabrics of parachutes with regards to fabric woven stability.
Title of the invention: A BIODEGRADABLE ORGANIC INSECTICIDAL SOLUTION AND A SPECIALLY DEVELOPED DEVICE FOR MANUFACTURING THEREOF

Abstract:
The present invention relates to a unique biodegradable organic insecticidal solution comprising a combination of potassium salt of fatty acids and additives in specific weight ratios formulated to retain, and enhance the insecticidal effectiveness of the active ingredients. The insecticidal solution is economical to use, nontoxic to other animals, human and plants. The formulations exhibit significant insecticidal and pesticidal activity with a reduction in phytotoxicity. The solution of present invention provides a combination of potassium salt of fatty acids and additives in specific weight ratios formulated to retain, and enhance the insecticidal effectiveness of the active ingredients wherein all the ingredients are working in synergy to achieve the purpose of significant insecticidal and pesticidal activity with a reduction in phytotoxicity.

No. of Pages: 22
No. of Claims: 13
The conventional Permanent Magnet Direct Current Motor is consists of two components: (a) Stator and (b) Rotor. Of these two components, one is a Permanent Magnet or a set of Permanent Magnets, while the other one is winding coil. In the present invention, both the Permanent Magnet and the Winding Component are rotating components of the motor (Fig.1). The skewed alignment of the two rotating components of the motor (Fig. 2) will efficiently trap both the attraction and repulsion forces of the interacting magnets. The DC current input will be supplied to the Windings Rotor segment through a combination of Slip Ring &- Brush Assembly device and Commutor & Brush Assembly device. The two rotating components of the motor will be rotated by both the repulsion and attraction forces generating higher torque output than their conventional genera.
The present invention is configured to acquire current position information on the basis of information from a spatial data acquisition means and to generate telegram information for train operation control on the basis of the current position information and telegram creation information that is input. In this way the current position information is automatically acquired and the telegram information is generated on the basis thereof.
The Patent Office Journal 10/03/2017

**Title of the invention:** AIRCRAFT AIRFRAME ASSEMBLY

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**Abstract:**
A method of producing an assembly tool (60) for assembling an assembly (6) the method comprising: providing at least a portion of a jig frame (62); fixing support plates (65) to the jig frame (62); machining the one or more support plates (65) such that a surface of each of the support plates (65) lies in a common plane (130); positioning the jig frame (62) such that the machined surfaces of the support plates (65) contact with a supporting surface (138); fixing pickup device mounting plates (140a 140b) to the jig frame (62); machining with respect to the supporting surface (138) the pickup device mounting plates (140a 140b) such that a surface of each mounting plate (140a 40b) has a respective predetermined position and orientation with respect to the supporting surface (138); and fixing to the machined surfaces of the mounting plates (140a 140b) a respective pickup device (66 72).

No. of Pages : 38 No. of Claims : 15
Provided is an olefin resin having improved heat resistance and tackiness as well as excellent optical characteristics and low temperature characteristics and an enhanced balance of these properties. This olefin resin satisfies conditions (I) through (V). (I) The olefin resin exhibits a melting peak (Tm) in the range of 60°C to 130°C and the heat of fusion (H) at the melting peak is 5 to 150 J/g. (II) The ratio (E) (wt%) of orthodichlorobenzene soluble components at 20°C or below and the heat of fusion (H) satisfy a specific relationship. (III) The glass transition temperature (Tg) is 80 to 30°C. (IV) The spin spin relaxation time (T2) of the most dynamic component for a four component approximation of a free induction decay curve is in the range of 150 to 500 ms and the abundance ratio of the component is in the range of 15 to 50%. (V) The limiting viscosity measured in decalin at 135°C is 0.1 to 12 dl/g.
Title of the invention: METHOD AND APPARATUS FOR IMPLEMENTING RADIO RESOURCE CONTROL OF MULTI-CONNECTIVITY

Abstract:
A method and apparatus may include determining, by a network node, that a slave radio-resource-control function is to be initiated. The slave radio-resource-control function may be performed by an access point. The method may also include transmitting a message to the access point. The message includes at least one of a request to initiate the slave radio-resource-control function and a confirmation that the slave radio-resource-control function can be initiated.

No. of Pages : 44 No. of Claims : 34
The present invention relates to a fortified salt and taste enhancer composition comprising rock salt, black salt and refined salt dissolved in water. The rock salt is present in a percentage of 5-20% of the total salt. The black salt is present in a percentage of 0-2% of the total salt. The salt solution comprises 20 gm-30 gm refined salt per 100 ml of water (w/v). The composition further comprises iodine in a concentration of 15 ppm-30 ppm. The composition has high dissolution rates. The composition is dispensed using an atomizer nozzle spray bottle specially designed measuring scales. The atomizer nozzle spray bottle comprises at least two scales and a slot for entering a start date of consumption of the salt composition. The measuring scales form a salt consumption monitoring system. A gargle kit for easy preparation of a correct and suitable saline solution for gargle is provided.
Accordingly, the present disclosure relates to an aerospace mechanism to deploy flaps and decelerate a spent stage of a multi stage flight vehicle within atmosphere. The mechanism comprises a propulsion device, one or more flaps configured on the spent stage and plurality of actuators configured on the spent stage and powered by the pressure from the propulsion device, to control deployment of the one or more flaps and decelerate the spent stage within atmosphere. Each of the plurality of actuator comprises a piston disposed within a cylinder, wherein the cylinder is fluidly coupled to the combustion chamber of the propulsion device. The deployment of the one or more flaps is passively synchronized with burnout of the propulsion device. The burnout of the propulsion device ceases the power to the actuators thereby deploying the one or more flaps. Figure 3
In an inventive tool (16) for the coagulation and dissection of biological tissue there is provided a counter-bearing (35) that has at least one recess (37) open toward the outside and/or one or more hollow chambers (63). The recess (37) or the hollow chamber (63) is configured in such a manner that the counter-bearing (35) when viewing an infinitesimally small cross-sectional segment generates a force/path elasticity characteristic curve with a plateau-like region II, V, during compression and reexpansion. On this plateau II, V, the counter-bearing (35) when viewing an idealized parallel contact of the counter-bearing and the cutting electrode preferably provides a force between 2 N and 4 N. The path section x in which the elasticity characteristic curve indicates the plateau II, IV preferably is as long as the tissue to be dissected is thick, and is, for example, in the range of 0.2 to 1.5 mm; preferably, the thickness is 1 mm, particularly preferably 0.5 mm. As a result of this, it is achieved that the force exerted on the tissue during the cutting operation remains substantially constant in the effective work region. (Figure 2)
Title of the invention: DOUBLE ROTORS WITHOUT STATOR AC INDUCTION MOTOR, CONVENTIONAL AND LEVITATED TYPE

Abstract:
Conventional electromagnetic motor contains two components: (a) Stator and (b) Rotor. In this present invention, both the components of an electromagnetic motor are allowed to remain free, i.e., both the components are allowed to rotate free (Fig. 1). In this case, the speed of motor will reduce to half as compared to their equivalent conventional variants, but the total combined torque output will increase at no additional cost of input power. The speed reduction in the system will not affect the back EMF production, as the relative speed of the two rotating components would remain unchanged, and thus there will be no change in the actual power consumption. The power of the two opposite rotating components of such a motor can be harnessed either separately through separate output shafts or collectively through a common output shaft through the application of gears or pulley/belts. Different combination of gear/pulley ratio to transmit power from the two opposite rotating components of the motor to a common output shaft can be used to get the desired output by compromising between torque and speed.

No. of Pages : 12 No. of Claims : 8
The present invention relates to an improved piezoelectric polymer composite film for actuator applications and an actuator prepared thereof. More particularly, the present invention relates to the preparation of Polyvinylidene Fluoride (PVDF) - Lead Zirconium Titanate (PZT) composite thin films suitable as an actuator for flapping wing of micro/ultra air vehicle. The major aim of the present invention is to provide PVDF-PZT based flexible composite film having 3-1 connectivity for flapping wing actuator applications. The present invention combines the piezo property of PZT with the flexibility of PVDF to provide composite film having higher piezo-electric properties for actuator application. The piezo-polymer-ceramic PVDF-PZT composites of the present invention derive flexibility from polymeric component and higher d33 value from ceramic PZT.
(54) Title of the invention: A RETROFITTABLE TWIN-MODULE RESIDUAL CIRCUIT BREAKER DEVICE TO PROVIDE OVER-CURRENT, SHORT-CIRCUIT AND LEAKAGE CURRENT PROTECTION TO ONE OR MORE INTER-CONNECTED ELECTRICAL APPLIANCES

(51) International classification : H02H 3/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No : NA
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(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

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(72) Name of Inventor : 1) Ashish Gupta
   2) Gaurav Kamboj
   3) Narender Khatri
   4) Pradeep Yadav

(57) Abstract:
The present invention provides a retrofittable twin-module residual circuit breaker device to provide over-current, short-circuit and leakage current protection to one or more inter-connected electrical appliances, characterized in that a first of said twin modules is dedicated to a live pole and incorporates means for overcurrent and short-circuit fault protection, and a second of said twin modules is dedicated to a neutral pole and incorporates means for leakage fault protection, and in that the device is turned on/off by means of a toggle switch.

No. of Pages : 15 No. of Claims : 7
A casting strand reduction equipment includes upper and lower rollers gripping and pressing a solidified strand $\text{St}$, and an actuator driving the upper roller so that the upper and lower rollers move closer to and away from each other. The upper and lower rollers are provided with annular projections extending in circumferential directions thereof, respectively. The upper roller is provided with a pair of guide members lined up in an axial direction thereof.
Title of the invention: AIR FILTER BAG

Abstract:
An improved air filter bag comprising a height from about 35 cm to about 50 cm; a nominal diameter from about 10 to about 40 cm; and a first taper angle from about 65° to about 83° is provided.

No. of Pages: 28  No. of Claims: 13
The invention relates to particles comprising a combination of an anticholinergic a beta2-adrenoceptor agonist and an inhaled corticosteroid process for their preparation and use thereof for the prevention and/or treatment of respiratory diseases.
Title of the invention: SUPPORT DEVICE

Abstract:
A blood flow stimulating device comprising: a boot (101) comprising a sole (111) and an upper; a sock (11) disposed within the boot (101); and a bladder (19) disposed within or on the sock (11) wherein the bladder (19) is configured to undergo repeated inflation and deflation so as to stimulate blood flow in a wearer of the blood flow stimulating device wherein the sock (11) further comprises a toe region (1002) a heel region (1001) and a raised portion (1003) between the toe region (1002) and the heel region (1001) in use reduces the distance between the sock (11) and a foot of a wearer of the blood flow stimulating device at the raised portion of the sock.
A method of treating the hair including providing a concentrated hair care composition in a mechanical foam dispenser. The concentrated hair care composition includes one or more silicones from about 1% to about 5% perfume and is substantially free of high melting point fatty compounds. The method also includes dispensing the concentrated hair care composition from the mechanical foam dispenser as a dosage of foam; applying the foam to the hair; and rinsing the foam from the hair. The foam has a density of from about 0.025 g/cm³ to about 0.3 g/cm³ when dispensed from the mechanical foam dispenser.
There is provided a method for the manufacture of a metal part from powder comprising the steps: a) providing a spherical metal powder b) mixing the powder with a hydrocolloid in water to obtain an agglomerated metal powder c) compacting the agglomerated metal powder to obtain a part of compacted agglomerated metal powder wherein the structure of the part is open d) debinding the part to remove the hydrocolloid e) compacting the part using high velocity compaction (HVC) preferably to a density of more than 95% of the full theoretical density f) further compacting the part using hot isostatic pressing (HIP) preferably to more than 99% of the full theoretical density to obtain a finished metal part wherein at least one oxide is added to the metal powder before step c) which oxide has a melting point higher than the melting point of the metal powder.
Title of the invention: A CLIP TYPE CRANIAL FLAP CLOSING & ANCHORING DEVICE

Abstract:
This invention relates to a clip type cranial flap closing and anchoring device comprising a single structure including first part in contact with top surface of the flap and second part in contact with bottom surface of said flap maintaining a gap therebetween to accommodate the flap, wherein the first part is fixedly secured to third part for fastening the device to the skull. It is associated with the following advantageous features:
- Very fast to operate.
- Cost effective.
- Does not need any special instrumentation for application.
- Prevention of damage to brain.
- Fast re-opening of craniotomy flap without need for special instrumentation.
- Reusable.
- Allows outward movement of cranial flap in case of brain edema.

No. of Pages: 19  No. of Claims: 10
Title of the invention: SYNERGISTIC FUNGICIDAL COMPOSITION

Abstract:
The present invention discloses synergistic fungicidal composition comprising Chlorothalonil, Thiophanate methyl and additives, wherein the ratio of Chlorothalonil to Thiophanate methyl ranges from 0.75:1 to 1.33:1, preferably 1:1.

No. of Pages: 25  No. of Claims: 11
Dynamic resource allocation may be performed in non-uniform memory access (NUMA) systems to fulfill user resource requests. Rather than having the number and physical location of allocated resources be fixed for different size resource allocation, the system may provide a user flexibility to choose the number and location of resources they want to use for a certain application. The system may determine an optimal resource allocation based on available resources and may inform the user. The optimal resource allocation may provide the user with maximum performance and isolation over other resource allocation configurations. Similarly, the above method can be used to allocate not only CPU and memory, but also I/O ports. In addition a policy driven approach can also be used to better allocate compute resources. For example, an high CPU intensive application can focus only on allocation of CPU and memory, whereas an I/O intensive application can focus only on allocation of I/O port resources.
A method of minimizing the occurrence of wheel slip in a traction vehicle includes a drivetrain, at least one wheel for providing tractive effort on a support surface, and a ground-engaging implement moveable relative to the support surface. The method includes estimating a first force acting against the ground-engaging implement, estimating a second force provided by the at least one wheel operable-to move the vehicle on the support surface, and controlling the ground-engaging implement based on a difference between the first force and the second force.
The Patent Office Journal 10/03/2017

(57) Abstract:
A vehicle traction control system for a vehicle having a prime mover, at least one wheel for providing tractive effort on a support surface and being capable of slipping, and a transmission having an input side operably coupled to the prime mover and an output side operably coupled to the at least one wheel. The traction control system includes a controller operable to react to wheel slip by automatically activating a plurality of reactions for reducing wheel slip, wherein the plurality of reactions are tiered such that the controller activates each reaction sequentially in a predetermined order. 18
A vehicle traction control system for a vehicle, in which the vehicle has a prime mover, at least one wheel for providing tractive effort on a support surface, and a transmission having an input side operably coupled to the prime mover and an output side operably coupled to the at least one wheel, and in which the transmission has a controllable clutch pressure between the input side and the output side, includes a controller operable to monitor wheel slip of the at least one wheel. When wheel slip is detected the controller is operable to control the clutch pressure for modulating an output torque of the transmission for reducing the wheel slip. The clutch pressure can be controlled as a function of clutch slip.
A vehicle traction control system for a vehicle includes a prime mover, at least one wheel for providing tractive effort on a support surface, and a ground-engaging implement moveable relative to the support surface. The traction control system also includes a controller operable to monitor wheel slip of the at least one wheel. The controller is operable to move the ground-engaging implement at a rate proportional to an amount of wheel slip.
An apparatus (1) for applying studs (9) on strips of material (S) comprises: a lower plate (5) having a plurality of upward-protruding pins (6), an intermediate plate (7) intended to be disposed on the lower plate (5) and having a plurality of through housings (70) suitable for receiving the body (90) of the studs and letting the pins (6) of the lower plate pass through, and an upper plate (8) with housings (80) to cooperate with the attaching means (91) of the studs. The pins (6) of the lower plate (5) comprise a head (64) made of a soft material intended to stop against the body (90) of the studs, in such manner not to damage the body of the studs, when the studs are pressed between the pins of the lower plate and the housings of the upper plate.
**Title of the invention**: ANTISTATIC AGENT ANTISTATIC AGENT COMPOSITION ANTISTATIC RESIN COMPOSITION AND MOLDED BODY

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

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

**Abstract**:
Provided are: an antistatic agent and an antistatic agent composition which can impart excellent antistatic effects with a small amount of addition which has sufficient durability and wiping resistance and which does not degrade the original physical properties of resin; and an antistatic resin composition and a molded body using the same. The antistatic agent includes a high molecular compound (E) with a structure in which a compound (B) and an epoxy compound (D) having at least two epoxy groups are bonded via an ester bond wherein said compound (B) includes a diol an aliphatic dicarboxylic acid an aromatic dicarboxylic acid and at least one group represented by general formula (1) and has hydroxyl groups on both ends. (1)

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No. of Pages: 43 No. of Claims: 15
No. of Pages: 37 No. of Claims: 10
(54) Title of the invention: METHOD OF TEMPORAL DERIVED BI DIRECTIONAL MOTION VECTOR FOR MOTION VECTOR PREDICTION

(57) Abstract:
A method and apparatus of deriving a temporal derived motion vector in a second direction based on a given motion vector in a first direction for motion vector prediction are disclosed. According to the present invention a given motion vector for a current block is determined where the given motion vector points from the current block in a first direction. A reference motion vector associated with a first reference block in a first reference frame is identified. Then based on the reference motion vector and the given motion vector a temporal derived motion vector is derived. The temporal derived motion vector points from the current block to a second reference block in a second reference frame in a second direction different from the first direction. The temporal derived motion vector is then used as one predictor for encoding or decoding of the motion vector of the current block.

(51) International classification: H04N19/52
(31) Priority Document No: PCT/CN2014/082538
(32) Priority Date: 18/07/2014
(33) Name of priority country: China
(36) International Application No: PCT/CN2015/084043
(38) Filing Date: 15/07/2015
(61) Patent of Addition to Application No: NA
(62) Divisional to Application Number: NA
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No. of Pages: 8 No. of Claims: 21
The purpose of the present invention is to provide an absorbent which is flexible not prone to creasing and not prone to losing shape. This absorbent is configured as described below. An absorbent (3) for an absorbent article the absorbent (3) characterized in that the absorbent (3) is provided with an absorbing core (5) having a first face (9) and a second face (10) on a reverse side thereof from the first face (9) the absorbing core (5) includes thermoplastic resin fibers (6) cellulose based water absorbent fibers (7) and a high absorbent polymer (8) at least a portion of the thermoplastic resin fibers (6) have a first portion (6a) exposed to the first face (9) of the absorbing core (5) a second portion (6b) exposed to the second face (10) of the absorbing core (5) and a connecting portion (6c) for connecting the first portion (6a) and the second portion (6b) and the absorbing core (5) has a tensile strength of at least 1.6 N per 50 mm of width thereof when wet.
Title of the invention : A BUILT IN SHOCK ABSORBING MECHANISM FOR ELECTRIC TREADMILLS

Abstract:
The utility model discloses a built-in shock-absorbing mechanism for electric treadmills, which is characterized by: it comprises a supporting under frame, a treadmill and a shock absorber, wherein the supporting under frame has bilateral holders; the bilateral holders have an inner cavity; the above-mentioned shock absorber is installed within the inner cavity; and the shock absorber is connected to the holder and treadmill through the holder™s fixed axis and treadmill™s fixed axis respectively. Compared with the current technologies, the advantages of this utility model is: This utility model builds the shock-absorbing device within the holders on both sides, which optimizes the external mechanism of the traditional shock-absorbing mechanism and makes it eye-catching, but stabilizes the shock-absorbing mechanism and elongates its service life.
(54) Title of the invention: IMPROVED TWO STAGE INDIRECT & DIRECT EVAPORATIVE COOLING UNIT

(51) International classification: F24F 5/00
(31) Priority Document No: NA
(32) Priority Date: NA
(33) Name of priority country: NA
(86) International Application No: PCT//
Filing Date: 01/01/1900
(87) International Publication No: NA

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

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

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(72) Name of Inventor: 1) J, Sasidharan

(57) Abstract:
The present disclosure provides a two stage evaporative cooling system comprising (a) an indirect evaporative cooling stage comprising one or more indirect heat exchanger to provide sensible indirect cooling by providing removal of heat without allowing air to come in contact with water thus preventing increase in its moisture content and (b) a direct evaporative cooling stage comprising one or more adiabatic heat exchangers to provide cooling of air by adiabatic evaporative cooling. Water used with scavenging air in the indirect evaporative cooling stage and direct adiabatic evaporative cooling stage is chilled water to achieve lower temperature and better efficiency. The present disclosure thus provides an energy efficient, eco-friendly and versatile evaporative cooling system for supplying cool air to maintain a comfortable indoor environment.

No. of Pages: 23 No. of Claims: 10
This invention provides an improved multi crop thresher for threshing the different kind of crops wherein the improvement includes facilitation of additional features of feed conveyor mechanism for transporting the crop thrown on it to threshing unit, auto-retrieval means for transportation of inedible materials separated by oscillating sieve screens to threshing unit for reprocessing and grain elevator for transporting clean grain to container, which makes current thresher more independent and efficient.
(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.3394/MUM/2015 A

(22) Date of filing of Application : 03/09/2015

(43) Publication Date : 10/03/2017

(54) Title of the invention : CLOUD BASED LEARNING

| (51) International classification   | :G06F |
| (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) VAITHEESWARAN, Ramanathan

(57) Abstract:
A system and a method for cloud-based learning are provided. The method includes facilitating a selection of at least one training module from a plurality of training modules at a computing device. The plurality of training modules are accessible from a plurality of remote servers communicably coupled to the computing device in a cloud environment. A virtual training lab including a first plurality of tasks is configured corresponding to the at least one training module. Execution of the first plurality of tasks associated with the at least one training lab is enabled. A metadata generated during the execution of the first plurality of tasks is tracked in real-time. The metadata is analyzed for determining a learning progress associated with a learning of the training module.

No. of Pages : 43 No. of Claims : 12
In one implementation, the present invention assists the user to customize the phone settings according to the scheduled tasks/meetings such that the phone settings change automatically when required. The invention creates a pending intent for every occurrence of an event which starts the associated event at the scheduled time and the phone setting are changed for a certain period of time according to the running event specifications. A notification is also triggered along at the start of the event. The phone settings, before the event started, are stored. When the event reaches the end time again another pending intent is called which reverts the phone state and settings that existed prior to the event are set again. The end of the event is also signified using a notification.
A method and device is provided for the continuous estimation of the blood pressure using a noninvasive technique. The method involves sensing of the displacement signal generated by the palpation of the radial artery. The radial artery is modelled as a cylindrical voight type viscoelastic tissue for the estimation of the personalized blood pressure. The model includes the displacement signal and a set of parameters as an input. The set of parameters include a mean radius of the artery, a radius at zero mmHg, a viscoelastic damping parameter, an elasticity of the artery and a thickness of wall of artery. The method involves the optimization of the set of parameters using heuristic optimization techniques, which helps in the estimation of the systolic and diastolic blood pressure. The method and device can also be personalized for individualized monitoring and estimation of the blood pressure of the person.
Title of the invention: APPARATUS FOR MEASURING MOISTURE CONTENT IN A MEDIUM

Abstract:
Embodiments herein provide an apparatus for measuring moisture content in medium. A capacitive sensor senses a change in capacitance. This change in capacitance is measured based on the moisture content in the medium. An oscillator is coupled to the capacitive sensor. The oscillator is configured to oscillate at a frequency that is varying based on the change in capacitance. The frequency is calibrated to measure the moisture content in the medium. The oscillator operates within a frequency range in which the dielectric constant of the medium remains constant. FIG. 1

No. of Pages: 25 No. of Claims: 8
Embodiments herein provide an apparatus and method for measuring moisture content in medium using Time Domain Reflectometry (TDR). The apparatus includes a pulse generator configured to generate a set of periodic pulses. The pulse generator transmits the set of periodic pulses, in form of a waveform, over a cable. The cable is connected to a TDR probe inserted in the medium. A sampler is configured to sample the waveform reflected from a point on the TDR probe. A signal processing unit is configured to reconstruct the sampled waveform. The signal processing unit is configured to calculate the moisture content in the medium based on travel time of the waveform in the medium by analyzing the reconstructed waveform. FIG. 1

No. of Pages : 32 No. of Claims : 12
The method uses two main underlying concepts. These are GPS and GSM. The main application of this system in this context is tracking the vehicle to which the Advance GPS is connected, giving the information about its position whenever required. This is done with the help of the GPS satellite and the Advance GPS module attached to the vehicle which needs to be tracked. The GPS antenna present in the Advance GPS module receives the information from the GPS satellite in NMEA (National Marine Electronics Association) format and thus it reveals the position information. This information got from the GPS antenna has to be sent to the monitoring section. For this we use GSM module which is connected to Laptop or PC. Thus we have at the monitoring section the complete data about the vehicle for advance real time monitoring with auto update. The monitoring section can display parameters like temperature, Speed, Location (In Google Maps) & RTC. To achieve Automatic Vehicle Location, speed and Temperature system that can transmit the information in real time in interval basis. Real time vehicular tracking system incorporates a hardware device installed in the vehicle (In-Vehicle Unit) and a remote Tracking server. The information is transmitted to tracking server using GSM modem on GSM network by using SMS (GPS Coordinates) or using direct TCP/IP Network. Tracking server also has GSM modem that receives vehicle location information via GSM network and stores this information in database. This information is available to authorize on their Laptop or PC. In Case of emergency the speed of the Vehicle can be controlled from Remote Location.

No. of Pages : 4 No. of Claims : 6
The present application relates to nano-crystalline CuZnSnTe4 (CZTTe) material, films comprising the material and a process for their synthesis. The materials of the present invention are suitable for photovoltaic applications and provide a pathway for developing cheap, ink based techniques for thin film synthesis as well as multi junction solar cells and other optoelectronic applications.
A method and system is provided for building domain intelligent solution. The present application provides a method and system for building a domain intelligent solution, comprises of utilizing a language existing as a generic model for capturing intrinsic knowledge pertaining to a technical domain; creating a domain intelligent solution for said technical domain using said language or vocabulary; translating the domain intelligent solution into required wrappers for them to be integrated with a third party technology or tool; and integrating said created domain intelligent solution with the third party technology or tool for providing system engineering capabilities to make them domain intelligent.
Title of the invention : 3D VIDEO PROCESSING USING MATLAB WITH HOLOGRAM TECHNIQUE

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Abstract :
Idea of our project is to get 3D holographic effect of an object. To get this we are using a personal computer with MATLAB software installed and four cameras. A prototype room is created in which all four cameras are mounted in the middle of each side of room. The object is placed at the centre of room. The video captured by each camera is fed to Personal Computer using USB ports. MATLAB software in PC will take these videos and combine them in one frame in particular pattern and display it on Monitor. This frame (Monitor) is then placed at a tip of glass pyramid in such a way that each video frame will be 45 degree inclined to the each surface of glass pyramid (i.e. 1 frame per side). Since the Video frame is projected on glass surface, the glass will give reflection of each video on its surface (This is for all 4 video frames on each side of pyramid). This projection gives a realistic feel of presence of object inside the pyramid but in reality ghost images are formed. Our technique can be used in Advertising, Presentations and Conference to obtain realistic feel of the objects in their absence.
Title of the invention: SMART BELTS FOR VISUALLY IMPAIRED PEOPLE

Abstract:

Present invention provides specially designed and developed a smart belts for vision impaired people. In the invention an obstacle and pot-hole detection and warning system for the visually impaired is provided, which when used will facilitate indoor and outdoor travel on foot by detecting obstacles or potholes in the path. A smart belt system of general use which can be simply and inexpensively produced and aid in obstacle as well as pot hole detection. The obstacle and a pot-hole detection system comprise maximum 7 belts on the human body. Two belts at leg (one at each leg), two belts at thighs (one at each legs thigh), two belts at arm of hands (one at each arm) and one belt at waist. Following invention is described in detail with the help of Figure 1 of sheet 1 showing the flow chart of the present invention.

No. of Pages : 21
No. of Claims : 3
| (51) International classification | :G06F17/30 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :PCT/ |
| Filing Date | :01/01/1900 |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

**Abstract:**
Embodiments of the present disclosure provide systems and methods for location based search and web page classification. Embodiments of present disclosure provide a platform for connecting different people through location based zonal advertising/posting. Embodiments of the present disclosure further provide a location based search system that allows a user to create an activity, or tag an object, and define a distance of relevance for the activity/object. System of the present disclosure is further configured to automatically crawl web pages and classify them based on location of the object that the webpage relates to, and also allow another user to search for an activity or object based on a location and a defined zonal range of search, wherein the zone aware location system provides a list of activities or object or web pages for which, distance of relevance overlaps with the defined range of interest of the search.

No. of Pages : 34 No. of Claims : 10
**Title of the invention:** GLASS TUMBLER

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No. of Pages: 6
No. of Claims: 2
**Title of the invention:** DABIGATRAN ETTEXILATE 1,4-BUTANEDISULFONATE SALT AND ITS CRYSTAL FORM

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**Abstract:**
The present invention provides a 1:1 salt of dabigatran etexilate with 1,4-butanedisulfonic acid, its crystal form and process for its preparation.

No. of Pages: 10
No. of Claims: 4
A fan blade is mounted on a shaft or arranged to vary in pitch via rotation about a pitching axis. The fan blade is mounted with a centre of mass offset from the shaft or pitching axis. This offset reduces torque around the shaft or pitching axis.
A data structure for managing user equipment communications in a wireless communication system is presented. In some examples the data structure may include one or more resource element blocks into which a frequency bandwidth of a downlink channel is divided within a symbol that defines a transmission time interval in a downlink subframe. Furthermore the data structure may include a control region and a data region within at least one resource element block of the one or more resource element blocks. Additionally the data structure may include a downlink resource grant located within the control region for a user equipment served by the downlink channel. In an additional aspect a network entity and method for generating the example data structure are provided.
The present invention describes a novel, and industrially feasible process for preparation of Armodafinil. This process is easy, cost-effective and viable at all scales.

No. of Pages : 13 No. of Claims : 8
SYSTEMS AND METHODS FOR GENERATING THIN CONFIGURABLE MOBILE APPLICATIONS

Abstract:
Systems and methods for generating thin configurable mobile applications are provided such that user can have access to rich functional and thick user interface of a main application on mobile devices with limited number of screens. The framework ensures that services and functions of the main application are re-used to generate User Interfaces (UIs) on mobile devices in runtime. User action on the mobile application from any source screen leads to a web service wrapper trying to find a matching record in pre-defined configuration templates and subsequently performing that action to render an appropriate UI serving the user request. URL externalization ensures that the same mobile application can connect with different hosted main applications.
An arrangement for controlling a lighting device (80) of a working vehicle (10) comprises a control device (46), which can be operated to switch the lighting device (80) on according to a detected adjustment of the operating element, which lighting device is directed toward the adjustable operating element.

No. of Pages : 11  No. of Claims : 9
Method(s) and System(s) for predicting attribute values for user segmentation are described. The method includes segregating a user with an incomplete attribute value for an attribute into a first group, and users with complete attribute values for each attribute into a second group, and computing prior probability for each suggestive attribute value, identified for the incomplete attribute value, based on number of users in second group having the suggestive attribute value as attribute value for the attribute. The method then includes computing likelihood for each suggestive attribute value based on similarity of the attribute values of the user of the first group with users of the second group, and computing a posterior probability for each suggestive attribute value based on the prior probability and the likelihood, and selecting a suggestive attribute value with the highest posterior probability as the attribute value for the incomplete attribute value of the user.
The invention relates to pharmaceutical compositions comprising a Gal BOEL for use in treating patients with tumours. The invention also relates to methods of treating tumours using said compositions. The invention discloses that following intratumoral injection of a Gal BOEL binding of the natural anti Gal antibody to de novo expressed tumoural Gal epitopes induces inflammation resulting in an anti Gal antibody mediated opsonization of tumour cells and their uptake by antigen presenting cells. These antigen presenting cells migrate to draining lymph nodes and activate tumour specific T cells thereby converting the treated tumour lesions into autologous tumour vaccines. This therapy can be applied to patients with multiple lesions and in neo adjuvant therapy to patients before tumour resection. In addition to the regression and/or destruction of the treated tumour such a vaccine will help in the immune mediated destruction of micrometastases that are not detectable during the removal of the treated tumour. The invention further teaches the enhancement of anti tumour a Gal BOEL treatment by the use of antibodies that inhibit the activity of immunological checkpoints molecules.
**Title of the invention**: MULTI-LINGUAL INPUT METHOD AND USER INTERFACE

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**Abstract**: A system for inputting non-Latin language characters into a computer system through a Latin keyboard, comprising an Input Device to input characters; and an Input Method Editor for processing the characters inputted via the Input Device and generating the Latin and/or non-Latin characters, comprising a Key Layout Database that maps the non-Latin characters of the input language to the Latin keys of the keyboard, such that a plurality of non-Latin characters are mapped to the Latin key that is phonetically most similar to them, and wherein each of the plurality of non-Latin characters can be typed by pressing the key it is mapped to, a pre-specified number of times in quick succession, and/or by pressing the key it is mapped to, in combination with pre-assigned hot keys; and an Input Processor that processes the key stroke events arriving from the Input Device to generate the required Latin and/or non-Latin characters.

No. of Pages : 27 No. of Claims : 10
Title of the invention: SYSTEM FOR CLEANING SIDE GLASS MIRROR OF VEHICLE.

Abstract:
Disclosed is a system for cleaning side mirror of a vehicle. The system includes a track assembly configured on both side across length of a mirror and a rotating slider mounted on the track assembly of the mirror. The rotating slider is capable of moving from one end to other end of the mirror on the track assembly to clean the mirror. The system further includes a gear assembly configured within the frame of the side mirror. The gear mechanism is connected to the rotating slider. Wherein, upon operating gear mechanism, the rotating slider moves respectively. The system also includes a nozzle configured at the corner of side mirror for supplying water while cleaning the side mirror.
A method and a device for real time target location and map creation. The method comprises: 1) carrying out real time location on a moving target in a moving range; 2) updating in real time a geomagnetic field map of the moving range of the target according to the location of the moving target; 3) locating a next moving position of the target according to the updated geomagnetic field map; and repeatedly performing steps 2) and 3) till the target stops moving. The method can implement real time target location and accurate creation of a geomagnetic field map of an indoor target under the condition that a magnetic field map is not detected indoors in advance.
The Patent Office Journal 10/03/2017 6438

Title of the invention: LUMINO

Abstract:
Idea of our project is to get 3D holographic effect of an object. To get this we are using a personal computer with MATLAB software installed and four cameras. A prototype room is created in which all four cameras are mounted in the middle of each side of room. The object is placed at the centre of room. The video captured by each camera is fed to Personal Computer using USB ports. MATLAB software in PC will take these videos and combine them in one frame in particular pattern and display it on Monitor. This frame (Monitor) is then placed at a tip of glass pyramid in such a way that each video frame will be 45 degree inclined to the each surface of glass pyramid (i.e. 1 frame per side). Since the Video frame is projected on glass surface, the glass will give reflection of each video on its surface (This is for all 4 video frames on each side of pyramid). This projection gives a realistic feel of presence of object inside the pyramid but in reality ghost images are formed. I Our technique can be used in Advertising, Presentations and Conference to obtain realistic feel of the objects in their absence.

No. of Pages: 8 No. of Claims: 6
The present invention is related to novel intermediates (1), (la) and (2) and process to produced thereof and novel process for the preparation of piperazine derivatives (3) and (3a). These are useful for the preparation of certain DPP-fV inhibitors and to prepare compounds useful for the treatment of HIV and AIDS wherein X, m and A are as defined in the specification.

No. of Pages : 50 No. of Claims : 15
The present invention describes an improved process for the synthesis of Dimethyl Fumarate comprising reaction between Fumaric acid and aqueous hydrochloric acid in methanol at suitable temperature to obtain the crude product followed by purification of crude product with suitable solvent to obtain pure dimethyl fumarate.
The present invention is related to novel intermediate compounds of formula (4) and (10), methods for their preparation and a method for preparation of Teneligliptin using these novel intermediates. wherein X is halogen, -S(=0)Ri, -Si (R2H aryl or substituted aryl, Rj is C1-C4 alkyl group and R2 is C1-C4 alkyl group, aryl or substituted aryl; wherein substituted aryl with substituent independently selected from halogen, -OH, -N02, -CN group.

No. of Pages : 28 No. of Claims : 11
Title of the invention: GENERATING SELF OSCILLATIONS BY USING A NON-UNIFORM SPIN CURRENT AND A UNIFORM MAGNETIC FIELD

Abstract:
Embodiments herein disclose a method and an oscillator for generating oscillations. The oscillator includes a strip connected to a current source to generate a non-uniform spin current in a vertical direction. A domain wall magnet is placed on the strip. The movement of the domain wall inside the domain wall magnet is based on the non-uniform spin current and the uniform magnetic field to generate oscillations. FIG. 1b
Curing concrete by water intakes large amount of water and also demands time, energy, man power, transportation etc. Using only specific amount of water needed for concrete to cure at regular interval of time is the solution to the problem. The invented method of drip curing for concrete with multi-layer perforated sheets is similar to drip irrigation system used for farming. In drip curing the flow of water is controlled so, only required amount of water is absorbed by concrete and thus saves water. The water is stored in the perforated sheets placed on concrete surface which slowly allows water to drip on concrete rather than wasting water to continuously flow all over the surface.
A system for showing time required for journey of your travelling vehicle whose speed is varying with time.

This system is very useful to any vehicle or car because it is showing very accurate time on display. Time is money and sum times a life in cases of the fire brigade and ambulances. This system comprises of the electronic devices which does the calculations and shows the time required for the given journey at a given speed at that instant using the combination of mechanical and electronics techniques.

The said system receives the input from the speedometer and odometer about the distance covered and speed at that instant and manipulate it with electronic devices and gives time of journey. By knowing the time the driver knows the time in which he completes the journey. As he knows the time, time is managed very easily.
Title of the invention: BRAKING DEVICE FOR VEHICLE WITH HANDLEBAR

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Abstract:
To clarify a change in a relative position of a brake lock lever with respect to a brake lever in operation and non-operation of a brake lock, and to easily discriminate an operating condition of the brake lock, in a braking device for a vehicle with a handlebar. [Solution] A braking device includes a brake lock lever 51 that keeps an equalizer 32 interlocked with a left brake lever 31 in a brake operation condition. The brake lock lever 51 is configured in such a manner that when the brake lock lever 51 is in an unlocked position, a front end of a manipulation part 53 is arranged forward of the left brake lever 31, and when the brake lock lever 51 is in a locked position, the manipulation part 53 is arranged to overlap with the left brake lever 31 when viewed from above.

No. of Pages: 30
No. of Claims: 6
ABSTRACT SIMULATION METHOD, SIMULATION APPARATUS, AND SIMULATION PROGRAM

A coupled simulation of a structural-elastic phenomenon and a heat conduction phenomenon of a simulation target including plural particles is performed. Here, numerical calculation of a motion equation capable of being transformed into an equation of the same form as that of a heat conduction equation is performed with respect to a term of a spatial temperature distribution and a term of a derivative of temperature with respect to time, to perform a simulation of the heat conduction phenomenon of the simulation target. Most Illustrative Drawing: FIG. 1
Title of the invention: YARN WINDING DEVICE, AUTOMATIC WINDER USING THE SAME, TEXTILE MACHINE SYSTEM USING THE SAME, AND YARN-SUPPLY BOBBIN ABNORMALITY DETECTION METHOD

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Abstract:
ABSTRACT YARN WINDING DEVICE, AUTOMATIC WINDER USING THE SAME, TEXTILE MACHINE USING THE SAME, AND YARN-SUPPLY BOBBIN ABNORMALITY DETECTION METHOD A yarn winding unit (4) includes a unit controlling section (50) that controls the yarn winding unit, a yarn supplying section (18) that supports a yarn supplying bobbin (6), a package forming section (60) that winds a yarn (20) unwound from the yarn supplying section to form a package (30), and a yarn monitoring device (15) arranged between the yarn supplying section and the package forming section to monitor a state of the traveling yarn. The unit controlling section identifies, from a monitoring result obtained by the yarn monitoring device, a yarn supplying bobbin on which a yarn lacking in raw material is wound because of an undersupply of a roved yarn in a ring spinning frame (2). Most Illustrative Drawing: FIG. 3

No. of Pages: 94 No. of Claims: 22
The invention relates to a transformer (2), specifically a medium-frequency transformer, for use in a converter (1), comprising:

- a transformer core (21),
- a multicore winding (22) with a plurality of filaments (22a, 22b) which are wound around the transformer core (21), wherein each of the filaments (22a, 22b) forms a coil branch (24a, 24b);
- terminals (23), on which the corresponding ends of the filaments (22a, 22b) are electrically interconnected;
- an inductive coupling (5), for the inductive coupling of the coil branches (24a, 24b) in pairs, such that stray branch-circuit currents in the coil branches (24a, 24b) are compensated. (Figure 3)
(51) International classification : F02N 11/00

(31) Priority Document No : 1558204

(32) Priority Date : 04/09/2015

(33) Name of priority country : France

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Filing Date : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA

Filing Date : NA

(62) Divisional to Application Number : NA

Filing Date : NA

(57) Abstract:
Starter system for an electric motor (M) supplied by an electrical network (1), the starter system comprising an electronic control circuit (7) and an electronic switch (10) for controlling one phase of the motor (M), the electronic switch (10) being controlled by the control circuit (7). The starter system comprises a sensor (3) intended to deliver an analogue signal (4) that is representative of the derivative of a current flowing through the phase of the motor (M), a detection board (5) comprising means for transforming said analogue signal (4) into a binary signal (6) that is representative of the changes in sign of said analogue signal, and comprising means for transmitting said binary signal to the control circuit (7), so as to optimize the control of the electronic switch (10).

No. of Pages : 14 No. of Claims : 11
A method (200), medium, and system (400) to receive a mathematical model representation of performance characteristics for an aircraft and an engine combination; perform a projection based model order reduction on the mathematical model representation; eliminate, based on the projected model, fast dynamics components of the mathematical model representation; determine a reduced order model, as a differential algebraic equation, wherein algebraic equations replace the fast dynamics; set a flight path angle and a throttle level angle as a control to minimize fuel consumption for the modeled aircraft and engine combination; discretize equations of motion for the modeled aircraft and engine combination and formulate optimization equations as a nonlinear programming problem; and determine an optimal open loop control that minimizes fuel consumption for the modeled aircraft and engine combination to climb to a prescribed cruise altitude and airspeed. FIG. 1

No. of Pages : 19 No. of Claims : 6
ABSTRACT The invention relates to the calculation of an absolute and relative axial displacement in a steam turbine (10) between a stationary vane row (18) and a rotating blade row (21) steam turbine (10). This is achieved by using a measurement signal of an outer casing absolute axial expansion sensor (22), a measurement signal of an inner to outer casing differential axial expansion sensor (24) and a measurement signal for a rotor to outer casing differential axial expansion sensor (28). FIG. 1
STEAM TURBINE INNER CASING WITH MODULAR INSERTS

Abstract:
The invention relates to a steam turbine with modular inserts (20, 22, 24) that are removably insertable into an inner case (14). The modular inserts include a seal carrier modular insert (20) located towards a first end of the steam turbine (10), for carrier seals located between the inner casing (14) the rotor (16), that is cylindrically shaped and removably insertable into the inner casing (14), an inlet spiral insert (22), adjacent the seal carrier modular insert (20) and removably insertable into the inner casing (14), for introducing steam into the steam expansion flow path so as to circumferentially distribute steam feed into the steam turbine; and a blade carrier modular insert (24), adjacent the inlet spiral insert (22), that is also cylindrically shaped and removably insertable into the inner casing (14), for retaining stationary blades. FIG. 4

No. of Pages: 16 No. of Claims: 11
The invention relates to a method of forming a decorative surface on a micromechanical timepiece part comprising a silicon-based substrate (1). According to the invention, said method comprises at least one step a) of forming pores (2) on the surface of said silicon-based substrate (1) over a zone of the silicon-based substrate (1) which corresponds to the decorative surface to be formed, said pores being designed to open out at the external surface of the micromechanical timepiece part. The invention likewise relates to a micromechanical timepiece part comprising a silicon-based substrate (1), and having, over at least one zone of said silicon-based substrate (1), pores (2) which are formed in said zone of the silicon-based substrate (1) and open out at the external surface of the micromechanical timepiece part in order to form a decorative surface over said zone. Figure 2
The invention relates to a method for manufacturing a micromechanical timepiece part starting from a silicon-based substrate (1), comprising, in order, the steps of: a) providing a silicon-based substrate (1), b) forming pores (2) on the surface of at least one part of a surface of said silicon-based substrate (1) of a depth of at least 10 µm, preferably of at least 50 µm, and more preferably of at least 100 µm, said pores being designed in order to open out at the external surface of the micromechanical timepiece part. The invention likewise relates to a micromechanical timepiece part comprising a silicon-based substrate (1) which has, on the surface of at least one part of a surface of said silicon-based substrate (1), pores (2) of a depth of at least 10 µm, preferably of at least 50 µm, and more preferably of at least 100 µm, said pores being designed in order to open out at the external surface of the micromechanical timepiece part. Figure 2
The invention relates to a micromechanical timepiece part comprising a silicon-based substrate (1) having at least one surface, at least one part of said surface having pores (2) which open out at the external surface of the micromechanical timepiece part and comprise a tribological agent (5). The invention likewise relates to a method for producing a micromechanical timepiece part starting from a silicon-based substrate (1), said silicon-based substrate having at least one surface, at least one part of which is lubricated by a tribological agent (5), said method comprising, in order, the steps of: a) forming pores (2) on the surface of the part of said surface of said silicon-based substrate (1), b) depositing said tribological agent (5) in said pores (2). Figure 5

No. of Pages: 15 No. of Claims: 16
Title of the invention: METHOD FOR MANUFACTURING A MICROMECHANICAL TIMEPIECE PART AND SAID MICROMECHANICAL TIMEPIECE PART

Abstract:

Method for manufacturing a micromechanical timepiece part starting from a silicon-based substrate (1), comprising, in order, the steps of: a) forming pores (2) on the surface of at least one part of a surface of said silicon-based substrate (1) of a determined depth, b) entirely filling said pores (2) with a material chosen from diamond, diamond-like carbon (DLC), silicon oxide, silicon nitride, ceramics, polymers and mixtures thereof, in order to form, in the pores (2), a layer of said material of a thickness at least equal to the depth of the pores (2). The invention likewise relates to a micromechanical timepiece part comprising a silicon-based substrate (1) which has, on the surface of at least one part of a surface of said silicon-based substrate (1), pores (2) of a determined depth, said pores (2) being filled entirely with a layer of a material chosen from diamond, diamond-like carbon (DLC), silicon oxide, silicon nitride, ceramics, polymers and mixtures thereof, of a thickness at least equal to the depth of the pores (2).
Title of the invention: SYSTEM AND METHOD FOR CONTROLLING PROPELLER PITCH

Abstract:
Systems and methods are disclosed for controlling the pitch angle (I) of a propeller and rotor assembly (14, 16) that selectively limit the pitch angle (I) according to a selected mode of operation. The system comprising a fine stop collar (48) defining a primary channel (56), an oil transfer bearing (OTB) (72) extending across the fine stop collar (48), and an actuator piston (46) engaged with a propeller blade crankshaft (114) to vary propeller blade pitch (I), the annular piston (46) being positioned about the OTB (72) in fluid communication with the primary channel (56). Fig.1
(54) Title of the invention : SYSTEM AND METHOD FOR CONTROLLING PROPELLER PITCH

| (51) International classification | :H04N 5/00 |
| (31) Priority Document No | :P-413810 |
| (32) Priority Date | :07/09/2015 |
| (33) Name of priority country | :Poland |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | : NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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(57) Abstract :
Systems and methods are disclosed for controlling the pitch angle (I) of a propeller and rotor assembly (14, 16) that selectively limit the pitch angle (I) according to a selected mode of operation. The system comprises an actuator (45) having forward and aft chambers (56, 58), an oil transfer bearing (OTB) (70), and a fine stop collar (86). The fine stop collar (86) includes a first passage (88) in fluid communication with the OTB (70) and forward chamber (56) during a ground-based mode of operation, and a second fluid passage (90) being in fluid communication with the OTB (70) and forward chamber during a flight-based mode of operation. FIG.1

No. of Pages : 25 No. of Claims : 10
**Title of the invention:** METHOD AND APPARATUS FOR TRIGGERING RADIO BEARER RELEASE BY A RELAY UE (USER EQUIPMENT) IN A WIRELESS COMMUNICATION SYSTEM

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**Abstract:**
A method and apparatus for triggering radio bearer release by a relay UE in a wireless communication system are disclosed. In one embodiment, the method includes the relay UE connects with an eNB. The method also includes the relay UE establishes a PDN connection for supporting traffic relaying. The method further includes the relay UE establishes a layer-2 link with a remote UE. In addition, the method includes the relay UE creates a radio bearer between the relay UE and the eNB for forwarding data packets between the remote UE and a PDN corresponding to the PDN connection. Furthermore, the method includes the relay UE sends a NAS message to the eNB if a failure of the layer-2 link is detected. And the method includes the relay UE receives a RRC message indicating release of the radio bearer in response to transmission of the NAS message from the eNB.

No. of Pages: 46  No. of Claims: 20
ABSTRACT The present invention relates to wireless networks and more specifically to a method and apparatus for integrating spectrum data from a plurality of autonomous radio agents with a cloud-based data fusion and computing element that enables network self-organization and adaptive control of dynamic frequency selection in 802.11 ac/n and LTE-U networks. In one embodiment, the present invention provides a cloud intelligence engine communicatively coupled to a plurality of multi-channel DFS masters that is configured to receive spectral information from the plurality of multi-channel DFS masters, integrate the spectral information with other spectral information to generate integrated spectral information, and determine communication channels for the plurality of multi-channel DFS masters based at least on the integrated spectral information.
**Title of the invention:** YARN WINDING MACHINE

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**Name of Inventor:**
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2. TAKEUCHI, Hidetoshi

**Abstract:**
ABSTRACT YARN WINDING MACHINE A spinning frame (1) includes spinning units (2), section ducts (31), section blowers (32), filter members (33), a main duct (37), a main blower (38), and a section blower controlling section (39). The section blower controlling section (39) performs a deceleration control of maintaining a rotating state of blades (32a) of the section blower (32) while temporarily reducing a rotational speed of the blades (32a) thereby continuing the rotation. Most Illustrative Drawing: FIG. 3

No. of Pages: 50
No. of Claims: 19
Title of the invention: YARN WINDING MACHINE

The Patent Office Journal 10/03/2017

(51) International classification : D01H 1/00
(31) Priority Document No : 2015-176529
(32) Priority Date : 08/09/2015
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(61) Patent of Addition to Application Number : NA
Filing Date : NA
(62) Divisional to Application Number : NA
Filing Date : NA

(57) Abstract :
ABSTRACT YARN WINDING MACHINE In a spinning frame (1), opening / closing members (a first opening / closing member (65) and a second opening / closing member (66)) are arranged in a flow path in which a suction current (82, 83) generated by at least one of a section blower (32) and a main blower acts in each of section ducts (31). Supporting members openably / closably support the opening / closing members (65, 66) to change an open / closed state of the flow path according to difference between a pressure at an upstream side and a pressure at a downstream side of the opening / closing members. Most Illustrative Drawing: FIG. 3

No. of Pages : 53 No. of Claims : 13
A subframe for a vehicle includes a subframe structure and a rear end joint. The rear end joint is formed on the subframe structure for attachment to a floor via a bolt. The rear end joint defines a notch, having a collar surrounding the bolt. The rear end joint is configured such that, upon impact, the rear end joint interacts with the bolt to break the collar, split the notch, and detach the subframe structure from the floor.

No. of Pages : 15  No. of Claims : 17
Systems and methods are disclosed for controlling the pitch angle of a propeller and rotor assembly (24, 26) that minimizes circumferential loads and stresses to a pitch angle control system (38). The system (38) may generally include an annular actuator (44), load transfer bearing (LTB) (50), and a guide shaft (64) is pivotally attached to the LTB (50) to direct the LTB (50) along an arcuate path (86) relative to a rotor frame (42). FIGS. 1, 2.
Title of the invention: CYLINDER HEAD FOR AN INTERNAL COMBUSTION ENGINE

Abstract:
A cylinder head includes an inner structural member having a plate forming a deck face of the cylinder head and forming at least one dished cylinder roof, and a plurality of cylinder head bolt columns extending from the plate. An outer member is supported by the inner structural member and forms a cooling jacket, intake ports, and exhaust ports. Passages of the cooling jacket are lined with metal walls in contact with the composite structure of the outer member. A method of forming a cylinder head includes positioning a structural insert and a lost core insert in a tool, and injecting material into the tool to form a body surrounding the structural insert and the lost core insert thereby forming a head preform. The lost core insert is shaped to form a cooling jacket and has a lost core material generally encapsulated in a metal shell.
An M-bit delta sigma modulator (200) includes at least one integrator (204) comprised of plurality of amplifiers. An amplifier of a plurality of amplifiers in the amplification path is chopped at a chopping frequency (fchp) to generate an integrated signal (201-1). The chopping frequency (fchp) being 1/N times of a predetermined sampling frequency (fs). A loop filter (206) is coupled to the at least one integrator (204) to generate a filtered analog signal (201-2). An M-bit analog to digital converter (208) is coupled to the loop filter (206) to convert the filtered analog signal (201-2) to an M-bit digital signal (D) sampling at the predetermined sampling frequency (fs). At least one filter (210) and a Q-bit digital to analog converter (212) are provided in a feedback path (220-1) to generate a negative feedback analog signal (201-3). The at least one filter (210) is configured with a transfer function.
Title of the invention: SYSTEM AND METHOD FOR FAST CHARGING OF BATTERIES BASED ON DYNAMIC CUTOFF VOLTAGE

Abstract:
ABSTRACT System and Method for fast charging a battery, based on dynamically determined cut-off voltage. The system determines a current state of charge of the battery being charged, based on inputs collected from the battery. Further, a fast charging profile that matches the current state of charge is determined by the system, and a corresponding cut-off voltage value also is determined. Further, the battery is charged, based on the determined cut-off voltage value. While charging the battery, the system dynamically determines amount of voltage to be applied at various stages of charging. Further, by applying the determined amount of voltage at each stage, the battery is charged to match or exceed the dynamic cut-off voltage value.

No. of Pages: 37 No. of Claims: 8
The present invention provides a manufacturing process to obtain the brake web shoe members using a hot forming technique. The method comprises heating, by means of an induction equipment, a flat strip or sheet so as to soften the piece of metal; pressing, by means of a press, said sheet to form a die set; coining or piercing, by punch and die, said die set to obtain a desired shape of said brake web members. (Figure 3(a))
A device may receive a plurality of images for an object recognition operation to identify one or more objects in the plurality of images after the plurality of images are combined into a stitched image. The device may combine the plurality of images into the stitched image. The device may determine reliability scores for the plurality of images. The reliability scores may be determined based on a difference in images of the plurality of images, and the reliability scores may predict a quality of the stitched image that includes an image, of the plurality of images, to which the reliability scores correspond. The device may determine whether a result of the object recognition operation is likely to satisfy a threshold based on the reliability scores. The device may selectively perform the object recognition operation based on whether the result of the object recognition operation is likely to satisfy the threshold.
Title of the invention: AN INTERFACE FOR MULTI VENDOR ENODEB HANOVER

Abstract:
A communication interface that enables handover in a multi vendor E-UTRAN network is disclosed. The source eNodeB 10 requests a local MME-Lite 14 to set up an interface between local MME-Lite 14 and target eNodeB 12. Since the local MME-Lite 14 and the central MME 16 are in the same device pool, the target eNodeB 12 is enabled to communicate with local MME-Lite 14 using optimized S1 Lite application protocol, and over an S1-Flex interface. Subsequently, the local MME Lite 14 establishes an S1-Flex interface with the target eNodeB 12 using S1-Lite application protocol and informs the source eNodeB 10 about the S1-Flex interface. To perform handover to the target eNodeB 12, source eNodeB 10 transmits the handover request to the target eNodeB 12 via local MME-Lite 14. Since S1-Flex interface is not restricted, target eNodeB 12 accepts the handover request of source eNodeB 10, and the handover is performed. [FIG.2]
A method and system for creating a Multipoint-to-Point (MP2P) EPS bearer in a packet switched transmission network is disclosed. The method includes acquiring the data from a plurality of User Equipments (301), and communicably coupling each of the User Equipments with a radio bearer (302) such that the data acquired by the User Equipments is transmitted to the radio bearer. The radio bearer is communicably coupled to an S1 bearer (303) that receives and multiplexes the data before transmitting it to an S5 bearer (304). The radio bearer, S1 bearer and S5 bearer in combination constitute the MP2P EPS bearer. FIG.2

No. of Pages : 18 No. of Claims : 7
Abstract:

ABSTRACT OF THE DISCLOSURE [0026] An aircraft occupant seat for providing health, safety, and comfort management to aircraft occupants is disclosed. In one embodiment, an aircraft occupant, seated in an aircraft occupant seat in an aircraft, is monitored for health, safety and comfort information using at least one sensor disposed in the aircraft occupant seat. Further, background auditory, electrical noise, temperature and mechanical vibration associated with the aircraft occupant seat is measured using the at least one sensor. The health, safety and comfort information associated with the aircraft occupant is then obtained using the monitored health safety and comfort information and the measured background electrical noise and mechanical vibration. Health, safety and comfort of the aircraft occupant are then managed based on the obtained health, safety and comfort information. [FIG. 1] 15

No. of Pages : 20 No. of Claims : 18
(54) Title of the invention: ROTORS AND METHODS OF MANUFACTURING THE SAME

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<th>(71) Name of Applicant:</th>
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<td>Address of Applicant: 1209 Orange Street, Wilmington, County of New Castle, Delaware 19801, USA, U.S.A.</td>
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<tr>
<td>(33) Name of priority country</td>
<td>:NA</td>
<td>2) Haier US Appliance Solutions, Inc.,</td>
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<td>(86) International Application No</td>
<td>:NA</td>
<td>3) Anbarasu, Ramasamy</td>
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<td>4) Torrey, David Allan</td>
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<td>(87) International Publication No</td>
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<td>5) Rallabandi, Vandana</td>
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(57) Abstract:
A rotor (402) is disclosed. The rotor (402) includes a rotor shaft (404). The rotor (404) further includes a plurality of rotor poles (406) disposed on the rotor shaft (404) such that each rotor pole (406) of the plurality of rotor poles (406) is located at a first determined distance (D1) from adjacent rotor poles, where the plurality of rotor poles (406) comprises two or more pole segments (416), and where one or more pole segments (416) of the two or more pole segments (416) is located at a second determined distance (D2) from adjacent pole segments, and wherein the second determined distance (D2) is smaller than the first determined distance (D1). An electric machine using the rotor (402) and a method of forming the rotor (402) are also disclosed.

No. of Pages: 31 No. of Claims: 20
DESIGN AND FABRICATION OF AN ALL-WEATHER CONCEPT HELMET

Abstract: The innovation is a prototype. Most of the road accident occurs due to improper safety precautions. To a limit, death can be prevented if helmet is worn by the rider. Due to extreme heat in summer the rider hesitates to wear the helmet and in rainy days the visibility of the rider is lessened due to the downpour of rain drops. Here, in this paper I report the design and fabrication of a concept helmet which can be worn on all the seasons and is identical with the existing helmets.

No. of Pages: 17  No. of Claims: 4
Title of the invention: FOLDABLE MOTOR SCOOTER

Abstract:
FOLDABLE MOTOR SCOOTER ABSTRACT The innovation is prototype. A project is about a bike where nowadays two wheelers are playing the vital role in our country. So that, I had an idea to make the two wheeler compact with the user which can be easy to carry everywhere which is small in weight about 15 to 20 kg where it can be kept in a specialized bag and it runs with the battery of 36 (volt) and this bike holds the capacity up to 100 to 120 kg of weight and it is the eco-friendly bike and it runs with the max speed of 40 km per hour. Then it can be charged with the dynamo system while the vehicle is on moving. The bike Foldable Motor Scooter will be useful for the old age people where they can take it each and every place. And, I also conclude that its not an existing technology.
(54) **Title of the invention:** PERSONALIZED CONTEXTUAL COUPON ENGINE

- **International classification:** G06Q 30/00
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- **Name of Inventor:**
  1) VANGALA, Vipindeep  
  2) BHUGRA, Prashant Raj  
  3) KAMDAR, Nirav Ashwin  
  4) GUTMAN, Michael

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(57) **Abstract:**  
Aspects of the technology described herein provide a more efficient user interface by providing coupons that are tailored to a specific user™s interests. The coupons may be provided by a personal assistant or some other application running on a user™s computing device. A goal of the technology described herein is to provide relevant coupons when the user can and actually wants to use them. The coupons are designed goods or services the user intends to purchase.

No. of Pages: 66  No. of Claims: 19
The present disclosure composition comprising a mixture of sodium lactate and sodium gluconate, and at least one butylene glycol extract of a plant selected from the group consisting of Crithmum maritimum, Houttuynia cordata, Salacia reticulata, and combinations thereof for inhibition of glycation.

No. of Pages : 46 No. of Claims : 18
The invention disclose a vehicle seat suspension assembly by means of a front pivoted swing arm spring suspended vehicle seat with comfort limit adjuster. The assembly includes a seat guide rail supporting bracket (102) to receive the load from the vehicle seat (104) and at least two supporting frame (108a and 108b). The vehicle seat suspension assembly also includes a force dampening unit (110) coupled to the seat guide rail supporting bracket (102) on one side, wherein the other side of the force dampening unit (110) is coupled to the supporting frame (108). The vehicle seat suspension assembly also includes a tension spring (112) with a limit adjuster (116) connected to the force dampening unit (110) and a horizontal supporting frame (109) to limit the vertical displacement of the force dampening unit (110). The force dampening unit (110) is adjustable by means of the limit adjuster (112) to limit the comfort limit of the vehicle seat (104) horizontal. (FIG 1)
The present invention discloses a water collection and storage system that is attachable to any reverse osmosis (RO) based water purifying systems comprising a pressure tank, high pressure switch and check valve wherein the pressure tank receives reject water from RO based water purifying systems. Further, high pressure switch senses the pressure difference between pressure tank and RO water purified. The check valve controls the flow of reject water entering into pressure tank based on the signals obtained from high pressure switch. Reject water obtained from water collection and storage system stored in the pressure tank can be used for domestic purposes.

No. of Pages : 9 No. of Claims : 9
SELF-HEATING POUCH AND METHOD OF MANUFACTURE THEREOF ABSTRACT

The present invention relates to a self-heating pouch for heating consumables and method of manufacture thereof. The self-heating pouch includes a flexible housing and a sealable cap. The flexible housing includes an internal pouch, an external pouch, and at least one frangible button. The internal pouch includes an inner surface and an outer surface. The inner surface of the internal pouch is configured to enclose the consumables. The external pouch is attached internally to the outer surface of the internal pouch. The at least one frangible button is included between the external pouch and the internal pouch. The at least one frangible button is configured to release a liquid to react with a heating agent and initiate heating of the consumables. The sealable cap is attached to top of the flexible housing and configured to dispense the consumables. FIG. 4A
Title of the invention : A PROCESS FOR SYNTHESES OF Z-9-HEXADECENOL

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<td>1) Barrix Agro Sciences Private Limited</td>
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<td>1) CHINAGA, Suresh Kumar</td>
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<td>3) DHANRAJ, Vinoth Kumar</td>
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<td>6) MAKAM, Lokesh</td>
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Abstract:
ABSTRACT A PROCESS FOR SYNTHESES OF Z-9-HEXADECENOL The present disclosure provides a process for preparation of Z-9-hexadecenol, a key intermediate for synthesising a group of pheromones consisting of Z-9-hexadecenal and Z-9-hexadecenyl acetate. The process consists of four steps (a) preparation of 9-oxononanoic acid: from sodium periodate oxidation of aleuritic acid; (b) preparation of phosphonium salt: reacting primary alkyl halide of heptane with triphenylphosphine in presence of first set of organic solvent(s); (c) Wittig reaction: combining the phosphonium salt with 9-oxononanoic acid in the presence of suitable base(s) and a second set of organic solvent(s); and (d) preparation of Z-9-hexadecenol: by reacting Z-9-hexadecenoic acid with suitable reducing agent(s) and a third set of organic solvent(s). The process is very economical as it uses readily available and inexpensive starting materials and at the same time giving high yield. The pheromones prepared using the Z-9-hexadecenol are used in pest management. Figure 1
An inexpensive and simple laser transmitter unit for simulating live ammunition in weapons is disclosed. The unit comprises of two parallel laser beams which are visible and non-visible beams. Visible beam is for bore sighting and the non-visible beam is to simulate live ammunition. A microcontroller is used to control the functionality of laser transmitter unit. Further, the unit comprises of a power supply such as a battery along with a regulator to supply regulated power.
Disclosed herein is a gravity fed fuel injection system 100, comprising at least a low pressure circuit (101) and a high pressure circuit, the low pressure comprising at least a fuel tank (102), a fuel filter (104), and a high pressure pump (106). The gravity fed fuel injection system 100 is characterized in that a poppet valve (108) is located in between the fuel filter 104 and the inlet of the high pressure pump, the poppet valve controlled by an electronic control unit (ECU) in a manner such as to meter fuel to the high pressure pump (106). Figure. 1
An improved process for controlled degradation of grain refined magnesium alloy in temporary orthopedic implants. At least one sample rod of magnesium alloy of pre-defined measurement can be processed using severe plastic deformation (SPD) technique in order to thereby achieve the fine grain size of magnesium alloy through microstructural modification. A sample of the grain refined magnesium alloy of pre-defined measurement cut from the centre of the sample can be immersed in simulated body fluids and kept in a constant water bath kept at 37°C in order to achieve rapid mineralization consisting hydroxyapatite and magnesium phosphate phases due to high surface energy for fine grained magnesium. The corrosion resistance of the grain refined magnesium alloy can be increased due to the mineral phases which act as a barrier to enhance the protection against the aggressive attack of chloride ions abundant in physiological environment. Such a grain refined magnesium alloy can be effectively used in a wide range of orthopedic implant applications with greater bio-mechanical properties.
Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for generating and distributing interactive documents. An interactive document generation platform receives information that defines a series of interactive pages of an interactive document to be provided for facilitating performance of a procedure, receives multimedia content to be presented with interactive pages of the interactive document, and generates a data package that includes metadata, structural data, and multimedia content for the interactive document. The data package is provided to an interactive document distribution platform configured for adapting the interactive document for presentation by a plurality of different types of computing devices, receiving a request for the interactive document for a computing device of a particular type, and providing to the computing device a version of the interactive document that is adapted for presentation by the particular type of the computing device.
ABSTRACT [0069] An analytics systems adapted for use in a real-time gaming environment is provided. The analytics system includes a plurality of gaming stations disposed in a plurality of locations within the gaming environment. Each gaming station includes a display zone for displaying a plurality of gaming objects. The analytics system includes at least one sensor configured to capture object data corresponding to the plurality of gaming objects displayed in the display zone. In addition, the analytics system includes at least one processor coupled to the sensor and configured to generate identification data for the plurality of gaming objects. Moreover, the analytics system also includes a multi-agent based system. Lastly, the analytics system includes a monitoring module coupled to the multi-agent based system and configured to enable a user to monitor a plurality of events occurring at each gaming station.
A PROCESS FOR PREPARATION OF Z-9-HEXADECENAL AND Z-9-HEXADECENYL ACETATE

The present invention discloses synthetic process for the preparation of vital sex pheromones Z-9-hexadecenal and Z-9-hexadecenyl acetate. In an embodiment, a process for the preparation of sex pheromone Z-9-hexadecenal is provided. In another embodiment a process for the preparation of sex pheromone Z-9-hexadecenyl acetate is provided. The said pheromones serve as an effective tool in pest management for selectively eradicating the insects of a target species/insect while not disturbing the ecological balance in general. However, the Z-9-hexadecenal and Z-9-hexadecenyl acetate are still not used in the mainstream pest managements owing to their high cost and complicated processes for preparing the same. The present invention uses readily available and inexpensive starting materials and has high yield, thereby brings down the cost of preparing the said sex pheromones. Figure 1

No. of Pages : 26 No. of Claims : 17
Examples disclosed herein relate to maintaining Bidirectional Forwarding Detection (BFD) sessions on a network device upon reboot. In an example, information related to Bidirectional Forwarding Detection (BFD) sessions established on a network device, prior to a reboot of the network device, may be stored in a database. BFD sessions between the network device and peer network devices of the network device that are identified further to the reboot of the network device may be established on the network device, based on the information stored in the database. [Fig. 1]
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<td>Date of filing of Application: 04/09/2015</td>
<td>Publication Date: 10/03/2017</td>
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**Title of the invention:** AVIATION MASK

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**Name of Applicant:** 1) AIRBUS GROUP INDIA PRIVATE LIMITED

**Address of Applicant:** Xylem, 3rd & 4th Floor, Dyavasandra Industrial Area, Mahadevapura Post, Whitefield Road, Bangalore - 560048, Karnataka, India Karnataka India

**Name of Inventor:** 1) ANURAG SHARMA

**Abstract:**

ABSTRACT OF THE DISCLOSURE An aviation mask is disclosed which includes an augmented reality visor, sensors, and a display computational unit. The sensors are communicatively connected to the augmented reality visor. The sensors detect a portion of a cockpit area of an aircraft that is viewed by an aircraft crew member wearing the augmented reality visor during a vision obscured emergency. The display computational unit is communicatively connected to the augmented reality visor and the sensors. The display computational unit projects a prestored image associated with the portion of the cockpit area in front of the augmented reality visor. Further, the display computational unit superimposes the prestored image over the portion of the cockpit area viewed by the aircraft crew member. The superimposed prestored image being viewed by the aircraft crew member through the augmented reality visor to identify objects in the portion of the cockpit area during the vision obscured emergency. [FIG. 2]

No. of Pages: 20 No. of Claims: 22
Title of the invention: TRAFFIC STEERING IN AGGREGATED LTE-WI-FI NETWORKS

Abstract:
Embodiments herein provide a method for traffic steering by a network node aggregated with a long term evolution (LTE) protocol stack and a Wi-Fi (Wi-Fi) protocol stack. The method includes establishing a connection with user equipment (UE) for data communication. Further, the method includes dynamically steering data traffic to the UE. FIG. 2

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NAME OF INVENTOR:
1) Thomas Valerrian Pasca Santhappan
2) Bheemarjuna Reddy Tamma
3) Antony Franklin

No. of Pages: 48 No. of Claims: 31
Title of the invention: A NATURAL FORMULATION AS A WEEDICIDE AND A PROCESS OF PREPARATION THEREOF

| International classification: A01N 65/00 | Name of Applicant: 1) C. Narendranath |
| Priority Document No: NA | Address of Applicant: Mevarathu House, Perumkulam P.O, Kottarakkara, Kollam Dist, Kerala 69156, India. Kerala India |
| Priority Date: NA | Name of Inventor: 1) C. Narendranath |
| 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 | |

Abstract

The present invention relates to a natural composition (weedicide) formulation to be used in farming or agriculture purpose, particularly for control and prevention of agriculture pests and insects. The natural compositions containing a novel combination of calcium oxide (Neetukakka), rock salt, cow urine, water and one or more plant essential oils (Neem oil) and/or derivatives thereof, natural or synthetic, as a fumigant pesticide. The natural composition (weedicide) is cost effective, safer, eco friendly and can be also used as bio fertilizer, fungicide, etc.

No. of Pages: 19 No. of Claims: 9
**Title of the invention:** A MEDICINAL COMPOSITION FOR TREATMENT AND PREVENTION OF KIDNEY DISEASES

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**Abstract:**
The present invention mainly relates to pharmaceutical compositions to treat gallstones, kidney stones. In one embodiment, the herbal/medicinal composition comprising combination of therapeutically effective amount of herbal constituents/ingredients extracted from Sphaeranthus indicus L(Adakkamanian), Aerva lanata useful for the treatment of kidney stone/renal calculus/urinary stones in bladders and other urinary disorders like inflammation and urinary stent related problems without any side effects.

No. of Pages: 15  No. of Claims: 10
A waste particles separator that includes a vibrating feeder, a blower, a vibrating tray, and a discharge unit is provided. The vibrating feeder feeds waste particles and isolates the light material components from the heavy material components of the waste particles. The blower disposes the light material components through a discharging slot. The vibrating tray that receives the heavy material components from the vibrating feeder includes one or more sensors. The one or more sensors detect the heavy material components that are metallic, organic, and inorganic, and transmit a signal to the multiplexer to obtain a processed signal. The microcontroller processes the processed signal and transmits a control signal to the discharge port. The discharge unit receives the control signal from the microcontroller to open the discharge port to discharge the heavy material components that are metallic, organic, and inorganic.
The present invention relates to the variable buoyancy systems used in underwater vehicles and systems in order to control the depth of the system efficiently. The invention uses bellow with linear actuator to precisely vary the buoyancy by compressing or expanding the bellow. It can be used as a standalone system for depth positioning of sensor stations or as an add-on variable buoyancy system for AUVs/ROVs/submarines.

No. of Pages : 13  No. of Claims : 10
Title of the invention: CONVERSION OF BIOMASS INTO A LIQUID HYDROCARBON MATERIAL

Abstract:
CONVERSION OF BIOMASS INTO A LIQUID HYDROCARBON MATERIAL The present invention provides a process for producing liquid hydrocarbon products from a biomass, biomass containing and/or biomass-derived feedstock, said process comprising the steps of: a) contacting the feedstock with a first hydropyrolysis catalyst composition and molecular hydrogen in a first hydropyrolysis reactor vessel at a temperature in the range of from 350 to 600°C and a pressure in the range of from 0.50 to 7.50 MPa, to produce a product stream comprising partially deoxygenated hydropyrolysis product, H2O, H2, CO2, CO, C1 - C3 gases, char and catalyst fines; b) removing said char and catalyst fines from said product stream; c) hydroconverting said partially deoxygenated hydropyrolysis product in a hydroconversion reactor vessel in the presence of one or more hydroconversion catalyst compositions and of the H2O, CO2, CO, H2, and C1 - C3 gas generated in step a), to produce a vapour phase product comprising substantially fully deoxygenated hydrocarbon product, H2O, CO, CO2, and C1 - C3 gases, wherein one or more of the first hydropyrolysis catalyst composition and the hydroconversion catalyst composition is prepared by a process comprising combining a porous support with one or more catalytically active metals selected from Group VI and Group VIII of the Periodic Table, thereby forming a catalyst precursor having a volatile content, and reducing the volatile content of the catalyst precursor in one or more steps, wherein at least one volatile content reduction step is performed in the presence of one or more sulfur containing compounds; and wherein the catalyst precursor does not reach calcining temperatures prior to said at least one combined volatile content reduction-sulfurizing step.
The present invention relates to a device and method for in vitro photometric quantification of haemoglobin concentration in blood. The present invention comprises a LED light source whose wavelength is between 530 and 550 nm, a cylindrical sample holder, whose diameter is between 7 to 15 mm, an optical path assembly, a photo sensor to perform the sample photometry and a microprocessor for automatic switching-on of the light source, to acquire the signal obtained by the photo sensor, to perform the haemoglobin concentration calculations, and to display the results on a touchscreen LCD. The device uses a pre-filled and sealed clear glass ampoule, which is simultaneously a cuvette for the reagent, as sample container and as an optical component in the process, allowing photometric reading through its walls. In order for a one step measurement, the device is pre-calibrated using light amber glass ampoule (optically defined Calibrator Low) and a dark amber glass ampoule (optically defined Calibrator High). Barcode scanner, which is an optional in-built fitment, if available can be used to identify sample ID of the patient if pasted on the glass ampoule neck as a barcode label. The USB interface helps send test results from the meter to the computer which can further be formatted and printed, and can be further be disseminated through internet or cloud computing, for further use. The battery backup enables Hb testing in remote and rural areas. FIG. 6

No. of Pages : 45 No. of Claims : 13
In accordance with one aspect of the present technique, a method includes transmitting an acoustic wave through a radiator tube, wherein the radiator tube comprises a cross-sectional geometry that varies along a length of the radiator tube. The method further includes receiving a reflected wave corresponding to the acoustic wave and filtering the reflected wave based on the cross-sectional geometry of the radiator tube. The method also includes identifying a defect in the radiator tube based on the filtered reflected wave and determining a serviceability of the radiator tube based on the defect. The method further includes sending a notification to a user, wherein the notification comprises at least one of a type of the defect and the serviceability of the radiator tube.
HOT WATER TURBINE ENGINE

ABSTRACT
A hot water turbine engine is disclosed. A hot water turbine engine configured to attachment to the piston engine or electric motor or gas turbine engine. The hot water turbine engine includes a shaft, an axial compressor, steamer chamber, turbines mounted sequentially on a shaft. Heater plugs attached to steamer chamber for increasing water temperature. Hot water pipes attached to the injector in steamer chamber which is came from water pump. The water came from piston engine head or heater coil chamber. A duct adapted to operatively connect from piston engine exhaust to turbine engine inlet area for using exhausting fumes of piston engine as an input of hot water turbine engine. A gearwheel mounted on a shaft to connect piston engine or electric motor or gas turbine engine. A hot water turbine engine coupled to operate with piston engine or electric motor or gas turbine engine.
The invention discloses multi-functional service terminal 100. The terminal 100 comprises one or more readers 10a–10n to read a message 5 from a mobile device 15 of a user. A processor 20 determines a service-type 5b and an encoding-format 5c from the read message 5. The processor 20 encrypts a payload information 5a in the message 5 using the determined encoding-format 5c and a transceiver 30 transmits the encrypted payload information 5a to a validation server 40a–40n corresponding to the determined service-type 5b. Upon receiving a confirmation from the validation server 40a–40n, the processor 20 initiates services such as printing of a ticket, recharging an electronic card, or activating an access control system. Fig. 1
In one aspect, a thrust bearing for coupling a rotor blade to a hub of a wind turbine may include an outer bearing race defining an outer bearing raceway wall. The thrust bearing also includes an inner bearing race defining an inner bearing raceway wall. In addition, the thrust bearing may include a plurality of roller elements disposed between the inner and outer bearing raceway walls. The plurality of roller elements extending circumferentially around the raceway such that each of the plurality of roller elements defines an outer contact point with the outer bearing race and an inner contact point with the inner bearing race. The inner and outer contact points being aligned along a reference line defining a contact angle of substantially 90 degrees.
Abstract:
Disclosed is a receiver (100) for enhancing estimation of a channel of a received signal. The receiver (100) is being configured to (i) process at least one of (a) power control commands to obtain a pattern of processed power control commands or (b) phase estimation to obtain a pattern of processed phase estimation; (ii) match the pattern of at least one of (a) processed power control commands, or (b) processed phase estimation to a pattern corresponding to one or more channels; (iii) determine a type of channel of the one or more channels based on the matched pattern of at least one of (a) said processed power control commands, or (b) said processed phase estimation, (iv) determine filtering parameters based on a type of channel that is determined and (v) enhance estimation of the channel based on the filtering parameters associated with the type of channel that is determined.
**Title of the invention:** A METHOD FOR SPOOF DETECTION BASED ON FINGER VEIN LIVENESS MEASURE

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<tr>
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<td>Teknologivn. 22, 2815, Gjovik, Norway Karnataka India</td>
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<tr>
<td>2) MANASA AVINASH</td>
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<tr>
<td>3) SEBASTIEN MARCEL</td>
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<td>4) CHRISTOPH BUSCH</td>
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**Abstract:**

Attached separately.

No. of Pages: 36
No. of Claims: 10
A system and method of measuring productivity and longevity of human beings based on analysis of their genes in a biological and functional context. The invention relates to a BioMachine, a gene-driven distributed cognitive system, for providing reasonably accurate metabolic picture and measure human productivity and longevity of an individual from his/her genes when placed in a most rationalized biological and functional context. BioMachine is transformed using a personalized client software having gene-related intelligence dynamically in sync with cloud service for personal usage data and layered with gene/protein function data tailored to precisely and accurately an individual’s biological identity, to guesstimate his/her functional acumen best judged ever in the context of human productivity and sustainable longevity by and provide to the end user based on the input data. The proposed system is built on distributed /edge computing and Grid computing circuitry to combine knowledge into bio wisdom to be published in a genome wall and then, combine bio wisdom with inputs from continuous and distributed machine learning on digital usage to personalize experience and insights for the user. Fig.1
Title of the invention: AIRCRAFT OCCUPANT HEALTH, SAFETY, AND COMFORT MANAGEMENT

Abstract:

[0029] An aircraft occupant health, safety, and comfort management is disclosed. In one embodiment, an aircraft occupant, seated in an aircraft occupant seat in an aircraft, substantially around the aircraft occupant seat is monitored for health, safety and comfort information using at least one sensor disposed in the aircraft occupant seat and/or substantially around the aircraft occupant seat. Further, background auditory, electrical noise, temperature and mechanical vibration associated with the aircraft occupant seat is measured using the at least one sensor. The health, safety and comfort information associated with the aircraft occupant is then obtained using the monitored health safety and comfort information and the measured background electrical noise and mechanical vibration. Health, safety and comfort of the aircraft occupant are then managed based on the obtained health, safety and comfort information. [FIG. 1]
Title of the invention: ELECTRONIC BRAKE-SETTING MECHANISM FOR TRACTORS

Abstract:
A brake-actuating system with an electronic brake-setting mechanism, the system comprising: a brake assembly having at least a brake-disc and friction brake-plate mounted on a first bracket; a brake pedal fixed on a profiled rod by means of a sleeved bracket; the brake pedal provided with a footrest as upper stopper therefor; a position sensing means including a brake pedal position sensor mounted on a second bracket under the footrest; and a brake-setting adjusting element provided between the first bracket and the sleeved bracket; wherein the brake pedal is provided with a pedal location reference plate fixed at a predetermined location on the brake pedal and the distance of the pedal location reference plate from the brake pedal is stored in the Engine Control Unit (ECU) as a predefined threshold value of gap for computing the actual pedal travel while operating brakes. The invention also provides a method for operating the electronic brake-setting mechanism. Figure 1.

No. of Pages: 19 No. of Claims: 10
ABSTRACT PROCESS FOR THE PREPARATION OF Z-7,9-DECADIENYL ACETATE

A process for the preparation of Z-7,9-decadienyl acetate, major sex pheromone component of groundnut leaf miner (Aproaeremamodicella) is disclosed. The process consists of four different steps: (a) preparation of 7-hydroxyheptanal: from oxidative cleavage of aleuritic acid with sodium periodate in presence of suitable inorganic base(s); (b) preparation of phosphonium salt: from primary halides of allyl with triphenylphosphine in suitable organic solvent(s); (c) preparation of Z-7,9-decadienol: combining the phosphonium salt with 7-hydroxyheptanal in suitable base(s) and organic solvent(s); and (d) formation of Z-7,9-decadienyl acetate: acetylation of Z-7,9-decadienol with acetyl chloride in presence of suitable organic base(s) and solvent(s). Present invention makes the Z-7,9-decadienyl acetate readily and cheaply available which would result in its wide use in controlling of groundnut leaf miner (GLM) in an eco-friendly way. Figure 1
The present invention discloses an automated system and method to control the activities of home appliances (104) using circuitry raspberry pi (101). The system (100) includes a circuitry raspberry pi (101), wherein the circuitry raspberry pi (101) monitor and control operations of a plurality of the home appliance (104). A means to setup a web based server platform (102) in the circuitry raspberry pi (101) which is configured to provide control communication protocol between the circuitry raspberry pi (101), home appliances (104) and the electronic devices (103) from remote places. The system (100) is further configured to provide two way communication protocols between the home appliances (104) and electronic devices (103) through the circuitry raspberry pi (101) depending on process request sent by users. The two way communication protocol ensures the status of home appliances (104) to the users via electronic devices (103) through the circuitry raspberry pi (101). (FIGURE 1)
**Title of the invention**: COMPACT ATOMIZER FOR INHALATION OF ACTIVE SUBSTANCES

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<td>(72) Name of Inventor : 1) Zisser, Michael</td>
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**Abstract**:
Compact atomizer Fig.1(1.1), suitable for use in the nose, consisting of U-shaped body Fig.3(3.1) Fig.5, with a cavity Fig.6 (6.5) for absorbing porous active substance storage Fig.4 (4.5) and/or reservoir for active substances where one end Fig.2 (2.4), Fig.3 (3.1) of the atomizer can be introduced in the nostril, and it has a cavity (6,5) inside the atomizer (1.1) and the other end is designed as a clamping element Fig.3 (3.4), Fig.4 (4.7)

No. of Pages : 23 No. of Claims : 15
The present invention relates to pharmaceutical composition comprising combination of ofloxacin and ornidazole. In particular, the present invention relates to solid oral compositions comprising combination of ofloxacin and ornidazole and the process of preparing the same.

No. of Pages : 14 No. of Claims : 10
**Title of the invention**: AN AUTOMATIC SOLAR POWERED ILLUMINATION HOARDING OR DISPLAY BOARD

| (51) International classification | :H02J 7/00 |
| (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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**Name of Inventor**: 1) DANIEL T DAVY

**Abstract**: An automatic solar powered illumination hoarding or display board which automatically switches on or off the illumination which is fully automatic, charging the battery, conversion to appropriate voltage and wattage and illumination are controlled by electrical circuits. The device is multipurpose, can be used in different size and shape as per the requirement of the user.

No. of Pages: 11  No. of Claims: 4
A rebeaming assembly (1) of a sectional-warping device (2) having a beaming assembly (6), a sectional-warping assembly (3), and at least one yarn gripper (10) is stated. Furthermore, a sectional-warping device (2) having the rebeaming assembly (1) according to the invention, and having a beaming assembly (6), a sectional-warping assembly (3), and at least one yarn gripper (10) is stated. The intention is to enable a simple rebeaming procedure on the sectional-warping device (2). To this end it is provided, on the one hand, that the rebeaming assembly (1) has a conveying assembly (12) by means of which the yarn gripper (10) is positionable in various positions between the beaming assembly (6) and the sectional-warping assembly (3). To this end it is likewise provided that the rebeaming assembly (1) has a user interface (11) by way of which the conveying assembly (12) is controllable and which is disposed on the beaming assembly (6) or on the sectional-warping assembly (3). Fig. 2
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(57) Abstract:
ABSTRACT OF THE INVENTION
Without the help of Petrol, Diesel, Coal, Air, Water and sunlight Electricity can be produced by 200 kg weight force of pendulums, a dynamo will be functioned and generated the power of electricity. Through that dynamo DC & AC Electricity would be produced and saved. By that 1 to 1000 mega watt can be produced through this new invention. PROCESSING METHOD OF ELECTRICITY BY PENDULUMS. In a fabricated stand two shafts have been fixed in the table connected with bearings by 3 feet length. In that two (2) shafts half gear wheels are fixed and connected with the two pendulums opposite side. Half gear wheels are fixed for the purpose of return the pendulums. The two pendulums are fixed at the point of 90 degree with the help of stopper (Lever lock) In the table another 8 feet one shaft fixed with the bearings and connected with the full gear wheel. The full gear wheel is fixed and connected with the half gear wheel. At the end of full gear wheel, 24 inch diameter wheel is fixed and connected with small gear wheel. The small gear wheel is connected with the Dynamo. THE METHOD OF FUNCTION /PROCESSING AND HOW IS PROCESSED The two pendulums are fixed and stopped with the help of lever lock at the point of 90 degree. The locker will be released the pendulums in the opposite side being moved left to right here and there. When the moving of opposite side two pendulums /the connected half gear wheel rotated. The rotated half gear wheel will also rotate the full gear wheel. The full gear wheel rotate the 24 inch diameter wheel. The rotation of 24 inch wheel will also rotate the small wheel which is connected with Dynamo. The rotation of small wheel, the dynamo will generate the electricity power. The generated power sent to transformer.

No. of Pages : 18 No. of Claims : 5
(54) Title of the invention : CRYSTALLINE PROPANE-1,2,3-TRIOL SOLVATE OF DAPA GLIFLOZIN AND PROCESS FOR ITS PREPARATION

(51) International classification : A61K 31/00
(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 : Aspects of the present application relate to process for the preparation of crystalline propane-1,2,3-triol solvate of dapagliflozin, process for the preparation of L-proline complex of dapagliflozin and pharmaceutical formulations of crystalline propane-1,2,3-triol solvate of dapagliflozin.

No. of Pages : 22 No. of Claims : 10
Title of the invention : A MECHANISM FOR RETRACTING A BUNK SEAT

| International classification | (71) Name of Applicant :
| :A47C 19/00 | 1) Daimler AG  
| Address of Applicant : 70546, Stuttgart, Germany  
| (86) International Application No : NA | (72) Name of Inventor :
| Filing Date : NA | 1) Jayasankar R  
| (87) International Publication No : NA | 2) Udayakanth G  
| (61) Patent of Addition to Application Number : NA | (62) Divisional to Application Number : NA  
| Filing Date : NA | (57) Abstract :
| [025] Abstract [026] A Mechanism for Retracting a Bunk Seat [027] A mechanism for retracting a bunk seat fitted in a vehicle cabin, the mechanism comprising: a rod fixed on a rear side of the bunk seat; a hook fixed on a rear wall of the cabin; and a spring connected between one end of the rod and the hook; the spring stores energy during a closing action of the bunk seat and assist during an opening action of the bunk seat. (FIG2)  

No. of Pages : 8  
No. of Claims : 8
MANUMATIC TRANSMISSION ASSEMBLY FOR VEHICLES

Described herein is a manumatic transmission assembly 100 for vehicles that includes an idler gear 106 and a mating gear 102, 104 on either side of the idler gear 106. The opposite faces 124, 126 of the idler gear 106 are capable of magnetization with opposite polarities. Each of the mating gears 102, 104 has a first face towards the idler gear 106 on which a permanent magnet 116 is secured for synchronization of the mating gear 102, 104 with the idler gear 106. A plurality of magnetic bosses 120, 122, 128, 130, 132 having same polarity are mounted on the circumference of the mating gears 102, 104 and the idler gear 106 for locking the mating gear 102, 104 with the idler gear 106, such that the plurality of magnetic bosses 120, 122 of the mating gears 102, 104 and the plurality of magnetic bosses 128, 130, 132 of the idler gear 106 face towards each other, and the polarity of the plurality of magnetic bosses 120, 122 of the mating gears 102, 104 are different from the polarity of the magnetic element 116. (FIG1)
A Mechanism for Retracting a Bunk Seat

A mechanism for retracting a bunk seat fitted in a vehicle cabin, the mechanism comprising: at least a first fixed bracket mounted on a rear wall of the cabin; at least a second fixed bracket mounted on a rear side of the bunk seat; and a torsion rod having one end fixed into the first fixed bracket and other end fixed into the second fixed bracket; the torsion rod is twisted during a closing action of the bunk seat and stores energy which assist the lifting of the bunk seat during an opening action. (FIG 3)

No. of Pages : 11 No. of Claims : 5
Title of the invention: TONER DEVELOPER AND IMAGE FORMATION DEVICE

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5) NAGATA Kōsuke
6) NAKAYAMA Shinya
7) MIZOGUCHI Yuka
8) AMEMORI Suzuka

Abstract:
3 10A toner that contains a pigment a polyester resin (A) that is insoluble in tetrahydrofuran (THF) and a polyester resin (B) that is soluble in THF. Said toner also satisfies the following conditions: (1) the former polyester resin (A) contains a C aliphatic diol as a constituent; (2) the latter polyester resin (B) contains at least 40 mol% of an alkylene glycol as a constituent; and (3) differential scanning calorimetry (DSC) indicates that the glass transition temperature (T_g1st) of the toner when the temperature of the toner is raised for the first time is in the 20-50°C range.
Title of the invention: DRILLING TOOL FOR DENTAL IMPLANT SURGERY COMPRISING A STEPPED GUIDE

Abstract:
Drilling tool (6) for dental implant surgery. This tool (6) comprises: a drilling head (7); a cylindrical mandrel rigidly connected to the head (7) and coaxial therewith. This mandrel is able to be mounted in a pin in order to effect a rotational coupling of the drilling head (7) to this pin; a mesio distal guide cylinder (18) coaxial with the drilling head (7) this mesio distal guide cylinder (18) having an external diameter (D2) called the mesio distal guide diameter greater than the drilling diameter (D1); a vestibulo lingual guide cylinder (19) coaxial with the drilling head (7) and situated under the mesio distal guide cylinder (18). This vestibulo lingual guide cylinder (19) having an external diameter (D3) called the vestibulo lingual guide diameter smaller than the mesio distal guide diameter (D2).
**Title of the invention:** NODE AND METHOD FOR RADIO MEASUREMENT HANDLING

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**Abstract:**
Example embodiments presented herein are directed towards a first node and corresponding methods therein for obtaining an available radio measurement associated with a wireless device. Example embodiments presented herein are also directed towards a second node and corresponding methods there for providing an available radio measurement associated with the wireless device.

No. of Pages : 32 No. of Claims : 26
**Title of the invention:** SURFACE COATED CUTTING TOOL AND PRODUCTION METHOD THEREFOR

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<td>Name of Applicant</td>
<td>(71)</td>
<td>1) MITSUBISHI MATERIALS CORPORATION</td>
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<tr>
<td>Address of Applicant</td>
<td></td>
<td>Tokyo 1008117 Japan</td>
</tr>
<tr>
<td>Name of Inventor</td>
<td>(72)</td>
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</tr>
<tr>
<td>2) SATO Kenichi</td>
<td></td>
<td>3) YAMAGUCHI Kenji</td>
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**Abstract:**

This surface coated cutting tool comprises a tool base body and a hard coating layer provided on the surface of the tool base body. The hard coating layer includes a composite nitride layer or a composite carbonitride layer indicated by composition formula \((\text{TiAl})(\text{CN})\). The average content ratio \(X\) of the Al and the average content ratio \(Y\) (\(X\) and \(Y\) both being atomic ratios) of C in the composite nitride layer or the composite carbonitride layer fulfil \(0.60 = X = 0.95\) and \(0 = Y = 0.005\). The composite nitride layer or the composite carbonitride layer includes crystal grains having a cubic structure. The Ti and Al composition inside the crystal grains having the cubic structure periodically changes along the normal direction of the surface of the tool base body.

No. of Pages : 66 No. of Claims : 9
A traffic light detection device is provided with an imaging unit (11) that acquires an image by imaging in a direction of travel of a vehicle and a traffic light detection unit (12) that detects a traffic light from the image. The traffic light detection unit (12) sets reference signals (L01 to L03) the number of which is a multiple of three and the phases of which are shifted by a time obtained by dividing the period of alternating current electric power supplied to the traffic light by a multiple of three. The phase of the reference signal (L01) closest to the phase of the alternating current electric power is aligned with the phase of the alternating current electric power. From the image the traffic light detection unit (12) extracts synchronized pixels (53b) of which the brightness changes in synchronism with the reference signal (L01) aligned with the phase of the alternating current electric power and determines that the traffic light is present at the position of the synchronized pixels.
A system and a method for thermocatalytic treatment of material is disclosed. The system has a charging region for the supply of starting material to be treated a preconditioning zone in which preconditioned material is formed from the starting material a pyrolysis zone in which pyrolysed material is formed from the preconditioned material and a separation unit for separation of pyrolysed material obtained. In the preconditioning zone and the pyrolysis zone heating means are provided in each case for heating of the material. Also provided in the pyrolysis zone are recycling means with which the solids content of the pyrolysed material can be recycled directly into the region of the pyrolysis zone facing toward the preconditioning zone.

No. of Pages : 19 No. of Claims : 21
Title of the invention: DOMESTIC APPLIANCE COMPRISING A FUNCTIONAL PART ATTACHED TO A FLAT BASE

Abstract:
The invention relates to a domestic appliance (1) comprising a functional part (8) attached to a flat base (7) by means of a plurality of entropically elastic supporting bodies (10) which functional part (8) has a system axis (9) that is oriented vertically in relation to the base (7) and by means of which functional part (8) vibration can be produced. Each supporting body (10) has an associated body axis (11) oriented parallel to the system axis (9) and rounded cross sections with respect to said body axis and is supported at one end in a concave rounded bearing surface (14) of a rigid counter bearing (13) rigidly connected to the base (7) in such a way that free space (15) extending around the supporting body is left. The domestic appliance (1) is in particular an appliance for caring for laundry items (2) especially a clothes dryer (2).
The invention relates to a piston ring for an internal combustion engine or for a compressor in particular a piston ring comprising an exterior running surface (3) two flanks (5 6) and an interior circumferential surface (7); the running surface (3) has a profiled section with a groove (2) said groove (2) being located between an upper portion (3 ) of the running surface and a lower portion (3) of the running surface in relation to the cross section of the piston ring (1).

No. of Pages : 20 No. of Claims : 19
The invention relates to a method for operating an automation device (18) which comprises a processor (20) for directly executing function modules (10) and an apparatus suitable for use in the method and an apparatus operating in accordance with the method namely a processor (20) and an automation device (18) having such a processor (20) wherein a function module (10) which is selected as a component of an automation solution by means of a development environment (16) is converted into a code block (28) by means of the development environment (16) wherein the code block (28) comprises a type identifier (26) corresponding to the type of the particular function module (10) wherein inputs and outputs (12 14) of the particular function module (10) are mapped to simultaneously usable processor registers (24) in the code block (28) wherein in order to execute the automation solution a plurality of code blocks (28) is processed by the reading in of a particular code block (28) by the processor (20) and subsequent execution of the code block (28) wherein the execution of the code block (28) comprises selecting a function unit (30 34) from a plurality of function units (30 34) comprised by the processor (20) on the basis of the type identifier (26) of the code block (28) and activating the selected function unit (30 34) with the processor registers (24) specified in the code block (28).
A method for fastening a component (190) to a base element (100) in which method there is produced in the base element (100) a blind bore (110) which defines a depth direction (160) and which has a force transmission surface (220) which has a depth T in the depth direction (160) wherein the force transmission surface (220) is of frustoconical form with a cone opening half angle (β) and a mean diameter (d) wherein the blind bore (110) has a conical blind bore base (120) with a cone opening angle (α) and at the edge thereof a bevel (230) which extends in the depth direction (160) to a bevel depth L wherein in the method a fastening element (130) is anchored in the blind bore (110) by way of the force transmission surface (220) and wherein the component (190) is held by the fastening element (130).
A machine or computer translation system and method which translates texts (conveying their meanings) from one natural language to another. The system and method have a modular structure for organizing languages which in combination with a transitory (indirect) method of translation allows for the creation of a multilingual system that is capable of translations in any direction between any of the included languages. Every linguistic module includes a dictionary of words and phrases a list of operational functions and parameters that guide the conversion processes needed to perform a translation from one language to another. The system further utilizes an algorithm designed for a rule based machine translation.

No. of Pages : 46 No. of Claims : 53
The disclosure relates to an explosion suppression system and associated methods which may include a cannon comprising a barrel and a propellant tank a suppressant cartridge configured to be inserted into the barrel and a triggering mechanism positioned between the barrel and propellant tank. The suppressant cartridge may be configured to operatively engage with a propellant source. One or more explosion sensors which may be of different types may be included in a system and an explosion suppression device may be configured to activate when one or more of the sensors indicate an explosion. The disclosure further relates to a lock out mechanism for an explosion suppression system with the lock out mechanism including a mechanical and/or electrical component. In one embodiment an actuator may be positioned between a suppressant agent volume and a propellant agent volume of an explosion suppression system.
An adhesive comprising a solvent free powder of average particle size in the range 20 to 300 preferably 20 to 150 microns is heat activated at a temperature in the range 140°C to 220°C is flowable at a temperature below the heat activation temperature and is dry and non tacky to the touch at ambient temperature the use of a powdered adhesive is particularly useful for bonding of non planar surfaces with complex contours.
A data caching method a cache and a computer system. In the method when an access request does not hit a cache line to be replaced which is required to be determined a cache not only needs to take account of a historical access frequency of the cache line but also needs to take account of a memory type corresponding to the cache line so that the cache line corresponding to the memory type of a DRAM can be replaced preferentially thereby reducing the caching amount of the cache for data stored in the DRAM and therefore the cache can increase the caching amount of data stored in an NVM so that for the access request of the data stored in the NVM corresponding data can be found in the cache as much as possible thereby reducing cases of data being read from the NVM reducing the delay of reading data from the NVM and effectively improving the access efficiency.
## Title of the invention: TRANSPARENT PANEL HAVING A HEATABLE COATING

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### Abstract

Transparent panel (1) according to Figure 1 having an electrically conductive coating (8) which is connected to two collecting electrodes (11) such that by applying a supply voltage a heating current flows via a heating field (12) formed between the collecting electrodes (11) wherein the heating field (12) contains a first coating free zone (14) which is bordered by a zone edge (17) formed by the electrically conductive coating (8) wherein two electrical supply lines (16) run from the collecting electrodes (11) to an additional electrode (15) wherein the electrical supply lines (16) extend by sections in the heating field (12) in a subregion (8) of the electrically conductive coating (8) outside of the heating field (12) in the zones (9) of the edge strip (9) in the region of zones (10) of the coating edge (10) at and/or in the zone edge (17) of a second coating free zone (14) wherein the zone edge being formed by the electrically conductive coating (8) and/or in the first coating free zone (14) and/or at the lateral zone edges (17) of the first coating free zone (14) and/or in edge strip (9) assigned to the coating free zones (14) or (14) additional electrode (15) and electrical supply lines (16) and (16) are connected electrically to one another and/or additional electrode (15) is subdivided into two separate subregions wherein each subregion electrically connects to supply lines (16) and (16) and wherein two coating free lines (21) run along supply lines (16) in heating field (12); a method for the production thereof and its use.

No. of Pages: 34
No. of Claims: 15
**Title of the invention:** IMAGE PROCESSING METHOD AND DEVICE

**Abstract:**
Provided are an image processing method and device, the method comprising: acquiring a two-dimensional target facial image; receiving an identification curve marked by a user in the target facial image; the identification curve being used to indicate the contour of a face in the target facial image; based on the identification curve, positioning the facial contour curve of the face in the target facial image by utilizing an image segmentation technology; determining the three-dimensional attitude and feature point positions of the face in the target facial image; and according to the facial contour curve, constructing a three-dimensional shape of the face in the target facial image by utilizing a preset empirical model of the three-dimensional shape of the face and a target function matching the empirical model of the three-dimensional shape of the face. The method and device reduce the complexity in constructing a three-dimensional shape of the face.

No. of Pages: 43 No. of Claims: 14
Provided in an embodiment of the present invention are a channel status information acquiring method and device. The method comprises: a base station determines a special timeslot in a frequency range used for downlink data transmission according to the use of radio resources; transmitting special timeslot configuration information to a user equipment for configuring the user equipment to transmit an uplink physical signal over the downlink frequency range within the special timeslot; and carrying out channel estimation according to the uplink physical signal after receiving the uplink physical signal transmitted by the user equipment thus acquiring the channel status information. Compared with the technical solution in the prior art that a user equipment acquires the channel status information and then feeds back to the base station the present invention reduces the system overhead caused by acquisition of the channel status information by the base station.
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The present invention relates to the assessment of the risk for development of a cardiovascular disorder. It discloses the use of biochemical markers in the assessment of the risk for development of a cardiovascular disorder. It also relates to the use of the biochemical markers or marker panels for the assessment of the risk for development of a cardiovascular disorder and to kits for performing the methods of the invention.

No. of Pages : 82 No. of Claims : 15
First network node (110) and method (600) therein for providing timing information of at least one other network node (120) operating in DTX mode. The first network node (110) comprises a processor (720) configured for determining timing information for periodically monitoring of said at least one other network node (120) operating in DTX mode based on time frequency characteristics of at least one downlink signal transmitted by said at least one other network node (120) to be monitored. Further the first network node (110) comprises a transmitter (730) configured for transmitting a signal comprising said timing information associated with periodical monitoring of said at least one other network node (120) operating in DTX mode to the at least one mobile station (130). Also a mobile station (130) configured for periodically monitoring the at least one other network node (120) and a method (800) therein is disclosed.
A throttle device (10) for decompressing a coolant cooled by a condenser in a refrigeration cycle and delivering said coolant to an evaporator wherein the valve opening position of a needle valve (4) is controlled according to the condensing pressure. The interior of a cylindrical body case (1) which configures a primary chamber (11) connected to the condenser and a secondary chamber (12) connected to the evaporator is provided with a valve seat member (2) in which a valve port (21) is formed and a cylindrical guide member (3) which is integral with the valve seat member (2). The interior of the guide member (3) is provided with a coil spring (6) for biasing the needle valve (4) to the valve port (21) side. The guide member (3) guides the needle valve (4) along an axial line (L) and adjusts the aperture of the valve port (21). The gap between the guide member (3) and the body case (1) is configured as a body side channel (13) for delivering the coolant from the valve port (21) to the secondary chamber (12). The needle valve (4) rear space inside the guide member (3) is configured as an intermediate pressure chamber (44). An intermediate pressure introduction channel (45) introduces coolant from the valve port (21) into the intermediate pressure chamber (44).
**Title of the invention:** DUAL GLP 1 / GLUCAGON RECEPTOR AGONISTS DERIVED FROM EXENDIN 4

| (51) International classification | :C07K14/435 |
| (31) Priority Document No | :14305502.8 |
| (32) Priority Date | :07/04/2014 |
| (33) Name of priority country | :EPO |
| (86) International Application No | :PCT/EP2015/057417 |
| Filing Date | :02/04/2015 |
| (87) International Publication No | :WO 2015/155140 |
| (61) Patent of Addition to Application Number | :NA |
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| Filing Date | :NA |

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**Abstract:**
The present invention relates to dual GLP 1 / glucagon receptor agonists and their medical use for example in the treatment of disorders of the metabolic syndrome including diabetes and obesity as well as for reduction of excess food intake.

No. of Pages: 62 No. of Claims: 29
Provided is an operation method of a base station in a wireless communication system. The method comprises the steps of:

receiving from a terminal at least one piece of information among channel quality information on a resource area allocated to the terminal and non Gaussian information on a nulling area corresponding to the resource area; and determining a modulation order for the terminal a code rate and a ratio of the resource area to the nulling area on the basis of the channel quality information and the non Gaussian information.
No. of Pages : 39 No. of Claims : 43
The invention relates to an electrically heatable panel (100) with a switch region (10) at least comprising: a transparent substrate (1) with a surface (III) at least one transparent electrically conductive layer (2) which is arranged at least on a part of the surface (III) at least one separating line (4.1) which electrically separates the layer (2) into a heating region (3) and a switch region (10) and at least two collection conductors (5.1 5.2) which are provided for connecting to a voltage source (6) and which are connected to the heating region (3) such that a current path (7) for a heating current is formed between the collection conductors (5.1 5.2) wherein the switch region (10) has at least one contact region (11) a supply region (12) and a connection region (13) and the connection region (13) can be connected to an electronic sensor (14).
The invention relates to vehicle laminated glass for separating a vehicle interior from the external surroundings at least comprising: an inner pane (1) made of glass having a thickness of 0.1 mm - 0.4 mm an outer pane (2) of glass having a thickness of 1.0 mm - 1.8 mm and a thermoplastic intermediate layer (3) which connects the inner pane (1) to the outer pane (2).
The invention relates to a method for manufacturing a spinner bottom (4) for a spinner (1) of a household appliance from a sheet metal element (16) wherein a hollow cylinder (15) made especially of a sheet metal strip (11) is used as a sheet metal element (16) and the sheet metal strip (11) is joined together at the shorter edges (12 13) thereof. The spinner bottom (4) is manufactured by shaping the hollow cylinder (15) or by joining the sheet metal strip (11) that has been shaped into the shape of a spinner bottom.
The present disclosure relates to pharmaceutical compositions of solid dosage form for intraoral administration that provides effective delivery of insulin and insulin analogs via the transmucosal route. Also provided are methods for treating pre diabetes diabetes and metabolic syndrome in a subject in need thereof.

No. of Pages : 64 No. of Claims : 63
**Title of the invention:** ROTATING CUTTING TOOL HAVING POLYCRYSTALLINE DIAMOND SINTERED BODY

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**Abstract:**

This rotating cutting tool having a polycrystalline diamond sintered body has: a PCD layer comprising a PCD sintered body integrally sintered with a starting material and arranged on a wall surface facing the tool rotation direction of a chip discharge groove formed at the tip of the tool main body having an ultra hard alloy as the starting material therefor said tool main body being rotated around an axis; a cutting blade having this wall surface as the rake face thereof formed upon the PCD layer; and a margin formed in the tip outer circumference of the tool main body and extending to the rear of the chip discharge groove in the tool rotation direction. The cutting blade is formed on the side ridges of the rake face on the tip side of the tool main body and the thickness of the PCD layer as viewed from the tool main body tip side in the axial direction is 1/3 1 times the thickness of the margin.

**No. of Pages:** 37 **No. of Claims:** 6
The present invention provides an anti hepatitis C virus E2 protein antibody or antigen binding antibody fragment having infection inhibiting activity against the hepatitis C virus (HCV). The present invention also provides an anti hepatitis C virus E2 protein antibody or antigen binding antibody fragment having a specific variable region having infection inhibiting activity against the hepatitis C virus (HCV) and presenting the ability to suppress the appearance of escape variants.
### Title of the invention: CASTING METHOD AND CASTING DEVICE

#### International classification
- B22D18/04, B22D18/08

#### Priority Document No
- 2014070842

#### Priority Date
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#### Name of priority country
- Japan

#### International Application No
- PCT/JP2015/056353

#### Filing Date
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- NA

#### Filing Date
- NA

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#### Abstract:

After molten metal (M) is raised close to a gate (11) of a cavity (9C) by pressurizing the interior of a holding furnace (5) with gas the pressure in the cavity (9C) is reduced by suction the interior of the holding surface (5) is further pressurized and the molten metal (M) is filled into the cavity (9C). Thereafter minimum necessary suction is performed by stopping the reduction of the pressure in the cavity (9C) after a lapse of a preset filling time and stopping the pressurization of the interior of the holding furnace (5) with the completion of solidification of the molten metal (M) thereby simplifying a pressure reducing means (14) and achieving reduced equipment cost and manufacturing cost and a shortened casting cycle time.

No. of Pages: 16 No. of Claims: 7
(54) Title of the invention: ROTARY DISC FILTER DEVICE

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(72) Name of Inventor:
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(57) Abstract:
A rotary disc filter device includes a rotor rotatable about an axis of rotation. The rotor includes a plurality of disc shaped filter members each disc shaped filter member having a frame. The frame is made of sheet metal elements which are connected with each other by rivets.

No. of Pages: 13  No. of Claims: 15
(54) Title of the invention : ROTARY DISC FILTER DEVICE

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(57) Abstract :
A rotary disc filter device includes a rotor rotatable about an axis of rotation having a plurality of disc shaped filter members. Each disc shaped filter member has two walls extending outwardly form the axis of rotation. At least one of the walls has the form of a frustum.

No. of Pages : 12 No. of Claims : 7
The present invention relates to a method of monitoring a board game comprising: a) tracking movement and position of game pieces on the game board during a game session by at least one camera adapted to monitor the board game; and b) verifying the correctness of said movement according to rules of the played game and/or tournaments by using a processing device adapted to detect moves and other relevant game data from received board game images and to verify them according to game rules as defined by a game engine.

No. of Pages : 17 No. of Claims : 15
An electronic device is provided in a wireless communication system. The device comprises a plurality of antenna sets; a plurality of antenna elements configuring the plurality of antenna sets; an RF transceiver including a plurality of switches for selecting the plurality of antenna elements and a plurality of phase shifters for shifting the phase of a signal transmitted/received through the plurality of antenna elements; and a control unit for determining a beam forming direction and the phase of the signal by simultaneously controlling the plurality of switches and the plurality of phase shifters according to a beambook.
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application: 03/10/2016
(43) Publication Date: 10/03/2017

| (51) International classification: | :C12N 15/13, C07K16/46 |
| (31) Priority Document No: | :61/968437 |
| (32) Priority Date: | :21/03/2014 |
| (33) Name of priority country: | :U.S.A. |
| (86) International Application No Filing Date: | :PCT/US2015/021668 |
| (87) International Publication No Filing Date: | :WO 2015/143271 |
| (61) Patent of Addition to Application Number Filing Date: | :NA |
| (62) Divisional to Application Number Filing Date: | :NA |

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(57) Abstract:
The present invention provides antigen binding polypeptides (e.g., bi-specific antigen binding polypeptides) that specifically bind to a first and a second target antigen with high affinity. The present invention also provides novel antigen binding polypeptides that specifically bind to HER2 and antagonize HER2 activation. The invention also provides nucleic acids encoding the antigen binding polypeptides recombinant expression vectors and host cells for making such antigen binding polypeptides. Methods of using antigen binding polypeptide of the invention to treat disease (e.g., cancer) are also encompassed by the invention.

No. of Pages: 41 No. of Claims: 44
Sowing element for pneumatic precision seed drills comprising a gasket (15) interposed between a stationary surface of a pneumatic manifold (2) and a rotating surface of a disc distributor (4). The gasket (15) comprises a central portion (20) which is partially peripherally surmounted by a sealing sector (24) in which an annular passage (25) opens fastening means (28 29) for the gasket being provided between the central portion (20) of the gasket and the manifold (2) of the sowing element. The central portion (20) comprises a first and a second flange (21 22) which are interconnected in offset planes the first flange (21) being interposed between the second flange (22) and the sealing sector (24) the fastening means (28 29) being provided between the second flange (22) and the manifold (2).
A marking projectile configured to be fired through the barrel of a firearm having rifling formed therein is provided. The marking projectile includes a polymeric base portion configured to engage the rifling of the barrel and a polymeric front shell portion coupled to the base portion. The polymeric front shell portion has a cavity formed therein for housing a marking compound and a structure configured to deform on impact and thereby release the marking compound. The marking projectile includes a metallic annular sealing component (e.g. a crimped metal ring) configured to seal the polymeric front shell portion to the polymeric base portion.
The invention relates to a urea preparation containing (A) 5 to 75 wt.% of one or more urea components which have a molecular weight of at least 350 g/mol and contain at least one urea group; (B) 15 to 95 wt.% preferably 30 to 80 wt.% of one or more organic solvents from the group of N alkyl amides that have a molecular weight of 155 to 700 g/mol are free of urea groups and have the following formula (I) in which (a) R is an x containing hydrocarbon group where x = 1 to 24 carbon atoms R is a y containing organic group where y = 1 to 12 carbon atoms and R is a z containing organic group where z = 1 to 12 carbon atoms or (b) R and R are defined as in (a) but R and R are connected to each other by a chemical bond and together form a ring with 4 to 10 ring atoms while incorporating the group C(=O)N and in the case of a ring with 4 or 5 ring atoms R contains at least 6 carbon atoms and maximally 11 carbon atoms or (c) R and R are defined as in (a) but R and R are connected to each other by a chemical bond and together form a ring with 4 to 10 ring atoms while incorporating the nitrogen atom of the general formula (I) with the proviso that for each of (a) (b) and (c) x+y+z =8; (C) 0 to 35 wt.% of one or more organic solvents which differ from (B) and do not contain urea groups or ionic groups and which have maximally two heteroatoms selected from the group consisting of nitrogen and oxygen; and (D) 0 to 50 wt.% of a salt which differs from the urea component(s) (A) the solvent(s) (B) and the solvent(s) (C) wherein the sum of all of the stated weight percentages equals the total weight of the urea preparation. The invention further relates to the use of the urea preparation as a rheology additive for liquid compositions and to liquid media which contain the urea preparations.
The invention relates to a filling adapter for a container (2) to be filled with media (for example oils, gases, cooling agents, and the like) in particular for an initial filling of a container with operating substances on assembly lines for the production of motor vehicles wherein the filling adapter is equipped with a hose packet (1) electrical, pneumatic, and hydraulic lines. The problem addressed by the invention is that of structurally altering a coaxial valve such that if used in such a filling adapter better fluidic properties are achieved. Another problem addressed at the same time is that of reducing the overall size, production costs, and the weight of the component. These problems are solved in that the filling adapter is equipped with a coaxial valve in the region of the adapter head (3) of the filling adapter which coaxial valve starting from the inlet cross section is initially provided with a flow contour extending parallel to the longitudinal axis of the valve which in the further flow course transitions into a flow contour extending at a right angle to the longitudinal axis of the valve to the outlet cross section.
An apparatus is configured to perform a method for user equipment (UE) offloading. The method includes receiving at a network controller a measurement report from a UE the measurement report radio link measurement quantities of at least one of: a serving cell and one or more candidate serving cells the measurement quantities measured after interference cancellation or suppression. The method also includes based in part on the measurement report from the UE determining whether to offload the UE to a second cell among the one or more candidate serving cells.
The present invention relates to a succinate prodrug for use in the treatment or prevention of lactic acidosis.

No. of Pages : 94 No. of Claims : 29
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application : 27/09/2016
(21) Application No. 201637033013 A
(43) Publication Date : 10/03/2017

(54) Title of the invention : DUAL STAGE CURED ACRYLIC COMPOSITIONS AND RELATED METHODS

(51) International classification : C09D4/06, C09D11/101
(31) Priority Document No : 61/968425
(32) Priority Date : 21/03/2014
(33) Name of priority country : U.S.A.
(54) Title of the invention : DUAL STAGE CURED ACRYLIC COMPOSITIONS AND RELATED METHODS
(86) International Application No : PCT/US2015/021696
Filing Date : 20/03/2015
(87) International Publication No : WO 2015/143290
(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 :
Various methods involving a sequential dual stage cure are described. The methods utilize a first stage UV cure which is sequentially followed by a second stage electron beam cure. An array of compositions are also described many of which are acrylate based.

No. of Pages : 16 No. of Claims : 24
The present invention relates to the field of communications. Provided are a configuration method network device and user equipment (UE) for accurately configuring various types of wireless bearers and MAC entities the method comprising: a network device determines a configuration type generates a first message according to the configuration type and transmits the first message to the UE. An embodiment of the method is used for configuring wireless bearers.
Methods of synthesizing a DOPA melanin (DM) polymer are disclosed as well as compositions comprising the DM polymer and uses thereof. The method comprises contacting a reactant such as 3 4 dihydroxyphenylalanine (DOPA) with a high concentration aqueous salt solution under oxidative conditions. The resulting DM polymer may form as insoluble particles or as a coating on a substrate surface. Exemplary uses for the DM polymers include removing heavy metal ions from contaminated solutions or capturing and delivering cationic drugs such as gentamicin.
Radial damping device for damping the oscillations of an oscillating unit of a washing machine (3) comprising a lever arm (1) with a coupling body (1a) having an internal passage (1b) and being rotationally insertable on a support shaft (2a) fixable to a portion of a washing machine (3) and a frictional damping element (4) made of an elastically flexible material which is inserted into the internal passage (1b) so that when the coupling body (1a) is inserted into the support shaft (2a) a frictional resistance opposes the rotation of the lever arm (1) on the support shaft (2a) the radial damping device further comprises retention elements (5 6 7 8 9 10) axially provided on the frictional damping element (4) and on the coupling body (1a) which are associated with each other as a unit so as to retain the frictional damping element (4) axially within the internal passage (1b).
This information presentation device (1) is used in an automatic travelling vehicle capable of being switched between automatic driving control and manual driving control wherein the information presentation device determines a response action for confirming that the driver is capable of taking over from automatic driving control to manual driving control performs a control for causing the driver to perform the determined response action and detects the response action performed by the driver.

No. of Pages : 35 No. of Claims : 20
The invention relates to a panel (100) with an illuminated switching surface (3) and a heating function comprising at least: a transparent substrate (1); a heated region (4) which is connected to at least two busbars (5.1 5.2) provided for connection to a voltage source (6) such that a current path (7) for a heating current is formed between the busbars (5.1 5.2); an electrically conductive structure (2) which forms a switching surface (3) and can be connected to sensor electronics; and an illumination means (8) which can mark the switching surface (3).
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3) MA Jianglei

(57) Abstract:
Various disclosed embodiments include methods and systems for communication in a wireless communication system. A method comprises receiving a signal corresponding to a plurality of modulated signals each of the plurality of modulated signals corresponding to a unique electronic device. The method comprises filtering the received signal with a plurality of filters each of which is matched to a corresponding filter in a respective electronic device to obtain a filtered signal for the respective electronic device. The method comprises performing a fast Fourier transform (FFT) operation on the filtered signal to obtain demodulated data corresponding to the respective electronic device.

No. of Pages : 18 No. of Claims : 33
A respirator mask or other sealing interface can be used in combination with a nasal cannula or other unsealing interface in providing respiratory therapies for the treatment of COPD or OSA. The mask can act as a pressure vessel over the top of a nasal cannula with the intention of increasing expiratory pressure whilst allowing the nasal cannula to provide a user with breathing gases of a high humidity and temperature. The ability to selectively apply increased expiratory pressure may be effective in reducing a user's breathing rate and thus beneficial in the treatment of respiratory distress.

No. of Pages: 25  No. of Claims: 24
**Title of the invention:** WIND TURBINE DRIVE TRAIN

| (51) International classification | F03D11/00, F03D9/00, F16C19/54 |
| (31) Priority Document No | NA |
| (32) Priority Date | NA |
| (33) Name of priority country | NA |
| (86) International Application No | PCT/ES2014/000037 |
| Filing Date | 04/03/2014 |
| (87) International Publication No | WO 2015/132420 |
| (61) Patent of Addition to Application Number | NA |
| Filing Date | NA |
| (62) Divisional to Application Number | NA |
| Filing Date | NA |

**Abstract:**

Wind turbine drive train with a nacelle (3) as much compact as possible in a tower (2) with a big diameter which allows to embed the generator (6) inside and reduce the loads in the supports (10) of the yaw system and in the tower (2). The mainframe (5) of the nacelle (3) has a triangular shape based on structural frames or ribs taking profit of the big reaction arm with the most compact solution. The generator (6) is integrated in this mainframe (5) and partially crosses the connection piece (4) of the tower (2). The yaw system is made by individual supports in a continuous raceway and the traction elements provokes the rotation of the nacelle (3) around the tower (2) without the need of the usual geared pinion zip systems using pneumatic wheels (20) which roll by the raceway made by the rotation ring (9) with inverted T shape with one or two circular sections on the top of its profile.

No. of Pages: 8  No. of Claims: 7
**Title of the invention**: METHOD AND SYSTEM FOR SEAMLESS SCTP SERVER FAILOVER BETWEEN SCTP SERVERS RUNNING ON DIFFERENT MACHINES

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**Abstract**: A Stream Control Transmission Protocol (SCTP) cluster of multiple SCTP servers is defined such that some servers are assigned Active Role where others are assigned Standby Role ensuring uninterrupted SCTP connections between the SCTP cluster and SCTP clients. The Standby Servers use the same Internet Protocol (IP) address(es) on the SCTP bound interfaces as their assigned Active Server. The Active Servers are communicating to the SCTP clients where the Standby Servers are communicating to their assigned Active SCTP Server using a separate backchannel TCP connection. The Standby Server receives regular updates over the backchannel connection from the Active Server. These updates ensure that the Standby Server could locally simulate SCTP negotiations and create SCTP associations as if the SCTP negotiations. The Standby Servers are synchronized and ready in case of an Active Server failure to continue SCTP communications. This handover does not involve any subsequent action from the SCTP clients so that the SCTP clients are unaware a handover occurred.

No. of Pages : 17 No. of Claims : 20
Embodiments of the present invention are applied in the field of communication technologies. Disclosed are a packet forwarding method, system, and apparatus. A communication device computes a remainder for a determined total number of links by using a hash value of a data packet, the total number of links being 2 raised to an integer power and capable of comprising a sum of the added number of virtual links and the number of actual links for forwarding data packets; if a remainder value of the total number of links computed by using the hash value corresponds to a virtual link, computes another hash value of the data packet and executes a remainder computing step based on the another hash value; operates cyclically until the remainder value of the total number of links computed by using a hash value corresponding to the data packet corresponds to an actual link and forwards the data packet on the actual link; if the remainder value of the total number of links computed by using a hash value corresponds to a virtual link directly computes a remainder of the total number of actual links by using the hash value of the data packet and forwards the data packet on the actual link corresponding to the remainder value. Data packets are allocated to actual links as evenly as possible thereby reducing an impact on a service.
Embodiments of the disclosure provide a backlight module using MJT LEDs and a backlight unit including the same. More specifically, embodiments of the disclosure provide a backlight module which includes MJT LEDs configured to increase an effective light emitting area of each of light emitting cells and optical members capable of uniformly dispersing light emitted from the MJT LEDs. In addition, embodiments of the disclosure provide a backlight unit using the backlight module thereby reducing the number of LEDs constituting the backlight unit while allowing operation at low current.
CONTROL SYSTEM FOR A HYDRAULIC WORK MACHINE

The invention relates to a control system for a hydraulic work machine (10) comprising a plurality of hydraulic work circuits (12) for supplying actuators and/or drive units of movable machine parts with hydraulic fluid and an emergency stop circuit (24) for the work circuits (12) for avoiding danger caused by the machine parts. According to the invention the emergency stop circuit (24) comprises a single safety valve (26) which is connected in parallel to the work circuits (12) via at least one branch line (52) each at the inlet and to a pressure relief point (54) at the outlet.
### Title of the invention: **FILLING ADAPTER (CLAW ANGLE ADJUSTMENT)**

- **Priority Document No:** 10 2014 004 823.3
- **Priority Date:** 29/03/2014
- **Name of priority country:** Germany
- **International Application No:** PCT/DE2015/000136
  - **Filing Date:** 18/03/2015
- **International Publication No:** WO 2015/149736
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- **Name of Inventor:**
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  - 2) Selbmann Eric
  - 3) Wieland Frank

### Abstract:
The invention relates to a filling adapter for a container to be filled with media in particular for the initial filling of containers with operating substances on assembly lines for the production of motor vehicles wherein the filling adapter is equipped with a hose packet electrical, pneumatic and hydraulic lines. The problem addressed by the invention is that of configuring the attachment of the claws to the tensioning drive such that the attachment of the claws can be adjusted to different angular positions wherein in particular one adjustment in small steps is desired. This problem is solved in that the filling adapter is equipped with a clamping drive housing having a stationary part (1) and a receiving part (3) for clamping claws (2) wherein the receiving part (3) can be brought into operative connection with a union nut (4) such that after loosening the union nut (4) the position of the clamping claws (2) can be rotationally adjusted such that the filling adapter can be rotated with respect to the container to be filled and wherein in the clamping drive housing a toothing (6) is formed with which the receiving part (3) for the clamping claws (2) engages by way of a locking pin (7).

No. of Pages: 3  No. of Claims: 1
Disclosed is a cone crusher comprising a crusher cone that is retained on a driven eccentric bush that rotates about a journal (7) while being radially guided. The journal (7) is securely clamped in a journal holder (11) located in the lower housing part (8) and has a cylindrical upper supporting section (15) which is clamped by means of an upper mechanical clamping device (14.1) in a bore forming the journal holder (11).
The invention relates to a filling adapter for a container to be filled with media (for example oils, gases, coolants and the like) in particular for a first filling of containers with fuels at assembly lines for the production of motor vehicles wherein the filling adapter has a hose set and electric, pneumatic and hydraulic lines. The problem addressed by the invention is that of creating a technical solution in this regard by means of which a gripping element can be disposed on the main body of the filling adapter in a relative position which position can be varied as required so as to enable a largely optimal handling for the worker while observing the respective specific possibilities for space and access to the container to be filled. This problem is solved in that an interface (2) is configured for coupling of a gripping element (3) designed as a separate assembly on the filling adapter in the region of the adapter head (1) wherein the interface (2) has mechanical (2a) and electrical (2b) connecting elements which are disposed in a common plane and can be coupled to mechanical and electrical connecting elements of the gripping element (3) which are congruent therewith.

No. of Pages: 4  No. of Claims: 3
The present invention relates to the field of mobile communications. Provided in an embodiment of the present invention are an IP address allocation device system and method comprising: a mobility management network element receives a connection establishment request of a terminal and transmits the connection establishment request to a packet data gateway; and the packet data gateway allocates an IP address for the terminal according to a corresponding relationship between the user position information carried in the connection establishment request and an IP address pool. The present invention solves the problem in the background art that an Internet operator cannot identify other characteristics of a UE according to the IP address of the UE randomly allocated by a packet data gateway and enables the packet data gateway to allocate different IP addresses for terminals in different locations.
| (51) International classification | :C07D231/14, A61K31/415 |
| (31) Priority Document No | :61/949808 |
| (32) Priority Date | :07/03/2014 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2015/019535 |
| Filing Date | :09/03/2015 |
| (87) International Publication No | :WO 2015/134998 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

| (54) Title of the invention | HUMAN PLASMA KALLIKREIN INHIBITORS |
| (57) Abstract | Disclosed are compounds of formula (I) as described herein and pharmaceutically acceptable salts thereof. The compounds are inhibitors of plasma kallikrein. Also provided are pharmaceutical compositions comprising at least one compound of the invention and methods involving use of the compounds and compositions of the invention in the treatment and prevention of diseases and conditions characterized by unwanted plasma kallikrein activity. |

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| 6) ZHANG Weihe |

No. of Pages : 859 No. of Claims : 146
**Title of the invention**: ASSEMBLY BLOCK WITH SERVOMOTOR AND ASSEMBLY BLOCK KIT

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<td>UNO Yasumasa</td>
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**Abstract**: Provided are an assembly block with a servomotor and an assembly block kit that make it possible to assemble various products without the need for special parts to be used mainly in a drive shaft. This assembly block (100A) with a servomotor has: a block main body (1) that includes a connection means comprising a projection (17) or a recess; a servomotor (2); and a rotating shaft (3) that is driven to rotate by the servomotor (2). The assembly block can be coupled to another assembly block by engaging the connection means with a connection means of the other assembly block. The assembly block (100A) with a servomotor also has a rotating block (4) that comprises a polyhedron that has a connection means comprising a recess or a projection on a surface thereof and that rotates by being fixed to one end of the rotating shaft (3). This assembly block kit has the assembly block (100A) with a servomotor and a basic block that can be connected to the assembly block (100A).
The present invention is a process for producing a 1 arylimino 2 vinylcyclopropanecarboxylic acid derivative represented by formula (2) in a yield close to that attained with lithium t-butoxide preferably in a yield higher than that attained with lithium t-butoxide without causing any trouble in industrial scale production. The process comprises reacting an N-(arylmethylene)glycine ester represented by formula (1) with (E)-1,4-dibromo-2-butene using sodium ethoxide. The present invention further involves a process for producing a (1R,2S)-1 arylimino 2 vinylcyclopropanecarboxylic acid derivative represented by formula (4) by reacting an N-(arylmethylene)glycine ester represented by formula (1) with (E)-1,4-dibromo-2-butene using sodium ethoxide in the presence of an optically active catalyst.
The purpose of the present invention is to obtain a preferable magnet torque while preventing a generated reluctance torque from lowering. A rotor core (31) has a plurality of magnet slots (32) and an air gap (34) formed therein said magnet slots (32) being arranged in a circumferential direction said air gap (34) consisting of a base hole (35) and a protruding hole (36). The base hole (35) extends toward the outer circumferential side of the rotor core (31) from the circumferential direction both ends of the magnet slots (32). In an axial direction view the protruding hole (36) protrudes toward the circumferential direction of the rotor core (31) from at least one of the facing peripheral portions (35a, 35a) of the base holes (35) located at both ends of one magnet slot (32) and is positioned closer to the magnet slot (32) side than the outer circumferential side end (35b) of the base hole (35).
The invention relates to a filling adapter for a container to be filled with media (for example oils, gases, coolants, and the like) in particular for a first filling of containers with fuels at assembly lines for the production of motor vehicles wherein the filling adapter is equipped with a hose set and electric pneumatic and hydraulic lines. The problem addressed by the invention is that of creating a technical solution by which the necessity for maintenance of such a filling adapter is detected and reported promptly independently of the care and expertise of the maintenance (customer). This problem is solved in that an electronic assembly (ID chip 6) for a maintenance check is integrated in the adapter head (1) of the filling adapter which assembly detects the number of use cycles of the filling adapter and compares said number with parameters which can be set in advance in such a way that when said parameters are approached at least one prior warning is triggered and when said parameters are reached an associated controller is informed about the maintenance which is now due.

No. of Pages: 3  No. of Claims: 3
A patent application titled "Imaging System for Granular Material with Homogeneous Background" is described. The application includes an imaging system comprising at least one camera, a background element, and a pair of mirrors. The mirrors are arranged such that their surfaces are angled from each other by an angle $\alpha$. The camera is directed towards the mirror pair, and the background element is formed as a cylinder portion with the cylinder axis deviating from the main axis. The mirrors are arranged with a respective mirror surface edge to edge with each other.

**Abstract:**
An imaging system (100) comprising at least one camera (3), a background element (4), and a pair of mirrors (2a, 2b) where the mirror surfaces of the mirrors in the pair are angled from each other at an angle $\alpha$. The imaging system (100) is intended to receive a sample along a main axis extending between the mirrors. The camera (3) is directed towards the mirror pair (2a, 2b), and the background element (4) comprises a surface directed towards the mirror pair where the background element (4) is formed as a cylinder portion with a cylinder axis deviating from the main axis and the mirrors are arranged with a respective mirror surface edge to edge with each other.

**No. of Pages:** 12  **No. of Claims:** 7
Title of the invention: COOLING PLATES FOR FUEL CELLS

Abstract:
A separator plate in an air cooled fuel cell comprises a series of airflow channels each channel extending longitudinally between first and second opposing edges of the separator plate. Each channel has a cross sectional profile defining an airflow cross section at points along the length of the channel and at least selected ones of the channels each have a thermally conductive structure extending into the channel cross section at selected intermediate longitudinal positions of the channel. The positions are disposed over an active area of the fuel cell to locally enhance heat transfer from the active area via the plate to airflow moving through the channel.

No. of Pages: 16 No. of Claims: 16
(54) Title of the invention: MBMS BEARER FAULT MANAGEMENT

(51) International classification: H04L12/26, H04W24/04
(31) Priority Document No: 61/951472
(32) Priority Date: 11/03/2014
(33) Name of priority country: U.S.A.
(86) International Application No: PCT/IB2015/051780
  Filing Date: 11/03/2015
(87) International Publication No: WO 2015/136466
(61) Patent of Addition to Application Number: NA
  Filing Date: NA
(62) Divisional to Application Number: NA
  Filing Date: NA

(57) Abstract:
Systems and methods are provided for managing faults at the tail end of the user plane associated with an MBMS bearer. A fault detection time interval associated with the MBMS bearer can be defined and monitored. A fault can be detected in response to determining that the defined time interval has elapsed without receipt of a synchronization packet. Mechanisms for detecting, indicating, localizing, and repairing MBMS bearer faults are described.

No. of Pages: 26 No. of Claims: 29
Title of the invention: NEW ADMINISTRATION ROUTES OF INSULIN INSULIN ANALOGS OR DERIVATIVES OF INSULIN

Abstract:
An insulin insulin analog or derivative of insulin for use in the treatment of diabetes. The use comprises new administration routes of insulin analogs.

No. of Pages: 23  No. of Claims: 15
The invention relates to a system for assembling a wind turbine without using cranes which has lifting systems (8) arranged peripherally to the tower (3) with a lifting platform (11) a base (10) and an internal lifting mechanism. The lifting platform (11) engages with different coupling tools (16, 18 and 2x) that can be supported on an auxiliary column (15) and thereby raise or lower the consecutive modules of the tower (3). The assembly method consists of: preparing the foundation (5) on the floor (6) or on the offshore platform installing the basic module (7) arranging the lifting systems (8) peripherally. In the case of an offshore wind turbine the underwater section is assembled and after opening a hole in the platform the lifting system itself will enable said underwater section to be immersed until it reaches the bottom. Once said section is attached the gondola (4) is attached and raised the upper module (14) of the tower is placed in the gap created the lifting platforms (11) are lowered the auxiliary column (15) and the connection flange (16) are installed the gondola (4) is raised with the top module of the tower (14) the module (17) is placed in the gap created the auxiliary column (15) is disconnected and the lifting platforms (11) are lowered the auxiliary column (15) and the connecting piece (18) are installed the gondola (4) is lifted with the module (14) and the module (17). The above process is repeated using the other modules until the end of the assembly.

No. of Pages : 10 No. of Claims : 13
**Title of the invention**: FACELESS LABELS AND RELATED SYSTEMS AND METHODS

| (51) International classification | :C09J7/00 |
| (31) Priority Document No | :61/968565 |
| (32) Priority Date | :21/03/2014 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2015/021703 |
| Filing Date | :20/03/2015 |
| (87) International Publication No | :WO 2015/143296 |
| (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) WU Di

**Abstract**:
Multilayer laminates are described which include one or more layers or regions of printed images or graphics captured under an outer adhesive layer. The laminates include two layers of a release coating applied to opposite faces of a support layer. Also described are systems and methods for applying wound rolls of the multilayer laminates to a collection of articles.

No. of Pages: 25 No. of Claims: 21
A hardware based memory management apparatus and method is provided. The apparatus includes a memory allocation module a memory reclamation module and a memory compaction module based on hardware to accelerate a memory manager of an operating system. The method manages memory using the memory allocation module memory reclamation module and memory compaction module.

No. of Pages : 27 No. of Claims : 20
Title of the invention: METHOD AND CIRCUIT FOR ADJUSTING THE FREQUENCY OF A CLOCK SIGNAL

Abstract:
The invention relates to a method for adjusting an oscillator clock frequency comprising steps consisting in: applying a first control value (S1) to a first oscillator (OSC1); applying a second control value (S2) different from the first control value to a second oscillator (OSC2); measuring a frequency (N1 N2) of each of the first and second oscillators; determining by interpolation a corrected frequency measurement (N2C) of the second oscillator (OSC2) depending on a frequency difference measured between the first and second oscillators subjected to the same third control value and on the control value (S2) applied to the second oscillator; determining by interpolation a new first control value (S1) depending on the measured frequency of the first oscillator on the corrected frequency on the first and second control values and on a desired frequency (NC1); and in applying the new first control value to the first oscillator.

No. of Pages: 21 No. of Claims: 15
# A Method for Controlling Mechanical Lung Ventilation

A method for controlling mechanical lung ventilation is described. The method may include supplying a breathing gas to an airway of a patient in an intermittent way such that a plurality of respiratory cycles are formed; measuring a volume received by the patient in one or more respiratory cycles of the plurality of respiratory cycles; comparing the measured volume of each of the one or more respiratory cycles with a user defined target volume; attributing a classifying score to each of the one or more respiratory cycles based at least partially on a deviation between the measured volume and the user defined target volume; summing the classifying scores and dividing the result by a sample size of the one or more respiratory cycles; attributing a pressure step value based at least partially on the division result; and adding the pressure step value to a present pressure.

**Abstract:**

A method for controlling mechanical lung ventilation is described. The method may include supplying a breathing gas to an airway of a patient in an intermittent way such that a plurality of respiratory cycles are formed; measuring a volume received by the patient in one or more respiratory cycles of the plurality of respiratory cycles; comparing the measured volume of each of the one or more respiratory cycles with a user defined target volume; attributing a classifying score to each of the one or more respiratory cycles based at least partially on a deviation between the measured volume and the user defined target volume; summing the classifying scores and dividing the result by a sample size of the one or more respiratory cycles; attributing a pressure step value based at least partially on the division result; and adding the pressure step value to a present pressure.

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**Priority Document Number:** 14/251509

**Priority Date:** 11/04/2014

**Name of Priority Country:** U.S.A.

**International Application Number:** PCT/US2015/021590

**Filing Date:** 19/03/2015

**International Publication Number:** WO 2015/156979

**Patent of Addition to Application Number:** NA

**Divisional to Application Number:** NA

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**Name of Inventor:**

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2. DE LIMA SANTOS Adriano
3. CALVO LONARDONI José Augusto
4. COUTINHO MELCO Tito

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**No. of Pages:** 24

**No. of Claims:** 20
This fire resistant thermoplastic polyurethane elastomer composition is obtained by adding component (A) component (B) and component (C) to a thermoplastic polyurethane elastomer. (A) is a (Poly)phosphate compound represented by general formula \( (1) \) (B) is a (Poly)phosphate compound represented by general formula \( (3) \) and (C) is silicon dioxide. This fire resistant thermoplastic polyurethane elastomer composition preferably further contains (D) zinc oxide as component (D). \( (1) \) (Refer to the Specification for the definitions of \( N \) \( X \) and \( p \) in the formula.) \( (3) \) (Refer to the Specification for the definitions of \( r \) \( Y \) and \( q \) in the formula.)
A method for controlling mechanical lung ventilation is described. The method may include intermittently switching the airway pressure of the patient from a substantially constant high baseline pressure level to a substantially constant low baseline pressure and vice versa such that the patient is able to breathe spontaneously in both high and low baseline pressure levels; detecting an inspiration effort by the patient inside a trigger time window that immediately precedes a switching event of the intermittently switching the airway pressure; maintaining a baseline pressure at the level in which the inspiration effort was detected so that the patient can complete the inspiration exhalation cycle; and switching the baseline pressure level after a delay time.
Abstract:
The invention relates to a cBN sintered body cutting tool having a sintered body including cBN grains and a binder phase as the tool base body. The sintered body contains at least 40 capacity% but less than 60 capacity% cBN grains, a minimum of 2% by mass of Al, and a maximum within a range that fulfils the relationship Y = 0.1 X + 10 when Y is the Al content ratio (capacity %) and X is the cBN content ratio (% by mass). The binder phase contains at least a Ti-based compound AlO and unavoidable impurities. AlO that has a diameter of 10 100 nm among said AlO is dispersed and generated within the binder phase and at least 30 AlO being generated within a 1 µm × 1 µm cross-sectional area of the binder phase.
**Title of the invention**: TUNNELING GUIDEWIREF

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**Abstract**: medical device tunneling system and a method of using the same to subcutaneously route trocars also commonly referred to as tunnelers or introducers having a cannula stylet and a guidewire stylet inside a patient during a surgical procedure such as a ventriculoperitoneal hydrocephalus shunt implantation from a proximal entry point to a distal end point in order to subcutaneously route and implant a medical device such as shunt tubing in a patient.

No. of Pages : 16 No. of Claims : 20
(51) International classification: C08F2/32, C08F20/00, C08L33/00
(31) Priority Document No: RM2014A000119
(32) Priority Date: 11/03/2014
(33) Name of priority country: Italy
(86) International Application No: PCT/IB2015/051733
  Filing Date: 10/03/2015
(87) International Publication No: WO 2015/136438
(61) Patent of Addition to Application Number: NA
  Filing Date: NA
(62) Divisional to Application Number: NA
  Filing Date: NA

(57) Abstract:
Acrylamide Free The present invention describes the preparation of highly performing polyelectrolytic polymers by using not toxic monomers and the way such new monomers can be advantageously used in the field of several civil and/or industrial applications. The new polyelectrolytic polymers developed herein can be then used both as replacement of the common acrylamide based polymers and in the applications wherein the absence of residual toxic polymerization monomers is requested.

No. of Pages: 48 No. of Claims: 18
Provided is a seal structure for a butterfly valve with which sealing characteristics near a valve vane are improved and an increase in operating torque is prevented by suppressing a force that deforms a resin lining layer during operation when the valve is closed. Said butterfly valve being openable/closable while ensuring sealing characteristics and having a low operating torque even when the resin lining layer is thickened. A lining layer (10) comprising a resin material is provided on a disk (2) surface and on the inner peripheral surface of a body (3) and at least a valve vane portion (20) is sealed by press contact to an inner peripheral seal surface (21) of the body (3) when a stem (5) is rotated. The internal diameter of a sheet liner (11) is configured when the valve is open to be an internal diameter (fd2) that is deformed by the elastic force of a backup rubber (4) so as to be smaller than the external diameter (fD1) of the disk (2) whereas said internal diameter of the sheet liner (11) is configured when the valve is closed to be an internal diameter (fd1) prior to deformation by the elastic force of the backup rubber to a smaller diameter (4) due to a pressing force from the disk (2) said pre deformation internal diameter (fd1) being configured to be the same as the disk external diameter (fD1) or somewhat larger than the disk external diameter.
Title of the invention: CURRENCY OPERATED AUTOMOBILE FLUID DISPENSING AND/OR RECOVERY ASSEMBLIES AND METHODS

Abstract:
The present disclosure provides tire repair assemblies methods for repairing tires standalone currency operated tire repair assemblies tire sealant vending assemblies configured to provide tire sealant via the valve stem of a tire tire valve coupling assemblies that are configured to provide gas and/or sealant to a tire tire valve coupling assemblies and/or methods for providing one or both of gas and/or tire sealant to a tire are provided.

No. of Pages: 22  No. of Claims: 38
**Title of the invention:** METHOD FOR PRODUCING A STEEL COMPONENT WHICH IS SHAPED BY HOT FORMING A STEEL SHEET WHICH HAS A METAL COATING SUCH A STEEL SHEET AND A STEEL COMPONENT PRODUCED FROM SAID STEEL SHEET BY MEANS OF A HOT FORMING PROCESS

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**Abstract:**

The invention relates to a method for producing a three dimensionally shaped steel component from a steel sheet which has a metal coating and which is heated and subsequently shaped into the steel component by means of a hot forming process. The steel sheet used has an Fe Al based alloy as a metal coating. In order to protect the steel sheet or the steel component from scaling an Fe Al based alloy is applied directly onto the steel sheet by means of a galvanic coating process and/or a physical vapor phase deposition wherein the coating produced in this manner contains 30–60 wt.% Fe and optionally 0.1–10 wt.% Mg and/or 0.1–5 wt.% Ti and/or 0.1–10 wt.% Si and/or 0.1–10 wt.% Li and/or 0.1–10 wt.% Ca and the alloy has an Fe Al phase which is stable up to over 900 °C prior to the heating process to be carried out for the hot forming process. The invention further relates to a correspondingly coated steel sheet for producing one or more steel components produced by means of a hot forming process.

No. of Pages: 7 No. of Claims: 12
A method for providing caller information and for encouraging a receiver to answer a call is provided. The method for providing caller information and for encouraging a receiver to answer a call according to an embodiment of the present invention comprises in a method for displaying caller information to a receiver using a caller information database a first step of providing the caller information to the receiver when receiving a call signal; and a second step of updating credit data of the receiver if the receiver responds to the call signal wherein the response includes answering the call checking a text or checking a message; and the caller information includes basic caller information detailed caller information or caller event information.
Title of the invention: MISALIGNMENT MITIGATION IN A ROTATING CONTROL DEVICE

Abstract:
The exemplary embodiments relate to misalignment correction devices and methods for mitigating misalignment of a piece of oilfield equipment in or proximate an RCD. A rounded shoulder appears on a first surface within or proximate the RCD and a socket profile appears on a second surface within or proximate the RCD. The second surface is configured to abut the rounded shoulder. The rounded shoulder is configured to rotate within the socket profile. Further a floating joint may be implemented into or proximate the RCD and combined with the foregoing rotation mitigation features.

No. of Pages: 19  No. of Claims: 32
Title of the invention: ORTHODONTIC APPLIANCE

Abstract:
An orthodontic appliance consisting of a two component bracket assembly and a customized wire where the tooth component of the bracket assembly is semi permanently glued to the tooth surface and the wire component of the bracket assembly is securely attached to the customized wire. The customized wire has a configuration that is derived from characteristics of both the mal aligned and aligned states of the teeth. The series of wire components of the bracket assembly are separated by an inter bracket distance and are specifically oriented along the customized wire to form the customized wire bracket device. When the wire component and the tooth component of the bracket assembly are engaged the alignment of the teeth occurs due to the elastic recoil of the customized wire. The customized wire bracket device is completely detachable and re attachable to the tooth component of the bracket assembly as are the two components of the bracket assembly.

No. of Pages: 20 No. of Claims: 16
**Title of the invention:** A MONITORING DEVICE

| (31) Priority Document No: | :S2014/0072 |
| (32) Priority Date: | :14/03/2014 |
| (33) Name of priority country: | :Ireland |
| (86) International Application No: | :PCT/IE2015/000002 |
| Filing Date: | :13/03/2015 |
| (61) Patent of Addition to Application Number: | :NA |
| Filing Date: | :NA |
| (62) Divisional to Application Number: | :NA |
| Filing Date: | :NA |

**Abstract:**
A smart monitoring device (1) for automatically monitoring the injection of medicines such as insulin which can be retrofitted to a conventional insulin pen in which the device (1) has an optical motion sensor (9) for detecting actuation of the injection pen (2) together with an optional accelerometer sensor (46) medicament temperature (sensor 45) and mounting sensors (40 44) the monitoring device (1) being communicable with external smart devices such as smartphones.

No. of Pages : 24 No. of Claims : 22
**Title of the invention**: SYSTEMS AND METHODS FOR ENHANCING PERFORMANCE OF AUDIO TRANSDUCER BASED ON DETECTION OF TRANSDUCER STATUS

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**Name of Inventor**: 1) KWATRA Nitin 2) MELANSON John L.

**Abstract**: Based on transducer status input signals indicative of whether headphones housing respective transducers are engaged with ears of a listener a processing circuit may determine whether the headphones are engaged with respective ears of the listener. Responsive to determining that at least one of the headphones is not engaged with its respective ear the processing circuit may modify at least one of a first output signal to the first transducer and a second output signal to the second transducer such that at least one of the first output signal and the second output signal is different than such signal would be if the headphones were engaged with their respective ears.

No. of Pages: 17 No. of Claims: 28
Methods and systems for detection of HPV mediated cervical or oropharyneal cancer are provided. The methods include contacting a fluid sample from a patient with multiple antibodies to HPV16 early gene proteins and comparing patterns of HPV16 antibody bound to said early gene proteins with a control associated with cervical or oropharyneal cancer (Fig. 1).

No. of Pages : 17 No. of Claims : 7
Title of the invention: MANUFACTURING METHOD OF SLIDING CAM ASSEMBLY AND ASSEMBLING METHOD OF CAM SHAFT ASSEMBLY INCLUDING SLIDING CAM AND FIXED CAM

Abstract:
Disclosed is a method of manufacturing a sliding cam assembly. In particular, a requirement for wear resistance of a hollow tubular portion in which sliding takes place can be satisfied due to a cam piece being fixed to the hollow tubular portion by diffusion bonding while the sliding cam assembly repeatedly slides along a shaft and each component can be separately machined and combined thus minimizing an amount which is wasted at the time of machining reducing the machining time and rendering a separate heat treatment of a cam piece unnecessary.

No. of Pages: 10  No. of Claims: 7
The invention relates to a method for operating a display apparatus (12) comprising the following steps: capture of image data from at least one part of the head of a user (14) (step 110) ascertainment of at least one parameter which the user (14) can alter by moving at least one part of the head from the image data captured in step a) (step 120) control of a visual representation on a display apparatus (12) on the basis of the ascertained at least one parameter (step 130) wherein the capture in step a) is taken as a basis for ascertaining at least one quality parameter (step 140) and the at least one quality parameter is taken as a basis for varying at least one resolution of at least one part of the visual representation (step 150). Moreover the invention relates to a corresponding computer program product and to a corresponding system for operating a display apparatus.
Title of the invention: LIGHT EMITTING DIODE AND METHOD FOR MANUFACTURING SAME

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<td>Divisional to Application Number</td>
<td>4) KIM Tae Gyun</td>
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Abstract:
The present invention relates to a light emitting diode comprising a plurality of protrusions including zinc oxide and a method for manufacturing the same. The light emitting diode according to the present invention comprises: a substrate; a nitride light emitting structure arranged on the substrate; and a transparent electrode layer arranged on the nitride light emitting structure wherein the transparent electrode layer comprises a plurality of protrusions each of the plurality of projections has a lower region and an upper region and the side surface of the lower region and the side surface of the upper region have different slopes.
A compact mechanical pump is provided. The pump is adjustable between a compact form and an expanded form where the pump can be reduced to a compact form for ease of portability and storage and to the expanded form for use as a pump.

No. of Pages : 43 No. of Claims : 31
Title of the invention: DISC BRAKE PAD FOR A VEHICLE

A vehicle disc brake pad having a backing plate and a friction pad that includes a complex edge profile formed from a plurality of undulations on at least one side edge of the periphery. Each undulation includes a wave crest and a wave trough that extend toward and away from the periphery of the backing plate respectively. The brake pad may provide improved thermal management and wear resistance thereby improving the life span of the brake pad particularly when used with heavier vehicles such as trucks, crossover vehicles, and sports utility vehicles.

No. of Pages: 27 No. of Claims: 18
Title of the invention : METHOD FOR ESTIMATING THE DURATION OF A PERITONEAL DIALYSIS TREATMENT

Abstract:
The present invention relates to a method for estimating the duration of a peritoneal dialysis treatment wherein the estimation of the duration of treatment is carried out on the basis of an ideal duration of treatment and the ideal duration of treatment is increased by one or more delay values said delay values being dependent on one or more device specific and/or patient specific and/or method specific parameters.

No. of Pages : 15 No. of Claims : 15
A method of producing non-conducting exfoliated graphite based gaskets for Polymer Electrolyte Membrane (PEM) fuel cells is disclosed. The method comprises the steps of: selection of exfoliated graphite powder, compacting the graphite powder without any binder to form flexible integrated graphite sheets, cutting the graphite sheets into required shapes to form gaskets, coating the gaskets with a thin layer of polymer based resin to make them non-conducting, treating the gaskets with commercially available insulating varnishes, overlaying the varnished gaskets with poly urethane based insulating tapes and cutting the gaskets into exact shape and size. The gaskets so produced are accommodated in a gap provided round the two electrodes of the fuel cell in such a manner that the reactant gas is not allowed to leak out from the sides of the electrodes.

No. of Pages : 15 No. of Claims : 4
The invention relates to a drive axle assembly for a heavy goods vehicle. The drive axle assembly comprises a hollow hub (2) a wheel body (6) rotatably mounted on the outer circumference of the hollow hub (2) and a planetary gear with a first (10) and a second (20) planetary gear stage each comprising a sun gear (12, 22) a ring gear (18, 28) and a planet carrier (14, 24) with planetary wheels (16, 26) mounted rotatably therein said planetary wheels meshing with both the sun gear (12, 22) and the ring gear (18, 28). The drive axle assembly further comprises a drive shaft (4) axially guided through the hollow hub (2) and the sun gear (22) of the second stage (20) wherein the sun gear (12) of the first stage (10) is non rotatably mounted on the outer end of said drive shaft said end facing away from the vehicle. Thereby the planet carrier (14) of the first stage (10) the ring gear (28) of the second stage (20) and the wheel body (6) are connected to one another to rotate in a rotationally fixed manner. The ring gear (18) of the first stage (10) is connected to the sun gear (22) of the second stage (20) for rotation therewith. The planet carrier (24) of the second stage (20) is connected to the hollow hub (2) for rotation therewith. In addition the drive axle assembly has an annular disk (30) connected to the hollow hub (2) for rotation therewith by means of a screw and pin connection.

No. of Pages: 12 No. of Claims: 7
The invention relates to a control valve device (1) for controlling a sanitary device comprising a valve housing (10) which comprises a vacuum chamber (11) with a first vacuum line connection (12) an intermediate chamber (14) with a second vacuum line connection (15) and an ambient pressure chamber (16) with a ventilation opening and comprising a manually movable valve lifter (20) which seals the vacuum chamber (11) from the intermediate chamber (14) and releases a connection between the intermediate chamber (14) and the ambient pressure chamber (16) in a first position and releases a connection between the vacuum chamber (11) and the intermediate chamber (14) and seals the intermediate chamber from the ambient pressure chamber (17) in a second position. According to the invention a compressed air valve unit which is coupled to the valve lifter (20) is provided with a valve body which blocks a compressed air inlet (60) from a compressed air outlet (84) in the first position of the valve lifter (20) and which releases a connection between the compressed air inlet (83) and the compressed air outlet (84) in the second position of the valve lifter (20).
An electronic device includes: a first display functionally connected to the electronic device; a second display functionally connected to the electronic device; and a display control module configured to select at least one object in correspondence to a first input event relating to the first display and perform a function relating to the at least one object through at least one display of the first display and the second display on the basis of a second input event.

No. of Pages : 82  No. of Claims : 15
An apparatus and a method for a waveguide polarizer comprising a series of bends are suitable for using in optical waveguide devices or circuits where a polarized light is required such as for single polarization output. The polarizer design is independent of the function of the optical devices. An optical polarizer comprises an optical waveguide configured to propagate light at a designated polarization mode and comprising a bend in a same plane of the propagated light. The bend has a geometry configured to contain in the optical waveguide the designated polarization mode of the propagated light and radiate outside the optical waveguide a second polarization mode of the propagated light.
Provided are a reference signal detection method a receiving method a user equipment and a base station. The user equipment comprises: a determination unit used for determining configuration information about a reference signal the configuration information comprising information about a first candidate time frequency resource and a second candidate time frequency resource wherein the first candidate time frequency resource comprises a first partial time frequency resource and a second partial time frequency resource the first partial time frequency resource being a first partial resource in a first silent time frequency resource and the second partial time frequency resource being a second partial resource in a second silent time frequency resource; and the second candidate time frequency resource comprises a third partial time frequency resource and a fourth partial time frequency resource the third partial time frequency resource being a third partial resource in the first silent time frequency resource and the fourth partial time frequency resource being a fourth partial resource in the second silent time frequency resource wherein the first partial resource the second partial resource the third partial resource and the fourth partial resource are not overlapped with one another; and a detection unit used for detecting the reference signal according to the configuration information. The embodiments of the present invention can increase the cell discovery and measurement performance.

No. of Pages : 65 No. of Claims : 30
Title of the invention: FAULT HANDLING METHOD DEVICE AND SYSTEM BASED ON NETWORK FUNCTION VIRTUALIZATION

Abstract:
Disclosed are a fault handling method device and system based on network function virtualization. A second functional entity sends a fault correlation analysis request of a virtual web service to a first functional entity so that according to a VNF identification and an NFVI identification included in the fault correlation analysis request when detecting that there is a fault in a VNF and an NFVI corresponding to the VNF identification the first functional entity sends fault information about the VNF and fault information about the NFVI to the second functional entity; the second functional entity performs fault correlation analysis on the virtual web service and the VNF and the NFVI according to the fault information about the VNF and the fault information about the NFVI. By shortening the time for processing the fault correlation of the virtual web service the VNF and the NFVI the efficiency of fault handling is improved.

No. of Pages: 22 No. of Claims: 12
Abstract:

Provided herein is a method of making a concentrated solution of (S) 1 (3 (((4 amino 2 2 dioxido 1 benzo[c][1 2 6]thiadiazin 5 yl)oxy)methyl)piperidin 1 yl) 3 methylbutan 1 one or a salt or solvate thereof comprising adding to an aqueous solution: a) a food grade polymer that is soluble in water at or above 0.1% by weight at 20 °C to the aqueous solution; b) a sweetener; and c) (S) 1 (3 (((4 amino 2 2 dioxido 1 benzo[c][1 2 6]thiadiazin 5 yl)oxy)methyl)piperidin 1 yl) 3 methylbutan 1 one wherein the concentration of (S) 1 (3 (((4 amino 2 2 dioxido 1 benzo[c][1 2 6]thiadiazin 5 yl)oxy)methyl)piperidin 1 yl) 3 methylbutan 1 one or a salt or solvate thereof is greater than or equal to 1 ppm by weight of the total weight of the solution at 3 °C when the pH is less than or equal to 4 or it is greater than or equal to 7 ppm by weight of the total weight of the solution at 25 °C when the pH is less than or equal to 4. Further provided herein are solutions and beverages prepared by the methods.
(54) **Title of the invention:** COMPOSITIONS AND METHODS TO INCREASE PRODUCTION

| (51) International classification | :A61K39/12,A61K39/145 |
| (31) Priority Document No          | :14165334.5           |
| (32) Priority Date                | :18/04/2014           |
| (33) Name of priority country     | :EPO                 |
| (86) International Application No | :PCT/EP2015/058533    |
| Filing Date                       | :20/04/2015           |
| (87) International Publication No | :WO 2015/158927       |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date                       | :NA                  |
| (62) Divisional to Application Number | :NA |
| Filing Date                       | :NA                  |

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<td>6) SUPHAPHIPHAT Pirada</td>
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(57) **Abstract:**

Disclosed herein are methods for increasing protein yield and cellular productivity. Chemical agents facilitate host cell production of biological molecules to increase product yield.

No. of Pages: 58 No. of Claims: 15
**Title of the invention:** APTAMER FOR FGF2 AND USE THEREOF

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**Priority Document No:** 2014060966

**Priority Date:** 24/03/2014

**Name of priority country:** Japan

**International Application No:** PCT/JP2015/058992

**Filing Date:** 24/03/2015

**International Publication No:** WO 2015/147017

**Patent of Addition to Application Number:** NA

**Filing Date:** NA

**Divisional to Application Number:** NA

**Filing Date:** NA

**Abstract:**

The present invention provides for example the following: an aptamer having inhibitory activity on FGF2; a complex that includes an aptamer having bonding activity with and inhibitory activity on FGF2 and a functional substance (for example an affinity substance, a labeling substance, an enzyme, a drug delivery medium or a drug); and a medicine, a diagnostic drug and a labeling agent that include an aptamer having bonding activity with and inhibitory activity on FGF2 or a complex which includes the aptamer and a functional substance.

No. of Pages : 59  No. of Claims : 16
The invention relates to a lead screw drive (10) and a spindle nut (12) for converting a rotational movement into a longitudinal movement or vice versa wherein the internal thread (20) of the spindle nut and the external thread (30) of the spindle are of asymmetrical configuration with respect to one another. At least the internal thread (20) of the spindle nut or the entire spindle nut (12) is manufactured from plastic. The external thread (30) of the spindle has a higher strength. It is provided according to the invention that the internal thread (20) of the spindle nut (12) has a thread cross section in which that profile section face (S1) of the thread spiral (21) which is intended for engagement into the thread (32) of the spindle (11) is greater in particular is greater by a factor of at least 1.2 than the free thread section face (S2) of the thread (22) of the spindle nut (12).

No. of Pages : 10  No. of Claims : 20
The invention relates to a composite glass pane (100) at least comprising a first glass pane (1) a second glass pane (2) an intermediate layer (5) which is arranged between the two panes and which comprises at least one cover layer (3 4) based on at least one thermoplastic polymer and a border seal (8). The first glass pane (1) is arranged with an offset B relative to the second glass pane (2); the intermediate layer (5) is cut back by a border distance A along at least one edge (a b) of the composite glass pane (100); the border seal (8) is arranged in a border gap (6) which is delimited by the first glass pane (1) the second glass pane (2) and the intermediate layer (5); and the border seal (8) contains a polymer which can be melted together with the polymer of the cover layers (3 4).
The invention concerns a handpiece for injecting vapour into an animal or human vessel in order to heat said vessel. The handpiece comprises means for generating vapour from a liquid such as water or physiological liquid and a connection member (8) for connection to a catheter (2) or a needle to be inserted into the vessel in order to inject the steam into same. The means for generating vapour comprise a heating reservoir (6, 7) intended to contain the liquid and is provided with electrical heating means for heating the liquid in order to vaporise same and produce a flow of vapour diffusing continuously via the connection member (8).
**Title of the invention:** FREELY ASSEMBLABLE TOY TRACK

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**Abstract:**
A freely assemblable toy track comprising a plurality of rails and connecting pieces wherein each rail has an independent left and right rail track (1) the connecting pieces being frame shaped pieces (2) connecting pieces for connecting the ends of each rail track being arranged at the relative position on the inside frame edge of the frame shaped pieces (2) and the two ends of the left and right rail tracks (1) being connected to the connecting pieces of two frame shaped pieces (2) to form track bodies having track surfaces with exposed middle parts; the left and right wheels of toy vehicles are positioned exactly on the left and right rail tracks (1) such that toy vehicles can run along the tracks and on the basis of the width of the toy vehicle frame shaped pieces (2) of corresponding width can be selected to connect to the rail tracks (1) thus broadening the width of the tracks and effectively improving the range of applicability of the toy tracks.

No. of Pages : 10 No. of Claims : 10
A genus of arylsulfonamide derivatives of aminocycloalkanols is disclosed. The compounds are of the following genus (I): The compounds induce FOXO1 transcription factor translocation to the nucleus by modulating PP2A and as a consequence exhibit anti proliferative effects. They are useful in the treatment of a variety of disorders including as a monotherapy in cancer treatment or used in combination with other drugs to restore sensitivity to chemotherapy where resistance has developed.
Title of the invention: FLUID RESISTANT ELECTRONIC DEVICES

Abstract:
In one aspect coated electronic devices are described herein. A coated electronic device comprises interior and exterior surfaces having a coating adhered thereto the coating comprising a sufficient amount of fluoropolymer to maintain electronic functionality of the device subsequent to immersion of the device in water or oil for an immersion time period exceeding 1 hour. In some embodiments immersion time of the electronic device in water or oil exceeds 3 hours 12 hours or 24 hours wherein electronic functionality of the device is maintained by the fluoropolymer coating.

No. of Pages: 14 No. of Claims: 23
A method and an alignment system which auto levels and/or auto centers a loading platform (104) to load and unload a wheeled stretcher (106) to and from an emergency transport vehicle (100) are disclosed. A controller (114) of the alignment system receives a command to extend the loading platform from the emergency vehicle and extends the loading platform under power from the emergency transport vehicle. The controller recognizes an approaching wheeled stretcher and aligns automatically the loading platform with a leading edge of the approaching wheeled stretcher to compensate automatically for any alignment issues between the loading platform and loading wheels (130) of the wheeled stretcher.
| (12) PATENT APPLICATION PUBLICATION | (21) Application No.201637033230 A |
| (19) INDIA | |
| (22) Date of filing of Application : 29/09/2016 | (43) Publication Date : 10/03/2017 |

(54) Title of the invention: REDUCTION AGENT DOSING SYSTEM WITH DAMPED REDUCTION AGENT FEED

| (51) International classification : | F01N3/20 |
| (31) Priority Document No : | 10 2014 010 948.8 |
| (32) Priority Date : | 28/07/2014 |
| (33) Name of priority country : | Germany |
| (85) International Application No : | PCT/EP2015/001028 |
| Filing Date : | 20/05/2015 |
| (87) International Publication No : | WO 2016/015792 |

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

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

| (57) Abstract : |
The invention relates to a reduction agent dosing system (10) for the injection of a reduction agent into the exhaust gas flow of an internal combustion engine for selective catalytic reduction having a feed pump (20) by means of which a reduction agent is suctioned from a reduction agent tank (40) via a suction line (30) from the tank (40) and fed via a pressure line (50) and introduced into the exhaust gas flow of the internal combustion engine via at least one nozzle (60) wherein the suction line (30) has a bidirectional rubber valve (70).

No. of Pages : 19 No. of Claims : 8
**Title of the invention:** A METHOD AND DEVICE FOR CLEANING HANDS

**Abstract:**
The invention relates to a method and a device for cleaning hands. The subject method provides the use of nebulised water for cleaning operations which nebulised water is directed by command onto the hands to be cleaned. The subject device comprises a case (1) which defines an environment in which the hands to be cleaned are inserted which environment is provided with a plurality of nebuliser nozzles (3a) introducing nebulised water into the case (1) by command which water is sent to the nozzles by means of a pumping device (3).
Title of the invention: ROTOR FOR A PYROLYSIS CENTRIFUGE REACTOR

Abstract:
The present invention relates to a rotor for a pyrolysis centrifuge reactor said rotor comprising a rotor body having a longitudinal centre axis and at least one pivotally mounted blade being adapted to pivot around a pivot axis under rotation of the rotor body around the longitudinal centre axis. Moreover the present invention relates to a pyrolysis centrifuge reactor applying such a rotor.

No. of Pages: 8 No. of Claims: 13
The invention relates to a filling adapter for a container to be filled with media (e.g. oils, gases, refrigerants, and the like) in particular for the first filling of containers with service fluids on assembly lines for producing motor vehicles wherein the filling adapter has a hose pack which hose pack comprises electrical, pneumatic, and hydraulic lines. The problem addressed by the invention is that of creating a technical solution by means of which technical and economic advantages of known solution approaches for valve interconnections for operating such a filling adapter can be combined with each other without additional disadvantages being generated by means of this combination. This problem is solved in that the filling adapter has a barrel and a ball piece and is operatively connected to two media lines in a hose pack wherein the media are redistributed in the adapter head in which a filling valve and a vacuum valve are arranged which are each connected to the barrel and wherein an aeration line branches off from a vacuum line in the hose pack by means of a check valve and is connected to the ball piece.
### Title of the Invention

**AUTOMATIC SWITCHING METHOD AND DEVICE**

### Abstract

The present invention relates to an automatic switching method. A device according to an embodiment of the present invention is an automatic switching device in a second device which comprises a controller for enabling the second device together with a first device to perform a terminal discovery and a service discovery transmit a connection request message including a continuous connection field and an automatic connection mode from the second device and receive a particular service from the first device on the basis of the information included in the connection request message wherein the continuous connection field includes a service identifier.

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2. **PATIL Mayuresh Madhukar**
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4. **VEDULA Kiran Bharadwaj**
5. **HAN Se Hee**

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No. of Pages : 16
No. of Claims : 12
**Title of the invention:** METHOD AND APPARATUS FOR A SCORING SERVICE FOR SECURITY THREAT MANAGEMENT

| (51) International classification | :G06F11/00 |
| (31) Priority Document No | :14/292700 |
| (32) Priority Date | :30/05/2014 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2015/032059 |
| Filing Date | :21/05/2015 |
| (87) International Publication No | :WO 2015/183700 |
| (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) LIETZ M. Shannon
2) CABRERA Luis Felipe

**Abstract:**
A method and system for providing a security threat scoring service to identify and prioritize potential security threats to an online service. The method and system include determining security threat patterns comparing traffic to the online system with the security threat patterns and identifying portions of the traffic as a potential security threat. The method and system include assigning a threat score to the potential security threat and providing the threat score to the online service to enable the online service to secure against the potential security threat.

No. of Pages : 23 No. of Claims : 24
Title of the invention: METHOD AND APPARATUS FOR MULTI TENANCY SECRETS MANAGEMENT

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Name of Applicant:
- 1) INTUIT INC.
  Address of Applicant: 2700 Coast Avenue Mountain View California 94043 U.S.A.

Name of Inventor:
- 1) CABRERA Luis Felipe
- 2) LIETZ M. Shannon

Abstract:
A service provider computing environment includes a service provider secrets policy. A service provider computing device receives tenant secrets policies from tenants. The tenants are tenants of multi tenant assets of a service provider. The service provider computing environment determines if the tenant secrets policies satisfy the requirements of the service provider secrets policy. If the tenant secrets policies satisfy the requirements of the service provider secrets policy the service provider computing environment allows the tenant secrets policies to be applied to tenant data or information in the multi tenant assets.

No. of Pages: 27  No. of Claims: 30
The present invention discloses a filter comprising a tube extending from a first end to a second end and having a bore with an internal cross sectional area. The tube comprises an inlet with an inlet cross sectional area which is positioned through the first end of the tube. The tube also comprises an outlet with an outlet cross sectional area wherein the inlet cross sectional area is less than the outlet cross sectional area and so debris small enough to enter the inlet will tend not to block the outlet which is larger. The filter further comprises a plurality of further inlets often slots in the tube between an outside thereof and the bore. In a preferred embodiment the first end may be tapered and especially dome shaped. This helps to direct debris towards an outside of the tube where it is less likely to be drawn into the filter and potentially block it or a downstream component such as a nozzle. The filter may be attached to a pipeline and a nozzle.

No. of Pages: 19 No. of Claims: 31
A system for managing usage of at least one network enabled device comprising a policy storage separately located relative to the user device the policy database arranged to store information indicative of at least one usage policy set applicable to at least one respective user device each usage policy set defining usage permissions and/or usage restrictions for a respective user device. Also arranged to store user device identification information for each user device the information being indicative of and unique to a user device associated with the system and stored separately relative to the device. Also arranged to associate a usage policy set with a user device using the device identification information unique to the device. Also arranged to determine a usage request from a user device and to allow or deny the request based on the at least one usage policy set associated with the user device.
The present invention provides apparatus including a hydronic sensorless pumping system that features a signal processor or processing module configured to receive signaling containing information about motor readout values of power and speed and also about pump and system characteristics equations together with empirical power equations that are constructed by a polynomial best fit function together with pump affinity laws based upon a pump curve published by a pump manufacturer; and determine corresponding signaling containing information about a pump or system pressure and a flow rate at the motor readout values of power and speed based upon the signaling received.

No. of Pages: 24 No. of Claims: 18
Title of the invention: METHOD FOR RECYCLING WASTE MATERIAL WITH REDUCED ODOR EMISSION

Abstract:
A method for recycling waste material including waste paper comprises the steps of introducing the waste material into a pressure vessel re-pulping the waste paper in the pressure vessel at an elevated processing temperature and pressure to form a treated waste material including substantially re-pulped waste paper thereafter introducing cooling water into the pressure vessel so as to cool the treated waste material in the pressure vessel to a discharge temperature below the elevated processing temperature and reduce odor emitted by the treated waste material and thereafter discharging the treated waste material from the pressure vessel. The recovered paper pulp fraction is suitable as a feedstock in the manufacture of a variety of paper products including paper tissue and paper towel products.

No. of Pages : 23  No. of Claims : 24
The invention relates to a method for manufacturing a heterojunction field effect transistor. Said transistor includes a semiconductor structure made of stacked layers. Said method includes: providing a buffer layer (2) a channel layer (3) and a barrier layer (4) on a substrate layer (1) which are all produced with GaAlInN hexagonal crystal materials; forming an opening in a dielectric masking layer (5) deposited on the barrier layer; growing using high temperature epitaxy a Germanium doped GaAlInN hexagonal crystal semiconductor material (6) on a growth area defined by the opening formed in the masking layer; and depositing a source or drain contact electrode (15 16) onto the material thus deposited via epitaxy and depositing a gate electrode (13) at a location outside the growth area.
Title of the invention: OVULATION DAY PREDICTION PROGRAM AND OVULATION DAY PREDICTION METHOD

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Abstract:
The objective of the present invention is to provide a program for highly reliable ovulation day prediction. The ovulation day prediction program causes a computer to execute a process for calculating predicted ovulation day data in accordance with a specific menstrual cycle by means of applying a specific menstrual cycle to the relationship between the average menstrual cycle and the spacing between days of menstruation and days of ovulation inferred on the basis of data of a plurality of people acquired ahead of time.

No. of Pages: 19
No. of Claims: 9
The present invention relates to a power supply device for a sub module controller of a modular multilevel converter (MMC) which supplies operating power to a sub module controller of an MMC connected to a high voltage direct current (HVDC) transmission system. The power supply device according to the present invention comprises: \( N (N=2 \text{ integer}) \) energy storage units for storing DC voltage in sub modules of an MMC converter which are connected in series to each other; a bridge circuit unit including a plurality of power semiconductors which are connected in parallel to the \( N \) energy storage units in the form of a bridge; and a DC/DC converter for converting voltage output from output terminals formed at both ends of \( n (1= n < N) \) serially connected energy storage units among the \( N \) energy storage units to low voltage and supplying the low voltage to a sub module controller.
**Title of the invention :** CONSTRAINED TRICYCLIC SULFONAMIDES

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**Abstract :**
Tricyclic chemical modulators of protein phosphatase 2A are disclosed. The compounds are useful to treat cancer age onset proteotoxicity stress induced depression inflammation and acne. The compounds are of the following phenothiazine and dibenzoazepine compounds and similar genera:

**No. of Pages :** 71  **No. of Claims :** 41
The invention relates to a seal device for a door or a window having a housing rail (30) and a sealing strip (31 32) retained in the housing rail (30). The seal also has at least one fastener (1) for fastening the housing rail (30) to a door leaf or window sash (T) of the door or window wherein the fastener (1) comprises a plate (10) for lying on an end face of the door leaf or window sash (T) and a passage opening (12) for a screw (2) which passage opening is arranged in the plate (10). A retaining element (14 43) for retaining the screw (2) is present in the passage opening (12). Said seal device enables one handed mounting of the retaining bracket on the door leaf and thus makes the mounting of the seal easier.
The Patent Office Journal 10/03/2017 6642

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(54) Title of the invention : MUTANT STAPHYLOCOCCAL ANTIGENS

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| (86) International Application No | :PCT/EP2015/056175 |
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| (87) International Publication No | :WO 2015/144653 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(57) Abstract :
S.aureusMutant SpA with decreased affinity for the Fc portion of human IgG is provided. Immunisation with EsxA EsxB FhuD2 Sta011 Hla and said mutant SpA provides striking results in a renal abscess model of infection.

No. of Pages : 51 No. of Claims : 16

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A system for use in surgery includes a central body a visualization system operably connected to the central body a video rendering system a head mounted display for displaying images from the video rendering system a sensor system and a robotic device operably connected to the central body. The visualization system includes at least one camera and a pan system and/or a tilt system. The sensor system tracks the position and/or orientation in space of the head mounted display relative to a reference point. The pan system and/or the tilt system are configured to adjust the field of view of the camera in response to information from the sensor system about changes in at least one of position and orientation in space of the head mounted display relative to the reference point.
The present invention relates to a method of producing drimenol and/or drimenol derivatives by contacting at least one polypeptide with farnesyl diphosphate. The method may be performed in vitro or in vivo. The present invention also provides amino acid sequences of polypeptides useful in the method of the invention and nucleic acid encoding the polypeptides of the invention. The method further provides host cells or organisms genetically modified to express the polypeptides of the invention and useful to produce drimenol and/or drimenol derivatives.

No. of Pages : 42 No. of Claims : 16
## Title of the invention: BOP WATER FILTER CARTRIDGE

### Abstract:

A water filter may include a diatomite based ceramic filter having a median pore size greater than about 5 microns and at least one of a halogen source, an active carbon source, a UV source, or a filtration membrane. A method of filtering water includes passing water from a source chamber through a diatomite based ceramic filter having a median pore size greater than about 5 microns and passing the water through at least one of a halogen source an active carbon source a UV source or a filtration membrane to a collection chamber. The diatomite based ceramic filter may further include bentonite. The water filter may include a biocide. The water filter may have a flow rate greater than about 5 L/hr when normalized to a surface area of 0.015 m. The water filter may reduce bacteria by greater than about 6 log. The halogen source may include a halogen elution system or a surface modification of the diatomite based ceramic filter.

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**No. of Pages:** 23  **No. of Claims:** 46
The present invention relates to dual GLP 1 / glucagon receptor agonists and their medical use for example in the treatment of disorders of the metabolic syndrome including diabetes and obesity as well as for reduction of excess food intake.
A method and system for automating threat model generation for an application includes identifying components of an application receiving security information that identifies whether security measures were implemented within the application to secure the application against security threats determining whether the security measures sufficiently address security risks associated with the security threats and providing a threat model that includes a report that identifies components of the application that have been sufficiently (or insufficiently) secured from the security threats according to one embodiment. In one embodiment determining whether the security measures sufficiently address the security risks can include transmitting first queries receiving responses to the first queries and transmitting subsequent queries based at least in part on the responses to the first queries.
A method and system for setting an initial dedicated physical control channel (DPCCH) power of a secondary carrier after a transmission gap are disclosed. According to one aspect a method includes determining a filtered DPCCH power of first carrier. The method further includes determining a power offset. The method also includes calculating the initial DPCCH power of the secondary carrier by adding the determined filtered DPCCH power of the first carrier to the determined power offset.
Various methods devices and nodes in a wireless system are disclosed for efficiently transferring files (both uploads and downloads) between a wireless device and a network node in a Coordinated Multipoint (CoMP) environment. According to a broad aspect an upload request message is sent from the wireless device to the cooperating nodes in the CoMP set for uploading the data file to the network node and based on an upload grant from at least one cooperating node a plurality of piece messages are sent to the cooperating nodes for transmission to the network node each piece message containing a particular piece of the data file. In yet another broad aspect both a coordinating node and non coordinating nodes in the CoMP set are configured to receive piece messages. Non coordinating nodes that receive piece messages send acknowledgement messages to the coordinating node indicating which pieces have been received. If at least one piece has not been received at the coordinating node but received at a non coordinating node the coordinating node instructs the non coordinating node to forward the at least one piece received to the network node.
Methods for Managing Interruptions with Multiple Deactivated SCells

A wireless device and a method for a wireless device served by a first network node on a primary cell (PCell) is provided. The wireless device is capable of using at least two secondary serving cells (SCells). A first request to perform a measurement on at least one cell on a first secondary component carrier (SCC) with a deactivated first SCell using at least a first measurement cycle is received. A second request to perform a measurement on at least one cell on a second SCC with a deactivated second SCell using at least a second measurement cycle is received. An effective serving cell interruption probability (Peff) of missed at least one of Acknowledgment and Negative Acknowledgment signaling in an uplink direction is determined based on at least the first measurement cycle and the second measurement cycle. A serving cell interruption probability is ensured to not exceed the determined Peff.

The Patent Office Journal 10/03/2017 6650
A throttle device (10) for decompressing a coolant cooled by a condenser in a refrigeration cycle and delivering said coolant to an evaporator wherein it is possible to accurately set a minimum gap between a needle valve (4) and a valve port (21). The interior of a cylindrical body case (1) which configures a primary chamber (11) connected to the condenser and a secondary chamber (12) connected to the evaporator is provided with a valve seat member (2) in which the valve port (21) is formed and a cylindrical guide member (3) which is integral with the valve seat member (2). The interior of the guide member (3) is provided with a coil spring (6) for biasing the needle valve (4) to the valve port (21) side. A needle section (41) of the needle valve (4) projects from the valve port (21) toward the primary chamber (11) side. A tip end section (41a) of the needle section (41) contacts a stopper member and as a result the position of the tip end section (41a) is set. The position of the stopper member (7) in the axial line (L) direction is adjusted by the amount of screwing relative to the valve seat member (2).
Title of the invention: METHOD FOR PRODUCING TRI CARBOBENZOXY ARGININE

Abstract:
By adding carbobenzoxyl chloride and a basic group in a water/organic solvent bilayer system to arginine or an arginine derivative (1) which are represented by belowmentioned formula (1) or a salt of said arginine derivative (1) the arginine or arginine derivative (1) represented by formula (1) or a salt of said arginine derivative (1) is carbobenzoxylated to produce tri carbobenzoxy arginine represented by belowmentioned formula (2).

No. of Pages: 34 No. of Claims: 9
An objective of the present invention is to provide an insert in which a cutting edge is formed only between an upper surface and a side surface so as to obtain a sufficient inclination angle of the cutting edge in a limited thickness and to improve coupling with a tool holder. To this end the insert of the present invention is an insert in which a main cutting edge that has three or more corners along the circumference and is formed at a corner between the upper surface and a main side surface of the insert and a sub cutting edge that is formed at a corner between the upper surface and a sub side surface of the insert are successively located between the corners the insert having a flat lower surface. The main cutting edge forms an inclination angle whose height gradually decreases toward the sub cutting edge. In the main side surface a first main side surface in contact with the main cutting edge and a second main side surface in contact with the lower surface are successively formed with different clearance angles. In the sub side surface a first sub side surface in contact with the sub cutting edge and a second sub side surface in contact with the lower surface are successively formed with different clearance angles.

No. of Pages : 19 No. of Claims : 7
The invention relates to an electropneumatic brake controller (1) for controlling a parking brake which includes at least one spring brake cylinder comprising a connection (40) for the at least one spring brake cylinder; a first solenoid valve device (8) which can be controlled by means of an electronic controller (14); a relay valve (18) the pneumatic control inlet (20) of which is connected to the first solenoid valve device (8) and to the connection (40) for the at least one spring brake cylinder and the working outlet (28) of which is connected to the connection (40) for the at least one spring brake cylinder; an electric parking brake signal connection (32) which is connected to the electronic controller (14) for an electric parking brake signal generator (36) and via which parking brake signals can be transmitted into the controller (14); and a supply connection (2) which is secured by a non return valve (4) for at least one compressed air supply said supply connection being connected to the first solenoid valve device (8) and to a supply inlet (16) of the relay valve (18). According to the invention the first solenoid valve device (8) is made of three 2/2 way solenoid valves (10 12 30) each of which has a blocking position and a passage position. A first 2/2 way solenoid valve (10) in the form of an inlet valve is connected between the control inlet (20) of the relay valve (18) and the supply connection (2) a second 2/2 way solenoid valve (12) is connected between the control inlet (20) of the relay valve (18) and a pressure sink (24) and a third 2/2 way solenoid valve (30) is arranged between the working outlet (28) and the control inlet (20) of the relay valve (18).
The invention relates to a stator (100) of a rotating electric machine the stator (100) comprising: a laminate stack (104) having a plurality of slots (106) open towards an air gap between the stator (100) and a rotor of the electric machine; and a winding (102) having a plurality of coils the turns of said winding each passing through slots (106) of the laminate stack (104). In this case the turns of the coils within the slots (106) are electrically insulated from one another and from the laminate stack (104) by a ceramic material.

In addition the invention relates to a method for the automated production of a winding (102) of a stator (100) of a rotating electric machine.

No. of Pages : 20 No. of Claims : 15
A panel fastener includes a screw that is captivated to a ferrule and urged toward a retracted position by a spring which operates between the screw head and the ferrule. When the screw is in the retracted position a collar of enlarged diameter on the screw occupies the area adjacent an internal annular captivation ring of the ferrule. The screw includes a flange that bears directly against the captivation ring providing a stop to prevent removal of the screw. The spring is preferably a coil spring that is operative against an outer flange of the ferrule.
The invention relates to a textile motherboard (TMT) that can be used in clothing coats and dressings gowns and which includes at least one central processing unit (CPU) or a peripheral or a combination of both for monitoring reporting and controlling parameters of the wearer. The clothing can be used or worn by a human or non-human user. The textile of the clothing serves as a substrate for forming the TMT. The TMT can have multi-layer structures and VIA's (vertical interconnect access). The traces of the TMT are formed of textile material that can transmit signals between the CPU and information storage means or the combination with the peripheral(s). The layers traces and VIA's are incorporated using known textile handling techniques such as weaving, stamping, or same can be printed onto the textiles. Each component is modular and interchangeable and is connected to the TMT using textile connectors that can be clips, hooks or similar elements. The TMT the CPU and the peripherals are washable. The CPU and each peripheral can be mounted on rigid or flexible textile boards or PCBs (printed circuit board) using discrete electronic or photonic elements. The CPU includes a micro controller a micro processor or a comparable element. The peripherals include photonic transducers or electronic transducers or a combination of both such as capacitive sensors, pulse meters, humidity sensors, thermometers, accelerometers, gyroscopes. The peripherals also include: screens; modules for serial communication via radio frequency (including Bluetooth Zigbee technology); Wi-Fi; and similar elements.
The invention relates to a textile motherboard (TMT) that can be used in clothing coats and dressing gowns and which includes at least one central processing unit (CPU) or a peripheral or a combination of both for monitoring, reporting, and controlling parameters of the wearer. The clothing can be used or worn by a human or a non-human user. The textile of the clothing serves as a substrate for forming the TMT. The TMT can have multi-layer structures and VIAs (vertical interconnect access). The traces of the TMT are formed of textile material that can transmit signals between the CPU and information storage means or the combination with the peripheral(s). The layers, traces, and VIAs are incorporated using known textile handling techniques such as weaving, stamping, or printing onto the textiles. Each component is modular and interchangeable and is connected to the TMT using textile connectors that can be clips, hooks, or similar elements. The TMT, the CPU, and the peripherals are washable. The CPU and each peripheral can be mounted on rigid or flexible textile boards or PCBs (printed circuit boards) using discrete electronic or photonic elements. The CPU includes a microcontroller, a microprocessor, or a comparable element. The peripherals include photonic transducers or electronic transducers or a combination of both such as capacitive sensors, pulse meters, humidity sensors, thermometers, accelerometers, or gyroscopes. The peripherals also include: screens; modules for serial communication via radio frequency (including inter alia Bluetooth, Zigbee technology); Wi-Fi; and similar elements.
Abstract:
The invention relates to a valve top comprising a head piece (1) which is centrally penetrated by a spindle (2) which is rotatably mounted in the head piece (1) around its longitudinal axis and via which a control disk (3) can be rotated relative to an inlet plate abutting the same wherein a control sleeve (6) having a control contour (63) is arranged within the head piece (1) on the spindle (2) and a guide sleeve (5) having a guide contour (54) is arranged opposite the control contour (63) which control sleeve and guide sleeve interact in such a way that after actuation of the control disk (3) via the spindle (2) into a defined direction an autonomous return movement of the control disk (3) into its starting position is effected.

No. of Pages : 19 No. of Claims : 12
The invention relates to a sanitary fitting comprising a pipe section which has a valve seat and which receives a valve upper part which bears against the valve seat and which comprises a head piece which is traversed centrally by a spindle which is rotatably and/or pivotably mounted in the head piece and via which a control disc can be moved relative to an inlet disc within the head piece wherein the valve upper part is releasably connected to the pipe section wherein means for the defined positioning of the valve upper part (5) within the pipe section (2) in at least two rotary positions offset by an angle of orientation are arranged.
The present invention relates to a rotary cutting apparatus for cutting a web of material including a cutting unit rotatably mounted on a support a rotary cutter rotatably disposed in the cutting unit the rotary cutter having a longitudinal axis and at least one cutting edge disposed on the rotary cutter wherein the at least one cutting edge is orientated at an angle to the longitudinal axis of the cutter. The cutting unit being counter orientated to the feed direction of the web by an adjustable angle equal to the cutting edge angle less than the cutting edge angle or greater than the cutting edge angle.

No. of Pages : 8 No. of Claims : 13
The present invention relates to methods and compositions for anti aging therapy and for the treatment and prophylaxis of age related diseases and disorders in a human subject in need of such therapy or treatment the methods comprising the pulmonary administration to the subject preferably via inhalation of composition comprising rapamycin or a prodrug or derivative thereof.
Title of the invention: SYSTEM AND METHOD FOR A HYBRID TOPOLOGY MEDIA CONFERENCING SYSTEM

Abstract:
Examples hybrid topologies of a conferencing system are disclosed. An example of a hybrid topology may comprise a plurality of endpoints and a central entity. Each of said plurality of endpoints may provide its primary video stream and audio stream to said centralized entity. The centralized entity provides the primary speaker stream and the mixed audio stream to each of said plurality of endpoint participants. In addition some of plurality of endpoint establishes low bandwidth/low resolution media streams with other of said plurality of endpoint participants for non speaker video.

No. of Pages: 15
No. of Claims: 26
The present disclosure relates to a sealing member (90) for an inhaler (1) and an assembly comprising the sealing member. The sealing member comprises a sealing lip (92). The assembly for an inhaler comprises a first part (3) a second part (25) and the sealing member (90) which comprises the sealing lip (92) wherein the first part and the second part are assembled to permit relative rotational movement between the first part and the second part and wherein the sealing lip sealingly engages a surface of the second part in order to provide a seal between the first part and the second part.

No. of Pages : 23 No. of Claims : 12
**Title of the Invention:** DIE FOR BENDING PRESS FORMING

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**Abstract:**
[Problem] To propose a die for bending press forming whereby the effects of bending moments are small and a high roundness cylinder can be obtained. [Solution] In this die for bending press forming said die comprising a left/right pair of die blocks (1) that support a sheet material (S) at two points and a punch (2) that can move toward and away from the die blocks (1) and bends the sheet material (S) sandwiched between the die blocks (1) and the punch (2) by successively applying pressure thereto in the width direction thereof the punch (2) comprises the following: a punch head (2a) that has a working surface (K) that directly contacts the sheet material (S) and applies pressure thereto so as to give the sheet material (S) a concave shape; and a punch support (2b) that is attached to the punch head (2a) so as to be held thereby and supports said punch head (2a). The center (O) of the working surface (K) of the punch head (2a) coincides with the central axis (q) of the punch support (2b) and the shape of said working surface (K) is a non uniform circular arc the radius thereof in the widthwise middle thereof being the maximum radius thereof.

No. of Pages: 21 No. of Claims: 6
A technique for determining a precoder for a radio transmission via a channel (110) including at least two transmit antennas (106) is disclosed. As to a method aspect of the technique channel state and optionally channel noise characteristics are measured by a measuring unit (122). Based on a result of the measurement a subset of precoders is selected out of a codebook (116) including a plurality of precoders by a selecting and determining unit (120). The selecting and determining unit (120) further determines a precoder for precoding the transmission out of the subset.
Title of the invention: METHODS A WIRELESS DEVICE AND A RADIO NETWORK NODE IN A WIRELESS COMMUNICATION SYSTEM

Abstract:
Methods wireless device (110) and radio network node (120) for scheduling transmissions are disclosed. The wireless device (110) sends to the radio network node (120) information relating to emissions from the wireless device (110) when the wireless device (110) operates according an operating configuration. The radio network node (120) schedules the transmissions based on the information. Then the wireless device (110) is scheduled by the radio network node (120) based on the information. Corresponding computer programs and carriers also are disclosed.

No. of Pages: 30 No. of Claims: 14
Title of the invention: SUBSTANCE OR CONTAMINATION DETECTION

Abstract:
A spectroscopic method and system detects the amount of one or more substances or contaminants in or on a product such as fecal contamination on meat samples.

No. of Pages: 28 No. of Claims: 46
An improved belt for use in a belt separation apparatus and an improved method to separate a particle mixture based on triboelectric charging of particles is disclosed. The improved belt is particularly suitable for triboelectric separation of particles that tend to accumulate on the edges of the belt separation apparatus and/or tend to compound or blend with the belt material. The improved belt comprises impermeable longitudinal edges apertures interior to the longitudinal edges of the belt and periodic notches formed in the longitudinal edges of the belt at periodic locations in the edge of the belt.
**Title of the invention:** STEEL PIPE SHAPING METHOD AND SHAPING DEVICE USING THREE POINT BENDING

| (51) International classification       | :B21D5/01,B21C37/08 |
| (31) Priority Document No              | :2014070703         |
| (32) Priority Date                     | :31/03/2014         |
| (33) Name of priority country         | :Japan              |
| (86) International Application No      | :PCT/JP2015/059835  |
| Filing Date                           | :30/03/2015         |
| (87) International Publication No      | :WO 2015/152108     |
| (61) Patent of Addition to Application Number | :NA               |
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| Filing Date                           | :NA                 |

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**Abstract:**
In this steel pipe shaping method in which a raw steel sheet is made into a substantially cylindrical shape via a first half shaping process whereby three point bending is performed a plurality of times from one widthwise edge of the raw steel sheet to the widthwise center thereof, a second half shaping process whereby three point bending is performed a plurality of times from the other widthwise edge of the raw steel sheet to the widthwise center thereof, and a final shaping process whereby three point bending is performed on the widthwise center of the raw steel sheet by dividing the first half shaping process into a preceding shaping process performed before the second half shaping process and a following shaping process performed after the second half shaping process and setting the extent over which shaping is performed in the preceding shaping process to more than 0.17 but less than 0.46 times the width of the steel sheet, the maximum diameter with which steel pipes can be manufactured is increased without modifications to an existing press.
The present disclosure relates to a matrix free polymer nanocomposite. The matrix free polymer nanocomposite includes a plurality of polymer brush grafted nanoparticles which form the nanocomposite in the absence of a polymeric matrix. The polymer brush grafted to the nanoparticles comprises a multimodal brush configuration having at least two different populations of polymer ligands of different lengths. The present disclosure also relates to an optic or optoelectronic component comprising a matrix free polymer nanocomposite as described herein. The present disclosure further relates to a method of making a matrix free polymer nanocomposite.
The present invention relates to a user terminal UE in a wireless communication system (1). The user terminal (4a 4b) comprises a receiver unit (5a 5b) a transmitter unit (6a 6b) configured to transmit data in transmit sub frames occurring at defined sub frame intervals and a control unit (7a 7b) configured to control the receiver circuit (5a 5b) and the transmitter circuit (6a 6b). The control unit (7a 7b) is also configured to create a PRACH Physical Random Access Channel preamble (27) as an uplink transmission to a node (2) that is arranged to receive communication from the user terminal in said sub frames. This communication comprises OFDM Orthogonal Frequency Division Multiplexing based symbols (20). The control unit (7a 7b) is configured to create each PRACH preamble (27) such that it comprises a sequence of a plurality of identical random access sequences (s(n)) where each random access sequence (s(n)) has the same length in time as each one of the OFDM based symbols (20a 20b 20c). The present invention also relates to a corresponding method.
Apparatus and methods are provided for thermal energy metering by measuring the average temperature of fluid in a tank such as a hot water storage tank. Average temperature is measured with an elongated temperature sensor wire that can span the vertical height of the tank. The sensor wire can be protected with a waterproofing jacket. The sensor wire can be coupled to a second substantially parallel wire. A processing unit measures temperature from changes in the resistance of the sensor wire and measures rates of change to allow the system to distinguish different sources of heat increase and/or decrease.
Title of the invention : EPGENETIC MODIFICATION OF MAMMALIAN GENOMES USING TARGETED ENDONUCLEASES

Abstract:
The present disclosure provides genetically engineered cell lines comprising chromosomally integrated synthetic sequences having predetermined epigenetic modifications wherein a predetermined epigenetic modification is correlated with a known diagnosis prognosis or level of sensitivity to a disease treatment. Also provided are kits comprising said epigenetically modified synthetic nucleic acids or cells comprising said epigenetically modified synthetic nucleic acids that can be used as reference standards for predicting responsiveness to therapeutic treatments diagnosing diseases or predicting disease prognosis.
A device (20) is disclosed for dispensing a fluid supplied from an external fluid source. The device comprises a transducer (32) adapted to receive a fluid from the fluid source and a collapsible linkage and trip link (502) coupling the transducer and the fluid source. The linkage has a collapsible joint inhibiting discharge of the fluid source when in a locked orientation. The device (20) further comprises a moveable member coupled to the linkage such that inhalation forces on the device cause the linkage to collapse thereby discharging the fluid from the fluid source. The device may further include a dose counter coupled to the fluid source for registering the amount of doses administered from the fluid source.
The invention relates to a system for connecting the lattice tower (2) and the gondola (3) of a wind turbine having a horizontal axis consisting of a cylindrical ring piece (4) that has high flexural rigidity and enables direct transition between the gondola yaw system (3) and the vertical members of the lattice tower (2). The connecting piece (4) consists of two rings (13 and 14) joined together with outer vertical plates (12) and lower (16) and upper (17) horizontal plates forming the faces (15 and 18) which internally have transverse (20) central (19) and auxiliary (21) ribs joined together and with the outer vertical plates (12) through cylindrical joints (24). The central ribs (19) form a large polygonal hole (22) at the center thereof depending on the number of legs that are part of the lattice tower (2). The connection of the part (4) to a straight tower having three columns (2) is an optimal solution enabling: reduction of column tower loads by increasing torque arm load reduction on the frame and Yaw for the same reason load reduction on the tower due to the embedded generator in the annular gap tower cost reduction by reducing the necessary elements and total weight and reducing transport costs due to the modularity of the solution.

No. of Pages : 8 No. of Claims : 6
**Title of the Invention:** METHOD AND DEVICE FOR PROVIDING CONTENTS IN COMMUNICATION SYSTEM

**Abstract:**
A method for providing contents in a communication system according to an embodiment of the present invention comprises the steps of: discovering multiple synchronization devices which will communicate with a source device and identifying device types of the discovered multiple synchronization devices; generating multiple contents for the multiple synchronization devices on the basis of the identified device types; and providing each of the generated multiple contents to a corresponding synchronization device wherein each of the device types is determined according to at least one among the capacity type and function of the device.

No. of Pages : 10 No. of Claims : 13
Title of the invention: TRANSPARENT PANEL WITH HEATABLE COATING

Abstract:
The invention relates to a transparent panel (1) according to figure 1 comprising an electrically heatable coating (8) which is connected to two collection electrodes (11 11) such that a heat current flows via a heating field (12) formed between the collection electrodes (11 11) by applying a supply voltage. The heating field (12) contains a coating free zone (14) which is bordered by a coating free zone (14) edge (17) that is at least partly formed by the heatable coating (8) wherein one of the two collection electrodes (11 11) is divided into two separate sub regions (11 11) a power supply line (16 16) is led from each of the two sub regions (11 11) to an additional electrode (15) at least in some sections at least one power supply line (16 16) runs in the one coating free zone (14) in a coating free edge strip (9) in a sub region (8 8) of the coating (8) outside of the heating field (12) and/or on and/or in the zone edge (17) of the coating free zone (14) and the additional electrode (15) is electrically connected to the two power supply lines (16 16) and to the heating field section (22) of the heating field (12) and/or the additional electrode (15) is divided into two separate sub regions (15 15) each of the two sub regions (15 15) being electrically connected to a respective power supply line (16 16) and to the heating field section (22) of the heating field (12) between the collection electrodes (11 11). The invention also relates to a method for producing the transparent panel and to the use thereof.

No. of Pages : 26 No. of Claims : 15
A power ambulance cot (10) having a cot control system operably connected to a cot actuation system (34) to control independent raising and lowering of front (20) and back legs (40) thereof and which detects the presence of a signal requesting a change in elevation of a support frame (12) thereof and causes the cot actuation system to raising or lowering of the front and/or back legs automatically upon detecting a condition during loading/unloading a patient from an emergency vehicle or transporting the patient up or down an escalator and methods thereafter are disclosed.
The present invention relates to a method for authenticating and/or identifying persons, items, service systems or computer programs in which a static, unchanging security feature that is characteristic of the person, the item, the service system or the computer program is provided or used that is subsequently altered by the influence of an unforeseeable factor and thereby converted into a dynamic security feature. Positive authentication is obtained when the dynamic security feature has at least partly changed by a dynamic factor between two query times in comparison with the static security feature stored in the memory means wherein the static security feature stored in the memory means corresponds to the most recently updated altered dynamic security feature from the last query time. In addition, the invention relates to an authentication system in which dynamic security features originate from a static security feature.
Title of the invention: FLOW CONTROLLING UNIT PROVIDED IN FLOW CHANNEL

Abstract:
A flow controlling unit provided in a flow channel is disclosed. The flow controlling unit is disposed perpendicular to the moving direction of a fluid in a flow channel and has multiple fluid through holes through which the fluid passes. One or more flow controlling pieces are provided in a position corresponding to the fluid through holes and form an inclination with respect to the plate in the direction of the inflow of the fluid. The flow controlling pieces are capable of tilting on the plate and control the degree of opening of the fluid through holes by being tilted due to pressure applied from hydraulic pressure of the fluid.

No. of Pages: 33 No. of Claims: 14
A flow controlling unit having a function of limiting the tilting angle of a flow controlling piece is disclosed. The flow controlling unit having a function of limiting the tilting angle of a flow controlling piece according to one embodiment of the present invention comprises: a flow controlling plate which is disposed perpendicular to the moving direction of a fluid in a flow channel and on which are formed one or more first fluid through holes through which the fluid passes and on which flow controlling pieces are formed which are provided in a part corresponding to the first fluid through holes are inclined in the direction of the inflow of the fluid are capable of tilting and control the degree of opening of the first fluid through holes by being tilted due to pressure applied from hydraulic pressure of the fluid; and a tilting angle limiting plate on which are formed second fluid through holes which communicate with the first fluid through holes wherein the diameter of the second fluid through holes is smaller than the diameter of the first fluid through holes allowing the flow controlling pieces to be supported so as to limit the tilting angle of the flow controlling pieces.
**Title of the invention**: ANTIBODIES AGAINST IMMUNOGENIC GLYCOPEPTIDES COMPOSITION COMPRISING THE SAME AND USE THEREOF

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**Abstract**:
Disclosed herein are antibodies which specifically bind to at least one epitope defined by the immunogenic glycopeptide. Other aspects of the present disclosure are pharmaceutical composition comprising the antibody; and method for preventing and/or treating Globo H positive cancer.

**No. of Pages**: 41  **No. of Claims**: 26
Title of the invention: SOLID COMPOSITION COMPRISING AMORPHOUS SOFOSBUVIR

Abstract:
A solid composition comprising sofosbuvir and at least one pharmaceutically acceptable matrix compound wherein at least 99 weight % of the sofosbuvir comprised in the composition are present in amorphous form at least 99 weight % of the solid composition consist of the sofosbuvir and the at least one matrix compound and wherein the solid composition contains the sofosbuvir in an amount of at least 55 weight % based on the combined weight of the sofosbuvir and the at least one matrix compound.
Title of the invention: METHOD AND DEVICE FOR GENERATING A PLASMA EXCITED BY MICROWAVE ENERGY IN THE ELECTRON CYCLOTRON RESONANCE (ECR) DOMAIN IN ORDER TO CARRY OUT A SURFACE TREATMENT OR PRODUCE A COATING AROUND A FILIFORM ELEMENT

Abstract:
According to the method: the filiform element is continuously moved linearly through magnetic dipoles placed facing each other and around a tube forming a processing chamber; and the microwave energy is introduced between at least two magnetic dipoles.

No. of Pages : 11 No. of Claims : 13
Methods and devices for managing connectivity for a service are disclosed. A wireless device (110) and a network node (120) determine an estimated level of connectivity for a service of the wireless device (110) towards a wireless network (100). The estimated level of connectivity relates to the likelihood of maintaining the connectivity towards the wireless network (100). The estimated level of connectivity is determined based on conditions relating to at least one connection for the wireless device (110). The at least one connection is managed by the wireless network (100). Moreover, corresponding computer programs and computer program products are disclosed.
Abstract:
Disclosed are a transmission control method apparatus and system so as to effectively utilize network link resources. The method of the present invention comprises: obtaining link status information about a network; determining a parameter recommended value for TCP transmission according to the link status information; and performing TCP transmission according to the determined parameter recommended value. The present invention can enable TCP transmission status to reflect network congestion status more real prevent a congestion misjudgment from occurring and improve the utilization rate of link resources in a network.
The Patent Office Journal 10/03/2017

### Title of the invention: SUB SAMPLING PHASE LOCKED LOOP

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<td>Name of Applicant</td>
<td>HUAWEI TECHNOLOGIES CO. LTD.</td>
</tr>
<tr>
<td>Address of Applicant</td>
<td>Huawei Administration Building Bantian Longgang District Shenzhen Guangdong 518129 China</td>
</tr>
<tr>
<td>Name of Inventor</td>
<td>JAKOBSSON Anders</td>
</tr>
<tr>
<td>Abstract</td>
<td>DLY11DLY221OUT12OUT 2SAMPL12OUTSAMPLA sub sampling phase locked loop (100) is described which comprises a digital to time converter (102) a sampler module (104) an interpolator (106) and a voltage controlled oscillator (108). The digital to time converter (102) is configured to provide a first delay signal S at a first point t in time and a second delay signal S at a second point in time t. The sampler module (104) is configured to provide a first sample S of the oscillator output signal S at the first point in time t and a second sample S of the oscillator output signal Sat the second point in time t. The interpolator (106) is configured to provide a sampler signal S by interpolating the first sample S and the second sample S. The voltage controlled oscillator (108) is configured to control the oscillator output signal S based on the sampler signal S.</td>
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No. of Pages: 21
No. of Claims: 13
The present invention relates to a household appliance comprising a metering system which comprises a supply container (101) for a viscous liquid (103) with an outlet (105) for discharging the liquid (103) and a movable closing body (107) for closing the outlet (105) in which the metering system comprises an actuation device (109) for exerting a force on the movable closing body (107) a detection device (111) for detecting a position of the movable closing body over time and a calculation device for calculating the viscosity of the viscous liquid (103) on the basis of the position of the movable closing body (107) over time.

No. of Pages: 13 No. of Claims: 15
The present invention refers to a method for the separation of host cell proteins (HCPs) antibody fragments and low molecular weight substances from solutions containing antibodies.
A photographing optical lens system includes, 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, a sixth lens element, a seventh lens element and an eighth lens element. The second lens element has positive refractive power. The eighth lens element has an image-side surface being concave in a paraxial region thereof, wherein the image-side surface of the eighth lens element has at least one convex shape in an off-axis region thereof, and both an object-side surface and the image-side surface thereof are aspheric. The photographing optical lens system has a total of eight lens elements. An air gap in a paraxial region is located between every two lens elements of the photographing optical lens system that are adjacent to each other. FIG. 1.
Title of the invention: SOLIDIFICATION MATRIX INCLUDING A SALT OF A STRAIGHT CHAIN SATURATED MONO-, DI-, OR TRI-CARBOXYLIC ACID

Abstract:
A solidification matrix comprising: (a) a straight chain saturated carboxylic acid salt selected from the group consisting of: acetic acid, gluconic acid, malic acid, succinic acid, glutaric acid, adipic acid and tartaric acid; (b) sodium carbonate; and (c) water; wherein the solidification matrix is a hydrate solid; wherein if heated at a temperature of 120 degrees Fahrenheit, the solidification matrix is dimensionally stable and has a growth exponent of less than 2%; and wherein the solidification matrix is phosphorous-free and NTA-free.
A fuel vapor emission system for small engine gas tank (10) which does not require redesign or retooling for manufacturing of the tank. A new filler tube (14) has the lower end positioned (d) to cause fuel to rise rapidly in the tube before the tank is full, signaling the operator to stop refueling and maintain a vapor dome in the tank when the filler cap (16) is replaced. A vapor vent valve (20) is disposed in a separate access opening (18) and includes a float (28) operated rollover valve (36). The vent valve (46) opens when a predetermined positive pressure is reached in the tank; and, a reverse flow vacuum relief valve (56) is disposed in the vent valve. The outlet of the vent valve is intended to be connected to either a storage canister (70) or the engine air inlet (72).
Title of the invention: AN APPARATUS AND A METHOD FOR DECODING AN ENCODED AUDIO SIGNAL

Abstract:

An apparatus for decoding (100) an encoded audio signal (102). A first decoder (110a) decodes a first portion (104a) in accordance with a first decoding algorithm for a first time portion of the encoded signal (102) to obtain a first decoded signal (114a). A second decoder (110b) decodes a second portion (104b) in accordance with a second decoding algorithm for a second time portion of the encoded signal (102) to obtain a second decoded signal (114b). A BWE module (130) has a controllable crossover frequency (fx) and is configured for performing a bandwidth extension algorithm using the first decoded signal (114a) and BWE parameters (106) for the first portion (104a), and for performing a bandwidth extension algorithm using the second decoded signal (114b) and the bandwidth extension parameters (106) for the second portion (104b). A controller (140) controls the crossover frequency (fx) for the BWE module (130) in accordance with a coding mode information (108).

No. of Pages: 45 No. of Claims: 6
Methods and compositions for treating cancers such as pancreatic cancer and synovial sarcoma are disclosed. Compounds comprising a sigma 2 receptor binding moiety and a ferroptosis inducing moiety are described. At least one described molecular species exhibits an IC value below 5 µ against human pancreatic cancer cells in vitro. Administration of this species promoted shrinkage of pancreatic cancer tumors in a murine model system in vivo and led to 100% survival of experimental animals over a time course in which control therapies provided only 30% or 40% survival. Methods of synthesis of molecular species are also disclosed.
The present disclosure pertains to novel cell cultivation and cell and/or cell derived product production processes that have advantages over currently existing fermentation strategies. The processes and methods according to the present disclosure may be used for an efficient supply of highly viable and metabolically active eukaryotic cells for transient production platforms as an alternative production process with advantages over currently applied processes (batch fed batch or perfusion strategies) and for generating metabolically highly active biomass for subsequent use for transient expression systems or infection by a virus or pseudovirus or in cell free systems.

No. of Pages : 49 No. of Claims : 15
Title of the invention: DETECTION OF HIGH VARIABILITY REGIONS BETWEEN PROTEIN SEQUENCE SETS REPRESENTING A BINARY PHENOTYPE

| (51) International classification | :C12Q1/68,C12Q1/70 |
| (31) Priority Document No | :61/970287 |
| (32) Priority Date | :25/03/2014 |
| (33) Name of priority country | :U.S.A. |
| (36) International Application No | :PCT/US2015/021262 |
| Filing Date | :18/03/2015 |
| (87) International Publication No | :WO 2015/148216 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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   Address of Applicant: 1475 North Scottsdale Road Suite 200 Scottsdale AZ 85257 U.S.A.

Name of Inventor:
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2) PURUSHOTHAMAN Immanuel

Abstract:
A computer based bioinformatics method for identifying protein sequence differences between sets of sequences grouped into different phenotype data sets that involves querying a database to identify common sequence motifs within a first phenotype data set and another phenotype data set of protein sequences computing a pairwise correlation among motifs for each data set and computing the variation between the data sets to identify one or more motifs that are conserved in a given data set and thus correlate with that data set's phenotype (Fig. 1).

No. of Pages: 7 No. of Claims: 7
Title of the invention: A NOVEL REMOTE ENERGY METERING SYSTEM CAPABLE OF ASCERTAINING ZONAL ENERGY CONSUMPTION WITH AUTOMATIC METER READING

Abstract:
To overcome complications and difficulties confronting the existing power measuring procedures, the present invention provides a novel remote SMART energy metering system capable of ascertaining zonal energy consumption with automatic meter reading. The said system being characterized in that it comprises in combination of components arranged in accordance with the block diagram as shown in Fig. 1 of the accompanying drawings, consisting mainly of—(i) source of power supply to consumer premises; (ii) current transformer (CT), (iii) potential transformer (PT), (iv) load on/off switch, (v) consumer load, (vi) signal conditioning circuit, (vii) LCD display, (viii) an interface for propagating communication, (ix) Zigbee module, (x) dual channel digitization unit, (xi) a microcontroller, and (xii) communication interface drive, along with connections to load, main and neutral.

No. of Pages : 19 No. of Claims : 4
(12) PATENT APPLICATION PUBLICATION (21) Application No.201637034869 A
(19) INDIA
(22) Date of filing of Application :13/10/2016 (43) Publication Date : 10/03/2017

(54) Title of the invention : THERMAL ENGINE WITH ENERGY MODULATION MECHANISM

(51) International classification : F02G1/04,F02B1/00,F01B3/00
(31) Priority Document No : 2014901349
(32) Priority Date : 14/04/2014
(33) Name of priority country : Australia
(86) International Application No : PCT/AU2015/050159
   Filing Date : 08/04/2015
(87) International Publication No : WO 2015/157813
(61) Patent of Addition 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) HUANG Da Wei

(57) Abstract :
Disclosed herein is an apparatus for extracting thermal energy from thermal expansion of a working medium in the apparatus. The apparatus includes a thermal expander, a compressor for compressing the working medium after the expansion and a force modulation unit connecting the thermal expander to the compressor. The force modulation unit consists of two conversion gears that are connected by a lever system. The lever system can be dynamically controlled so that the non constant force from thermal expansion is modulated into a substantially constant output force of the apparatus.

No. of Pages : 40 No. of Claims : 25
Abstract:
This invention relates to a single cylinder medium capacity reheat condensing turbine, which comprises an outer casing assembly (1) consisting of two halves (upper and lower) having a horizontal separation line; the upper half provided with an integral valve chest (2) housing an HP stop and a first plurality of control valves; the lower half provided with a provision for bolting an IP stop and a second plurality of control valves (3); a fabricated exhaust hood (4) bolted to the rear end of the outer casing, and housing three guide wheels (5) which hold the last three stages of guide blades; the outer casing (1) accommodating a HP inner casing (6), an IP inner casing (7) and guide blade carriers (8) which house the stationary reaction blading; and a rotor (9) which holds the moving reaction blading, and which converts the thermal energy to kinetic energy. The inlet steam enters the outer casing (1) through the HP stop and the first plurality of control valves in the steam chest (2), and enters the HP inner casing (6). It expands through the reaction blading in the inner casing, and exits the outer casing to the boiler for reheat. The reheat steam enters the IP stop and a second plurality of control valves (3), then the IP inner casing (7) and expands through the reaction blading in the IP inner casing (7) and the guide blade carriers (8). It then expands in the LP guide wheels (5), and exits through the exhaust hood (4). The energy of the steam is converted to kinetic energy as the rotor (9) rotates and drives the driven machine.
This invention relates to a cooling jar (1) for cooling liquids, comprising a cylinder (2) with a plurality of tubes (3,3,3 etc.) inserted therein and detachably fixed to cylinder, said tube being provided with cap and having interposed therein, a breakable partition structure (7), each of said partition structures defining at least two compartments (9), different cooling chemicals being provided in adjacent compartments.

No. of Pages: 10 No. of Claims: 8
The present invention relates to synthetic ester compositions, and to dielectric fluid compositions containing them, as well as to methods of manufacturing the ester compositions and dielectric fluid compositions containing them, and to an electrical apparatus containing the dielectric fluid compositions.
The Patent Office Journal 10/03/2017

Title of the invention: A PROCESS FOR DYEING SILK WITH LAC DYE

(57) Abstract:
This invention relates to a process for dyeing silk with lac dye comprising steps of: degumming of silk yarns/fabrics using H2O2 and soap; bleaching said silk using H2O2 mordanting and dyeing followed by soaping.

No. of Pages: 15  No. of Claims: 9
A photographing optical lens assembly includes lens elements including, in order from an object to an image side, a first lens group, a second lens group and a third lens group. The first lens group includes a first lens element and a second lens element. The second lens group includes a third lens element, a fourth lens element and a fifth lens element. The third lens group includes a sixth lens element, a seventh lens element and an eighth lens element. The first lens element has positive refractive power. The seventh lens element has an object-side surface and an image-side surface being both aspheric. The eighth lens element has an image-side surface being concave in a paraxial region thereof, wherein both an object-side surface and the image-side surface thereof are aspheric, and the image-side surface of the eighth lens element has at least one reflection point. FIG. 1.
Title of the invention: INTELLIGENT AIR CONDITIONER CONTROLLER

Abstract:
It is observed that in many air conditioned systems the air conditioning compressor motor is energized in spite of the ambient air temperature being equal or lower than the set point temperature of the conditioned space. The present invention is a unique and innovative method to conserve electrical energy (through energy efficiency improvement of window, split, central or any other air conditioning system) through the optimal usage of ambient energy for cooling wherever it is thermodynamically feasible as follows:
Whenever the ambient temperature is equal to or lower than the conditioned space set point temperature, the instrument decides to switch on the air fans. Further if the operating time is programmed well in advance (say 10 hours in advance), it searches for the 4-5 hour time period prior to the operating schedule time for instance of ambient temperature being low and switches on the air fans at that time to cool the conditioned space as an advanced step.

No. of Pages: 44
No. of Claims: 9
# Patent Application Publication

**Title of the invention:** MECHANICAL REFRIGERATOR

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| (51) | International classification: F25D29/00 |
| (31) | Priority Document No: 10-2015-0126592 |
| (32) | Priority Date: 07/09/2015 |
| (33) | Name of priority country: Republic of Korea |
| (36) | Priority Date: 07/09/2015 |
| (43) | Publication Date: 10/03/2017 |
| (54) | Title of the invention: MECHANICAL REFRIGERATOR |
| (71) | Name of Applicant: 1) LG ELECTRONICS INC. |
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| (72) | Name of Inventor: 1) JINSEOK HU |
| (86) | International Application No: NA |
| (87) | International Publication No: NA |
| (61) | Patent of Addition to Application Number: NA |
| (62) | Divisional to Application Number: NA |

**Abstract:**

A mechanical refrigerator including a main body forming a storage space; an inverter compressor compressing a refrigerant; a microprocessor controlling drive of the compressor; a thermostat, which is connected to a power supply and switched on or switched off according to changes in a temperature of the storage space; a power detection circuit, which is connected to the power supply and the thermostat electrically, and configured to switch on or off the microprocessor according to a status of the thermostat; and a power circuit connected to the power supply and the microprocessor and configured to supply power for driving the compressor to the microprocessor.

No. of Pages: 20
No. of Claims: 15
**Title of the invention:** EASY-MODI-FIXTURE FOR MANUFACTURE OF AIR PREHEATER COMPONENTS

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**Name of Inventor:**
1) PITCHANDI SENTHIL MURGAN

**Abstract:**
Fixture (A) for manufacturing connecting plate assembly of air preheaters comprising a plurality of fitters bars (03) which are grouted on the concrete shop floor and levelled, a plurality of fixture beams (01) with adequate stiffners (02) being positioned on said fitters bars and firmly secured to the fitters bars by clamps (04), T-bolts (05) and nuts (06), characterized in that the fixture (A) is fabricated without any welding to facilitate its easy dismantling or modification.

No. of Pages: 10, No. of Claims: 4
A synergistic hair care composition to provide combination of antidandruff activity with keratolytic activity and conditioning properties. The synergistic keratolytic action is delivered by using encapsulated proteolytic enzyme such as papain in amount from about 0.001-5%, in combination with antifungal agent such as zinc pyrithion from about 0.1 to 5% along with a stabilizing agent as Glycosphere and a cosmetic base in hair cleansing and conditioning composition. A method of cleansing and conditioning the hair comprising applying to the hair and scalp and effective amount of the said composition.
The invention relates to methods of using compositions comprising EPO-mimetic peptides to treat anemia. The invention relates to methods of treating disorders characterized by the insufficient amounts of erythrocytes and hemoglobin in the blood due to myelodysplastic syndrome (MDS) or by hemoglobinopathies, such as alpha- or beta-thalassemia or sickle cell disease.

No. of Pages: 57 No. of Claims: 10
Title of the invention: ULTRA-SENSITIVE SIMULTANEOUS ELECTROCHEMICAL DETERMINATION OF ARSENIC, MERCURY AND COPPER

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<td>Address of Applicant: KARAGPUR West Bengal India</td>
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<td>Name of Inventor: 1) C. RETNA RAJ 2) BIKASH KUMAR JENA</td>
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<td>: NA</td>
<td>No. of Pages: 25 No. of Claims: 15</td>
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Abstract:
A sensor for the simultaneous detection of inorganic contaminants, As (III), Hg (II) and Cu (II) of water and having a limit of detection of 0.02 ppb, comprising a conducting support with a layer of three dimensional silica network with thiol tail groups immobilized with citrate stabilized gold nanoparticles, the gold particles having a size in the range of 70 to 100 nm.
The Patent Office Journal 10/03/2017

**Title of the invention:** A READY TO COOK INSTANT COOKING INDIAN NON VEGETARIAN PREPARATIONS

**Abstract:**
This invention relates to a ready to cook instant cooking Indian non-vegetarian preparation comprising of: a) 60-90% of freeze dried &/or vacuum fried non-vegetarian food; b) 5 to 10% by weight of salt, spices, preservatives, emulsifiers, milk products, dry fruits, dry fruit powder & condiments; and c) 10 to 30% by weight of frozen and dried/otherwise dried vegetable additives.

No. of Pages : 6  No. of Claims : 4
A motor generally includes a housing, a cover, and a cooling fan. The cover defines multiple first inlet holes and is provided with an air collecting ring around the first inlet holes for collecting some of the air current generated by the cooling fan. Furthermore, the cover is provided with multiple wind-catching projections. The housing defines multiple second inlet holes near its opening. The cover is installed to the housing such that the wind-catching projections are respectively located above the second inlet holes of the housing, so as to collect some of the air current. Furthermore, multiple recesses are defined between the wind-catching projections, so that some of the air current may flow along the outer surface of the housing via the recesses to further cool down the housing.

No. of Pages : 25 No. of Claims : 5
Title of the invention: A METHOD FOR COMPRESSING IMAGE WITH ROIS FOR IMAGE TRANSMISSION / STORAGE

Abstract:
A method for compressing image with irregular shaped ROIs (region of interest) for image transmission / storage comprising the steps of: - displaying an image on a touch sensitive electronic visual display device; - marking a part of the image as ROI in a closed loop; - obtaining frame size details and applying boundary detection and extraction algorithm on the image followed by a threshold setting based algorithm classifying the image as a ROI; - compressing the data for compression with ROI and non ROI (background) portions encoded with different bit rates; and - storing the ROI detected compressed data or transmitting said data to other network / device.
The present invention relates to a device (1) for replacing the printing roller (130) in a printing unit (2) in particular for in line rotary flexographic machines.
The present disclosure relates to a home appliance. The home appliance includes a dispensing port, a heating flow path part communicating with the dispensing port, a heating device for heating water flowing through the heating flow path part, and a controller controlling the heating device. The heating device includes a coil part in which coils are stacked in multilayers.
**Title of the invention:** INNOVATIVE PROCESS FOR ASSEMBLY OF SOLID MEMBRANE BASED HIGH TEMPERATURE FUEL CELLS FOR TESTING AND REPEATED USE

**Abstract:**

According to the invention the application of a compressive load for sealing the interconnect and the metal frame independent of the fuel cell is made possible. Thus, it is possible to apply high compressive load to the seal rendering it to be most effective. This also eliminates the risk of breaking the comparatively fragile ceramic cells by delinking them. Further, provisions for pockets of volume around the seal or the gas distribution line is arranged so that inert gas such as Nitrogen can be easily purged in that pocket to create sufficient pressure, and eliminate the possibility of mix-up of the fuel and oxidant gases during the high operation of the cell. The present invention discloses an effective use of the ceramic inserts to facilitate loading of the seals with high compressive loads at high temperature. The use of high temperature ceramic mat is also first time disclosed in this patent application which facilitates an effective sealing at high temperature and further maintains mechanical stability at elevated temperatures due to the special expansive properties of the ceramic mats at high temperatures. Both the ceramic inserts and ceramic mats disclosed herein, are capable of are electrically insulating thereby providing easy electrical isolations of the interconnect, anode, cathodes during the production of electricity by the cell. The device of the invention allows application of compressive load at the bottom interconnect plate seal placed on the metal frame. The invention allows non-destructive testing of one or more fuel cells including repeated use of the fuel cells for other applications.
The invention relates to a method for producing cores and molds for the foundry industry, wherein a flowable fire-resistant primary molding material is provided. An acid is applied to the flowable fire-resistant primary molding material, thus obtaining an acid-coated fire-resistant primary molding material. A binder that can be cured by acid is applied to the acid-coated fire-resistant primary molding material, thus obtaining a fire-resistant primary molding material coated with a binder. The fire-resistant primary molding material coated with a binder is molded into a molded body, and the molded body is cured, wherein the acid is a mixture of methane sulfonic acid and at least one further sulfur-free acid. The invention further relates to a mold material mixture as it is used in said method. With the method or the mold material mixture, casting molds can be produced having reduced emission of harmful compounds during casting.
Title of the invention: AN EFFICIENT METHOD AND SYSTEM FOR CARRIER FREQUENCY OFFSET ESTIMATION AND CORRECTION FOR MIMO-OFDM SYSTEMS

Abstract:
In order to address the limitations of the prior art, a null subcarrier based CFO estimation technique for MIMO-OFDM is provided which is efficient in terms of bandwidth overhead and computational complexity. The invention further provides a Fibonacci series based logic for allocating null subcarriers in the training OFDM symbols on each of the transmitting antennas, which ensures full frequency offset acquisition range equal to the OFDM bandwidth, without any ambiguity. A preferred embodiment of the inventive system comprises a MIMO-OFDM transmitter with $N_t$ transmit antennas where the number of transmit antennas are decided by the order of space-time encoding scheme used, with each transmit branch processes a block of space-time data coming from a space-time encoder and each of these frequency domain blocks of size $N$ samples are transformed into time domain signals by separate $N$ point IDFTs and copy the last $L$ samples on each branch to the beginning of the time domain OFDM symbols and such signals from all the transmit branches are further processed to meet the RF requirements and transmitted. Such $K$ number of OFDM symbols is commonly denoted as an OFDM frame with the first OFDM symbol in the frame on each transmit antennas denoted as beacon symbols are specially generated by imposing specific subcarriers as null subcarriers before the IDFT operation, whose locations are specified by a modified Fibonacci sequence so as to help estimation of carrier frequency offset at the receiver and the remaining subcarriers in the beacon symbol are used for useful data transmission along with other OFDM symbols in the frame thus resulting in enhanced bandwidth efficiency.
A rescue device for marooned victims consists of a pair of holding arms (10, 100) for holding the victims and a pair of seating arms (11, 110) for providing seating facility to the victim. A motor (20) mounted on top of holding arms (10, 100) moves arms (10, 100) and (11, 110) in a direction opposite to each other. The two pair of arms (10, 100) and (11, 110) rotate co-axially around main holding bar (40) in directions opposite to each other whenever motor (20) is activated without destabilizing the suspension above, wherein the holding arms (10, 100) are closed in for holding the victims body by the arc or V shaped structures (30, 300) when the seating arms (11, 110) are closed in for providing a seating facility (16) through electrical means (50) and lock (51). Fig.1
CONTROL METHOD FOR LAUNDRY TREATMENT APPARATUS

Disclosed is a control method for a laundry treatment apparatus, including supplying water to a first reservoir, and primarily washing the first reservoir and a second reservoir by rotating at least one of a pulsator and the second reservoir. The primary reservoir washing operation includes a first motion to rotate the pulsator so as to produce a water stream, and a second motion to rotate the second reservoir so as to cause water to move upward along a space between an inner circumferential surface of the first reservoir and an outer circumferential surface of the second reservoir and then be introduced into the second reservoir through the second opening.

No. of Pages : 29 No. of Claims : 18
The Patent Office Journal 10/03/2017

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(54) Title of the invention : ENZYMATIC TRANSESTERIFICATION OF SIMARUBA OIL

(51) International classification :C10L10/00
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(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 :
1)INDIAN INSTITUTE OF TECHNOLOGY
Address of Applicant :KHARAGPUR-721302, WEST BENGAL, INDIA
(72)Name of Inventor :
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2)ANNAPURNA KUMARI
3)PARAMITA MAHAPATRA
4)GARLAPATI VIJAY KUMAR
5)RAVI KANT
6)P. DAS

(57) Abstract :
This invention relates to a process for the preparation of biodiesel from vegetable oils comprising the step of conducting a transesterification reaction of the oil with alcohol in a solvent, wherein the transesterification reaction is carried out in the presence of an immobilized lipase enzyme.

No. of Pages : 18 No. of Claims : 12
Title of the invention: PHOTOGRAPHING OPTICAL LENS ASSEMBLY, IMAGE CAPTURING UNIT AND ELECTRONIC DEVICE

Abstract:
ABSTRACT Title: PHOTOGRAPHING OPTICAL LENS ASSEMBLY, IMAGE CAPTURING UNIT AND ELECTRONIC DEVICE. A photographing optical lens assembly includes, 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 with negative refractive power has an image-side surface being concave in a paraxial region thereof. The fourth lens element has an image-side surface being concave in a paraxial region thereof. The sixth lens element with negative refractive power has an object-side surface being concave in a paraxial region thereof and an image-side surface being concave in a paraxial region thereof, wherein the image-side surface of the sixth lens element has at least one convex shape in an off-axis region thereof, and both two surfaces thereof are aspheric. The first through sixth lens element are all single and non-cemented lens elements. FIG. 1.
APPLICATION FOR RESTORATION OF LAPSED PATENT U/S 60 :
PUBLICATION U/S 61(1) RULE 84(3) (DELHI)

Controller is *prima facie* satisfied that in following matter(s), the failure to pay the renewal fees was unintentional and that there has been no undue delay in the making of the application for restoration of lapsed patent in prescribed manner. Notice is hereby given that any person interested in opposing the application for restoration of following lapsed patent(s) at any time within two months from the date of this publication may give notice to the Controller of opposition thereto on either or both of the following grounds, that is to say.--

(a) That the failure to pay the renewal fees was not unintentional; or

(b) That there has been undue delay in the making of the application.

Statement of the applicant in Form-15 and other documents filed during prosecution may be referred from file records. This opposition notice is to be filed in Form-14 with prescribed fees given in The FIRST SCHEDULE (See rule 7) FEES (Entry no 21).

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**Publication Under Section 43(2) in Respect of the Grant**

Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed...

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## Publication Under Section 43(2) in Respect of the Grant

Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed form.

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### Publication Under Section 43(2) in Respect of the Grant

Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed

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## Publication Under Section 43(2) in Respect of the Grant

Following Patents have been granted and any person interested in opposing these patents under Section 25(2) may at any time within one year from the date of this issue, give notice to the Controller of Patents at the appropriate office, on the prescribed

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