Methods, systems, and apparatus, including computer programs encoded on computer storage media, for an automated enterprise content management (ECM) migrator. One of the methods includes generating, by an enterprise content management process migration engine (ePME), a migration profile for migrating data from a first ECM system to a second ECM system. Determining content to extract associated with a process template from the first ECM system. Identifying at least one process and at least one activity associated with the at least one process associated with the process template. Determining at least one classification associated with the at least one process activity in the process template. Generating a database in the second ECM system storing each of the at least one process, the at least one activity, and the associated at least one classification from the template. Validating a successful transaction between the first ECM system and the second ECM system.
Title of the invention: KUMKUMADI THAILAM WITH LOTUS & ROSE FLOWER

Abstract:
The extracts Lotus and Rose flowers if added to eladi oil for better effect to facial massage also come under our invention.

No. of Pages: 3 No. of Claims: 2
(54) Title of the invention: SYNERGISTIC ANTI-INFLAMMATORY ACTIVITY OF AERVA LANATA, BOERHAVIA DIFFUSA AND MURRAYA KOENIGII

(51) International classification: A61K 8/97

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

(86) International Application No: NA
(87) International Publication No: NA
(60) Patent of Addition to Application Number: NA
(61) Patent of Addition to Application Number: NA
(62) Divisional to Application Number: NA
(63) Divisional to Application Number: NA
(64) Divisional to Application Number: NA
(65) Divisional to Application Number: NA
(66) Divisional to Application Number: NA
(67) Divisional to Application Number: NA
(68) Divisional to Application Number: NA
(69) Divisional to Application Number: NA
(70) Divisional to Application Number: NA
(71) Name of Applicant: MEDIKONDA SAI KUSUMA
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(72) Name of Inventor: MEDIKONDA SAI KUSUMA
ARULSAMY ELPHINE PRABAHAR
NETTUM KEERTHI JENYA
RAMA RAO NADENDLA

(57) Abstract:
ON CM ABSTRACT Synergistic herbal formulation for the management of Inflammation and detoxification of human body with dried, powdered, pharmaceutically acceptable vehicle extract of selected herbs, wherein the said selected herbs are Aerva lanata, Boerhavia diffusa, and Murraya koenigii in a suitable dosage form which may be administered orally. The herbal composition of the present invention through in-vitro testing has found to possess anti-inflammatory, anti-Hpoxygenase and anti-oxidant activity at different dose ranges. The results obtained from the testing indicate the formulation as a potential source of anti-inflammatory and anti-oxidant agents.
The present disclosure relates to the field of mixing and dispensing apparatuses. A mixing and dispensing apparatus of the present disclosure facilitates automatic mixing and dispensing of a semi-liquid form of a powder material when mixed with a fluid. The apparatus comprises a mechanism to hold and rotate a cartridge, an actuation device, and an injection unit. The cartridge consists of the powder material to be mixed with the fluid. The mechanism rotates the cartridge about a primary axis of rotation and a secondary axis of rotation to uniformly mix the powder material with the fluid. The actuation device performs a piercing stroke to pierce one end of cartridge, and a dispensing stroke to dispense the semi-liquid form of the powder material through other end of the cartridge. Further, the injection unit is disposed within the actuation device to inject a pre-determined quantity of fluid following piercing stroke. Figure 1

No. of Pages : 28 No. of Claims : 17
(54) Title of the invention: A LOADING AND UNLOADING SYSTEM FOR TRUCKS

(51) International classification: B60P1/02; B60P3/077; B65G67/02

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

(86) International Application No
Filing Date: NA

(87) International Publication No
Filing Date: NA

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

(62) Divisional to Application Number
Filing Date: NA

(57) Abstract:
[0033] The invention relates to a loading and unloading system for a truck having a body with a floor, sidewalls, and a tail gate, the system comprising: a ramp, a compartment to store the ramp formed above the floor of the truck body. The ramp is disposed in the compartment in a stored position and slidable to extend outward from the compartment through an opening at the tail end of the floor. (FIG 6)

No. of Pages: 11 No. of Claims: 3
The invention relates to a fastener for fastening a trim to a body panel of a vehicle wherein a cushion material (4) over molds the plastic clip (2) and adhesion of the cushion on the plastic clip (2) occurs with chemical bonding process for compatible materials and both chemical and mechanical bonding process with non-compatible materials. Fig. 2d
Title of the invention: DETECTING OIL SPILLS THROUGH HIGH RESOLUTION SATELLITE IMAGES

| (51) International classification | :G06T7/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No Filing Date | :NA |
| (87) International Publication No Filing Date | :NA |
| (61) Patent of Addition to Application Number Filing Date | :NA |
| (62) Divisional to Application Number Filing Date | :NA |
| (71) Name of Applicant | 1) Ramya U |
| | Address of Applicant: #42&60, Avadi-Vel Tech Road, Chennai, Tamil Nadu, India - 600062 Tamil Nadu India |
| (72) Name of Inventor | 1) Ramya U |
| | 2) Sathya B |
| | 3) Nalina E |

Abstract:
The capabilities of single panchromatic satellite images on detecting oil spills and underwater natural oil outflows in oil potential areas. The new approach considers the symmetric nature of the circular oil depots, and it computes the radial symmetry in a unique way. We propose an automated thresholding method to focus on oil outflows regions and a new measure, oil support ratio, to verify detected oil outflows. Experiments are performed on GeoEye-1 test scenes, and the results reveal that the new approach is capable of detecting oil outflow with high success. An object-based method for oil spill detection using high or very high multispectral images has been developed. The developed method has been proved to work well in very high resolution satellite images such as IKONOS, Quick Bird, Rapid Eye, and WorldView2, as well as high resolution satellite images. When repeatedly applied on sequential multispectral imagery, the developed method can reveal potential natural underwater oil outflows.
The invention provides a system and method capable of building and seamlessly playing of content modules. In detail, the user application is configured to fetch content or data files in different formats from multiple sources and store it in separate memory locations. Further, the application allows the user to edit and enhance the content through adding annotations and voice recordings in sync with the collected data files in a pre-defined format and either upload it to the application platform or broadcast it directly to the viewers over application platform. The content modules may be viewed by the user or other person through the same application, which seamlessly play the content that makes it look like a video play. <Fig 1>
Method and system for managing operation based on devices context

ABSTRACT

Method and system for managing operation based on devices context. Embodiments herein disclose a method for managing operations based on devices context. The method includes detecting, by a first electronic device, a first input data. Further, the method includes receiving, by the first electronic device, a second input data from a second electronic device. Further, the method includes determining, by the first electronic device, the devices context based on the first input data and the second input data. In an embodiment, the devices context is a same hand context. In an embodiment, the devices context is a different hand context. Furthermore, the method includes causing, by the first electronic device, to perform an operation based on the determined devices context. FIG. 4

No. of Pages: 61 No. of Claims: 26
**Title of the invention:** METHOD AND SYSTEM FOR MANAGING AND DISPLAYING APPLICATION

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2) Abhishek Verma
3) Prabhat Kumar
4) Pranav Jadav
5) Shubham Jain
6) Abhishek Gogia

**Abstract:**
Method and system for managing and displaying application. Embodiments herein disclose a method to manage traversing across multiple user interface layers in a hierarchy of an application. The method includes causing, by a traverse manager, to display a first user interface layer of the application on a screen of the electronic device. Further, the method includes detecting, by the traverse manager, an input performed on a graphical element displayed within the first user interface layer to traverse to a second user interface layer of the application. Further, the method includes causing, by the traverse manager, to display a graphical user interface comprising the first user interface layer, the second user interface layer and at least one indicia indicating a relation between the first user interface layer and the second user interface layer on the screen of the electronic device in the hierarchy. FIG. 1b

No. of Pages: 82
No. of Claims: 16
METHODS FOR REDUCING THE POWER CONSUMPTION OF ELECTRONIC DEVICES WITH VISUAL DISPLAYS

No. of Pages : 28 No. of Claims : 6
**Title of the invention:** RESOURCE-EFFICIENT MACHINE LEARNING

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<td>1) MICROSOFT TECHNOLOGY LICENSING, LLC</td>
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<td>Address of Applicant: One Microsoft Way, Redmond, Washington 98052-6399, United States of America U.S.A.</td>
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<td>3) SUGGALA, Arun Sai</td>
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<td>4) GOYAL, Ankit</td>
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<td>5) Harsha Vardhan, SIMHADRI</td>
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**Abstract:**
AS ATTACHED

No. of Pages: 41 No. of Claims: 15
A method for operating a power generation system (100, 200, 300, 400) is presented. The method includes estimating, by a controller (176), at least one of a required load and input power of the doubly-fed induction generator (DFIG) (104) for a pre-determined future time duration. The method includes comparing, by the controller, the estimated at least one of the required load and the input power with a corresponding threshold value. Moreover, the method includes transitioning, by the controller, operation of the power generation system from a partial power conversion mode to a full power conversion mode by controlling switching of one or more of a plurality of switches if the estimated at least one of the required load and the input power is less than the corresponding threshold value, wherein the plurality of switches includes a first set of switches (156, 216) coupled to stator winding (218) of the DFIG.

No. of Pages : 46 No. of Claims : 22
A method (600) of imaging deeper tissues includes receiving (602) a plurality of response signals from an organ of a subject, by a plurality of transducer elements (104) of an ultrasound scanner in response to a transmitted beam emitted from the plurality of transducer elements (104). The method (600) further includes estimating (604) a distortion parameter corresponding to the location, based on the plurality of response signals. The method (600) further includes generating (606) a modified transmitted beam corresponding to the transmitted beam based on the distortion parameter. The method (600) also includes generating (608) a plurality of beamformed outputs corresponding to the plurality of locations based on a respective modified transmitted beam and a respective plurality of response signals. Further, the method (600) includes generating (610) a diagnostic image corresponding to the organ based on the plurality of beamformed outputs.
**Title of the invention:** CRYSTALLINE FORMS OF BRIGATINIB

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Address of Applicant: 8-2-337, Road No. 3, Banjara Hills, Hyderabad Telangana India

**Name of Inventor:**
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2) Vishweshwar Peddy
3) Deepika Pathivada

**Abstract:**
The present application relates to novel crystalline forms of Brigatinib and processes for preparation thereof.

No. of Pages: 14  No. of Claims: 7
**Title of the invention : A SKELETAL STRING COSTUME**

| (51) International classification       | :A41F15/00 |
| (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       |

**Abstract :**
The invention provides a skeletal string costume. This string costume helps in providing a solution to overcome the limitations of online shopping particularly of clothes and footwear. Plurality of strings are used to be put on various parts of body with each string having a motor to adjust the grip of the string based on set of commands received from a station having set of data base pertaining to the possible sizes of the various parts of a human body. Once the match occurs with the actual data of the body parts wearing the strings the set of data may be stored as a library and used to correctly select a product from on line vendor.
HOT AIRFLOW MANAGEMENT SYSTEMS AND METHODS FOR COOLERS

Coolers with airflow management systems are disclosed. The coolers may include a cabinet that has a door with a transparent section. A refrigeration unit may be coupled to the cabinet. The refrigeration unit has an airflow inlet and an airflow outlet. The cross sectional area of the airflow outlet may be less than the cross sectional area of the airflow inlet. The refrigeration unit may be fluidly coupled to an airflow management system that is in fluid communication with the airflow outlet. The airflow management system includes discharge vents and turbulence reduction vents.

No. of Pages : 23 No. of Claims : 20
Title of the invention : A DEVICE AND A PROCESS FOR DETERMINING THE COAGULATION TIME FOR BLOOD AND FOR EVALUATION OF PROTHROMBIN TIME (PT) AND INTERNATIONAL NORMALIZED RATIO (INR).

Abstract:
The present invention disclosed here is a portable device for measuring Prothrombin Time (PT) or clotting time of blood for determination of International Normalized Ratio (INR) by analyzing the stoppage of movement of blood at the time of clot using image processing techniques. The device consists of a blood contact surface, a camera, an electronic device to perform image processing consisting of a timer and a pixel counter. The blood contact surface has small channels or porous surface coated with clotting reagents where the blood can flow freely due to gravity or by capillary action and triggers the clotting process. The camera takes pictures of the blood flowing through the blood contact surface and gives to the device where the image processing is done. The device takes the images at regular intervals and compares an image with a previous image of one time interval before. The device checks for any variations in images of consecutive intervals and identifies the time when no change in consecutive images occurs as clotting time or prothrombin time of blood sample. From the time taken for the sample of blood to clot, INR is calculated. Fig.1.
A segmental brush holder with separate earth termination for DC motors. The present invention provides a segmental brush holder with separate earth termination for DC motors. The present invention comprises a metal steel insert in the brush holder for a first fixing onto the mounting bracket assembly. An anti-rotation slot is designed at one end of the segmental brush holder to locate the segmental brush holder onto the mounting bracket assembly. A platform is constructed at a mounting bracket to fix an earth plate. A semi-circular extended portion is designed at another end of the segmental brush holder to restrict the rotation of the brush holder while fastening onto the mounting bracket assembly. Pluralities of air vents are provided at the bottom to reduce the temperature of the brushes. The present invention eliminates arcing and the loose connection in the assembly. Also, the present invention reduces the brush temperature, thereby increasing the brush life. (Figure 1)
A device may receive data regarding a set of entities. The device may pre-process the data regarding the set of entities to convert a portion of the data from an unstructured format to a structured format. The device may generate a network representation of the data. The network representation may include a plurality of nodes representing characteristics of the data and a plurality of edges connecting at least some of the plurality of nodes and representing a relationship between each pair of connected nodes of the plurality of nodes. The device may automatically evaluate the network representation of the data to determine a set of recommendations relating to the set of entities. The device may generate a user interface to provide information identifying the set of recommendations. The device may communicate with a client device to cause the user interface to be provided for display via the client device.
### A REUSABLE CHARGE-TRANSFER BASED AGROGEL

**Title of the Invention**

- **International Classification**: C07C1/00; C07C237/10; C07C257/10
- **Publication Date**: 16/11/2018
- **Name of Applicant**:
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  2. Indian Institute Of Science
- **Address of Applicant**: P.B.No 2491, H.A. Farm Post, Bellary Road, Bangalore Karnataka India 560 024 Karnataka India

**Abstract**

The invention provides a method of obtaining a reusable charge-transfer (CT) based agrogel. The method includes selecting a first gelator (S)-methyl 2-(4-(pyren-1-yl)butanamido)-3-(1H-imidazol-4-yl)propanoate and a second gelator 2,4,7-trinitrofluorenone. At least one semiochemical is added to the first and the second gelator to obtain a mixture. Subsequent to obtaining mixture, the mixture is subjected to at least one cycle of heating and cooling to obtain a charge transfer (CT) based agrogel. The charge transfer gel thus obtained is reusable and has ability for a sustained release of the semiochemical by retaining the active agent for an extended period of time. The invention also provides a device for controlling pests.

**No. of Pages**: 42  **No. of Claims**: 19
The present invention relates to a novel bio-water train for cleaning heavily polluted water bodies back to its stable state with maximum removal of dissolved pollutants. Accordingly, a bio-water train for cleaning and purifying water bodies in a confined area, comprising an unmanned surface vessel drawing plurality of wagons, wherein the vessel comprising a pontoon pods supporting and carrying a platform having a propulsion unit at the tail end, and a processing unit on top surface for control and navigation of bio-water train; and the wagon connected to the vessel has a submerged filtering and disinfecting unit secured between a pair of pontoon pods, the filtering and disinfecting unit including a plurality of filters and a sterilization chamber for cleaning and purifying polluted water.
The present invention mainly relates to water pollutant tracking system to conduct layer by layer water quality monitoring. In one embodiment, the system including a body unit, wherein the body unit comprises of a catamaran hull (2.4m1.03m) made of durable and lightweight polyurethane foam (PUF) stuffed inside a PVC pipe which is further reinforced with fibre glass coating, thus making the floating part very stable, unsinkable and maintenance free, a rigid aluminium frame fixed over the catamaran hull which houses a sensor unit, propulsion unit, battery box, pump, a propulsion unit, wherein the propulsion unit comprising of a DC brushed trolling motor capable of producing thrust up to 36lbs, a steering manoeuvre using a windshield motor is converted to sprocket which acts as a chain drive mechanism for rotating the propulsion DC brushed motor and a rotary potentiometer for measuring the degree of rotation and accurate turning of the system, a control Unit, wherein the control unit comprising of switching mechanism and amplification using heavy duty relays, MOSFET, transistors and diodes controlled by a controller for perfect operational, a processing unit, wherein the processing unit comprising of sensor unit, and a microcontroller, where the sensor unit (PH, temperature, turbidity, Electric Conductivity, ORP, DO sensors etc.), used to detect the predetermined parameters which indicate the quality of water and a microcontroller with a task of signal digitizing, data transmission, networking management, a navigation unit, wherein the navigation unit is based on NMEA system to provide the exact coordinates (Latitude and Longitude) along with a wide angle long vision camera using first person view (FPW) (3.5 Km LOS on open waters) and a two way communication unit comprising GSM modem and a 2.4GHz wireless transceivers, wherein the communication unit transfers and receives the information to base station housing shore line computing device, control unit and also provide a backup if any one of the system fails to provide the data collected from the sensors to the base station.
### Title of the invention: CONNECTED CAMERA ARCHITECTURE FOR AUTOMOTIVE VISION APPLICATIONS

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2) Ravi Shenoy  
3) Soumik Ukil  
4) Krishna A G  
5) Gururaj Putraya  
6) Pushkar Patwardhan |

### Abstract:

ABSTRACT VEHICLE MONITORING SYSTEM AND METHOD USING A CONNECTED CAMERA ARCHITECTURE

The invention provides a system and method of monitoring a vehicle during commute. The system comprising of one or more camera modules in communication with one or more computation device. A camera module is configured to collect multiple data during the commute including video frames of one or more views, and location, position, direction, orientation, velocity and the combination thereof of the vehicle. The collected data is sent to a computation device where the data is analyzed to identify events and the same will be notified to one or more user device(s). In one embodiment, the communication between the computation device and the camera module may be carried out wirelessly via Wi-Fi where the camera module is configured to act in one or more modes of communication such as an access point (AP) mode or a station (STA) mode or Wi-Fi direct or the combination thereof.

FIG. 3A  

No. of Pages: 39  No. of Claims: 26
The present invention provides a system for establishing effective communication between doctor and patient. The system comprises a registration engine (102) through which both doctor and patient register themselves with the system using smartphone (101). After registration, a DPN (Doctor™s Private Number) is generated for doctor which can be shared with their patients. The patient can contact doctor using DPN or send an SMS (Short Message Service) to the system using SMS service engine (107). A telephonic conference is set up between doctor and patient using telephone conference call engine (103). A call engine (104) processes the call between doctor and patient. The payment can be done by the patient using a payment processing engine (105). The doctor is notified about the patient’s interest to talk to him through push notification using notification engine (106). (Figures 1 and 2)
The present invention relates to household plumbing and more particularly to the Waste Coupling fitted in the Wash Basins drainage system. In the Wash Basin drain hole of 40 mm, a coupling invariably made of M S Tube male threaded, C P coated and a thin brass nut of hexagonal shape is offered for providing waste line connection, like, hose pipe or bottle trap, PVC Pipe or PG Trap. The problems associated with this C P coupling are, (1) The coupling is not getting tightened by the nut for leak proof and the plumbers apply white cement to stop the leak. The male threads in the C P coated coupling gets rusted, warrants retrofit-of the coupling very often and in the process of removing the worn out coupling in the existing wash basin, the wash basin gets damaged.
(54) Title of the invention: POINT OF SALE SYSTEM

(51) International classification: G06Q20/20, G07G1/12, G07G1/10

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

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

(87) International Publication No: NA

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

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

(57) Abstract:
Point of sale system. A system (100) is provided for image enabled point of sale system. The system (100) comprises an image capturing module (212), an image processing module (312), a display module (314) and an image allocating module (316). The image capturing module (212) is configured to capture images. The image processing module (312) is configured to process one or more images captured by the image capturing module (212) and detect faces of one or more individuals present in the processed one or more images. The display module (314) is configured to display at least one picture depicting a face for at least one of the one or more individuals and display a plurality of billing windows. The image allocating module (316) is configured to associate one of the plurality of billing windows with the individual in the picture. Reference figure: FIG. 4

No. of Pages: 26 No. of Claims: 11
Title of the invention: A PRESSURE REGULATOR CUM WHISTLE COUNTER FOR A PRESSURE COOKER AND A PRESSURE COOKER WITH REGULATOR CUM WHISTLE COUNTER

Abstract:
This invention relates to a pressure release means which acts as a whistle counter means in a conventional pressure cooker. The pressure release plus counter means will have a detachable rotating and reciprocating portion (B) with a plurality of counter pins. It includes a stationary portion (A) mounted on the lid of the pressure cooker having plurality of grooves. The pins in (B) portion moves in the said grooves. A marked head cap portion (E) fixedly mounted on the portion (B) which will represent released whistles is based on the movement of pins. During the pressure build up inside the cooker, the portion (B) moves towards portion (A) and moves away from portion (A) during pressure release thereby moving relative with respect to head cap portion, which then becomes indicative of the number of pressure releases and thereby corresponding number of whistles generated. Fig 2
The present invention relates to a method of configuring an electromagnetic flowmeter and an electromagnetic flowmeter thereof. The method comprises: obtaining a first correlation factor between flow rate of fluid and potential for a calibrated condition of the electromagnetic flowmeter using a model; obtaining a second correlation factor between flow rate of fluid and potential for conditions of a site in which the electromagnetic flowmeter is installed using the model; comparing the first correlation factor and the second correlation factor to determine a difference in value and adopting the value of the second correlation factor for configuring the electromagnetic flowmeter if the difference in value exceeds a pre-set threshold. Figure 3
The present disclosure discloses a system and a method for controlling a Circuit Breaker (CB). The method comprises operating a breaker IED connected to a CB and subscribed to receive commands from a first control IED and a second control IED in a way that, when the second control IED fails to communicate with the breaker IED, the breaker IED receives commands from the first control IED to control the CB, when the second control IED fails to provide reference signals to the breaker IED, the breaker IED receives commands from the first control IED, when behavior of the CB is not stable, the breaker IED receives commands from the first control IED, until the behavior of the CB is stable. Figure 3
The present invention describes a method for minimizing power consumption in a user equipment (UE). The method includes electrically coupling a LPU with a HPU within the UE, receiving, by the UE, a request for capability information from a base station over PDSCH, transmitting, by the UE, the capability information to the base station over PUSCH for updating channel network, receiving, by the UE, a first signal from the base station for performing cell selection based on the capability information, performing, by the LPU, one or more RRC idle mode operations over at least one of NPDSCH to minimize the power consumption in the UE, receiving, by the UE, a paging message from the base station for switching up the UE from an RRC idle mode to an RRC connected mode, and transmitting, by the LPU, a second signal to the HPU to perform uplink transmissions with the base station.
A PROCESS FOR THE PREPARATION OF 4-FLUORO-2-METHOXY-5-NITROANILINE

The present invention is directed towards a process for the preparation of 4-fluoro-2-methoxy-5-nitroaniline (I) or salts thereof, wherein 4-fluoro-2-methoxy aniline (III) is protected to obtain N-protected-(4-fluoro-2-methoxy)aniline (VI), which is nitrated to obtain N-protected-(4-fluoro-2-methoxy-5-nitro)aniline (VII) and finally deprotected to obtain 4-fluoro-2-methoxy-5-nitroaniline (I) or salt thereof.
The present invention discloses a system and a method for protecting vegetation plants and crops from environmental conditions. The system comprises a solar laminate including a set of solar cell arrays in a matrix arrangement, a frame attached to the edges of the solar laminate to provide a structural support to the solar laminate, several pipes attached the solar laminate to provide a conduit for collecting a rainwater incident on the solar laminate, and several support rods attached to a lower surface of the solar laminate at predefined locations, and each support rod is configured to hold the solar laminate at a predefined inclination to a ground level. [FIG.1]

No. of Pages : 23 No. of Claims : 10
The present invention discloses a motorcycle helmet comprising a pair of halves connected by a concealed hinge provided along a vertical plane running along a top portion of the helmet. The hinge is configured to separate the pair of halves for opening the helmet and bring the pair of halves together for locking the helmet. The helmet includes a magnet rod fixed at a top portion of one half of the helmet at one end and attaches to another half of the helmet in another end during the locking of the helmet. A fastener comprising a magnet lock attached to the one half and a magnet cap attached to the another half is provided to secure the pair of halves together upon locking the helmet. [FIG.1]
The present invention discloses a slicing machine for slicing food. The slicing machine comprises a machine frame, with a plurality of blades mounted on a lower portion of the machine frame. A selector switch is configured to choose a set of blades from the plurality of blades for slicing the food into a predefined slice size. A motor is configured to rotate the chosen set of blades for slicing the food into the predefined slice size. A plurality of rectangular slots is arranged in an upper portion of the machine frame. Each rectangular slot is mechanically linked to the chosen set of blades in a manner to adjust a size of the each rectangular slot according to the predefined slice size. The blades are configured to descale a seafood. [FIG.1]

No. of Pages : 25 No. of Claims : 10
(54) **Title of the invention : SOLID ORAL COMPOSITIONS OF ALKYL FUMARATES**

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<td>Filing Date</td>
<td>3) NARESH, Anaparty</td>
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(57) **Abstract :**
The present invention relates to oral pharmaceutical compositions of dimethyl fumarate or monomethyl fumarate. Particularly, the present invention relates to solid oral composition comprising dimethyl fumarate or monomethyl fumarate coated with carboxymethyl ethyl cellulose as a coating polymer and one or more pharmaceutically acceptable excipients.

No. of Pages : 13 No. of Claims : 8
The Patent Office Journal No. 46/2018 Dated 16/11/2018

| (51) International classification | F02B 57/06 |
| (31) Priority Document No | NA |
| (32) Priority Date | NA |
| (33) Name of priority country | NA |
| (61) Patent of Addition to Application Number | NA |
| Filing Date | NA |
| (62) Divisional to Application Number | NA |
| Filing Date | NA |

A four-stroke engine is an internal combustion engine in which the piston completes four separate strokes while rotating a crankshaft. In conventional engine all the four strokes happen in same cylinder however in the embodiment envisaged here the intake stroke & compression strokes are separated from combustion & exhaust stroke and designed to happen in two separate interconnected cylinders. The cylinders have free pistons. The power generated by the engine is transferred to an incompressible fluid. The engine has triplet or three units of such paired cylinders or duplets. Each duplet unit in the triplet is connected to other by net work of conduits for transfer of energy and for transfer of incompressible working fluid from one cylinder to another. The energy released in one duplet of cylinders during power stroke is transferred to other duplet/duplets by pumping out the incompressible fluid to bring about intake and exhaust stroke. The part of energy transferred is stored in a gas spring during the intake stroke and used to bring about compression stroke subsequently. The energy released in combustion of fuel from all the three duplets in systematic sequence is used for doing useful work.

No. of Pages : 16 No. of Claims : 4
Abstract:
ABSTRACT [0093] A system for connecting an embedded device to a network is provided. The system includes a first device configured for communicating network credentials to a second device. The second device is the embedded device. The first device is configured to enable a user to input the network credentials pertaining to the network, encode the network credentials into one or more data signals, transmit optically, one or more encoded data signals to the second device and also transmit optically, a sync signal simultaneously along with the one or more encoded data signals. The second device comprises a receiver for receiving optically, two or more signals. The two or more signals include the sync signal and the one or more encoded data signals from the first device. The second device is configured to decode using the sync signal the one or more received encoded data signals to obtain network credentials of the network and connect the second device to the network based on decoded network credentials.

No. of Pages: 32 No. of Claims: 15
METHODS AND SYSTEMS THAT VERIFY ENDPOINTS AND EXTERNAL TASKS IN RELEASE-PIPELINE PRIOR TO EXECUTION

Abstract:
The current document is directed to automated application-release-management facilities that, in a described implementation, coordinate continuous development and release of cloud-computing applications. The application-release-management process is specified, in the described implementation, by application-release-management pipelines, each pipeline comprising one or more stages, with each stage comprising one or more tasks. The currently described methods and systems check whether endpoints and external tasks are reachable prior to initiating execution of application-release-management pipelines. Automatic reachability checking is scheduled for idle intervals, when the workflow-execution-engine component of the automated application-release-management facility is not executing release pipelines. [Figure 3]
A hybrid power generator assembly for hybrid generation of electricity is disclosed herein includes one or more windmills (102A-N) and a power generation unit. One or more first bevel gear assemblies (104A-N) transfer a first horizontal rotation generated from the one or more windmills (102A-N) to a first vertical rotation of one or more vertical rotating shafts (106A-N). The power generation unit is located on ground includes one or more second bevel gear assemblies (108A-N) and a generator (110). The one or more second bevel gear assemblies (108A-N) transfer the first vertical rotation from the one or more vertical rotating shafts (106A-N) to a second horizontal rotation of a common horizontal rotating shaft (112). The common horizontal rotating shaft (112) includes one or more horizontal rotating shafts. The generator is coupled to the common horizontal rotating shaft (112) to generate a rotational power based on the second horizontal rotation.
The Patent Office Journal No. 46/2018 Dated 16/11/2018

Title of the invention: SYTSEM AND METHOD FOR WIDE RANGE WIRELESS POWER TRANSFER TO REDUCE LOSSES

Abstract:
Present invention relates to a non-radiative or near-field wireless energy transfer that is capable of transmitting power over wide-range distances and conjunction offsets. This inventive technique uses combination of inductive coupling and resonance to transfer power from a power supply to a power drain. The invention provides a wireless charging arrangement that accommodates flexible placement and orientation for disposing power through furniture, buildings, vehicles or the like for convenient and unobtrusive usage.

No. of Pages: 12 No. of Claims: 8
The present invention describes a system and method that senses human proximity with the help of a Camera 16 and a doorbell without using any hardware sensors. The facility is given to users to select a region of interest which describes proximity. The Camera 16 linked to the doorbell senses the motion by capturing images and videos of the Field of View (FOV). The de-warped image 17 from the Camera 16 has to be obtained, and a primary motion detection process is applied. The process analyses the region of motion and the proximity to the Camera 16. Weights have to be assigned to the individual sub-regions, based on a scheme such as the binomial coefficients 15 from Pascal's triangle. If there is a motion, then the proximity level is equal to the function of which adjacent or connected sub-regions in a Camera FoV rectangle have motion.
Title of the invention : SYSTEM AND METHOD TO OPTIMIZE WEB REAL-TIME PEER TO PEER COMMUNICATION CONNECTION ESTABLISHMENT

International classification : G06F 15/00

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

International Application No : NA
Filing Date : NA

International Publication No : NA

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

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3) NITEESH KUMAR

Abstract :
The present invention describes a system and method that optimizes Web Real-Time Communication (WebRTC) to communicate between a doorbell 3 and mobile devices (5a, 5b, 5c) of registered users, whenever there is motion detected or the doorbell 3 rings. The notification is triggered through an Internet 1 via WiFi (4a, 4b) and home WiFi router 2, to all the registered users on their mobiles (5a, 5b, 5c). As soon as the mobiles (5a, 5b, 5c) receive the notification, they start ringing simultaneously in all the registered users mobile (5a, 5b, 5c). All users get a video call simultaneously, one who picks up first get the priority. When the first user picks up, a message is sent through a signaling channel via WiFi (4a, 4b) on the Internet Cloud 1 to the doorbell 3 device to enable both audio and video and, that user could talk to the doorbell 3 device. Figure 1

No. of Pages : 13 No. of Claims : 7
Title of the invention : EFFICIENT SYSTEM TO UTILIZE WEB REAL-TIME PEER TO PEER COMMUNICATION

Abstract:
The present invention is a system and a method to efficiently utilize Web Real-Time Peer to Peer Communication in intelligent, smart doorbell (surebell) and has simultaneous sessions to improve efficiency and time. Every multimedia communication could pass through the Internet server that could increase delay and cost of the service provider. To minimize both, it is essential to use Peer to Peer (P2P) technology, and also the multimedia communication between the doorbell and the mobile application is encrypted. Whenever, there is motion or doorbell press notification, the mobile (5a, 5b) are notified through the Internet Cloud 3. The Peer to Peer (P2P) media channel 4 takes care of the whole setup, for getting the notification and negotiating the call. The mobile (5a, 5b), the user has the option to start a call with the doorbell 1 to see, talk, or to listen to the person in front of the doorbell. Figure 1.
Title of the invention: FUTRO

Abstract:
ABSTRACT (Abstract of the invention) An electronic device named FUTRO which is to be fitted along with a trolley to identify the products collected in the trolley and display its details. It also provides option for deletion of an unwanted item purchased. It shows advertisements on products and also shows current offers available in the store. Provides automatic billing system for the elimination of queue and hasslement by transferring the data of collected items in the trolley to the billing counter via WiFi. Which enables pay n go method for the customers.
Abstract Counting coins manually everyday can be tiresome and tedious task. It is also a great waste of valuable time if your business deals with payment as coins such as laundry, stationary, grocery shop and hence manually counting the coins from your daily sales, most likely may take up a lot of time. Technology has advanced so far that counting coins evolved from manual handpicking and sorting to table top counting. Though it is unable to sort the coins according to its value, it is still widely used in businesses where coins are effectively gained especially during their peak sales. The table top coin counter would give the number of coins gained but manual handpicking has to be done for sorting the coins. To save the time and effort in counting the coins from daily sales and to ease the process of coin sorting, has built a revolutionarly product named CoiSort that will solve all the problems arisen due to the coin counting and sorting. Coins can be sorted in less time and sealed into packets at a faster pace. This would increase the efficiency and decrease the time taken to complete the process. Unlike the conventional coin sorters which are available in India that either do the sorting using the conventional methods which is analyzing the weight and size of the coin. Now when we try to sort the coin using the weight, the possibility of the error is high because when coming to some of the special edition coins, the weight and size may contradict to each other. Now when the coin is being sorted using the size and weight, it can only be done in multistage processing. If we plan to scale up the quantity, each stage must keep apart each of the system. Thus the whole system becomes more bulky and consumes large volume. The main speciality of our system is, it is a silent worker. When we develop a product, our main aim must be also suiting the product in the right surroundings. And this product is kept in a place where people need silence. And the kind of materials the CoiSort deals with is extremely noisy in nature. Thus we have designed this product in such a way that no voice is produced from the product. The tardet customers are temples, churches and mosque where people and priest spend the time in prayers and chanting. Here we can keep this beside or beneath the place where we submit the coins. It consumes very little power as the conventional mechanical system is replaced with smart electronic components and less power rated open-close and dashing mechanisms. The whole systems runs with less torque stepper and few servo: motors, with a microcontroller powered in. The ability of the system to pack and seal adds as one of the major advantage of its user friendly nature. The reason for which they sort the coin is because they need to convert the denomination and get the money to bank or to their locker in higher denomination. Now what if we sort the coin and convert into packets of 100 and 1000 coins. The packets will be made of tough plastic. The packets are reusable, i.e. we can re-supply the bag into the product and get more coins packets, without disturbing the environment.
Title of the invention: ROLLER STONE ASSEMBLY FOR GRINDERS

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Abstract:
A roller stone assembly (100) having at least two roller stones (110a, 110b) with a holding means (130) for holding the roller stone assembly (100) on a stone base (140) of a grinding drum (160) is disclosed. The roller stone assembly is configured to be accommodated over a central shaft (170) of the grinding drum (160) such that the at least two roller stones rotate. The roller stone assembly (100) comprises a wiper mechanism (150) coupled to the holding means (130). The disclosed roller stone assembly improves the grinding performance of the grinder.

No. of Pages: 22 No. of Claims: 10
The present invention is related to a method to determine the adequacy of treatment of papilledema using optical coherence tomography. The onset of papilledema and the adequacy of treatment values are determined by analyzing the area and or volume of the retinal nerve fiber layers and comparing them with predetermined thickness values of the retinal nerve fiber layers of the normal subjects under normal conditions.

No. of Pages : 10 No. of Claims : 6
ABSTRACT LOW COST CUTTER FOR CUTTING HOT BILLETS AND HOT PIPES WHILE IN MOTION

A low cost cutter for cutting hot billets and hot pipes has a driver (3) with co-axially mounted gear (13) coupled with gear (12) and gear (11). A motor (5) has cutter blade (6) mounted on its shaft. Motor platform (10) has a horizontal slider (7) and two vertical sliders (8) fixed at the ends of connecting links (9) mounted on the platform along with the motor. A rack-and-pinion arrangement (14) positioned in the lower part of the cutter assembly is operated by two spokes (4). The horizontal slider (7) has a spring for making it return to its starting position when cutting is over. The motor is imparted simultaneous horizontal and vertical motion by the horizontal slider (7) and vertical slider (8) respectively to enable the cutter to adapt to the motion of a continuously moving cast pipe (1) held between two rollers (2) and cut the pipe while it is in motion. FIG. 1
An eco friendly product derived from edible seaweed and its use in the process of treatment of dairy effluent is disclosed. In the first step, the product is prepared by heating or sonication of seaweed in water which causes activation of polysaccharides present in it. In the second step, pH of dairy effluent is brought to neutral (pH 7) using suitable alkali. In the third step, the product prepared in first step is added to dairy effluent (having pH 7), mixed thoroughly and allowed to settle for 6 to 10 h. It results in formation of floccules which may settle to bottom or float on top depending upon the concentration of product used. In the final step, the floccules formed can be separated from wastewater by filtration or centrifugation. It is possible to reduce organic matter from dairy wastewater by 90% using this process.
ABSTRACT SYSTEM FOR SIMULTANEOUS MULTI-POINT DYNAMIC PARAMETER MEASUREMENT IN DISTRIBUTED OPTICAL SENSING, AND METHODS THEREOF The present invention discloses a system and method to ascertain simultaneous multipoint dynamic strain or temperature variations in a long length of optical fiber using Brillouin Optical Correlation Domain Analysis (BOCDA) based on external phase modulation. The frequency modulation of pump and probe is achieved by using an optical phase modulator and an Arbitrary Waveform Generator (AWG) which helps in generating multiple independent correlation peaks within fiber under test and hence multiple locations can be examined simultaneously. Mapping of the correlation peak is done by gating the pump and also demonstrate its tunability across the sensing fiber.
**Title of the invention:** SYSTEM AND METHOD FOR MONITORING PLANTATION

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**Abstract:**
please refer the attachment

No. of Pages : 32 No. of Claims : 14
The present invention discloses a method for the detection of neutralizing antibodies in a biological sample wherein, the method mitigates interference due to high soluble target and drug levels substantially. The said method comprises a pre-treatment step of the samples that comprises target depletion and acid dissociation.

No. of Pages : 11 No. of Claims : 5
Title of the invention: METHOD OF DETECTING NEUTRALIZING ANTI-DRUG ANTIBODIES AGAINST BIO-THERAPEUTICS

Abstract:

The present invention discloses a method for the detection of neutralizing antibodies in a biological sample wherein, the method mitigates interference due to high soluble target and drug levels substantially. The said method comprises a pre-treatment step of the samples that comprises target depletion and acid dissociation.

No. of Pages: 12 No. of Claims: 5
**Title of the invention:** THIN AGENT-BASED SSL OFFLOADING

| (51) International classification | :H04L29/06 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :NA |
| Filing Date | :NA |
| (87) International Publication No | :NA |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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3) HRISHIKESH GHATNEKAR

**Abstract:**
THIN AGENT-BASED SSL OFFLOADING ABSTRACT Exemplary methods, apparatuses, and systems perform a secure socket layer (SSL) protocol initialization and maintenance on behalf of a virtual machine (VM). When a secure virtual machine (SVM) receives a data packet sent by an application running on a VM, the SVM transmits a request message to the VM to enable the VM to perform a handshake with a destination computer to initiate an encrypted session between the VM and the computer. Once the encrypted session is active, the SVM encrypts the data packet, and transmits the encrypted data packet to the VM to perform the transmission of the encrypted data packet to the destination server. [Figure 1]

No. of Pages: 28
No. of Claims: 10
The present invention relates to a novel process for the preparation of substantially pure Crisaborole (I).
Title of the invention: BIO-DEGRADABLE ANGSTROM VOIDS POLYMER (AVP) MATRIX AND ITS FORMULATION FOR A SLOW AND SUSTAINED RELEASE OF PHEROMONE

Abstract:
A PROCESS FOR PREPARATION OF BIO-DEGRADABLE ANGSTROM VOIDS POLYMER (AVP) MATRIX FOR A SLOW AND SUSTAINED RELEASE OF ONE MORE PHEROMONES AND PRODUCT THEREOF The present disclosure describes about bio-degradable angstrom voids polymer (AVP) matrix and its formulation for a slow and sustained release of pheromone. According to the invention, the pheromone formulated in AVP matrix provided in a sustained release dispenser. The formulation has prepared to cover an instant and extended release of the pheromone. In addition, the AVP matrix was protected from the degradation of UV light, moisture and high temperature by addition of UV blockers, moisture retainers, anti-oxidants, pH stabilizers, anti-microbial agent and surfactants. The AVP matrix and its formulation may be used in insect trapping devices to enable monitoring or mass trapping or the mating disruption for the entire period of pest emergence. Figure 1

No. of Pages: 32 No. of Claims: 19
Title of the invention : AIR DECONTAMINATION ASSEMBLY

Abstract:
An air decontamination device (100) comprising: an input unit (102); an output unit (103); and a decontamination unit (104) coupled at a first end (122) to the input unit (102) and coupled at a second end (124) to the output unit (103). The decontamination unit (104) comprises: pairs of conducting plates (108), where one conducting plate of each pair is for being positively charged and the other conducting plate of each pair is for being negatively charged. The positively charged plate and negatively charged plate are separated to form an airflow path (212) and a 3D material (110) that is capable of being potentiated by static electric field is coupled to each side of conducting plate (108). When the static electric field is applied, the surface moieties of the 3D material (110) are realigned to a direction of the static electric field to potentiate the antimicrobial activity of the 3D material (110) for destroying the microbes present in the received air. FIG. 1a
**Title of the invention**: THREE WHEELED ELECTRIC POWERED PASSENGER VEHICLE

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**Abstract**: TRI WHEEL ELECTRIC POWERED PASSENGER VEHICLE is deemed under the L5 category of the CMRV in the motor vehicles act which is a fully electric powered vehicle and can run at a maximum speed of about 50km/hr. The design of the vehicle is improved in its front end with sharp edged head lamps and bent mirrors for better convenience to the driver. The vehicle is fitted with alloy wheels and the engine is a brushless DC motor mounted on the rear axle, which drives the rear wheels using dual speed gear mechanism and the engine is operable by turning the ignition key to ON position and a small safety switch on the right hand side of the handle, which activates after 3 seconds of ignition turned ON. The average running time of the vehicle for about 3 passengers load plus cargo is about 100 KM when the battery is fully charged.

No. of Pages : 15  No. of Claims : 10
(54) Title of the invention : SKATE BIKE

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7) Arjun Sridhar

(57) Abstract :
Abstract The invention provides a skate bike. The bike comprises single rear wheel, electric motor driving the rear wheel, a handlebar at the front end, the rider’s feet rest on skates forming a tadpole tricycle formation. The coupling of rear wheel by direct shaft or by chain. The combination of skates and rear wheel makes the configuration similar to a tadpole tricycle formation for balanced movement of skate bike. The speed of the bike is controlled by a throttle kit controlling the speed of the motor.
A system and method for detection of powerlines in aerial images is disclosed. The system for detection of a powerline in an aerial image comprises an image retrieval module to obtain at least one aerial image including the powerline, a binary classified image generation module to subject said at least one aerial image to a pixel-by-pixel analysis, a skeletonization module configured to effect skeletonization of said binary classified image to reduce objects of said at least one aerial image to a median line, a region growing module configured to apply region growing to restore continuity of the objects lost during the skeletonization, a geometric feature determination module to calculate shape index and density index for the powerline in the skeletonized image, and a powerline detection module configured to remove any non-powerline feature from the at least one aerial image.
The invention of the present application relates to crystalline forms of obeticholic acid and process for preparation thereof. Specifically, the invention of present application relates to crystalline forms VD1, VD2, VD3, VD4 and VD5 of obeticholic acid. Specifically, crystalline form VD2 is stable and has excellent physic-chemical properties. Crystalline form VD2 may be easily formulated into a pharmaceutical composition comprising obeticholic acid.
The invention relates to a secondary medical support system where the patient consults a doctor, termed as primary consultation, where the doctor diagnoses and gives a prescription for the illness. Both the doctor and patient have been connected to a server, where the doctor uploads the prescription of the patient and the patient uploads the data from the monitoring devices or other sources through a transmitter on the mobile. The doctor can access the reports made by the data received and can update the prescription for the patient if required, on secondary consultation to the patient. The patient and doctor can view the details on the Mobile Application which displays options like Records, Book appointment, Goals, Medicine, Prescription, Prescription and Reports, Vital and Chat. Figure 4
A data pipeline architecture is integrated with an analytics processing stack. The data pipeline architecture may receive incoming data streams from multiple diverse endpoint systems. The data pipeline architecture may include converter interface circuitry with multiple dynamic converters configured to convert the diverse incoming data stream into one or more interchange formats for processing by the analytics processing stack. The analytics processing stack may include multiple layers with insight processing layer circuitry above analysis layer circuitry. The analysis layer circuitry may control analytics models and rule application. The insight processing layer circuitry may monitor output from the analysis layer circuitry and generate insight adjustments responsive to rule changes and analytics model parameter changes produced at the analysis layer circuitry.

No. of Pages : 73 No. of Claims : 20
(54) Title of the invention : IMPROVED PROCESS FOR THE PREPARATION OF (S)-N-[2-(1,6,7,8-TETRAHYDRO-2H-INDENO-[5,4-B]FURAN-8-YL)ETH

(51) International classification :C07D307/00; C07D307/92; C07D307/93

(31) Priority Document No : NA

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(57) Abstract :
Abstract The present invention relates to an improved process for the preparation of (S)-N-[2-(1,6,7,8-TETRAHYDRO-2H-INDENO-[5,4-B]FURAN-8-YL)ETH] compound of formula-1, represented by the following structural formula:

No. of Pages : 20 No. of Claims : 10
The Patent Office Journal No. 46/2018 Dated 16/11/2018

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(21) Application No.201741016975 A

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(32) Priority Date: NA

(33) Name of priority country: NA

(36) Title of the invention: MOBILE PREPAID SOLUTION FOR ENERGY METERING

(43) Publication Date: 16/11/2018

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(51) International classification:

G07F15/00;
G06Q20/0652;
G06Q20/127;

(54) Abstract:

ABSTRACT A metering system for metering consumption of a commodity. The metering system enabling mobility based prepaid solution and event notification for energy metering. The metering system comprising a prepaid metering device, a mobile device, and a head-end system. The mobile device includes a mobile application configured to communicate with the meter and the head-end system to monitor, diagnose, register, and add credit to the prepaid metering device. The mobile application provides an automated solution for managing prepaid metering devices.

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No. of Pages: 28

No. of Claims: 6
ABSTRACT Method for estimating carrier frequency offset with timing synchronization in wireless receiver. Embodiments herein provide a method for estimating carrier frequency offset (CFO) with timing synchronization in a wireless receiver. The method includes receiving a plurality of analog-to-digital converter (ADC) samples. The method includes determining a coarse angle from the received ADC samples. The method includes altering the coarse angle based on a preamble duration to obtain an improved coarse angle. The method includes computing a base CFO estimate from the improved coarse angle. Furthermore, the method includes computing a plurality of candidate CFOs using the base CFO estimate and a difference frequency. Furthermore, the method includes estimating the CFO and the timing synchronization using the computed plurality of candidate CFOs. FIG. 3
The disclosure relates generally to an improved network planning and more particularly, to a system and method for planning capacities in a supply chain network for multiple time periods. In order to solve at least some of the above mentioned problems, there exists a need for a system and method for network and capacity planning within the supply chain for multiple time periods and echelons. Thus, the present disclosure solves the above problems by using a combination of heuristics and user-defined policies that are run using scripts.

No. of Pages : 37 No. of Claims : 9
The present invention describes a method for multimedia broadcast multicast services (MBMS) operation on demand (MooD) service. According to one embodiment, a quality of experience (QoE) processing server detects in a service region a first mode of transmission of at least one of an evolved MBMS (eMBMS) content associated with plurality of eMBMS services. The QoE processor then evaluates a quality of experience (QoE) for each eMBMS service from among a plurality of eMBMS services in the service region. Accordingly, the QoE processor switches the transmission of at least one of an eMBMS content to a second mode if their evaluated QoE is above a predetermined threshold. According to this embodiment, the first mode and the second mode of transmission corresponds to a unicast mode and broadcast mode respectively. Figure 3
A modification of a power boiler is disclosed, which comprises water walls enclosing the furnace for heating water and producing steam; a superheater system provided above the furnace for superheating steam; an additional superheater mounted in the furnace for further superheating steam from the superheater system. A modifying method of a power boiler is also disclosed, which comprises steps of mounting an additional superheater on water walls in a furnace; connecting an output of a superheater system to an inlet of the additional superheater; and connecting an outlet of the additional superheater to a turbine for producing power at an improved plant heat rate. (Fig.1)
The present invention relates to a plug with a plug housing (2) and an electrically conductive plug element (12) for a mating plug element. A vibration protection according to the present invention, which can be attached in a reliable manner, has a contact body (28) which cooperates with the plug element (12), and a slider (30) which is displaceably guided in a sliding guide (90) which is formed on the plug housing (2) and cooperates with the contact body (28) via a ramp surface (76) such that the contact body (28) is pushed against the plug element (12) when the slider (30) is slid into the plug housing (2). (Fig.4H)
A dual firmness vehicle seat and a method of forming the same is provided. In an embodiment, a vehicle seat assembly includes a seat bottom, and a seatback disposed on the seat bottom. At least one of the seat bottom and seatback includes a first cushion region having a first initial load deflection value, and a second cushion region having a second initial load deflection value different from the first initial load deflection value. The seat assembly further includes a non-continuous trench defined by and between the first cushion region and the second cushion region and having a base forming a cavity there between, and connecting regions disposed within the cavity above the base extending between the first and second cushion regions to inhibit flexing between the first and second cushion regions.
A memory system (100) configured to support internal data (DQ) termination of a data buffer (113, 123) is provided. The memory system (100) includes a first memory unit (110), which is a target memory unit accessed by an external device, and a second memory unit (120), which is a non-target memory unit not accessed by the external device. The second memory unit (120) performs the internal DQ termination on an internal data path during an internal operation mode in which data communication is performed by using the internal data path between internal memory chips. Signal reflection over the internal data path is reduced or prohibited due to the internal DQ termination, and thus, signal integrity is improved.
ABSTRACT Method and system for providing enhanced end-to-end security for user data in IMS network. Embodiments herein provide a method and system for providing enhanced end-to-end data security in IMS network. The method includes obtaining, by an initiator User Equipment (UE), a first key for encrypting the user data from a Key Management Server (KMS). The KMS is associated with an Original Equipment Manufacturer (OEM) of the initiator UE. The method includes obtaining, by the initiator UE, a second key from a Communication Service Provider (CSP) for encrypting the user data. Further, the method includes encrypting, by the initiator UE, the user data with the first key and the second key. Furthermore, the method includes transmitting the encrypted user data to one or more receiving UEs over a media plane. The data cannot be interpreted by any entity other than the LEA, though the data flows on CSP’s backbone, CSP cannot decrypt data as the keys are available with OEM KMS and the UEs only. FIG. 6

No. of Pages: 34 No. of Claims: 19
**Title of the invention:** CONFERENCE OPTIMIZATION FOR IMS SERVICES

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**Name of Inventor:**
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2) Vijay Sangameshwara
3) Prakash Rao

**Abstract:**
ABSTRACT Method and system for notifying state of members of Mission Critical Service (MCX) groups. Embodiments herein provide a method for notifying a state of a plurality of members of one or more Mission Critical Service (MCX) groups to an MCX UE in a MC communication system. The method includes identifying, by the MCX server, state of each member of one or more groups. The method includes categorizing, by the MCX server, plurality of members of one or more groups based on identified state of each member. Further, the method includes notifying, by MCX server, state of plurality of members of the one or more groups to the MCX UE based on the categorization. The MCX services include MCData, MCPTT (Voice) and MCVideo communication services. In some embodiments, the state of the members of the MCX groups is notified over an eMBMS channel. In various embodiments, the state of members of MCX groups is notified when a Floor is granted to the MCX user. FIG. 1

No. of Pages: 36
No. of Claims: 22
Title of the invention: INTELLIGENT VIDEO BANDWIDTH USAGE IN INTERACTIVE IOT VIDEO DEVICES

Abstract:
ABSTRACT INTELLIGENT VIDEO BANDWIDTH USAGE IN INTERACTIVE IOT VIDEO DEVICES

The present invention is a system and method, using adaptive network bandwidth that provides the most stable user experience during a live video call without too many switches between various quality levels and gives the user the flexibility to keep the internet usage within acceptable levels.

A transmitter gathers WiFi strength, and other local network statistics (1,4) and a real-time transport control protocol (RTCP) report parsing is done at regular intervals to get real-time network packet loss statistics 6. A user-specified preference for video quality is sent 7 to a transmitter through the WiFi 8, and an out-of-band network statistics is exchanged through channels such as Web Real-Time Communication (WebRTC)™s data channel 9. The transmitter decides upon the parameters used to encode a compressed video 2 during a live transmission of video data during a call to an IoT video device (3,5) such as a video doorbell.

No. of Pages: 25 No. of Claims: 9
ABSTRACT MERGE CANDIDATES FOR MOTION VECTOR PREDICTION FOR VIDEO CODING

A method of decoding video data includes constructing a motion vector candidate list of merge candidates for the current block of video data based on motion information from a number of neighboring blocks relative to the current block, wherein the number of neighboring blocks considered for the motion vector candidate list is based on the size of the current block, and wherein the number of neighboring blocks is greater than 5. In some examples, the method includes deriving a histogram of motion vector information for the neighboring blocks, and constructing the motion vector candidate list based on the derived histogram. REFER TO FIGURE 17
A device that includes a processor and a memory, the memory storing instructions executable by the processor such that the device is programmed to identify a wearable device, and a set of vehicle data from a vehicle. The user device sends a human machine interface (HMI) message to the wearable device, wherein the HMI message is based at least in part on the set of vehicle data.
A mechanism is proposed to reduce overhead at the expense of increasing latency for UEs with weak link gain while the latency for most UEs may remain the same. In one aspect of this disclosure a UE may determine the number of attempts for transmitting a RACH signal based on one or more of path loss, the transmit power of the UE, the beam correspondence at the UE, or the power of signals received during the synchronization subframe. The UE may transmit the RACH signal in the determined number of attempts. In another aspect of the disclosure a base station may combine signals of one or more RACH attempts to decode a RACH signal. The base station may inform a UE regarding the number of RACH subframes that the base station uses for decoding the RACH signal through a random access response message.
In one aspect of the disclosure a method a computer-readable medium and an apparatus are provided to reduce overhead at the expense of increasing latency for UEs with weak link gain while latency for most UEs may remain the same. The apparatus may be a UE. The apparatus may transmit a RACH preamble to a base station in one or more attempts. The apparatus may receive through a random access response message from the base station information including the number of attempts the base station uses to decode the RACH preamble. The apparatus may adjust the transmission power for the connection request message according to the number of attempts the base station uses to decode the RACH preamble. The apparatus may transmit the connection request message using the adjusted transmission power.
According to various aspects, a memory controller may schedule ZQ commands to periodically calibrate individual memory ranks in a multi-rank memory. The memory controller may schedule a ZQ short command at each ZQ interval and record that the ZQ short command was missed with respect to a memory rank in a self-refresh mode at the ZQ interval. After the missed ZQ short commands reaches a first threshold, a ZQ long command may be scheduled at the next ZQ interval and normal ZQ behavior may resume in the event that the memory rank exits the self-refresh mode and the ZQ long command is executed. However, if the memory rank stays in the self-refresh mode until missed ZQ long commands reaches a second threshold, the memory controller may trigger a ZQ long command once the memory rank exits the self-refresh mode and skip a next ZQ calibration before resuming normal ZQ behavior.
Adaptively controlling drive strength of multiplexed power from supply power rails in a power multiplexing system to a powered circuit is disclosed. A power multiplexing circuit in the power multiplexing system includes a plurality of supply selection circuits (e.g., head switches) each coupled between a respective supply power rail and an output power rail coupled to the powered circuit. The power multiplexing circuit is configured to activate a selected supply selection circuit to switch coupling of an associated supply power rail to the output power rail to power the powered circuit. In one example, the supply selection circuits each include a plurality of power switch selection circuits coupled to an associated supply power rail. The power switch selection circuits are configured to be activated and deactivated by a control circuit to adjust drive strength of a multiplexed supply power rail based on operational conditions, which can account for performance variations.
Provided is a power failure backup power supply device including a charging/discharging control unit (11). The charging/discharging control unit (11) obtains a discharge capacity discharged from a battery (12) during a power failure based on a discharge current value measured by a current measuring section (14) and a discharge time period measured by a timer section (15a) when a commercial power supply (1) recovers from the power failure. The charging/discharging control unit (11) performs a first charge of the battery (12) with a first charge current value by a charging section (13) based on the discharge capacity and a second charge of the battery (12) with a second charge current value smaller than the first charge current value after the first charge. The charging/discharging control unit (11) interrupts the charging of the battery (12) for a given time period after an end of the first charge or during the second charge, obtains a capacity shortage of the battery (12) based on a voltage of the battery (12), which has been measured by a voltage measuring section (16), after the interruption, and performs a third charge of the battery (12) with a third charge current value larger than the second charge current value by the charging section (13) based on the capacity shortage. Figure 1
**Title of the invention:** BASE STATION, TERMINAL, AND COMMUNICATION METHOD

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<td>In a base station, a control unit determines, when a terminal performs communication in a time unit including a downlink time resource for a downlink control signal, a downlink time resource assigned for downlink data by the downlink control signal, and a uplink time resource for a response signal for the downlink data, the amount of the uplink time resource used by the terminal for transmission of the response signal in accordance with a requested communication area or the number of bits necessary for transmission of the response signal, and a transmission unit transmits time unit information related to the determined amount of the uplink time resource to the terminal.</td>
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No. of Pages : 64 No. of Claims : 13
A beverage brewing device includes a lower container for receiving and heating water a connected upper container for receiving grounds captured within the lower container. The piston-cylinder assembly includes a cylinder a piston movable in the cylinder a conical diffuser fixedly attached to the piston and a freely movable valve-seated mass disposed between the piston and the conical diffuser at the entrance of an expansion chamber to operatively block a flow of fluid through a nozzle when the pressure of the fluid is insufficient to displace the weight of the mass. The piston and the conical diffuser define the expansion chamber therebetween. When water is heated the lower container becomes pressurized sufficiently to pass through the nozzle and displace the seated mass from the valve seat such that the water passes through the nozzle at relatively high pressure and velocity to enter the expansion chamber at lowered pressure. It then flows through a diffuser plate through the grounds and into an upper chamber.
Title of the invention: ROTATION OF AUTHORIZATION RULES IN MEMORY OF AUTHORIZATION SYSTEM

Abstract:
Embodiments of the invention generally relate to methods and systems for operating authorization rules. An authorization rule has conditions that may be satisfied by an authorization request. A rule is rotated between the first mode and the second mode over a time interval wherein a first set of authorization requests are received. A first subset of the first set of authorization requests may not be rejected. After the first time interval the authorization requests that were not rejected may be validated through an independent process. An accuracy rate for the rule is determined based on the portion of authorization requests that are valid and satisfied the conditions of the rule.
The Patent Office Journal No. 46/2018 Dated 16/11/2018

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

(43) Publication Date : 16/11/2018

(54) Title of the invention : HETEROCYCLIC COMPOUND

(51) International classification : C07D213/71A01N43/40A01N43/58

(31) Priority Document No : 2016-076517

(32) Priority Date : 06/04/2016

(33) Name of priority country : Japan

(86) International Application No : PCT/JP2017/012289

(87) International Publication No : WO 2017/175613

(61) Patent of Addition to Application Number : NA

(62) Divisional to Application Number : NA

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3) NOKURA, Yoshihiko
4) NAKAJIMA, Yuji

(57) Abstract :
This compound represented by formula (I) [in the formula Het1 represents Het1-1 Het1-2 Het1-3 Het1-4 Het1-5 Het1-6 Het1-7 Het1-8 or Het1-9 R1 represents OR4 etc. R4 represents a C1-C4 linear hydrocarbon group having one or more halogen atoms R5 represents a hydrogen atom or a C1-C6 linear hydrocarbon group optionally having one or more halogen atoms X1 represents a nitrogen atom or CR30 X2 represents a nitrogen atom or CR31 X3 represents a nitrogen atom or CR32 X4 represents a nitrogen atom or CR33 and X5 represents a nitrogen atom or CR34] or an N-oxide compound thereof has a superior effect in controlling arthropod pests.

No. of Pages : 169 No. of Claims : 18
An electronic apparatus and a controlling method thereof are provided. The electronic apparatus includes: a first communication module configured to communicate in a first communication method and a second communication module configured to communicate in a second communication method. The first communication module is further configured to change a transmission output level of the first communication module from a first transmission output level to a second transmission output level in response to the second communication module receiving data and change the transmission output level from the second transmission output level to the first transmission output level in response to the second communication module completing the reception of the data.
This seal segment (11) is provided with: a seal body comprising a plurality of layered thin plate seal pieces (20); and a high pressure-side side plate (23). The high pressure-side side plate (23) comprises: an outer diameter-side edge (23b) that is an edge on the outer side in the radial direction (Dr) and that extends in an arc shape in the circumferential direction (Dc); an inner diameter-side edge (23c) that is an edge on the inner side in the radial direction (Dr) and that extends in an arc shape in the circumferential direction (Dc); and a front-side edge (23d) that is an edge on the front side in the direction of rotation (Bc). The seal segment (11) is also provided with a reinforcing section (40) only in an area on the front side of the high pressure-side side plate (23) in the direction of rotation (Bc).
A method of controlling a preform for stretch blow-moulding a container with an integrally formed handle; the preform comprising a body portion and the integrally formed handle; the preform transferred from a preform supply source to a blow moulding die for blowing the container; the method including the steps of - passing the preform through a preform handle orientating apparatus - transferring the preform to a preform transportation system - maintaining orientation of the preform handle imposed by the preform handle orientating apparatus during transfer to the perform transportation system and transfer to the blow moulding die - rotating the preforms during transport along the transportation system past an array of preform heating elements while shielding the integrally formed handle from excessive exposure to the heating elements - transferring the preform from the transportation system to the blow moulding die and wherein the handle comprises a loop of orientable material extending between an upper connection region and a lower connection region on the body portion of the preform; characterised in that the handle has a generally uniform cross section from proximate the lower connection region to a gradually widening cross section approaching the upper connection region; the cross section reaching and maintaining a maximum width proximate the upper connection region.
**Title of the invention**: METALLIC PIGMENT PARTICLES

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**Abstract**:
A method for producing a conductive liquid electrophotographic ink composition is described. The method comprises: heating a polymer resin in a carrier fluid to dissolve the polymer resin; adding conductive metallic pigment particles to be coated to the carrier fluid; cooling the carrier fluid to effect precipitation of the polymer resin from the carrier fluid such that a coating of the resin is at least partially formed on the conductive metallic pigment particles; reheating the suspension of partially coated conductive metallic pigment particles in the carrier fluid; and cooling the carrier fluid at a controlled rate to effect precipitation of the polymer resin from the carrier fluid such that a coating of the resin is formed on the conductive metallic pigment particles thereby producing the conductive liquid electrophotographic ink composition.

No. of Pages : 36 No. of Claims : 15
The present disclosure relates to a process for selectively printing an image onto a substrate. The process comprises electrophotographically printing a first ink composition onto selected areas of a substrate. The process also comprises applying a primer over at least the unprinted areas of the substrate. A second ink composition is printed onto the primer and the first ink composition is removed from the selected areas of the substrate. The first ink composition is a transparent electrophotographic ink composition.
Title of the invention: METHOD AND INVESTIGATION DEVICE FOR MEASURING STRESSES IN AN AGGLOMERATE STRUCTURE

Abstract:
Method and investigation device associated therewith for measuring stresses in an agglomerate structure including a binder and a bonded substance comprising the steps of providing at one or more points on said structure at least one investigation device (1) able to measure at least three deformations of said investigation device that are oriented relative to one another on three axes detecting the corresponding at least three deformation measurements (E₁ E₂ E₃) and calculating a stress (SYY) that is proportional to a combination of said at least three deformation measurements (E₁ E₂ E₃) at the corresponding point.
A fiber quality sensor (S) comprises a first pair of mutually adjacent electrodes arranged for contacting the fiber to generate a first voltage over the electrodes the first voltage being indicative of the quality of the fiber the first pair of electrodes including a first conductive electrode (1) and a first dielectric electrode (D 2) having a first dielectric material (D) with a conductive backing (2). The fiber quality sensor (S) may further comprise a second pair of electrodes arranged for contacting the fiber to generate a second voltage over the electrodes the second voltage being indicative of the quality of the fiber the second pair of mutually adjacent electrodes including a second conductive electrode (1) and a second dielectric electrode (D 2) having a second dielectric material with a conductive backing wherein in a tribo-electric series of materials the material of the conductive electrode is arranged between the first and second dielectric materials. The fiber quality sensor (S) may comprise horizontally or vertically alternating first and second pairs of electrodes. The first and/or second pairs of electrodes may be tilted slanted and/or zigzag-shaped. The fiber quality sensor (S) may for the or each pair of electrodes further comprise an amplifier coupled to the pair of electrodes and having an input impedance exceeding 1 O and preferably being 200 O. The fiber quality sensor (S) is advantageously applied in a hair care device.
**Title of the invention**: STABLE WHITENING ORAL CARE DENTIFRICE COMPOSITIONS

**Abstract**:
Disclosed is a stable whitening dentifrice composition including a whitening complex wherein the whitening complex comprises (a) a whitening agent and (b) a cross-linked vinyl lactam based polymer. The stable whitening dentifrice composition further includes a blue pigment having a blue to blue-violet color with a hue angle in the CIELAB system ranging from 200 degrees to 320 degrees a zinc salt and an orally acceptable vehicle. Methods of using the composition to whiten tooth surfaces are also disclosed.

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3)CHOPRA, Suman
A network node (700), a wireless device and methods therein for handling radio resources when feedback signalling is employed to indicate either an acknowledgement, ACK, or a non-acknowledgement, NACK, of correct reception of data transmitted by the wireless device. The network node (700) assigns a shared radio resource to a group of wireless devices (702) to be used for retransmission in case the feedback signalling for a transmission of data indicates a NACK. When receiving a set of concurrent transmissions of data from the wireless devices (702) where a subset of the concurrent transmissions of data is not received correctly, the network node (700) transmits a NACK to those wireless devices that transmitted the subset that was not received correctly. The network node (700) then receives on the shared radio resource a retransmission of at least one of the concurrent transmissions of data in the subset that was not received correctly from at least one wireless device to which said NACK was transmitted. [FIGURE 7]
### Abstract:
The invention relates to a separation matrix comprising at least 11 mg/ml Fc-binding ligands covalently coupled to a porous support, wherein: a) the ligands comprise multimers of alkali-stabilized Protein A domains, and b) the porous support comprises cross-linked polymer particles having a volume-weighted median diameter (d50,v) of 56-70 micrometers and a dry solids weight of 55-80 mg/ml.

No. of Pages : 77 No. of Claims : 29
A method of merging 3D meshes includes receiving a first mesh and a second mesh; performing spatial alignment to register the first mesh and the second mesh in a common world coordinate system; performing mesh clipping on the first mesh and the second mesh to remove redundant mesh vertices; performing geometry refinement around a clipping seam to close up mesh concatenation holes created by mesh clipping; and performing texture blending in regions adjacent the clipping seam to obtain a merged mesh.
Title of the invention: WET RICE CULTIVATION HERBICIDAL COMPOSITION AND APPLICATION THEREOF

Provided is a rice fields herbicidal composition and an application thereof. The rice field herbicidal composition comprises an herbicidally effective amount of an active ingredient A and an active ingredient B, wherein the active ingredient A is a compound of the formula (I), the active ingredient B is selected from one or more of the following compounds: 1) triazines, 2) nitriles, 3) sulfonylureas, 4) sulfonamides, 5) pyrimidinylthiobenzoates, 6) aryloxy phenoxy propionates, 7) cyclohexenones, 8) amides, 9) pyrazoles, 10) carbamates, 11) organophosphates, 12) hormones, 13) oxazolidinediones, 14) diphenyl ethers, 15) triketones. The composition is low in cost, convenient to use, and easy to degrade in the environment, and is safe for both current batch of rice and succeeding batch of crops.
(5) Title of the invention : SYSTEM FOR IMPROVING SLEEP EFFECTIVENESS OF A USER

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(72) Name of Inventor :
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2) NIEUWHOF, Marc
3) NATOEWAL, Navin, Hemchand

(57) Abstract :
ABSTRACT: SYSTEM FOR IMPROVING SLEEP EFFECTIVENESS OF A USER The present invention relates to a system for improving sleep effectiveness of a user. The present invention further relates to a signal processing device (10) for processing skin conductance data of a user, the device comprising: an input unit (11) for receiving a skin conductance data signal indicative of a skin conductance of the user; a segmentation unit (12) for segmenting the skin conductance data signal into a plurality of epochs; a peak detection unit (13) for detecting peaks in the skin conductance data signal; a calculation unit (14) for calculating a sum of rising edge amplitudes of the detected peaks per epoch; an analysis unit (15) configured to classify the user into an emotional state based on a transient behavior of said sums of rising edge amplitudes per epoch during the course of a day, wherein the analysis unit is configured to classify the user into an unhealthy tired state when the sum of rising edge amplitudes per epoch increases during the course of the day; and/or to classify the user into a healthy tired state when the sum of rising edge amplitudes per epoch decreases during the course of the day; and an output unit configured to output an output signal indicative of said emotional state. The present invention further relates to a corresponding method and computer program implementing such a method. Fig. 1

No. of Pages : 20 No. of Claims : 14
**Title of the invention**: IMPRINT LITHOGRAPHY STAMP METHOD OF MAKING AND USING THE SAME

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**Abstract**:

Disclosed is a stamp (14) for an imprint lithography process the stamp comprising an elastomer stamp body including a polysiloxane bulk portion (110) and a patterned surface comprising a feature pattern (16) for imprinting an imprinting composition (12) wherein the elastomer stamp body comprises a basic organic amine in an amount of at least 0.1% by weight based on the total weight of the elastomer stamp body. Also disclosed are methods of manufacturing such a stamp, and a method of forming a patterned layer on a substrate using such a stamp. Fig. 4

No. of Pages : 45  No. of Claims : 30
The present disclosure relates to a method of forming a stationary blade (40), to a stationary blade (40) for a hair cutting appliance (10), and to a hair cutting appliance (10). The method comprises providing a plurality of tooth components (64) obtained from metal material, the tooth components (64) being arranged in a substantially flat fashion and at least partially tapered towards a tip end (70) thereof, arranging the tooth components (64) in series, wherein neighboring tooth components (64) are arranged at an offset from one another, providing a blade base (42) acting as a support receptacle, arranged to receive the tooth components (64), and interconnecting the tooth components (64) and the blade base (42) in a direct or mediate fashion, thereby forming a plurality of teeth (62) of the stationary blade (40). Fig. 3

No. of Pages : 24 No. of Claims : 13
The present invention is directed at a system and method for searching and matching content over social networks relevant to a specific individual. In an aspect the individual relevant content search system provides search results and information that is relevant to the individuals perspective.

No. of Pages : 45 No. of Claims : 20
**Title of the invention:** ANGLE OF ARRIVAL ESTIMATION IN A RADIO COMMUNICATIONS NETWORK

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**Abstract:**

ABSTRACT There is provided mechanisms for estimating angle of arrival of a radio signal in a radio communications network. A method is performed by a radio transceiver device. The radio transceiver device comprises an antenna array that, by means of analog beamforming, is configured to shift between at least two phase center locations. The method comprises obtaining measurements of the radio signal as received by the antenna array using two mutually different phase center locations. The method comprises estimating the angle of arrival of the radio signal using the measurements as obtained using the two mutually different phase center locations. (Fig. 4)
**Title of the invention:** HIGH-PRESSURE POLYMERIZATION PROCESS OF ETHYLENICALLY UNSATURATED MONOMERS CARRIED OUT IN A POLYMERIZATION REACTOR INSTALLED WITHIN A PROTECTIVE ENCLOSURE

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**Abstract:**
A process for polymerizing or copolymerizing ethylenically unsaturated monomers at pressures in the range of from 110 MPa to 500 MPa in a production line comprising a continuously operated polymerization reactor which is installed within a protective enclosure wherein the production line is monitored with respect to an occurrence of a leakage of monomers or of reaction mixture and a water based deluge system which provides droplets of a diameter in a range from 25 µm to 20 mm to the enclosed area is automatically started with a minimum flow rate of 10 L/min per m² of enclosed area when a leakage of monomers or of reaction mixture is detected.

No. of Pages: 26 No. of Claims: 15
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| (31) Priority Document No | :16305544.5 |
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| (57) Abstract: |
| Embodiments of the invention include an entity such as TWAN entity, respectively ePDG, capable of serving a User Equipment UE at Trusted, respectively Untrusted, WLAN access to a packet Core Network such as EPC, said entity configured to: - perform DCN selection at said Trusted, respectively Untrusted, WLAN access of said UE to said packet Core Network such as EPC. Fig. 5 |
The present invention relates to methods for predicting peptides or polypeptides such as T cell epitopes useful for immunotherapy such as for vaccination. In particular, the present invention relates to methods for predicting whether peptides or polypeptides such as tumor-associated antigens or epitopes, in particular tumor-associated neoantigens or neoepitopes, are immunogenic and, in particular, useful for immunotherapy such as for vaccination. The methods of the invention may be used, in particular, for the provision of vaccines which are specific for a patient's tumor and, thus, in the context of personalized cancer vaccines. Figure 1

No. of Pages : 70 No. of Claims : 42
### Patent Application Details

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<td><strong>Abstract</strong></td>
<td>The present invention relates to a device at a carding machine or a roller card, which preferably extends across the entire working width of the carding machine or roller card, comprising at least one functional side or functional surface, which, directly or indirectly, may come into contact with fibre material, wherein the device includes at least one hollow space, which at least partially extends along the length thereof. The invention is characterized in that a deformation device (21) is disposed in the hollow space (20d, 20e), by means of which a force for bending the device is developable within the hollow space (20d, 20e). Furthermore, the invention relates to a deformation device and to a measuring device. (Refer to Figure 1)</td>
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No. of Pages: 26  No. of Claims: 12
Providing Wireless Internet Access Using Autonomous Vehicles

Autonomous vehicles such as UAVs or cars provide network access points. User devices connect to the network access points and network access is monitored. User location data is also monitored. A profile of the user is generated from the gathered data. Advertisements are selected based on a profile of the user and the current location of the user. The autonomous vehicles may be distributed geographically to provide a network access to a geographic area. In response to detecting that a user device is moving out of a coverage area of an autonomous vehicle, nearby autonomous vehicles are identified. If the user device is in the coverage area of a nearby autonomous vehicle, the network connection to the user device is transferred to that vehicle. [Figure 1]

No. of Pages: 15 No. of Claims: 20
The thermocycling inspection device includes a holder-accommodating space 10 for accommodating the chip holder 50 therein, a thermocycling section 20 for heating and cooling the inspection chip 60, and a detector 30 for taking a picture of the inspection chip 60, and when the thermocycling section 20 heats or cools or when a picture is taken by the detector 30, the thermocycling section 20 is disposed on one side of the holder-accommodating space 10, the detector 30 is disposed on other side of the holder-accommodating space 10, and the holder-accommodating space 10 is formed such that an optical axis of the detector 30 and a sample introducing port 62 match with each other. According to this, polymerase chain reaction can be carried out, and inspection can be carried out using the inspection chip which carries out the polymerase chain reaction.

No. of Pages: 24  No. of Claims: 15
An electronic device according to various embodiments of the present invention may comprise: a first housing which includes a first face directed in a first direction a second face directed in a second direction opposite to the first direction and a first side face which at least partially encloses a space between the first face and the second face; a second housing which includes a third face directed in a third direction a fourth face directed in a fourth direction opposite to the third direction and a second side face which at least partially encloses a space between the third face and the fourth face; a first display which is disposed within the first housing and exposed through the first housing; a connecting member which connects the first housing and the second housing such that the first housing and the second housing are folded toward each other wherein when the first housing and the second housing are folded the first side face and the second side face are adjacent to each other; a first conductive member which is formed in at least a portion of the first side face wherein the first conductive member includes a first nonconductive slit and a second nonconductive slit extending in the first direction or the second direction such that the first conductive member is divided into a plurality of conductive portions; a second conductive member which is formed in at least a portion of the second side face wherein the second conductive member includes a third nonconductive slit and a fourth nonconductive slit extending in the third direction or the fourth direction such that the second conductive member is divided into a plurality of conductive portions when the first housing and the second housing are folded the first slit and the fourth slit are adjacent to each other and the second slit and the third slit are adjacent to each other; and at least one wireless communication circuit which is electrically connected to one of the plurality of conductive portions of the first conductive member at a first point adjacent to the first slit and electrically connected to another of the plurality of conductive portions of the first conductive member at a second point adjacent to the second slit.

No. of Pages : 115 No. of Claims : 15
A short message input method and device are provided. The method includes that: a short message input instruction is received and whether the short message input instruction meets a target condition is determined (10); and when the short message input instruction does not meet the target condition, a corresponding operation is executed (20). According to the embodiments of the present disclosure, short message input may be adapted and regulated when the short message input instruction does not meet the target condition and convenience and efficiency for input of short message information are improved. fig-1
Title of the Invention: BREAK DETECTING DEVICE

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Name of Applicant:
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Abstract:
A break detecting device comprises a sensor, a storage unit (20) and a break determination unit (24). With the sensor for example an output signal fluctuates when vibration occurs on a main rope (4) of an elevator. The output signal from the sensor is for example a torque signal from a hoisting device (11). The storage unit (20) associates the fluctuation in the output signal from the sensor with the position of an elevator car (1) and stores same. The break determination unit (24) determines the presence of a broken portion (4c) on the main rope (4) on the basis of the position of the car (1) and changes in the fluctuation of the output signal from the sensor.
The invention relates to a device and to a method for pulling a bearing (200) onto a roll journal and for pulling the bearing off the roll journal of a roll. Known devices of this type have a first and a second piston-cylinder unit. Furthermore said devices have a stop ring (130) fixed in the axial direction A to the end of the roll journal (320) remote from the body as a stop for the inner piston (110) of the first piston-cylinder unit. In addition the known devices have a nut (150) which can be screwed onto an external thread of the inner piston in order to fix a bearing (200) in the axial direction in particular during roll operation. As an alternative to the known prior art the invention provides for a ring-shaped cylinder (120) to be used both as a cylinder for the first piston-cylinder unit and as a cylinder for the second piston-cylinder unit. The cylinder is covered for a short distance on the cylinders side remote from the body by an annular cylinder cover (122) for the cylinders function as a cylinder for the second piston-cylinder unit. The cylinder cover (122) serves in addition to an outer flange (142) of an outer piston (140) for the axial limitation of a pull-off pressure chamber (2) of the second piston-cylinder unit.
### Title of the invention
ENZYMATIC CLEANING COMPOSITIONS AND METHODS

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| Filing Date | NA |

### Abstract
Enzymatic cleaning compositions and methods of use wherein the cleaning compositions include an enzyme and a surfactant or an enzyme a surfactant and a cationic antimicrobial or an enzyme a surfactant a cationic antimicrobial and an antimicrobial lipid.

No. of Pages : 55 No. of Claims : 15
Title of the invention: USE OF CLOSED-PORE MICROSPHERES OF EXPANDED PEARLITE AS A FILLER FOR THE PRODUCTION OF MOULDINGS FOR THE FOUNDRY INDUSTRY

Abstract:
The present invention relates to the use of closed-pore microspheres of expanded perlite as a filler for producing moldings for the foundry industry, to a composition for producing moldings for the foundry industry, comprising closed-pore microspheres of expanded perlite as a filler, and a binder, the binder being selected from the group consisting of water glass, phenol-formaldehyde resins, two-component systems comprising as reactants a polyisocyanate and a polyol component containing free hydroxyl groups (OH groups), and starch, and also to moldings for the foundry industry and to a process for producing a molding for the foundry industry. [Figure: 1]
The invention relates to a labyrinth seal for sealing a running clearance between a stator-side component in particular a housing and a rotor-side component in particular a shaft comprising a stator-side sealing body (12) which comprises labyrinth tips (14) facing the rotor-side component wherein the stator-side sealing body (12) is made of an electrically non-conductive material and wherein the stator-side sealing body (12) accommodates sensors (18) for detecting oscillations of the rotor-side component.
### Title of the invention: AXLE ASSEMBLY WITH ELECTRIC MOTOR

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### Abstract:

An axle assembly (200) includes a first axle housing (102) a second axle housing (104) a first wheel end (216) a second wheel end (218) and at least one drive shaft (150) extending through the first axle housing (102) and the second axle housing (104) and coupled to the first and second wheel ends (216 218). The axle assembly (200) also includes a gearbox (210) having a body (240) with first and second portions (242 244) defining a cavity (246) with the first axle housing (102) coupled to the first portion (242) and the second axle housing (104) coupled to the second portion (244). The axle housing (200) further includes an electric motor (122) coupled to the first portion (242) of the body (240). The gearbox (210) includes a gear train (153) having an input shaft (160) having one end coupled to the electric motor (122) and an output shaft (172) rotatably coupled to the input shaft (160). The gear train (153) further includes a clutch (174) having a shifting fork (178) movable between an engaged state and a disengaged state to couple the output shaft (172) to the drive shaft (150) such that the electric motor (122) drives the drive shaft (150) and to uncouple the output shaft (172) from the drive shaft (150) such that the drive shaft (150) is able to rotate independently from the electric motor (122).

No. of Pages: 16 No. of Claims: 26
A communications device 304 and a method for providing an improved channel access procedure for transmission of data. The communications device and an Access Point (AP) 302 are operating in a wireless communications network 300. The communications device performs a channel sensing procedure using a second slot counter Bn, which second slot counter is equal to a random backoff value or a first slot counter Sn. When trigger frame is received from the AP during the channel sensing procedure, which trigger frame triggers access to a channel, the communications device sets the first slot counter equal to the second slot counter and transmits the data to the AP on the channel. The communications device sets the first slot counter equal to a preset value and transmits the data to the AP in the absence of a received trigger frame and when the channel sensing procedure is completed. [FIGURE 3]
A client and a server communicate over multiple wireless access paths each using a different wireless network. A method performed at the server comprises receiving at the server a signal from the client via one of multiple wireless access paths the signal comprising a transport layer portion including a transport layer identifier the transport layer identifier providing an indication of a wireless access path a network layer portion and a data portion determining from the transport layer identifier a destination of at least a subset of the signals from the wireless access path indicated by the transport layer identifier and routing the signal to the destination. If a flow is diverted to travel via a different route then there must be some mechanism to ensure that the signal arrives at its intended destination. Preferably a Multi-path Transport Control Protocol (MPTCP) is used as the transport layer protocol. MPTCP binds one or multiple TCP subflows into one logical connection between a content data server and a user client application. In the client device a network policy module specifies what physical paths can be accessed and whether they are used symmetrically for ACK delivery (marker [a]). Signals that are diverted such that they are sent between these devices on a different access path to that originally envisaged need to be rerouted within the receiving device such that they arrive at the correct socket and can be processed by the appropriate receiver. To implement the WiFi uplink over LTE uplink policy a client pre-routing function (marker [b]) modifies the source/destination IP addresses of the uplink TCP packets prior to passing them to the network so that the network can then transparently carry out the desired traffic routing. On the server side a server pre-routing function (marker [c]) modifies the destination IP addresses of all TCP ACKs such that the IP layer subsequently ensures delivery to the correct TCP state machines of the server. The server establishes the TCP ACK - to - TCP socket mapping during TCP connection setup and maintains its state by monitoring TCP traffic (marker [d]).
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| (19) INDIA | |
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(54) Title of the invention : METHOD FOR SEPARATING AND PURIFYING MOGROSIDE V BY MEANS OF SUBCRITICAL HYDROLYTIC ADSORPTION TECHNOLOGY

| (51) International classification | :C07J17/00 |
| (31) Priority Document No | :201710151350.1 |
| (32) Priority Date | :14/03/2017 |
| (33) Name of priority country | :China |
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| (62) Divisional to Application Number | :NA |
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(57) Abstract :
Disclosed is a method for separating and purifying mogroside V by means of subcritical hydrolytic adsorption technology. The method desorbs a macroporous adsorption resin enriched with mogroside V under subcritical conditions for water with water as a solvent to obtain an aqueous solution rich in mogroside V. The method not only increases the content of mogroside V in a product but also effectively removes bitter-tasting impurities and residual pesticides greatly improves the taste adaptability of the product and increases the safety and quality of the product. The method reduces the number of process steps and reduces the use of organic solvents in the prior art thereby reducing the overall production cost.

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

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4) LI, Yuanyuan
Certain techniques are disclosed for sequentially analyzing a series of thread dump samples to estimate the intensity statistics of newly classified stack segments of stack frames. Embodiments can detect a branch point along one or more linearly connected stack frames of a stack segment where the stack segment is associated with a filter state. Upon detecting the branch point along the one or more linearly connected stack frames of the stack segment some embodiments can split the stack segment into a plurality of new stack segments that each include a subset of the stack frames where the plurality of new stack segments are referenced by the stack segment. Embodiments can then initialize a filter state for each of the new stack segments based at least in part on the filter state of the stack segment.
### Title of the invention
ADAPTER, LIGHT SOURCE APPARATUS AND LIGHTING DEVICE

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| (31) Priority Document No | :201610339970.3 |
| (32) Priority Date | :20/05/2016 |
| (33) Name of priority country | :China |
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| (61) Patent of Addition to Application Number | :NA |
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### Abstract
Embodiments of the present invention disclose an adaptor, a light source device using the adaptor and a lighting apparatus using the adaptor. The adaptor includes a main body, a push-out part, and an operating component. The main body includes: a power supply mounting part, a light source mounting part, and a conducting circuit extending from the power supply mounting part to the light source mounting part; the push-out part is operatively movable to a blocking position for blocking the power supply mounting part from being engaged with the power supply module, and a releasing position for releasing the power supply mounting part to be engaged with the power supply module; the operating component is operatively movable on the main body to an on-position and an off-position; when the power supply mounting part is engaged with the power supply module, by a resisting force from the power supply module, the push-out part moves to the releasing position and maintains in the releasing position, and the operating component moves to the on-position so as to turn on the conducting circuit; when the power supply mounting part is separated from the power supply module, the push-out part moves from the releasing position to the blocking position and meanwhile driving the operating component to move from the on-position to the off-position so as to turn off the conducting circuit. The embodiments of the present invention achieves driving the operating part to move from the on-position to the off-position to turn off the conducting circuit when there is no need of using the lighting apparatus, by moving the push-out part to the blocking position, thus preventing the user from activating the lighting apparatus due to misoperation and resulting in an electric shock, and improving the safety of the lighting apparatus.

No. of Pages : 19 No. of Claims : 17
(54) Title of the invention: TERMINAL DEVICE BASE STATION DEVICE MME (MOBILE MANAGEMENT ENTITY) AND COMMUNICATION CONTROL METHOD

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(57) Abstract:
Provided is a communication procedure for transmitting and receiving data suitable for network slicing and DeCOR. A communications provider has one or a plurality of network slices within a core network that it manages and the network slice comprises one or a plurality of network functions therewithin. On the basis of a request from a terminal device or registration information of the terminal device the terminal device executes a process to connect to one or a plurality of network slices corresponding to a service or application. Moreover the terminal device executes a process to connect to an additional network slice on the basis of authentication results from the network.

No. of Pages: 85  No. of Claims: 24
Title of the invention: BAG-IN-BOX

Abstract:
A bag-in-box comprising: a housing box (11) that in a lower section side wall (14) thereof is provided with an insertion hole (21) for an extraction nozzle opening/closing mechanism (51); and a suspension container (31) that comprises a film material and is housed in the housing box (11) in a suspended state said extraction nozzle opening/closing mechanism (51) being attached to a lower end of the suspension container (31) and being pulled out from the insertion hole (21) for use wherein a base (12) that maintains a slant toward the insertion hole (21) is provided to a bottom section of the housing box (11) a suspension means (22) that maintains the suspension of an opening/closing plug (41) is provided to an upper section of the housing box (11) said opening/closing plug (41) being provided to an upper section of the suspension container (31) the opening/closing plug (41) of the suspension container (31) is opened during filling with liquid contents (L) the suspension means (22) maintains the suspension of the opening/closing plug (41) that is provided to the upper section of the suspension container (31) and the opening/closing plug (41) is closed during extraction of the liquid contents (L) and extraction is possible by opening the extraction nozzle opening/closing mechanism (51).
A steam turbine plant equipped with: a high-intermediate pressure turbine (21) at one end of which in the axial direction a high-pressure turbine unit (25) is provided and at the other end of which an intermediate-pressure turbine unit (26) is provided; low-pressure turbines (22 23) arranged coaxially with the high-intermediate pressure turbine (21); condensers (33 34) that cool steam used in the low-pressure turbines (22 23) thereby condensing the steam and converting the steam to condensate water; and a second high-pressure water supply heater (50) that heats the condensate water by means of steam discharged from the high-pressure turbine unit (25).
**Title of the invention:** LEVELING VALVE

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**Abstract:**

This leveling valve (100) is equipped with: a piston (20) which moves axially when a lever (4) is rotating; a stem (50) which is connected to one end of the piston (20) in the axial direction; a supply-exhaust valve (80) which allows communication between a pneumatic spring (3) and a compressor (7) when the stem (50) moves in one direction from a neutral position and allows communication between the pneumatic spring (3) and an exhaust passage (8) when the stem (50) moves in the other direction from the neutral position; a guide rod (60) which is axially connected to the other end of the piston (20) in the axial direction; and a guide hole (12c) which is provided in a first cap member (12) so as to slidably support the guide rod (60).
Title of the invention: BEVERAGE DISPENSING VALVE SYSTEM

Abstract:
A post-mix beverage dispenser utilizing a beverage dispensing valve including a movable valve activation device is provided. The beverage dispensing valve can move the valve activation device to a predetermined activation position to dispense a fluid in response to a control signal.
## Title of the invention: MOTION VECTOR DIFFERENCE CODING AND DECODING

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### Abstract:

There are provided mechanisms for encoding a motion vector wherein the motion vector is represented by a sum of a motion vector prediction (MVP) and a motion vector difference (MVD) between the motion vector and the MVP. The MVD comprises a first MVD component y and a second MVD component x. The method comprises encoding the first MVD component y. The method comprises encoding a representation x of the second MVD component x. The method comprises sending information to a video decoder on how reconstruct the second MVD component x from the representation x of the second MVD component x and at least one of: the first MVD component y MVP index MVPindex reference picture index Refldx reference picture list flag block partition size PartSize and block partition type. There are provided mechanisms for reconstructing a motion vector from a motion vector prediction (MVP) and a motion vector difference (MVD). The MVD comprises a first MVD component y and a second MVD component x. The method comprises receiving information from a video encoder on how to reconstruct the second MVD component x from a representation x of the second MVD component x and at least one of: the first MVD component y MVP index MVPindex reference picture index Refldx reference picture list flag block partition size PartSize and block partition type. The method comprises decoding the first MVD component y. The method comprises decoding the representation x of the second MVD component x. The method comprises reconstructing the second MVD component x in accordance with the received information.

No. of Pages : 16 No. of Claims : 28
A registration destination determining device (50) determines by using the type of data that constitutes registration data as a target type which data management device among a plurality of data management devices (20A 20B) is to manage registration data so that an occurrence frequency distribution of values set for the target types of registration data managed by each of the plurality of data management devices (20A 20B) differs from an occurrence frequency distribution of values set for the target types of registration data managed by all the plurality of data management devices (20A 20B).
Embody identify heap-hoarding stack traces to optimize memory efficiency. Some embodiments can determine a length of time when heap usage by processes exceeds a threshold. Some embodiments may then determine heap information of the processes for the length of time, where the heap information comprise heap usage information for each interval in the length of time. Next, some embodiments can determine thread information of the one or more processes for the length of time, wherein determining the thread information comprises determining classes of threads and wherein the thread information comprises, for each of the classes of threads, thread intensity information for each of the intervals. Some embodiments may then correlate the heap information with the thread information to identify code that correspond to the heap usage exceeding the threshold. Some embodiments may then initiate actions associated with the code.
A method of coating a substrate with a foam is described. The method comprises: (a) introducing a foam into a substrate comprising a plurality of channels through open ends of the channels at a first end of the substrate; and (b) optionally applying (i) a vacuum to open ends of the channels at a second end of the substrate and/or (ii) a pressure to the open ends of the channels at the first end of the substrate; wherein the foam comprises a particulate material, and wherein the foam is particle stabilized.
The invention relates to a shed-forming module (1) for the selective movement of shed-forming elements, comprising at least two sets of lifting elements which are movable up and down in antiphase in a movement zone, and a drive system, comprising: transfer means for transferring the movement according to a constant transfer ratio from a first driven shaft (2), the axis (A) of which extends in a first direction, to a second shaft (3), the axis (B) of which extends in a second direction; conversion means for converting the movement of the second shaft (3) into an oscillating movement around a third axis (C) which extends at a distance from and in the same direction as the second direction, wherein the conversion means comprise at least one follower component (4) which is movable in oscillation around the third axis (C); connecting means which create the connection between said follower component (4) and the lifting elements in the movement zone, wherein the conversion means are provided in a closable housing (30), wherein the housing comprises at least one opening which forms a passage for the connecting means, wherein said connecting means extend fluid-tightly through said opening. [FIGURE 6]
Title of the invention: SHED-FORMING MODULE FOR A WEAVING DEVICE

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Abstract:
Shed-forming module (1) for the selective movement of shed-forming elements using lifting elements, wherein several shed-forming elements, in projection onto a plane perpendicular to their movement direction, are situated next to each other in a first direction and in a second direction perpendicular to the first direction, comprising a drive and transfer mechanism, wherein the drive mechanism (16) does not form part of the transfer mechanism (12, 13), and the lifting elements are coupled to the drive mechanism (16) via a first (12) and a second (13) transfer mechanism such that the movement profile and movement amplitude thereof are adjustable via the drive mechanism (16). Figure 2

No. of Pages : 15 No. of Claims : 19
Title of the invention: WIRELESS STATION AND COMMUNICATION METHOD

A wireless station according to the present disclosure is in a wireless network having multiple wireless stations and is provided with: a reception unit that receives a trigger signal transmitted from a first wireless station belonging to an interference cell to a second wireless station belonging to the interference cell; and a transmission prohibition period control unit which when the reception unit receives a trigger signal after the transmission prohibition period control unit sets a transmission prohibition period for another wireless station belonging to a communication cell to which the wireless station belongs determines whether or not to cancel the transmission prohibition period on the basis of the reception intensity of the trigger signal.

No. of Pages: 41 No. of Claims: 22
The invention relates to a method of bonding panels together to form a panel assembly comprising the following steps: - providing a first panel (10) with a body portion (11) and an end portion (12) and a second panel (20) with a body portion (21) and an end portion (22); - providing a first structural adhesive film (30) and a second structural adhesive film (31); - applying the first structural adhesive film (30) on an upper side of the end portion (22) of the second panel (20) and applying the second structural adhesive film (31) on a lower side of the end portion (22) of the second panel (20); - bringing the two panels (10 and 20) together and folding the end portion (12) of the first panel (10) around the end portion (22) of the second panel (10) such that the end portion (12) extends essentially parallel to the body portion (11) of the first panel (10) thereby enclosing the end portion (22) of the second panel and - such that the first structural adhesive film (30) is positioned between the upper side of the end portion (22) of the second panel (20) and the end portion (12) of the first panel (10) and that the second structural adhesive film (31) is positioned between the lower side of the end portion (22) of the second panel (20) and the body portion (11) of the first panel (10); - heating the assembly above the activation temperature of the first (10) and second structural adhesive tape (20); wherein the first structural adhesive film (10) differs from the second structural adhesive film (20).
A surgical drape comprising a flexible opaque sheet a flexible transparent sheet disposed adjacent the opaque sheet to permit the patient to view the surgical procedure therethrough the transparent sheet being sealed along a substantial portion of its bottom edge to the opaque sheet one or more fasteners configured to dispose the opaque sheet adjacent the transparent sheet wherein the opaque sheet is configured to selectively cover and uncover the transparent sheet one or more engagement mechanism disposed at a top edge of the transparent sheet capable of engaging with a support structure and the transparent sheet configured for being selectively covered and uncovered during the surgical procedure to respectively prevent and permit the patient to view progress of the surgical procedure without affecting surgical access to the surgical field the top edge of the transparent sheet extending beyond a portion of the top edge of the opaque sheet.
The invention relates to a grinding wheel (1) comprising a support body (2 3) which has a central coupling region (4) for attaching the grinding wheel (1) to a rotary drive for rotating the grinding wheel (1) about a rotational axis (5) running through the coupling region (4) and which has a circumferential surface (6). The grinding wheel also comprises a grinding layer (7) which is applied in particular sintered onto the circumferential surface (6) of the support body (2 3). The support body (2 3) comprises a first part (2) and a second part (3) connected to the first part. The first part (2) has the circumferential surface (6) and the second part (3) has the coupling region (4) and consists substantially of a vibration-damping material.
Title of the invention: FLEXIBLE DEVICE AND OPERATING METHOD THEREOF

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Abstract:
A flexible device and an operating method thereof are disclosed. According to various examples of the present disclosure, the flexible device comprises: a sensor module; a flexible display; and a processor for performing control such that a first window and a second window are relocated according to a bending event for the flexible device when the occurrence of the bending event is sensed by the sensor module while an execution screen image of a main application and an execution screen image of a sub application are respectively displayed on the first window and the second window wherein the sub application can include an application for performing at least one function among a plurality of functions included in the main application.

No. of Pages: 31 No. of Claims: 15
**Title of the invention:** POLYMER COMPOSITION COMPRISING POLY(METHYL METHACRYLATE) AND AN IMPACT MODIFIER COMPOSITION

**Priority Document No:** 16164895.1  
**Priority Date:** 12/04/2016  
**Name of priority country:** EPO

**International Application No:** PCT/EP2017/057082  
**Filing Date:** 24/03/2017

**International Publication No:** WO 2017/178210

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2) SOMASUNDARAM, Elango  
3) AL-HUSSAIN, Saad, N.

**Abstract:**

The present invention relates to a polymer composition comprising:  
- 40.0 to 95.0 weight percent of a poly(methyl methacrylate);  
- 5.0 to 60.0 weight percent of an impact modifier composition comprising a first impact modifier and a second impact modifier different from the first impact modifier wherein the first impact modifier is a graft copolymer impact modifier, and the second impact modifier is an acrylate impact modifier; and wherein the amount of the poly(methyl methacrylate) and the impact modifier composition totals 100.0 weight percent. Such polymer composition has a desired good impact strength and a desired transparency.
**Title of the invention:** AUGMENTED REALITY SYSTEMS AND METHODS FOR USER HEALTH ANALYSIS

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<td>SAMEC, Nicole, Elizabeth</td>
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<td>VINKERS, Charlotte, Dorothea, Wilhelmina</td>
</tr>
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<td></td>
<td>HARRISES, Christopher, M.</td>
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<td>KRAMER, Nicholas</td>
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**Abstract:**

Augmented reality systems and methods for user health analysis. Methods for user health analysis may include collecting data for an initial prediction model and continuing to collect additional data based on one or more data criteria. The methods may further include updating the initial prediction model based on the additional data to produce a revised prediction model or causing an intervention to occur based on the additional data. The data may be collected by a display system including one or more sensors configured to collect user-specific data and a display device configured to present virtual content to a user. The display device may be configured to output light with variable wavefront divergence.
WATER-SOLUBLE FILMS, POUCHES, AND CONTAINER SYSTEMS

A container system including a closeable container with at least one pouch in an interior space of the container, where the pouch includes a water-soluble film including a polyvinyl alcohol (PVOH) resin blend, and a perfume and organic solvent containing composition at least partially enclosed in a compartment by the water-soluble film.
The present invention relates to a process for the preparation of 4-aminoindane derivatives of Formula (I). The present invention also relates to a process for the preparation of aminoindane amides of Formula (II), having fungicidal activity, starting from a 4-aminoindane derivative intermediate of Formula (I) obtained through the above-mentioned process.

No. of Pages : 38 No. of Claims : 13
### Title of the Invention

**APPARATUS FOR RECEIVING SMOKABLE MATERIAL**

### Abstract

Apparatus [10] for receiving smokable material to enable at least one component of the smokable material to be volatilised is described. In an example the apparatus comprises a housing [14] having a first compartment [38] and a second compartment [60]. The first compartment [38] is a heating compartment for receiving smokable material in use. The second compartment [60] is an electronics compartment and containing at least one of control circuitry [21] and a power source [22]. The first compartment [38] and the second compartment [60] are substantially hermetically sealed from each other to minimise or prevent air or vapour flowing between the compartments [38 60].
The invention relates to a profiled bearing (1) for a rail (2) and to a rail system. The profiled bearing (1) has a profiled base (3) with a first lateral wall (6) a second lateral wall (7) and a base (5) which connects a first end of the first lateral wall (6) to a first end of the second lateral wall (7) and the profiled bearing also has a profiled clamping section (4). The base (5) and the lateral walls (6 7) form a receiving pocket (9) for receiving the rail (2). In a functional position the profiled clamping section (4) is clamped in a gap (10) between the rail (2) inserted into a bearing bed (22) of the base (5) and the second lateral wall (7). A clamping finger (8) which extends in the direction of the second lateral wall (7) is molded in the region of a second end of the first lateral wall (6) said end being arranged at a distance from the base (5) wherein the rail (2) can be pressed into the bearing bed (5) by means of the clamping finger and the profiled clamping section (4) has a base web (11) with two clamping limbs (12 13) which extend from one face of the base web (11) and which can be pressed into the gap (10) between the rail (2) inserted into the bearing bed (22) and the second lateral wall (7). The clamping limbs (12 13) of the profiled clamping section (4) extend in the direction of the bearing bed (5) in the functional position in which the clamping limbs are inserted into the gap (10) and a first clamping limb (12) lies against the rail (2) at least in some regions and a part of a second clamping limb (13) is pressed into an undercut (14) formed on the second lateral wall (7). The invention further relates to a rail system.
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<th>LASHING BAR FORMED OF COMPOSITE MATERIAL AND MANUFACTURING METHOD THEREFOR</th>
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(61) Patent of Addition to Application Number | NA |
| Filing Date | NA |
(62) Divisional to Application Number | NA |
| Filing Date | NA |

(57) Abstract:
The present invention relates to a lashing bar of a composite material formed through filament winding to provide light weight and capacity to withstand high tensile loads, and a method of manufacturing the same. The invention comprises continuous fibers with high tensile strength wound around the core in the center and the exteriors of thimbles with holes and encased by a composite material, and metal parts provided in certain areas where loads are concentrated. Therefore, the invention offers the advantages of maximizing efficiency during transportation and installation by lowering the weight of lashing bars used for the lashing of containers. Figure 3

No. of Pages : 10 No. of Claims : 6
An apparatus arranged to heat smokable material to volatilise at least one component of said smokable material. The apparatus comprises: a housing; the housing having a first opening at a first end through which a consumable article containing smokable material can be removably inserted into the apparatus; at least one heater arrangement arranged within the housing for heating smokable material within the consumable article when in use and a hollow chamber between the first opening and the at least one heater. The hollow chamber surrounds at least a portion of the consumable article when the consumable article is inserted into the device and an inner wall of the chamber and the at least a portion of the consumable article define an air gap there between. Hot vapours that escape the consumable article in use can condense on the inner wall of the chamber. Figure 5a
Disclosed herein is a computing device configured to implement power aware packet distribution. The computing device includes a central processing unit (CPU) comprising a plurality of cores and an interface controller communicatively coupled to the CPU. The interface controller is configured to receive a data packet to be sent to a targeted core of the plurality of cores and identify a power state of the targeted core. The interface controller is configured to redirect the data packet to an alternate core based on the power state of the targeted core.
A housing can have two superposed housing members and a joint member connecting lips of the housing members to one another along at least a portion of a periphery. The housing members and the joint member can all be made of an elastomeric material and thus be flexible compressible and have elasticity. An electronic unit within an air-filled cavity between the housing members can be received on a board itself being received on one of the housing members and having a press-switch unit covered by the other one of the housing members and forming part of a press-switch system.
(12) PATENT APPLICATION PUBLICATION
(21) Application No.201847042052 A
(19) INDIA
(22) Date of filing of Application :07/11/2018
(43) Publication Date : 16/11/2018

(54) Title of the invention : SYSTEM FOR PERFORMING A VALIDITY CHECK OF A USER DEVICE

(51) International classification :G06Q50/30G07B15/00G07C9/00
(31) Priority Document No :16164948.8
(32) Priority Date :12/04/2016
(33) Name of priority country :EPO
(86) International Application No :PCT/EP2017/058460
   Filing Date :07/04/2017
(87) International Publication No :WO 2017/178389
(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 disclosed a system for performing a validity check of a user device having an application stored thereon. The apparatus comprises a coupling device operable to communicate with the user device via near field communication a processor and memory storing program code for execution by the processor and validity check data. The program code comprises executable instructions to receive a determinate user device identifier from the user device via the coupling device and to receive application data from the user device via the coupling device the application data being characteristic of the application stored on the user device. The program code processes the user device identifier and the application data to generate a test token and determines whether the test token is a valid token using the validity check data.

No. of Pages : 11 No. of Claims : 16
Title of the invention: ADHESIVE EXTENDER FOR MEDICAL ELECTRODE AND USE THEREOF WITH WEARABLE MONITOR

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Abstract:
The adhesive extenders can be used to cover and surround the medical electrode assemblies on the skin of a patient. A wearable monitor can be used to obtain electrogram data from the patient via the electrodes. [FIGURE 1]
The present disclosure relates, in part, to pharmaceutical compositions comprising one or more polynucleotides suitable for enhancing, increasing, augmenting, and/or supplementing the levels of Collagen alpha-1 (VII) chain polypeptide and/or Lysyl hydroxylase 3 polypeptide and/or Keratin type I cytoskeletal 17 polypeptide in a subject. The present disclosure also relates, in part, to pharmaceutical compositions and methods of use for providing prophylactic, palliative, or therapeutic relief of a wound, disorder, or disease of the skin in a subject, including a subject having, or at risk of developing, one or more symptoms of epidermolysis bullosa. [Figure 3]
The invention relates to a sole plate (5) of a steam iron comprising a cover (10; 11) and a heating sub-assembly, in which the surface of the cover intended for being in contact with a garment comprises a steaming area onto which the steam outlet holes (20) open and a drying area separate from the steaming area, the steaming area being located, at least partially, in the front third of said surface, the drying area being devoid of steam outlet holes and comprising a portion (15) projecting outwards at the centre of said surface.

[FIGURE 1]
Abstract:
Embodiments provide techniques for estimating seasonal indices for multiple periods. Some embodiments can receive a signal comprising a plurality of measures sampled over a span of time from an environment in which one or more processes are being executed. Some embodiments may then extract a seasonal effector and a de-seasonalized component from the signal. Next some embodiments can apply one or more spline functions to the seasonal effector to generate a first model. Some embodiments may then apply a linear regression technique to the de-seasonalized component to generate a second model. Some embodiments may then initiate actions associated with the code. Some embodiments may then generate a forecast of the signal based on the first model and the second model. Next some embodiments may initiate based at least in part on the forecast one or more actions associated with the environment.
Embodiments provide a thread classification method that represents stack traces in a compact form using classification signatures. Some embodiments can receive a stack trace that includes a sequence of stack frames. Some embodiments may generate, based on the sequence of stack frames, a trace signature that represents the set. Some embodiments may receive one or more subsequent stack traces. For each of the one or more subsequent stack traces, some embodiments may determine whether a subsequent trace signature has been generated to represent the sequence of stack frames included within the subsequent stack trace. If not, some embodiments may generate, based on the trace signature and other subsequent trace signatures that were generated based on the trace signature, the subsequent trace signature to represent the subsequent sequence of stack frames.
Title of the invention: HIGH-PRESSURE POLYMERIZATION PROCESS OF ETHYLENICALLY UNSATURATED MONOMERS

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2) HERRMANN, Thomas
3) LITTMANN, Dieter
4) FINETTE, Andre-Armand
5) WOLFRAM, Sven

Abstract:
A process for polymerizing or copolymerizing ethylenically unsaturated monomers at pressures in the range of from 110 MPa to 500 MPa in a production line comprising a continuously operated polymerization reactor wherein the process comprises monitoring the surroundings of the production line with respect to an occurrence of a leakage of monomers or of reaction mixture by an IR point detector arrangement of at least three groups of IR point detectors which are capable of detecting hydrocarbons and the groups of IR point detectors are operating according to a voting logic and starting automatically an emergency pressure release program when a group of IR point detectors of the IR point detector arrangement detects the presence of hydrocarbons.

No. of Pages: 28  No. of Claims: 15
The Patent Office Journal No. 46/2018 Dated 16/11/2018

| (12) PATENT APPLICATION PUBLICATION | (21) Application No.201847042188 A |
| (19) INDIA | |
| (22) Date of filing of Application :09/11/2018 | (43) Publication Date : 16/11/2018 |

| (54) Title of the invention : ULTRA-LOW TRANSMISSION LATENCY FOR SPORADIC NETWORK TRAFFIC |
| (51) International classification :H04L12/851H04L12/40H04L12/931 |
| (31) Priority Document No :16305643.5 |
| (32) Priority Date :02/06/2016 |
| (33) Name of priority country :EPO |
| (86) International Application No :PCT/JP2017/014886 |
| Filing Date :05/04/2017 |
| (87) International Publication No :WO 2017/208633 |
| (61) Patent of Addition to Application Number :NA |
| Filing Date :NA |
| (62) Divisional to Application Number :NA |
| Filing Date :NA |

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| (57) Abstract : |
The invention is related to a method for transmitting sporadic data stream (SStream) over a packet switched network carrying out further a transmission of priority data transmission within scheduled successive priority time windows. More particularly, the transmission of the sporadic data stream is preceded by a transmission of a reservation frame (RSVFrame) including information related at least to a timing for transmitting the sporadic data stream outside from said scheduled priority time windows. [Figure: 4]

No. of Pages : 20 No. of Claims : 15
A method in a communication system comprising a radio device and radio access network node the method comprising and/or initiating a step of setting in the radio device a length of a transmission time interval (TTI) in a physical uplink control channel; a step of transmitting control information by the radio device over the physical uplink control channel with the set transmission time interval length; and a step of changing the transmission time interval length to be set by said radio device based on a channel or payload characteristic between said radio device and said radio access network node.
In a stacked waveguide assembly the waveguides can comprise color filters distributed filters and/or switch materials. Examples of color filters include dyes tints or stains. Examples of distributed filters and/or switch materials include dichroic filters Bragg gratings electronically switchable glass and electronically switchable mirrors. Switch materials can be designed or tuned to attenuate light of unwanted colors or wavelengths. The waveguides may each be associated with a particular design wavelength. This can mean that a waveguide that is associated with a design wavelength includes an incoupling optical element is configured to deflect light at the design wavelength to an associated light distributing element and that the associated wavelength selective region is configured to attenuate light not at the design wavelength.
APPARATUS AND METHOD FOR USE IN A FLUE-CURED BARN

Abstract:
The present disclosure provides a method and apparatus for use in a flue-cured barn. The apparatus comprises a combustion chamber for burning fuel; an exhaust pipe for allowing combustion gases to leave the combustion chamber; and a fan for drawing the combustion gases along the exhaust pipe away from the combustion chamber and for generating a negative pressure within the combustion chamber and exhaust pipe compared with the pressure outside the apparatus.

No. of Pages : 14 No. of Claims : 24
**Title of the invention:** EXHAUST SYSTEM FOR A DIESEL ENGINE

An exhaust system for a diesel engine comprises: (a) an emissions control device for oxidising CO and/or HC wherein the emissions control device comprises a platinum group metal (PGM) and a substrate wherein the PGM is selected from platinum (Pt) palladium (Pd) and a combination thereof; (b) an injector for introducing an ammonia precursor into the exhaust gas which is downstream of the emissions control device; (c) a first selective catalytic reduction (SCR) catalyst downstream of the injector for introducing an ammonia precursor into the exhaust gas wherein the first SCR catalyst comprises a substrate and a first SCR composition wherein the substrate is either a flow-through substrate or a filtering substrate; (d) a second SCR catalyst downstream of the first selective catalytic reduction catalyst wherein the second SCR catalyst comprises a flow-through substrate and a second SCR composition; and wherein at least one of the emissions control device and the first SCR catalyst has a filtering substrate.

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2) AYDIN, Ceren
3) MULLA, Shadab
4) CONWAY, Raymond

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An exhaust system for a diesel engine comprises: (a) an emissions control device for oxidising CO and/or HC wherein the emissions control device comprises a platinum group metal (PGM) and a substrate wherein the PGM is selected from platinum (Pt) palladium (Pd) and a combination thereof; (b) an injector for introducing an ammonia precursor into the exhaust gas which is downstream of the emissions control device; (c) a first selective catalytic reduction (SCR) catalyst downstream of the injector for introducing an ammonia precursor into the exhaust gas wherein the first SCR catalyst comprises a substrate and a first SCR composition wherein the substrate is either a flow-through substrate or a filtering substrate; (d) a second SCR catalyst downstream of the first selective catalytic reduction catalyst wherein the second SCR catalyst comprises a flow-through substrate and a second SCR composition; and wherein at least one of the emissions control device and the first SCR catalyst has a filtering substrate.

No. of Pages: 43 No. of Claims: 33
A propylene composition comprising (percent by weight): A) 70%-95% of a propylene homopolymer having a Polydispersity Index (P.I.) value of from 4.6 to 10 a fraction insoluble in xylene at 25 °C higher than 90 % and MFR L (Melt Flow Rate according to ISO 1133 condition L i.e. 230°C and 2.16 kg load) from 47 to 90 g/10 min; B) 5%-30% of a copolymer of propylene containing from 40% to 34.5% extremes included of ethylene derived units; the composition having an intrinsic viscosity of the fraction soluble in xylene at 25 °C comprised between 3 and 5 dl/g.
Abstract:
Methods systems and apparatus including computer programs encoded on computer storage media for frequency based audio analysis using neural networks. One of the methods includes training a neural network that includes a plurality of neural network layers on training data wherein the neural network is configured to receive frequency domain features of an audio sample and to process the frequency domain features to generate a neural network output for the audio sample wherein the neural network comprises (i) a convolutional layer that is configured to map frequency domain features to logarithmic scaled frequency domain features wherein the convolutional layer comprises one or more convolutional layer filters and (ii) one or more other neural network layers having respective layer parameters that are configured to process the logarithmic scaled frequency domain features to generate the neural network output.
A transmitter in a first wireless communication device and method therein are disclosed. The transmitter comprises a modulator and a rate selector configured to select a data rate. The rate selector comprises an input configured to receive input bits and an output to provide the bits with the selected data rate. The transmitter further comprises a bit to symbol mapper configured to receive the bits from the rate selector and map the bits to symbols of an arbitrary alphabet. The transmitter further comprises a spreading unit configured to spread the symbols received from the bit to symbol mapper to a chip sequence by means of a spreading code. The transmitter further comprises a re-mapping unit configured to map the chip sequence received from the spreading unit to produce signals for providing to the modulator.
(54) Title of the invention : DEVICE WITH RULE BASED OFFERS

| (51) International classification : G06Q30/06G06Q30/02H04W88/02 |
| (31) Priority Document No : 15/130,760 |
| (32) Priority Date : 15/04/2016 |
| (33) Name of priority country : U.S.A. |
| (86) International Application No : PCT/US2017/023655 |
| Filing Date : 22/03/2017 |
| (87) International Publication No : WO 2017/180305 |
| (61) Patent of Addition to Application Number : NA |
| Filing Date : NA |
| (62) Divisional to Application Number : NA |
| Filing Date : NA |

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(57) Abstract :
A decentralized offer management system is described. An appliance may be capable of storing and managing offers related to the appliance without communication with a central server. The appliance may receive and store offer attributes related to offers received from an offer provider computer. When a user utilizes their user device to communicate with the appliance, the appliance may determine offers related to the stored offer attributes that can be provided to the user. In some cases, the offers may be specific to the appliance or specific to the user. The appliance may send an offer to the user device, where the offer may indicate that the user is to perform certain actions to qualify to redeem the offer. The appliance may verify that the user has performed such actions before enabling the offer to be redeemed. [Figure 1]
The invention relates to a high-pressure line for conveying a fluid under high pressure to a consumer, in particular for supplying fuel under injection pressure to one or more injectors (14) of a combustion engine. It comprises a first (1), a second (2), and a third line section (3), which line sections (1, 2, 3) are flowed through successively in the intended operation of the high-pressure line and are jointly formed by a one-piece component (4) made of metal, wherein the first line section (1) and the third line section (3) each have a smaller flow cross-section than the second line section (2) arranged between them. With the high-pressure lines according to the invention, it becomes possible to create common-rail injection systems which, even without injectors with integrated or attached individual stores and with a correspondingly small space requirement in the region of the cylinder head, provide a separate store close to the injector for each injector from which it is supplied, so that pressure oscillations in the system can be largely prevented and a very good injection quality and long life span can be achieved. Figure 1

No. of Pages : 18 No. of Claims : 41
The invention relates to a cylinder (10) comprising a cylindrical body (11). In the case of this cylinder a first proportion of the circumferential face (48) of the cylindrical body (11) is of porous and gas-permeable configuration and a second proportion of the circumferential face (48) of the cylindrical body (11) is of gas-impermeable configuration, where the porous, gas-permeable first proportion of the circumferential face (48) is in communication with at least one gas supply line and where the first proportion of the circumferential face (48) amounts to at least 0.1% and at most 50%. Further aspects of the invention relate to a corresponding adapter sleeve (10) and to a corresponding printing forme cylinder. (Figure 6)
A process for polymerizing or copolymerizing ethylenically unsaturated monomers at pressures in the range of from 110 MPa to 500 MPa in a production line comprising a continuously operated polymerization reactor, wherein at least one of a pre-heater or pre-cooler, a polymerization reactor or a post reactor cooler is composed of tubes of a length from 5 m to 25 m which are flanged together, either directly or via bends, and the flanges are covered by a chimney construction, and wherein air is conveyed through the chimney construction and the air exiting the chimney construction is monitored with respect to the hydrocarbon concentration.
Title of the invention: RAPID QUANTITATIVE EVALUATIONS OF HEART FUNCTION WITH STRAIN MEASUREMENTS FROM MRI

Abstract:
Rapid quantitative evaluations of heart function are carried out with strain measurements from Magnetic Resonance Imaging (MRI) images using a circuit at least partially on board or in communication with an MRI Scanner and in communication with the at least one display the circuit including at least one processor that; obtains a plurality of series of MRI images of long and short axis planes of a heart of a patient with each series of the MRI images is taken over a different single beat of the heart of the patient during an image session that is five minutes or less of active scan time and with the patient in a bore of the MRI Scanner; measures strain of myocardial heart tissue of the heart of the patient based on the plurality of series of MRI images of the heart of the patient; and generates longitudinal and circumferential heart models with a plurality of adjacent compartments wherein the compartments are color-coded based on the measured strain. [Figure 1].

No. of Pages: 46 No. of Claims: 42
The inside of a housing of a power conversion device (1) is partitioned by partitioning walls and the power conversion device (1) is configured from an open section (10) into which external air flows a first airtight section (20) which is adjacent to the open section (10) and into which external air does not flow and a second airtight section (30) which is adjacent to the first airtight section (20) and into which external air does not flow. At least two ventilation holes (22) are formed in a partition wall (21) between the first airtight section (20) and the second airtight section (30). A circulation fan (25) is provided to at least one of the ventilation holes (22). The outer surface of the first airtight section (20) is provided with a heat sink (23) that dissipates heat transferred from an electronic component housed in the first airtight section (20) said heat sink being exposed to the open section (10).
**Title of the invention**: URINATION PREDICTION AND MONITORING

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2. ZYGLOWICZ, Steven
3. BAKER, Tim
4. COBLE, Jon

**Abstract**:
A system for predicting and detecting urination events of users is disclosed. The system can include any number of wearable devices, mobile devices, hubs, computing devices, and servers to collect, share, process, and interpret data as well as to provide stimuli to users and caregivers. Biometric and/or environmental data associated with a user can be collected and applied to a urination model to determine a predicted urination time. The user or a caregiver can be provided with direct or environmental stimuli conveying information about predicted urination times. Ongoing biometric and/or environmental data collection can be used to identify and provide stimuli warning of imminent urination events. Voluntary and involuntary feedback of actual urination events as well as continued biometric and/or environmental data collection can be used to train individual and collective urination models.

No. of Pages: 37 No. of Claims: 21
A method for communication by a scanner is described. The method includes receiving a broadcast message from a broadcasting device in a connectionless mode. The method also includes performing back channel communication with the broadcasting device on a contention basis while maintaining the connectionless mode. The scanner may send a packet to the broadcasting device while maintaining a connectionless relationship with the broadcasting device.
Title of the invention: FOCUS PULLING WITH DISTANCE INFORMATION FROM A SECONDARY CAMERA SYSTEM

Abstract:

The present invention relates to a method for switching focus between objects (a, b, c, d, e) found simultaneously in an image area from a main camera (1) used in film production where the focus of the main camera (1) and a switch between different focus distances can be controlled by means of a remote follow focus unit (2) connected to the main camera. A secondary system (4) and a computer system (5) for tracking the distance to at least a first and a second object (a, b) is used to measure the distance (da, db) to both the first and second object simultaneously and continuously. The distance information from the secondary system (4) regarding the distance to the first object (a) is used by the follow focus unit (2) as a focus distance to set the focus of the main camera (1) on the first object (a). The distance information from the secondary system (4) regarding the distance to the second object (b) is used by the follow focus unit (2) as a focus distance to switch the focus of the main camera (1) from the first object (a) to the second object (b). The secondary system (4) and the computer system (5) obtains the distance information by means of a secondary camera system (41).
(54) Title of the invention: MOLDED RESPIRATOR WITH INTEGRAL NOSE PADS PROVIDED BY INWARDLY-FOLDED TABS

(51) International classification: A41D13/11
(31) Priority Document No: NA
(32) Priority Date: NA
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(61) Patent of Addition to Application Number: NA
   Filing Date: NA
(62) Divisional to Application Number: NA
   Filing Date: NA

(57) Abstract:
Abstract MOLDED RESPIRATOR WITH INTEGRAL NOSE PADS PROVIDED BY INWARDLY-FOLDED TABS A filtering face-piece respirator having a cup-shaped, molded mask body and having integral nose pads provided by inwardly-folded tabs, which tabs are integral extensions of at least one layer of the mask body. [Figure: 1]

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

**Title of the invention:** TARGETED DEPOSITION OF DENTAL CARE COMPOUNDS

**Abstract:**

ABSTRACT TARGETED DEPOSITION OF DENTAL CARE COMPOUNDS

Methods, systems, and apparatus, including computer programs encoded on a computer storage medium, for receiving an image of the area of the mouth. Identifying a feature of interest within the image. Determining an actual reflectance and an actual topology of the feature of interest. Determining a desired reflectance and a desired topology of the feature of interest. Calculating an amount of DCA to be applied to a portion of the feature of interest based on comparing the actual reflectance to the desired reflectance and the actual topology to the desired topology. Causing the calculated amount of DCA to be applied to the portion of the feature of interest. [Figure 2]
A hardware system is disclosed for active-core-based performance boost. In an example aspect, the hardware system includes multiple cores and a power mode manager. Each core can be powered up if active or powered down if inactive. The power mode manager manages a power mode collection including an independent power mode collection and an active-core-dependent power mode collection. The power mode manager includes a software-accessible power mode manager and a hardware-reserved power mode manager. The software-accessible power mode manager provides a power-mode-triggering pathway to enable software to trigger activation of an independent power mode of the independent power mode collection. The hardware-reserved power mode manager excludes the software from being able to trigger activation of a dependent power mode of the active-core-dependent power mode collection and triggers activation of a dependent power mode of the active-core-dependent collection based on a number of active cores of the multiple cores.
Title of the invention: PHOTOGRAPHING APPARATUS AND CONTROL METHOD THEREOF

Abstract:
A photographing apparatus is disclosed. A photographing apparatus according to one embodiment comprises: a first image sensor; a second image sensor; and at least one processor functionally coupled to the first image sensor and the second image sensor wherein the at least one processor may be configured to: obtain by using the first image sensor a first image which includes a first pixel a second pixel adjacent to the first pixel and a third pixel adjacent to the second pixel in an area other than the area in which the second pixel and the first pixel are adjacent; obtain by using the second image sensor a second image which includes a fourth pixel associated with the first pixel on the basis of the position thereof and a fifth pixel adjacent to the fourth pixel and associated with the second pixel on the basis of the position thereof; determine whether a difference in luminance between the first pixel and the second pixel falls within a designated range; and when the difference in the luminance between the first pixel and the second pixel falls within the designated range generate color information corresponding to at least one of the first pixel and the second pixel at least on the basis of the color information of the fourth pixel and the color information of the fifth pixel.
The present invention relates to peptides proteins nucleic acids and cells for use in immunotherapeutic methods. In particular the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor-associated T-cell peptide epitopes alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC) or peptides as such can also be targets of antibodies soluble T-cell receptors and other binding molecules.
A wind turbine blade (2) including a protective cover (1) attached along the blade by a layer (16) of adhesive. The adhesive is a general purpose adhesive such as a two component epoxy adhesive having thixotropic and UV resistant properties and the adhesive forms a joint (21 22) or sealing between an outer edge (30) of the cover section of the blade and the surface of the blade so that the outer edge is covered by the adhesive and so that the joint forms an oblique surface from the outer edge to the surface of the blade. The joint has a first height (h1) at the outer edge and a second height (h2) at the position where it ends at the surface of the blade. The second height is smaller than the first height and smaller than 0.2 millimetres and the joint is integrally formed with the layer of adhesive.
**Title of the invention**: SECURITY MANAGEMENT DEVICE CENTRAL SECURITY MANAGEMENT DEVICE SECURITY MANAGEMENT METHOD AND SECURITY MANAGEMENT PROGRAM

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**Abstract**:
A second communication unit (411) of a security management apparatus (201) externally receives dependency information (412) indicating a dependence relation between information assets individually held by a first system and a second system. Then, a selection unit (415) of the security management apparatus (201) selects a security measure to be implemented, from among candidates for a security measure against a threat to an information asset held by the first system, in accordance with a dependence relation indicated by the dependency information (412) received by the second communication unit (411).

No. of Pages: 70  No. of Claims: 11
The present specification discloses Trypanosoma antigens immunogenic compositions and medicaments comprising such Trypanosoma antigens methods and uses for such Trypanosoma antigens and immunogenic compositions for treating a Trypanosoma-based disease.
ABSTRACT CONTINUOUS DYEING PLANT FOR WARP THREADS COMPRISING AN OXIDATION APPARATUS HAVING VARIABLE AND RECOVERABLE CAPACITY

The invention describes a continuous dyeing plant for a warp thread comprising a plurality of dyeing/squeezing groups arranged in line, each of which is provided with a respective impregnation or dyeing tank in which the warp thread is immersed. The plant also comprises an oxidation apparatus that comprises a plurality of upper and lower return rollers, configured to arrange the warp thread on a plurality of vertical planes parallel to each other, and a support frame consisting of at least one upper strut and at least one lower strut. A plurality of upper return rollers are mounted on the upper struts. At least one part of the lower return rollers is rotatably mounted on at least one respective support device that is movable in the vertical direction between a first operating position, in which the movable support device is placed close to the lower struts to keep the lower return rollers at a maximum predefined distance from the corresponding upper return rollers, and a second operating position, in which the movable support device is placed close to the upper struts to keep the lower return rollers at a minimum predefined distance from the corresponding upper return rollers. [FIGURE 3]
The invention relates to a lubricant circuit for a rotating hollow shaft (6), comprising a fixed tube (3) for delivering a lubricant into one end of the rotating hollow shaft (6), said end having a screw (7) that is coaxial to the hollow shaft (6) and the screw (7) having a coaxial through-hole (11), and further comprising an end piece (8) arranged in extension of the tube (3), said end piece (8) having an axial bore (19) and an elastic lip (9) which is in radial engagement inside the through-hole (11). Figure 1.
**Title of the invention:** BASE STATION MOBILE STATION AND MOBILE COMMUNICATION SYSTEM

| (51) International classification | :H04W56/00H04W16/32 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
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| (86) International Application No | :PCT/JP2016/066305 |
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**Abstract:**
The present invention relates to a small cell base station (3) covering a small cell located in a macro cell the small cell base station (3) comprising: a cell search unit (307) that executes a cell search to detect a timing of reception of a downlink signal transmitted from a macro cell base station serving as a base station covering the macro cell; and an L2 function unit (303) that executes communications with the macro cell base station by means of random access and that acquires transmission timing information serving as information of a timing of transmitting an uplink signal to the macro cell base station the small cell base station (3) transmitting a downlink signal directed to a mobile station in synchronization with the timing of reception of the downlink signal and receiving the uplink signal from the mobile station at a timing based on the transmission timing information.

No. of Pages : 34 No. of Claims : 14
Title of the invention: NETWORK SLINGHOP VIA TAPESTRY SLINGSHOT

Abstract:
A network system for providing long haul network connection between endpoint devices is disclosed. The network system includes a first and a second endpoint devices, a first and a second exchange servers, a first access point server coupled between the first endpoint device and the first exchange server, a second access point server coupled between the second endpoint device and the second exchange server, a first storage node coupled between the first exchange server and the second exchange server, and a second storage node coupled between the first exchange server and the second exchange server. The first exchange server is configured to convert first packetized traffic into a carrier file and write the carrier file to the second storage node. The second exchange server is configured to read the carrier file from the second storage node and convert the carrier file into second packetized traffic. [Figure 28]

No. of Pages : 34 No. of Claims : 5
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(31) Priority Document No: 62/327907
(32) Priority Date: 26/04/2016
(33) Name of priority country: U.S.A.
(86) International Application No: PCT/IB2017/000557
   Filing Date: 26/04/2017
(87) International Publication No: WO 2017/187263
(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 for routing data from a node to a parallel file system are disclosed. In some embodiments a network system can include nodes parallel file systems segments a control server an endpoint device and an access point server. Each of the segments can connect two nodes. The access point server and the endpoint device can be connected with a first tunnel. The access point server and the control server can be connected with a second tunnel.

No. of Pages: 33 No. of Claims: 7
A positioning device is provided with a rigid-body-conversion unit (13) for selecting a plurality of feature point pairs Pa-b from among all the feature point pairs Pa-b retrieved by a pair retrieval unit (12) calculating from the selected feature point pairs Pa-b a matrix G for use in the rigid body conversion of three-dimensional point cloud data B and using the matrix G to carry out rigid body conversion on the three-dimensional point cloud data B. The rigid-body-conversion unit (13) is configured so as to repeatedly carry out selection processing for selecting the plurality of feature point pairs Pa-b and repeatedly carry out calculation processing for calculating the matrix G and rigid-body-conversion processing for carrying out rigid body conversion on the three-dimensional point cloud data B.
Disclosed are a system apparatus and method for rolling shutter compensation. An image having a plurality of scanlines captured at different times may be received from a rolling shutter camera where each scanline includes a plurality of 2D pixels and where each scanline has an associated camera pose. One or more 2D pixels in a first scanline of the received image to 3D pixels may be unprojected and the 3D coordinates may be transformed from the first scanline to a reference pose. The transformed 3D coordinates may be reprojected and in response to the reprojecting reference timeframe corrected 2D coordinates for the one or more 2D pixels in the first scanline may be provided.
A nimodipine injection concentrate and diluted formulation comprises nimodipine (base or salt) an effective amount of a hydrophilic surfactant and a pharmaceutically acceptable carrier for injection which is an aqueous solution an organic solvent an oil or a cyclodextrin such that the nimodipine is substantially contained in a concentrated injection solution suspension emulsion or complex as a micelle or a colloidal particle or an inclusion complex and the formulation is stable and clear. In certain embodiments the hydrophilic surfactant is polysorbate 80.
**Title of the invention:** ELECTRONIC DEVICE INCLUDING CAMERA MODULE

**Abstract:**
An electronic device includes a camera module, a board, and a first member fixed to the board. A second member is movably connected to the first member, and formed in at least a portion of the first member. A control member is connected to the first member and the second member so as to control the second member in response to a movement of the electronic device. [FIG: 4]
(54) Title of the invention : A PROCESSOR AND A PROCESS FOR GRANULATION OF POWDERS

(51) International classification : B01F7/00B01F15/02B29B7/48
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(57) Abstract :
A fractional lobe processor is disclosed. The fractional lobe processor comprises an intake zone comprising at least one deep flighted shovel element on each intermeshing screw for receiving an input blend comprising an active substance and an excipient; a granulation zone consisting of only fractional lobe elements and having a provision for introducing moisture or a binder solution for granulating the active substance and the excipient; an optional drying zone for drying the wet granules; and a discharge zone for discharging the granules; wherein the granulation zone is located before the discharge zone and after the intake zone; wherein the drying zone has one or more fractional lobe elements on each shaft; and wherein the granulation zone has a plurality of fractional lobe elements on each shaft.

No. of Pages : 31 No. of Claims : 17
A fractional lobe processor is disclosed. The fractional lobe processor comprises: a barrel with heating and cooling means having two parallel intersecting bores of equal diameter wherein the centre distance between the two bores is lesser than the diameter of the bore; a shaft coupled with a plurality of screw elements to form a screw within each bore wherein the screws are intermeshing and wherein the screws form at least three zones within the barrel the zones comprising an intake zone comprising at least one deep flighted shovel element on each intermeshing screw for receiving a feed comprising an active substance and/or an excipient a melt zone consisting of only fractional lobe elements for melting the active substance and/or an excipient a discharge zone wherein the melt zone is located before the discharge zone and after the intake zone; and wherein the melt zone has a plurality of fractional lobe elements on each shaft.
The invention discloses an improved method of cryopreservation using nanostructured mannosylerythritol lipids; especially MEL-A synthesized from *Pseudozyma antarctica* (JCM10317), wherein, the viability and stability of the revived biological material are better in comparison to the other known cryoprotectants. The MEL-A when applied to or mixed with biological samples like bacteria, plant or animal tissues or their parts and stored in negative temperature; on revival the cells/tissues exhibit better or similar viability and stability in comparison to other known cryoprotectants.

No. of Pages : 27 No. of Claims : 5
IMAGE PROCESSING DEVICE AND IMAGE PROCESSING METHOD PERFORMING SLICE-BASED COMPRESSION

Disclosed are an image processing device and an image processing method performing a slice-based compression. The image processing method includes applying a first compression method to some slices of a first frame image including first to N-th slices (N is an integer of 2 or greater) to generate (S1) an I-slice, applying a second compression method to the other slices of the first frame image to which the first compression was not applied to generate (S12) a plurality of P-slices, and transmitting L packets including the generated I-slice and the generated P-slices with respect to the first frame image, wherein L is an integer less than N.

No. of Pages: 60  No. of Claims: 25
Certain aspects of the present disclosure generally relate to techniques for enhanced puncturing and low-density parity-check (LDPC) code structure. A method for wireless communications by a transmitting device is provided. The method generally includes encoding a set of information bits based on a LDPC code to produce a code word the LDPC code defined by a base matrix having a first number of variable nodes and a second number of check nodes; puncturing the code word according to a puncturing pattern designed to puncture bits corresponding to at least two of the variable nodes to produce a punctured code word; adding at least one additional parity bit for the at least two punctured variable nodes; and transmitting the punctured code word.
Methods systems and devices are described for wireless communications. A recipient device may receive a session initiation request from an originator device. The recipient device may support a first fragmentation configuration that supports inclusion of multiple data fragments per transmission data unit. The recipient device may determine to use a second fragmentation configuration in place of the first fragmentation configuration where the second fragmentation configuration supports inclusion of fewer data fragments per transmission data unit than that supported by the first fragmentation configuration. The recipient device may then transmit a session initiation response indicating use of the second fragmentation configuration.
Title of the invention: MOST-INTERESTED REGION IN AN IMAGE

Abstract:
A device for determining information for video data includes one or more processors implemented in circuitry that are configured to determine one or more most-interested regions of a plurality of regions of an image of video data based on data representative of the one or more most-interested regions. The data representative of the one or more most-interested regions is external to video coding layer (VCL) data of a bitstream including the video data. The processors output a request for relatively high-quality video data for the one or more most-interested regions of the image and output after outputting the request for the relatively high-quality video data a request for relatively low-quality video data for one or more other regions of the image.

No. of Pages: 46 No. of Claims: 44
An Unmanned Aerial Vehicle (UAV) for smooth flight and functioning. More particularly, the present invention relates to a lightweight flexible UAV capable of flying in severe climatic conditions. The UAV further comprises of Frame, Bounding box [2], Rotor base frame, motors [3], arms [5], electronic speed controller, power distribution board, Global positioning system, motor mounting assembly [8], battery fixture assembly, payload holding plate, payload mounting plate, flight controller, battery plate [7] and landing gear [6]. Further, the present invention relates to a design to improve transportability, with increased flight time and reduced All-up-weight.
Aspects may relate to a computing device that comprises a processor operable in a secure mode and a memory. The processor may be configured to: obtain a first layer of graphics that includes image elements; obtain a second layer of graphics that includes image elements; randomly select an image element from the first layer of graphics; randomly select an image element from the second layer of graphics; and compose the selected image elements from the first and second layer of graphics to create a composed random image. Further the processor may command the memory to store the composed random image.
**Title of the invention:** COMBINE HARVESTER

**Abstract:**
Provided is a combine harvester capable of harvesting an appropriate amount of grain according to an empty space in a drying machine while reducing the operators labor. A yield sensor can carry out a first measurement \( U_1 \) in which a grain storage amount is intermittently measured while a traveling machine body is made to travel while harvesting and a second measurement \( U_2 \) in which a grain storage amount is measured on the basis of manual operation while the traveling machine body is in a stopped state. A calculating unit calculates the total yield on the basis of a first measurement amount \( M_1 \) by the first measurement \( U_1 \) and a second measurement amount \( M_2 \) by the second measurement \( U_2 \). The combine harvester includes a determining unit that determines whether the total yield exceeds a target storage amount \( M_I \) that is based on a requested grain amount requested by the drying machine and a notifying unit that carries out completion notification \( T_3 \) when the determining unit determines that the total yield exceeds the target storage amount \( M_I \).
**Title of the invention:** UPLINK TRANSMISSION GAPS IN EMTC

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**Name of Applicant:**
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Address of Applicant: ATTN; International IP Administration, 5775 Morehouse Drive, San Diego, California 92121-1714 U.S.A.

**Name of Inventor:**
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2) GAAL, Peter
3) XU, Hao

**Abstract:**
Aspects of the present disclosure provide techniques and apparatus for uplink transmission gaps in enhanced machine type communications (eMTC). In one aspect, a method is provided which may be performed by a wireless device such as a user equipment (UE), which can be a low cost eMTC UE. The method generally includes transmitting a random access preamble, receiving a random access response in response to the random access preamble, transmitting an uplink message containing an indication of a capability of the UE to transmit using uplink gaps, and receiving signaling of configuration information regarding uplink gaps.

No. of Pages: 33
No. of Claims: 28
Title of the invention: UPLINK-BASED CELL SELECTION

Abstract:
Aspects of the present disclosure provide apparatus and techniques that may be applied in systems for improving reliability of cell selection to ensure that a UE is capable of transmitting on the uplink in addition to receiving on the downlink upon mobility. An exemplary method performed by a user equipment (UE) generally includes receiving reference signals from one or more transmission reception points (TRPs) in a wireless communications network pre-selecting based on the received reference signals a first TRP of the one or more TRPs from which to receive wireless service transmitting an uplink (UL) signal to the first TRP receiving from the first TRP feedback comprising information about the UL signal and determining based at least in part on the feedback to select the first TRP from which to receive the wireless service.

No. of Pages : 34 No. of Claims : 28
Title of the invention: NON-EQUAL BIT ALLOCATION FOR COEXISTENCE WITH SCALED NUMEROLOGY SYSTEMS

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Abstract:
Aspects of the present disclosure describe a guard band signal for communication on a guard band between a first frequency band utilized by a first radio access technology having a first sub-carrier spacing and a second frequency band utilized by a second radio access technology having a second sub-carrier spacing that is a multiple of the first sub-carrier spacing. The guard band signal includes a symbol that is repeated a number of times equal to the multiple. The guard band signal may be generated and transmitted by a transmitting device. The guard band signal may be received and decoded by a receiving device. The guard band signal is interpretable according to a first numerology of the first radio access technology and according to a second numerology of the second radio access technology.

No. of Pages: 30 No. of Claims: 30
Methods systems and devices for wireless communication are described. A transmitter such as a user equipment and/or a base station may perform polar coding to encode bits. The polar coding may be associated with a plurality of component channels associated with a polar code length. The transmitter may interleave the encoded bits. The transmitter may map the interleaved encoded bits to a modulation symbol. The interleaving and mapping of each encoded bit may be based on an asymmetry of a polar code construction. The transmitter may transmit the interleaved encoded bits based on the mapping.
(21) Application No.201741008602 A
(19) INDIA
(22) Date of filing of Application :13/03/2017
(43) Publication Date : 16/11/2018

(54) Title of the invention : AERIAL VEHICLES WITH BLADELESS PROPELLERS

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(57) Abstract : AS ATTACHED

No. of Pages : 25 No. of Claims : 13
In a process of beam change, the base station transmits a beam change instruction to a user equipment to confirm a change from a current beam to another beam. The base station determines to change from a first beam to a second beam. The base station generates a beam change instruction to indicate the determination to change from the first beam to the second beam. The base station transmits, to a UE, the beam change instruction in a downlink control information (DCI). The base station determines whether or not the beam change instruction is detected by the UE.
A device for determining information for video data includes one or more processors implemented in circuitry that are configured to determine one or more most-interested regions of a plurality of regions of an image of video data from data representative of the one or more most-interested regions. The one or more processors are further configured to generate a request specifying the one or more most-interested regions using the data representative of the one or more most-interested regions and output the request to a server device.
The present invention relates to a surgery device (1) for operating on the human knee. The surgery device (1) comprises a guide component (10) and a tensioning component (20). The guide component (10) comprises a base body (110) having a base surface (111) for disposing on a tibial end face (5) and comprises guide elements (120) extending from the base surface (111). The tensioning component (20) is set up for tensioning the guide component (10) such that the ligaments of the knee are uniformly tensioned in the flexed state of the knee. A truing and drilling component (30) for truing and drilling a femoral end face (4) can be pushed onto the guide elements (120) and fixed at various positions relative to the base surface (111). The risk of injury and misuse during the surgery on a human knee is reduced and the duration of surgery is shortened by means of the surgery device according to the invention.
**Title of the invention:** METHOD AND APPARATUS FOR PREEMPTING TRAFFIC IN A LICENSED FREQUENCY BAND FOR MISSION CRITICAL COMMUNICATIONS

| (51) International classification | :H04W72/12H04W36/14 |
| (31) Priority Document No | :15/170896 |
| (32) Priority Date | :01/06/2016 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/US2017/032710 |
| Filing Date | :15/05/2017 |
| (87) International Publication No | :WO 2017/209933 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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**Name of Inventor:**
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2) LI, Junyi

**Abstract:**
Various types of communication may switch from an unlicensed spectrum to a licensed spectrum. MiCr communication may be synchronized based on transmission time intervals (TTIs) which may improve the duration required to switch between bands. A MiCr system may transmit a signal to temporarily suspend other traffic in a licensed band so that MiCr communication may occur. For example, an apparatus may be configured to determine synchronization between a first radio access technology (RAT) and a second RAT based on transmission time intervals associated with the first RAT and transmission time intervals associated with the second RAT switch from the first RAT to the second RAT after the determined synchronization between the first RAT the second RAT. Further, the apparatus may transmit a silencing signal to suspend traffic in the second RAT.

No. of Pages: 57
No. of Claims: 30
Title of the invention: MULTICAST AND/OR BROADCAST FOR ENHANCED MACHINE TYPE COMMUNICATIONS AND/OR NARROWBAND INTERNET-OF-THINGS

| (51) International classification | H04W4/06H04W4/00 |
| (31) Priority Document No | 62/346,507 |
| (32) Priority Date | 06/06/2016 |
| (33) Name of priority country | U.S.A. |
| (86) International Application No | PCT/US2017/032420 |
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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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Abstract:
Aspects of the present disclosure provide techniques and apparatus for multicast/broadcast for enhanced machine type communications (eMTC) and/or narrowband internet-of-things (NB-IoT). In one aspect a method is provided which may be performed by a wireless device such as a user equipment (UE) which can be a low cost device such as an eMTC UE or NB-IoT device. The method generally includes determining at least one narrowband region of a wideband region for receiving at least one of: multicast information or broadcast information in at least one subframe; and receiving the at least one of: the multicast information or the broadcast information in the determined at least one narrowband region in the at least one subframe.
Certain aspects of the present disclosure generally relate to using cross-coupled transistors for source degeneration of an amplification stage. For example the amplification stage generally includes a differential amplifier comprising transistors cross-coupled transistors coupled to the differential amplifier and an impedance coupled between drains of the cross-coupled transistors. In certain aspects the differential amplifier comprises a push-pull amplifier and the transistors of the push-pull amplifier comprise cascode-connected transistors.
**Title of the invention:** USE OF ZEOLITE NU-86 FOR NAPHTHA CATALYTIC CRACKING

**Abstract:**
The invention relates to a process for the catalytic cracking of a gasoline feedstock for the production of light olefins, in which said gasoline feedstock is brought into contact with a catalyst comprising at least one zeolite NU-86, alone or in a mixture with at least one other zeolite, at a temperature comprised between 500 and 700°C, at an absolute pressure comprised between 10 and 60 MPa, and with a contact time of the feedstock on said catalyst comprised between 10 milliseconds and 100 seconds.

No. of Pages : 23 No. of Claims : 13
### Patent Application Publication

**Title of the invention:** DETERMINING A RELATIONSHIP BETWEEN A FIRST AND A SECOND NODE

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**Name of Inventor:**
1. MOOSAVI, Reza
2. GUNNARSSON, Fredrik
3. HESSLER, Martin
4. RAMACHANDRA, Pradeepa

**Abstract:**
It is provided a method for determining a relationship between a first node and at least one second node each serving one different or the same wireless communication network the method comprising the steps of detecting pilot contamination; and determining a relationship between the first node and at least one of the second nodes based on the detected pilot contamination.

**No. of Pages:** 28  **No. of Claims:** 11
The present application relates to the field of wireless communications and particularly relates to resource scheduling technology for vehicle-to-vehicle communications in a wireless communication system. In a resource scheduling method interaction between vehicles is performed by means of respective terminals thereof. A first terminal apparatus receives a message of a second vehicle sent by at least one second terminal apparatus and the message of the second vehicle carries vehicle state information of the second terminal apparatus. The first terminal apparatus determines a past resource usage condition of the at least one second terminal apparatus and selects according to the vehicle state information indicating a vehicle position and moving state of the second terminal apparatus a first resource for sending a message of a first vehicle. The past resource usage condition indicates a resource used by the second terminal apparatus for sending a vehicle message and whether the resource usage is reasonable. The solution provided in the present application enables a moving vehicle to select by using prior past information of resource usage of surrounding vehicles a resource for message transmission thus improving reliability and fairness of resource scheduling during a vehicle communication process.
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**Title of the invention:** CHANNEL STATE INFORMATION FEEDBACK METHOD, BASE STATION, TERMINAL DEVICE, AND SYSTEM

**Abstract:**

The present invention discloses a method for base station, terminal device and system for channel state information feedback. The method comprises: the terminal device receiving a reference signal transmitted by the base station; the terminal device determining channel state information according to the reference signal; and the terminal device transmitting the channel state information to the base station for the base station to determine a precoding matrix F. The precoding matrix F is \( F = C_1 C_2 W \) where \( C_1 \) is a first level precoding matrix, \( C_2 \) is a second level precoding matrix, and \( W \) is a third level precoding matrix. The channel state information corresponding to \( C_1 \) comprises an information of a beam. The channel state information corresponding to \( C_2 \) comprises a long-term broadband channel information. The channel state information corresponding to \( W \) comprises an instantaneous channel information. The present patent application can reduce the overall pilot and CSI feedback overhead thereby increasing the system throughput. REFER TO FIGURE 7.

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**Name of Inventor:**

1) WU, Lu
2) BI, Xiaoyan
3) SHANG, Peng

No. of Pages: 36 No. of Claims: 20
ABSTRACT The various embodiments of the present invention provide a method and system for digitizing healthcare sector by providing a real-time cloud based mobile and web application. The system comprises a Near Field Communication (NFC) enabled card namely Health Card for authenticating and authorizing user of the mobile application. The said mobile application of the user interacts with the centralized web application. The interaction of different mobile application for different segment with centralized web application helps in digitizing these segments. By embedding IoT-enabled devices in medical equipment, the healthcare professional monitor patients more effectively and use the data gleaned from the devices to figure out who needs the most hands-on attention. This enables healthcare professionals to use data for creating a system of proactive management. The method and system further provides emergency medical response with the help of an emergency healthcare mobile application. Dated this 13st day of May, 2018 FOR GANESH D R and MOHAMMED ILYAZ BY THEIR AGENT (DR. BABITHA THARAPPAN) IN/PA-1614 ATV-LEGAL
A spray device 2 according to one embodiment includes a liquid reservoir 60 that stores the liquid L to be sprayed, a liquid supply unit 58 that supplies the liquid to the liquid reservoir, and a spray unit 62 which is in communication with the liquid reservoir and is configured to spray the liquid in the liquid reservoir, wherein a liquid supply port 582a of the liquid supply unit is arranged in the liquid reservoir in a state where the liquid supply port faces a bottom portion 68 of the liquid reservoir in the liquid reservoir, and is apart from the bottom portion, and the liquid reservoir is opened to atmosphere.
Various features pertain to the authentication of mobile devices or other User Equipment. In some aspects a Retail-based Neutral Host LTE is provided for use with Long Term Evolution (LTE) networks that among other features provides a WiFi Alliance HotSpot 2.0 (HS2.0) user experience using LTE technology for non-mobile network operator (non-MNO) Service Providers (SPs) while maintaining high security assurances as with LTE. That is in some examples Retail Neutral Host-LTE is configured to provide the same or similar security assurances as with MNO-based LTE. Moreover retail Neutral Host-LTE offers options for provisioning credentials and authentication with the AAA that are analogous to the options for HS2.0 that is: username/password SP-issued certificate and pre-configured mobile device certificate. This is achieved at least in part while providing or ensuring that Retail Neutral Host-LTE security provides similar security assurances to MNO-based LTE.
Dynamic reconfiguration of CSI-RS resources for CSI reporting is described for full dimension multiple input multiple output (FD-MIMO) systems. While a larger number of channel state information (CSI) reference signal (CSI-RS) resources with independent resource configuration are configured and associated with a CSI process only a subset of resources that are activated by additional signaling are used for CSI measurement and reporting. The set of activated CSI-RS resources may include only a single CSI-RS resource. Both periodic and aperiodic CSI reporting may then be based on the same set of the activated CSI-RS resources. Medium access control (MAC) control elements may be used to provide activation/deactivation of the CSI-RS resources. Additionally CSI reporting may be based on both the activated CSI-RS resources and the associated number of antenna ports.
A burner apparatus (10) includes a fluid-based flame stabilizer for discharging a stabilized flame therefrom, a burner tile (44), and fuel lances associated with the burner tile. Each of the fuel lances has a discharge nozzle (40). A Coanda feature (34) having a Coanda surface directs a portion of the stabilized flame from the passage defined by the burner tile at the discharge end of a primary flow passage (32) toward at least one first fuel lance of the plurality of fuel lances to cross light the at least one first fuel lance. In another embodiment, a method of combustion includes supplying a first gaseous fuel to fuel lances of a burner apparatus and igniting and sustaining combustion of a gaseous fuel by cross lighting at the discharge nozzles of the fuel lances by flow from the fluid-based flame stabilizer along a Coanda surface of a Coanda feature toward the discharge nozzles. [Figure 1]
A method includes post copy migrating a guest virtual machine (200) from a migration source host (110, 110a) to a migration target host (110b) executing the instruction stream of the guest virtual machine on the migration target host and determining by the migration target host when the guest virtual machine encounters the page fault (240). When the guest virtual machine encounters the page fault the method includes requesting the not-present page (230, 230a) from the migration source host for loading on the migration target host and emulating on an emulator (250) continued execution of the instruction stream of the guest virtual machine. The method also includes identifying by the emulator future page references (220) to future pages (230, 230b) from the emulated continued execution of the instruction stream and requesting the future pages from the migration source host in parallel with the not-present page request.
A field removable bonnet assembly (204; 500) for use with an internal valve (200), comprising: a body (208; 504) that is to be removably coupled to the internal valve via a plate (245), wherein the body defines a bore (236) that is to receive a valve packing (220); a shaft (210) having a cam assembly (212) that is to rotatably engage a stem (138) of the internal valve, wherein the shaft is rotatably coupled to the body and wherein the shaft is at least partially positioned within the bore; and a removable adjuster (222; 400) that is externally accessible through an aperture of the plate to enable an adjustment of the removable adjuster relative to the body to increase a force exerted by the valve packing on the shaft, wherein the removable adjuster is field removable to replace or repair the valve packing.
**Title of the invention:** NOVEL IMMUNOTHERAPY AGAINST SEVERAL TUMORS, SUCH AS LUNG CANCER, INCLUDING NSCLC

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3) FRITSCHE, Jens
4) SONG, Colette
5) SINGH, Harpreet

**Abstract:**
The present invention relates to peptides, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor-associated cytotoxic T cell (CTL) peptide epitopes, alone or in combination with other tumor-associated peptides that serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses. The present invention relates to more than 70 novel peptide sequences and their variants derived from HLA class I and HLA class II molecules of human tumor cells that can be used in vaccine compositions for eliciting anti-tumor immune responses.

No. of Pages: 146 No. of Claims: 24
The present invention relates to peptides, proteins, nucleic acids and cells for use in immunotherapeutic methods. In particular, the present invention relates to the immunotherapy of cancer. The present invention furthermore relates to tumor-associated T-cell peptide epitopes, alone or in combination with other tumor-associated peptides that can for example serve as active pharmaceutical ingredients of vaccine compositions that stimulate anti-tumor immune responses, or to stimulate T cells ex vivo and transfer into patients. Peptides bound to molecules of the major histocompatibility complex (MHC), or peptides as such, can also be targets of antibodies, soluble T-cell receptors, and other binding molecules.
Title of the invention: SLIPRING UNIT FOR A WOUND ROTOR MOTOR

A slipring unit (1) for a wound rotor motor comprises: - a support plate (12); - a stator; - a rotatable shaft (3) comprising a rotor having one or more rotor windings; - a ring bushing (5) integrally coupled to the shaft (3) and carrying one or more electrically conductive rings (6), each electrically connected to one of said one or more rotor windings; - one or more brushes assemblies (9), each comprising one or more brushes (10), and a brushes lifting mechanism (21) for moving said one or more brushes (10) between a lowered position, wherein said one or more brushes (10) are in contact with a respective one of said one or more electrically conductive rings (6), and a raised position, wherein said one or more brushes (10) are at a distance from the respective one of said one or more electrically conductive rings (6); - a short-circuiting bushing (11) integrally rotatable with and slidingly movable relative to the shaft (3) between a short-circuiting position, wherein the short-circuiting bushing (11) interacts with the ring bushing (5) such that the one or more electrically conductive rings (6) and the one or more rotor windings are short-circuited, and a non-short-circuiting position, wherein each of the one or more rotor windings is electrically insulated from the others of the one or more rotor windings and from the one or more electrically conductive rings (6); - an actuator (16) fixedly connected to the support plate (12); - at least a main lever (14) hinged to the support plate (12), so to be rotatable relative to the support plate (12) between a first position and a second position, and connected directly or indirectly to the actuator (16), wherein the main lever (14) is further connected to the short-circuiting bushing (11) and to the brushes lifting mechanism (21) such that, when the main lever (14) is in the first position, the brushes (10) are in the lowered position and the short-circuiting bushing (11) is in the short-circuiting position, and, when the main lever (14) is in the second position, the brushes (10) are in the raised position and the short-circuiting bushing (11) is in the short-circuiting position. (Figure 5a)
Title of the invention: WEFT DETECTING DEVICE FOR AIR-JET LOOM

Abstract:
A weft detecting device for an air-jet loom includes a main nozzle, an auxiliary nozzle, a reed including a plurality of dents, a reflective photoelectric sensor, and a determination unit. The dents each include a guide recess, and the guide recesses define a reed passage. The main nozzle and the auxiliary nozzle eject air to insert a weft through the reed passage. The reflective photoelectric sensor is located at a position that allows for detection of the weft. The reflective photoelectric sensor includes a light projector and a light receiver. The light projector emits light. The light receiver receives reflected light that has been reflected by the weft. The determination unit is configured to determine a position of the weft relative to the reed passage in a depthwise direction based on a light amount level of the reflected light.
Abstract:
Methods systems and devices for wireless communication are described. Data may be received during transmission time intervals (TTIs) that have a short duration relative to other TTIs. The short-duration TTIs may occur within or overlap a longer duration TTI such as a subframe. Feedback responsive to the data may be generated and assigned for transmission during an uplink TTI according to a feedback timing or delay which may be selected to reduce latency or balance the payload size of uplink messages sent during the assigned uplink TTI. Data and feedback assignments in short-duration TTIs may be configured based on a time division duplexing (TDD) configuration for some TTIs (e.g. subframes). TTIs that are a Long Term Evolution (LTE) subframe an LTE slot and a duration of two LTE symbol periods may be supported. Portions of special TTIs may be used for transmissions according to shorter-duration TTIs.
Techniques are described for wireless communication at a user equipment (UE). One method includes receiving a downlink grant for a downlink transmission; transmitting channel quality feedback at a first time triggered by receipt of the downlink grant the first time occurring during a first transmission time interval (TTI); and transmitting acknowledgement/negative-acknowledgement (ACK/NACK) feedback for the downlink transmission at a second time triggered by receipt of the downlink grant the second time occurring during a second TTI and the second TTI occurring later in time than the first TTI.
A video decoder is configured to for a group of video blocks of the video data determine a number of merged groups for a plurality of classes is equal to one merged group; receive a first flag indicating that filter coefficient information for at least one merged group is not coded in the video data; receive for the one merged group a second flag wherein a first value for the second flag indicates that filter coefficient information mapped to the one merged group is coded in the video data and wherein a second value for the second flag indicates that the filter coefficient information mapped to the one merged group is all zero values; determine the second flag is equal to the second value; and determine one or more filters from the set of filters using the all zero values.
Disclosed herein is a device for locating objects deployed at sea. The device includes an ejectable tethered space compatible device comprising an assembly including a dye canister. A dye dispensing package is provided inside the dye canister where said dye is capable of being emitted in a controlled manner. As soon as splashdown is sensed, the canister is ejected at a particular angle. The assembly is tethered to a space capsule to ensure that the dye canister remains in the vicinity of the capsule, and, upon dispensing of the dye, a visible coloration of the emitted dye also remains in the vicinity of the space capsule. Fig. 2
An electronic device is configured with sub-assemblies including a main logic board flexible printed circuit and dual battery packs that are assembled together with electrical connectors to enable power from the battery packs to flow over a power bus that is distributed along the flexible printed circuit and main logic board. A protection circuit module (PCM) in each battery pack is configured to determine a state of each of the connections among the sub-assemblies (i.e. whether or not properly assembled to provide electrical continuity through the connector) so that power from the battery packs is switched on to the power bus only when electrical continuity is verified at each of the connectors. In the event that any connection is faulty for example due to a misalignment of a connector during assembly that prevents electrical continuity to be established through a connector neither PCM will switch power on to the power bus.
This invention relates to a process for producing a laminate in a coating line comprising the subsequent steps of: - providing a metal strip (1); - pre-heating the metal strip to a temperature of at least 100°C (2); - producing a laminate by adhering (4a, 4b) a first thermoplastic polymer coating layer (3a) on one major surface of the strip and a second thermoplastic polymer coating layer (3b) on the other major surface of the strip wherein the first thermoplastic polymer coating layer comprises or consists of a polymer with a melting point below 200 °C; - heating (6) the laminate in a non-oxidising gas atmosphere (7) in a post-heating step to at least the melting point of the polymer or polymers in the second polymer coating layer, and at least 220°C; - rapidly cooling or quenching (8) the laminate to a temperature of below 50 °C. The invention also relates to a polymer coated metal strip produced thereby, or a can produced therefrom. [FIGURE 1]
A pressurized tank system (10) includes a first tank (12), a second tank (14), a manifold (28), a first conduit (30) connecting the first tank (12) to the manifold (28), a second conduit (32) connecting the second tank (14) to the manifold (28), a first pressure actuated valve (22) operably connected to the second conduit (32), a third conduit (24) connecting the manifold (28) and the first pressure actuated valve (22), and a fourth conduit (38) connecting the first pressure actuated valve (22) and the second tank (14). The first pressure actuated valve (22) is configured for operation by fluid pressure in the third conduit (24). A method includes operably connecting a first pressure actuated valve (22) at a junction between the second conduit (32), a third conduit (24) connecting to the manifold (28), and a fourth conduit (38) connecting to the second tank (14); and automatically opening the first pressure actuated valve (22) with the fluid in the third conduit (24) when the fluid pressure level exceeds a threshold pressure level. [Figure 2]
An example clock generator circuit includes a fractional reference generator (202) configured to generate a reference clock in response to a base reference clock and a phase error signal the reference clock having a frequency that is a rational multiple of a frequency of the base reference clock. The clock generator circuit includes a digitally controlled delay line (DCDL) (308) that delays the reference clock based on a first control code and a pulse generator (206) configured to generate pulses based on the delayed reference clock. The clock generator circuit includes a digitally controlled oscillator (DCO) (208) configured to generate an output clock based on a second control code the DCO including an injection input coupled to the pulse generator to receive the pulses. The clock generator circuit includes a phase detector (316) configured to compare the output clock and the reference clock and generate the phase error signal and a control circuit configured to generate the first and second control codes based on the phase error signal. FIGURE.2
A process for preparing sulphonates of alcohol, oxime-o-sulphonates and their derivatives comprising the steps of: addition of sulphonic acids and alcohols with silica gel; taking the mixture in microwave tube in toluene; placing of mixture in microwave reactor and subjected to heating; monitoring of reaction mixture by TLC; filtering of mixture followed by washing of SiO₂; evaporation of organic solvents by rotavapor and obtaining of the final and pure product.

No. of Pages : 16 No. of Claims : 7
In the present invention, flue gas entering from APH enters into ESP inlet funnel through ESP inlet duct. The non-uniformity of the flow is controlled by means of introducing a two chambers at the outlet of the inlet duct system. The primary chamber is convergent in nature acts as a flow suppressor, which reduces the upstream flow disturbances. It is then followed by a secondary chamber containing few numbers of fixed vanes causing a change in the flow direction for a flue gas entering from APH ducts. The outlet of the secondary chamber is then connected to the ESP inlet funnel where the standard horizontal (3) and vertical splitters are provided in equal spaced intervals for equal distribution of flow in all the directions. The modification of gas distribution screens (5) are carried out with different size of holes, such as diameter ‘d1’, diameter ‘d2’ and diameter ‘d3’ for the funnel screen, primary screen as well as for the secondary screen respectively. The arrangement of fixed vanes with primary and secondary chamber plays an important role in the establishment of uniform flow in the downstream direction.
The present disclosure provides a mechanism that protects against any kind of irrelevant or unwanted infringements of the highest order. The mechanism is an anti-theft software application along with a non-detachable chip which has an inbuilt non-removable SIM card connected with the software application installed internally. The chip can be installed externally installed inside the mobile device which is designed to track cellular devices with extreme accuracy/pin point precision. In an embodiment, the present disclosure guarantees total security by providing snapshots, recording live audio and video, procuring GPS location and the phone number of the new SIM card inserted by sending required SMS to the lost device after which activation lock is turned ON automatically. Activation lock makes it impossible to use or sell the mobile devices, such as but not limited to, iPhone, iPad, iPod touch, Apple Watch, laptops, Android, BlackBerry and Windows smartphones.
A system (100) and a method for processing consumer data for an entity, such as, a publication company, are described. The present disclosure includes a control system (116) coupled to various database (102, 112, 114, 126). The control system (116) is to receive parameters associated with at least one of a predetermined first set of consumers from a first database (102) and a one or more predetermined items from a second database (112, 114). Based on the received one or more parameters, the control system (116) determines one or more items from the second database (112, 114) with respect to the first set of consumers or determines a second set of consumers from the first database (102) with respect to the predetermined items based on the received one or more parameters. Each of the determined consumers are scored against the determined one or more items and the predetermined items, respectively.

No. of Pages : 27 No. of Claims : 10
The invention relates to an improved heat treatment apparatus for heating softer metals using a high frequency current source converter, comprising: a diode bridge rectifier (block 1C of figure 19) of an induction heating unit used to convert single phase AC 50 Hz source to DC (Figure 20); a dc-link inductor (block 2 of figure 19) used to realize the current source for the CS-converter, the DC-link current being continuous in nature, the modified DC-link inductor improving the source power factor; a developed current source converter circuit configuration (block 3 of figure 19) for the high frequency induction heating application, wherein a CS-converter acting as a current chopper circuit (figure 20) which is a combination of two (2) switching devices (IGBTs), wherein the switches are connected on both side of the load (figure 21), and wherein the apparatus is enabled to operate at a very high frequency in spite of the power levels, and function as a self-adjusting resonant converter, the switches operating in a complementary way that is, when $T_1$ switching device is ON, $T_2$ switching device is OFF and vice-versa, the load current flowing only during the ON time of switch $T_2$, the remaining time the current flowing through switch $T_1$, a high frequency alternating current for the load (4) causing creation of high frequency magnetic field around the heating coil.
The present disclosure generally relates to a method for producing rice beer and rice beer produced thereby. In particular, the present disclosure relates to a cost-effective and eco-friendly method for producing rice beer with improved color, odor, and flavor from indigenous rice varieties of Assam. The rice beer of the present disclosure has less turbidity and longer shelf-life.
Title of the invention: LOW POWER, PORTABLE SMART DEVICE FOR REAL-TIME MONITORING OF MINE ENVIRONMENT AND METHODS THEREOF

Abstract:
Disclosed is a device for real-time monitoring of underground mine environment. The device comprises an attachable unit (1) having a sensor unit (2), configured to sense analog data (S1, S2, S3) related to gases in the mine, an indication unit (5), a buzzer unit (6), and a control unit (4) configured to convert the sensed analog data into digital data and further convert digital data into user-readable analog data (S1, S2, S3), further evaluate, by generation of conditions (C1, C2, C3, C4, C5, C6, C7, C8) whether the gases are under the safe limit, wherein the conditions are generated based on correlation of the user-readable analog data related to the gases with the pre-defined threshold values (ref 1, ref 2, ref 3) for said gases with the threshold values; controlling an indication unit (5) and a buzzer unit (6) based on the generated conditions.

No. of Pages: 27 No. of Claims: 10
A device and method for UAV navigation using echolocation is disclosed herein. The present invention relates to the technical field of signal processing. More particularly, the present invention pertains to a device and method for Unmanned Aerial Vehicle (UAV) navigation using echolocation. The present invention is a device and method for UAV navigation using echolocation that meets the needs of BVLOS operations without any optical or satellite data.
**Title of the invention :** VALIDATION OF THE INTEGRITY OF DATA

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2) JACOBS, Michael Stuart
   ZORAB, James

**Abstract :**
A computer-implemented method of permitting authentication of data added to an initial plurality of unique data items stored on a computer all of the data items being converted via a one-way function to respective equal length unique digests (or hashes); and the hashes being stored as a linked dataset in which the value of each successive hash is dependent on the value of the previous hash combined with a new hash resulting from the hashing of the most recently added data. The most recent hash in the linked dataset (hash chain) is the cumulative result of all previous hashes in their original sequence each hash in the dataset being unique to the most recently added data. Each cumulative hash is constructed by incorporating one or more pre-existing cumulative hashes into the source data before the new hash is calculated. As a consequence no attempt to amend existing cumulative hashes and to rebuild the chain can succeed unless the attacker has access to all the relevant source material and knowledge of which pre-existing hashes were combined with them and how they were combined.

No. of Pages : 35 No. of Claims : 12
The embodiments of the invention disclose a fault detection method and apparatus. The method comprises: an optical transport network (OTN) apparatus acquires a first OTN frame comprising two or more payload fields wherein each of the two or more payload fields comprises a payload check information and payload data; detecting according to the payload check information a fault wherein the payload check information is used to check the payload data in the payload field where the payload check information is located.

The embodiment of the invention divides the OTN frame into the two or more payload fields and carries the corresponding payload information to each of the payload fields thereby increasing efficiency of fault detection.
The invention relates to the field of communications and in particular the invention provides a Wi-Fi hot spot recommendation method a terminal and a graphical user interface to resolve a problem occurring in a Wi-Fi hot spot selection process in which a Wi-Fi hot spot selected by a user according to information such as RSSI is not necessarily the Wi-Fi hot spot capable of providing the best online experience in the area. In one embodiment the method comprises: scanning by a terminal for Wi-Fi hot spots (201 301); determining a network accessible hot spot among the detected Wi-Fi hot spots (202); determining network quality if the terminal accesses a network via the network accessible hot spot (203); and displaying an indicator indicating the network accessible hot spot and an indicator indicating the network quality if the terminal accesses the network via the network accessible hot spot (204).
Abstract:
Embodiments of the present disclosure provide methods apparatuses and computer program for facilitating reference signal transmission. An example method can be implemented at a base station in a wireless communication system for communicating with a terminal device. The terminal device is configured with a primary carrier and a secondary carrier for carrier aggregation. The method comprises determining a measurement gap. The measurement gap indicates a time interval for a terminal device to switch from the primary carrier to the secondary carrier for transmitting a reference signal to the base station over the secondary carrier and switch back to the primary carrier. The method also comprises triggering the terminal device to transmit the reference signal over the secondary carrier according to the measurement gap and obtaining a channel estimation based on the reference signal received from the terminal device during the measurement gap. By virtue of the method the base station is enabled to request and control reference signal transmission on a secondary carrier from the terminal device thereby obtaining CSI of the secondary carrier. Furthermore since transmission of the reference signal is restricted to the measurement gap known by the base station negative impact to the primary carrier can be minimized.
The present disclosure discloses a method for transmitting data including the following blocks. A first device senses scheduling assignment (SA) and received power of a second device and a total received energy of each subband; the first device determines a reference value of received power of the second device and a reference value of total received energy based on a sensing result of the second device; the first device selects a resource based on the reference value of received power and reference value of total received energy; the first device transmits data. By adopting the method of the present disclosure decoding performance of SA is improved and accuracy for measuring received power of the SA is also enhanced. Subsequently on the basis of SA and received power performances for selecting/re-selecting channel resources are improved.
### Automatic Molding Machine for Molded Product Manufacturing Method and Finished Product

#### Title of the invention:

**AUTOMATIC MOLDING MACHINE FOR MOLDED PRODUCT MANUFACTURING METHOD AND FINISHED PRODUCT**

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#### Name of Inventor:

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#### Abstract:

An automatic molding machine for a molded product, a manufacturing method, and a finished product. Mainly provided are an automatic molding machine for enabling upper and lower pulp suction molds (10, 20) to simultaneously suck pulp in a pulp box (30), closing the molds and forming a molded blank, and then performing dewatering and thermal compression shaping to form a molded product, a manufacturing method, and a finished product. The automatic molding machine for a molded product, the manufacturing method, and the finished product can improve the manufacturing speed, increase the thickness of a finished product and a shock absorbing effect, and enable surfaces to be excellent surfaces.

No. of Pages: 19 No. of Claims: 13
(54) Title of the invention: PLUG FLOW TUBULAR BIOREACTOR SYSTEM CONTAINING THE SAME AND METHOD FOR PRODUCTION OF VIRUS

| (51) International classification | :C12M1/12C12M1/00 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No | :PCT/EP2016/060150 |
| Filing Date | :06/05/2016 |
| (87) International Publication No | :WO 2017/190790 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

(57) Abstract:
The present invention relates in a first aspect to a plug flow tubular bioreactor having an integral or multi-part tube adapted for cultivation and optionally infection viral transduction or transfection of eukaryotic cells. In a further aspect the present invention relates to a plug flow tubular bioreactor system comprising the plug flow tubular bioreactor according to the present invention. Further the present invention relates to a method for preparing virus particles vectors cells or other molecules including toxic molecules using the plug flow tubular bioreactor or the system according to the present invention. Finally the present invention relates to the use of a plug flow tubular bioreactor for the preparation of virus particles vectors including viral vectors cells including modified cells or other molecules including toxic molecules.

No. of Pages: 18 No. of Claims: 18
One aspect of the present invention is a course estimation method using a position acquisition circuit for acquiring the positions of surrounding vehicles and a course estimation circuit for estimating the course of the host vehicle on the basis of the traveling paths of the surrounding vehicles according to the positional histories of the surrounding vehicles. In this course estimation method the course of the host vehicle is estimated by enlarging or reducing the traveling paths of the surrounding vehicles on the basis of the turning direction and transverse position of the surrounding vehicles.
Title of the invention: DOMESTIC APPLIANCE HAVING A RECESSED GRIP

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Abstract:
The invention relates to a domestic appliance (100) comprising a base body (103) having an opening (105) and an appliance door (107) for closing the opening (105). The appliance door (107) comprises a plastic window ring (109) for maintaining the window (111) and a plastic recessed grip (113) for operating the appliance door (107). Said window ring (109) and the recessed grip (113) are provided as a single piece.

No. of Pages : 13 No. of Claims : 14
(54) Title of the invention : GAP BETWEEN SEMICONDUCTORS

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(57) Abstract :
An optoelectronic device comprising a substrate comprising a groove having a first and a second side. The first and second sides of the groove are each coated with a conductor material and a semiconductor material. The semiconductor material on the first side of the groove and the conductor material on the second side of the groove are in contact with another semiconductor material in the groove. At the second side of the groove there is a gap between the semiconductor material on the second side of the groove and the another semiconductor material in the groove.

No. of Pages : 27 No. of Claims : 18
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Filing Date : 28/03/2016
(87) International Publication No : WO 2017/166034
(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) JIA, Yinyuan

(57) Abstract:
Embodiments of the present invention provide an incoming call processing method a user equipment (UE) and a storage medium. The method comprises: a called UE receives a call request message sent by a core network device and performs according to the call request message a called MT signaling interaction with the core network device; the called UE determines whether the MT signaling interaction is successful within a predetermined duration; when determining that the MT signaling interaction fails within the predetermined duration the called UE sends prompt information to a called user according to a telephone number of a calling UE so that the called user can learn about the present incoming call of the calling UE according to the prompt information.

No. of Pages : 62 No. of Claims : 18
(12) PATENT APPLICATION PUBLICATION  
(19) INDIA  
(22) Date of filing of Application : 04/10/2018  
(43) Publication Date : 16/11/2018

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(72) Name of Inventor  
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4) DAI, Mingzeng

(57) Abstract:  
Provided are a data transmission method a user equipment and an access network device. A UE transmits air interface data to an access network device via a serving cell set containing at least two core serving cells capable of serving a UE separately for data transmission. It is only if it is detected that both of the core serving cells in the serving cell set are unavailable that an RRC connection re-establishment process to the access network device is initiated. An available serving cell is used for data transmission as much as possible that is to say as long as there is a core serving cell available these available core serving cells are used for data transmission thereby reducing the dependency of data transmission between serving cells and minimizing the possibility of data transmission interruption and thus improving the robustness of data transmission.

No. of Pages : 48  
No. of Claims : 45
Title of the invention: HANDLING DIFFERENT SUBFRAME SETS FOR UPLINK 256QAM

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Abstract:
Systems and methods are disclosed herein for configuring a wireless device individually (i.e. separately) per uplink subframe set as to whether or not the wireless device can use uplink 256 Quadrature Amplitude Modulation (256QAM). In some embodiments a method of operation of a network node comprises configuring a wireless device for use of a Modulation and Coding Scheme (MCS) table for uplink 256QAM separately per uplink subframe set for two or more uplink subframe sets. In some embodiments the two or more uplink subframe sets are two or more uplink subframe sets for separate uplink power control. In this manner 256QAM can be utilized in more subframes and as a result uplink data rate can be increased.

No. of Pages: 33 No. of Claims: 25
A method is implemented by a first Provider Edge (PE) network device in a network to configure a pseudo-wire (PW) between the first PE network device and a second PE network device in the network using an Interior Gateway Protocol (IGP). The method includes receiving a first advertisement message flooded in the network by the second PE network device via the IGP where the first advertisement message advertises the PW. The method further includes configuring a local forwarding information base with a local PW label associated with the PW such that the first PE network device forwards traffic encapsulated with the local PW label to an Attachment Circuit associated with the PW and flooding a second advertisement message in the network via the IGP that includes an indication that the first PE network device is ready to receive traffic from the second PE network device over the PW.
Title of the invention: METHOD AND TERMINAL FOR DETERMINING TERMINAL PROCESSOR VOLTAGE

Abstract:
A method (100) and terminal (300) for determining terminal processor voltage. The terminal (300) comprises a CPU (310) and an auxiliary processor (320) and the method (100) comprises: during a booting process of the terminal (300) determining a minimum operating voltage of the CPU (310) after the auxiliary processor (320) completes system initialization (S110); configuring by the auxiliary processor (320) a current voltage of the CPU (310) as the minimum operating voltage (S120); completing by the CPU (310) the booting process of the terminal (300) under the minimum operating voltage and then controlling by the CPU (310) the terminal (300) to operate (S130). The method (100) and terminal (300) for determining terminal processor voltage can determine the minimum operating voltage of the CPU (310) during the booting process of the terminal (300) and can reduce the test time and test costs increase the test precision and test the minimum operating voltage of a processor more accurately in comparison with using an automatic test equipment to measure the minimum operating voltage of the processor during the production of the processor.

No. of Pages: 27  No. of Claims: 10
Provided are a data transmission method and a related device. The method comprises: obtaining by a local MBMS functional entity local MBMS bearer information by means of an interface between the local MBMS functional entity and a core network MBMS functional entity; after application layer data transmitted by a local application server has been received determining a local MBMS bearer matching the application layer data; and transmitting the application layer data according to the local MBMS bearer information matching the application layer data. In an embodiment of the invention a local MBMS functional entity obtains local MBMS bearer information matching the application layer data. In an embodiment of the invention a local MBMS functional entity obtains local MBMS bearer information matching the application layer data. In an embodiment of the invention a local MBMS functional entity obtains local MBMS bearer information matching the application layer data. In an embodiment of the invention a local MBMS functional entity obtains local MBMS bearer information matching the application layer data. Compared with the prior art techniques transmission of application layer data described in the embodiment of the invention does not need to extend to a core network thereby reducing delay in transmitting local application layer data reducing use of core network bandwidth by the local application layer data and increasing a traffic capacity of the entire network.
A structural member comprising a first round flange a second round flange substantially parallel to the first round flange an elongate web disposed between the first and second round flange the web having an upper edge and a lower edge wherein the first round flange the second round flange and the elongate web are secured together to form a structurally integral unit. The structural member may further comprise a third round flange and a fourth round flange substantially parallel to the third round flange wherein the round flanges and the elongate web are secured together to form a structurally integral unit in which the first face of the web is in contact with the first round flange and the third round flange and the second face of the web is in contact with the second round flange and the fourth round flange.
(54) Title of the invention : AMPLIFIER

| (51) International classification | :H03F1/34 |
| (31) Priority Document No | :NA |
| (32) Priority Date | :NA |
| (33) Name of priority country | :NA |
| (86) International Application No & Filing Date | :PCT/EP2016/059791 & 02/05/2016 |
| (87) International Publication No & Filing Date | :WO 2017/190764 |
| (61) Patent of Addition to Application Number & Filing Date | :NA & NA |
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(57) Abstract :  
An amplifier (30) for a receiver circuit (15) is disclosed. The amplifier has an input node (Vin) and an output node (Vout). It comprises a tunable tank circuit (100) connected to the output node (Vout) a feedback circuit path (200) connected between the output node (Vout) and the input node (Vin) and a tunable capacitor (210) connected between an internal node of the feedback circuit path (200) and a reference-voltage node. A receiver circuit and a communication apparatus is disclosed as well.

No. of Pages : 9  No. of Claims : 13
**Title of the invention:** AUDIO ENCODER FOR ENCODING AN AUDIO SIGNAL METHOD FOR ENCODING AN AUDIO SIGNAL AND COMPUTER PROGRAM UNDER CONSIDERATION OF A DETECTED PEAK SPECTRAL REGION IN AN UPPER FREQUENCY BAND

**Abstract:**
An audio encoder for encoding an audio signal having a lower frequency band and an upper frequency band comprises: a detector for detecting a peak spectral region in the upper frequency band of the audio signal; a shaper for shaping the lower frequency band using shaping information for the lower band and for shaping the upper frequency band using at least a portion of the shaping information for the lower band wherein the shaper is configured to additionally attenuate spectral values in the detected peak spectral region in the upper frequency band; and a quantizer and coder stage for quantizing a shaped lower frequency band and a shaped upper frequency band and for entropy coding quantized spectral values from the shaped lower frequency band and the shaped upper frequency band.

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**No. of Pages:** 70  **No. of Claims:** 26
The invention relates to a welding unit (1) for welding two rails (2) of a track comprising two rail clamping units (5) which are movable relative to each other in a longitudinal direction (4) of the unit. A bus bar (10) which is provided for power transmission is designed as a unit guide (3) which connects both rail clamping units (5) to one another is spaced apart from displacement drives (11) and extends in a longitudinal direction (4) of the unit. The bus bar (10) is provided with a cooling device and is displaceable in the longitudinal direction (4) of the unit relative to the rail clamping unit (5) which is equipped with the bus bar contacts (8).
The invention relates to a method and to a corresponding device for detecting phase failures in a converter (10), wherein current regulators (26, 28) of a positive phase sequence system (20) and current regulators (40, 42) of a negative phase sequence system (22) are provided for the current control of the converter (10), wherein the current regulators (26, 28) of the positive phase sequence system (20) and the current regulators (40, 42) of the negative phase sequence system (22) each have an integrator (50, 52; 54, 56), wherein, in the case of a network fault, coupling of the integrators (50, 52; 54, 56) results, wherein at least one measured or calculated value is checked by means of a monitoring unit (64) for a course that is typical of the coupling of the integrators (50, 52; 54, 56) and wherein the monitoring unit (64) generates a fault signal (66) if such a typical course is detected.
**Abstract:**
Photovoltaic systems and methods for optimizing the harvesting of solar energy are disclosed. A photovoltaic (PV) system includes: a solar panel module. The solar panel module comprises: a plurality of solar cell arrays wherein each array comprises a grouping of solar cells; and a tubular panel. The plurality of solar cell arrays are arranged along an inside surface of the panel. At least an upper portion of the panel slopes inward such that the panel has a substantially funnel-shaped geometry. The solar cell arrays are arranged in a C-ring pattern. A first solar cell array is separated from a second solar cell array by a predetermined distance. The area between the solar cell arrays is coated with a reflective material to facilitate optimal reflection of incident sunlight back to the solar cells. Recycling of incident light is facilitated within the tube. The light can be intermittently or continuously recycled.

No. of Pages: 31 No. of Claims: 21
The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). The present invention provides a method for controlling Wireless Local Area Network (WLAN) aggregation and an associated equipment. The method comprises the following steps of: acquiring by a first radio access network node WLAN information about a User Equipment (UE); and controlling by the first radio access network node WLAN aggregation for the UE according to the acquired WLAN information. A second radio access network node decides whether to maintain a WT and/or whether to establish WLAN aggregation for the UE when the UE moves to a first radio access network; and the second radio access network node transmits information about whether to maintain the WT and/or indication information about whether to establish the WLAN aggregation for the UE. The WT receives UE context reference information transmitted by the first radio access network node; and the WT indexes a UE context according to the received UE context reference information. With the present invention the WLAN aggregation performance in a UE mobility scenario can be improved.
Disclosed are: a communication technique for merging with IoT technology a 5G communication system for supporting a data transmission rate higher than that of a 4G system; and a system therefor. The present disclosure can be applied to intelligent services (for example smart home smart building smart city smart car or connected car healthcare digital education retail business security and safety related services and the like) on the basis of 5G communication technology and IoT related technologies. The present invention relates to a method by which a terminal receives a circuit switching (CS) service and according to the present invention the method by which a terminal receives a CS service comprises the steps of: transmitting a CS fallback (CSFB) request to a mobility management entity (MME) through a first base station in order to use the CS service; detecting the failure of a radio resource connection to the first base station; and transmitting to a second base station a radio resource re-establishment related message including a CSFB identifier for identifying the CSFB request.
Provided in the present invention is an uplink data sending method. The method comprises: a terminal apparatus receives scheduling signaling during at least one downlink time interval in a downlink time interval set wherein the scheduling signaling is used to schedule uplink data and any of the downlink time interval set is within a downlink subframe n; the terminal apparatus determines an uplink time interval corresponding to the at least one downlink time interval wherein any of the downlink time interval set corresponds to the determined uplink time interval the determined uplink time interval is within an uplink subframe n+k and k is equal to 0 1 2 or 3; and the terminal apparatus sends the uplink data during the determined uplink time interval. By employing the above solution the present invention reduces latency between receiving scheduling information and sending uplink data.
An embodiment of the present invention provides a method for determining a contention window size in clear channel assessment. The method comprises: a base station determines at least one UE that occupies an uplink subframe of an unlicensed carrier among at least one user equipment (UE) scheduled on a reference subframe the uplink subframe being an uplink subframe on which the at least one UE scheduled by the base station on the reference subframe performs hybrid automatic repeat request (HARQ) state feedback on the reference subframe; and the base station determines a CWS of CCA for downlink transmission according to the HARQ state of the at least one UE that occupies the uplink subframe. Embodiments of the present invention also provide an apparatus for determining a contention window size in clear channel assessment and a base station. The embodiments of the present invention have the advantages: the accuracy rate for determining the CWS for downlink transmission is increased and the probability that the waiting time of the base station is increased due to the CWS that is adjusted excessively high is reduced.
It is presented a method for indicating system information configuration updates to wireless terminals (1). The method is performed in a network node (2) of a wireless communication network (5) and comprises: determining (60) that a system information configuration has been updated; and5 transmitting (61) a paging message comprising information indicating to a wireless terminal receiving the paging message whether the updated system information configuration is relevant and/or how to react to the update. It is also presented a method in a wireless terminal a network node a wireless terminal a computer program and a computer program product.

No. of Pages: 27 No. of Claims: 30
The invention relates to a centrifugal pump having an arrangement (6) for sealing. A gap (S) is formed between a rotating element (10) and a non-rotating element (9). At least one element (9 10) has bodies (11) which are movably mounted.

No. of Pages : 10 No. of Claims : 11
The present invention relates to a manhole having an oil-water separation function with the aim of spontaneously introducing external air into an inflow induction pipe downwardly extending from the manhole to allow for the simple separation of wastewater into oil and water (sewage) and to conveniently apply the manhole to places where oil and sewage are arbitrarily generated including detached houses multi-unit houses parking lots gas stations roads and the like. The present invention is designed to have an inflow induction pipe installed inside of an inflow pipe of a manhole body. According to the present invention when wastewater containing oil and domestic sewage flows into the manhole a vortex phenomenon that occurs with the inflow of the wastewater into the inflow induction pipe allows for the induction of external air into the inflow induction pipe to separate the wastewater into oil and sewage by specific gravity. Further when the oil accumulates as it inflows and is solidified into a lump due to the viscosity thereof a lid of the manhole is removed and the oil lump can be taken out and collected. Therefore the present invention is convenient for use.
An electrical sub-assembly comprises a stator having a plurality of coils and a cooling means attached to the stator. The electrical sub-assembly further comprises a plurality of pairs of diodes attached to the cooling means each pair of diodes being in antiparallel configuration and having three electrical terminals. One of the three electrical terminals is a common terminal shared by both diodes in each pair of diodes. A plurality of busbars electrically connect each of the diodes to at least one of the plurality of coils via one or more of the electrical terminals. In use the cooling means is configured to simultaneously cool the stator and the plurality of diodes. The electrical sub-assembly may have particular application as a part of a switched reluctance machine.
The present invention relates to an electrode assembly a battery comprising the same and methods for manufacturing the electrode assembly and the battery. A method for manufacturing an electrode assembly according to an embodiment of the present invention comprises the steps of: providing a separator; forming a first conductive network layer including at least one type of first metal fibers on a first main surface of the separator; and providing into pores of the first conductive network layer a first particle composition containing electrical active materials having a first polarity.
The present invention relates to an electronic device and more particularly to an electronic device and a method for transmitting and receiving signals. To this end the electronic device according to the present invention may comprise: a transceiving unit comprising a first group of power amplifiers (PAs) including at least one PA and a second group of PAs including at least one PA; an antenna unit comprising a first antenna selectively coupled to a PA supporting a first frequency range or a second frequency range of the first group of PAs and the second group of PAs; a power supply unit comprising a first power supply modulator connected to the first group of PAs and a second power supply modulator connected to the second group of PAs; and a communication processor for changing an output voltage at least in part on the basis of transmit power of the PA coupled to at least one of the first group of PAs and at least one of the second group of PAs are capable of transmitting signals simultaneously.

No. of Pages : 101  No. of Claims : 15
Title of the invention: METHOD FOR MEASURING AND CALCULATING GEOMETRIC PARAMETERS OF THE WHEELS OF A WHEELSET FOR RAIL VEHICLES

Abstract:
The invention relates to a method for measuring and calculating geometric parameters of the wheels of a wheelset for rail vehicles wherein the wheelset to be evaluated is rotatably mounted in a wheelset machine tool or in a wheelset diagnostic system and wherein measured values for profile measurement with respect to profile wear to be detected are determined during rotational motion of said wheelset. The problem addressed by the invention is to expand already available measuring methods on known wheelset machine tools and wheelset diagnostic systems in such a way that further geometric parameters can be detected and evaluated. This problem is solved in that methods for measuring and calculating the equivalent conicity and the radial run-out property of a wheelset are integrated as new measurement functions wherein solution approaches are proposed for these additional methods.
The present disclosure relates to a pre-5th-generation (5G) or 5G communication system to be provided for supporting higher data rates beyond 4th-generation (4G) communication system such as long term evolution (LTE). In a feedback method of a terminal receiving a first subframe from a base station detecting from the first subframe downlink control information (DCI) including transmission timing information and frequency resource information for feedback creating feedback information for data decoding of the first subframe to be transmitted in a second subframe determined based on the DCI and transmitting the feedback information based on a time resource indicated from the transmission timing information and a frequency resource indicated from the frequency resource information in the DCI.

No. of Pages : 29  No. of Claims : 15
**Title of the invention:** DOUBLE CONNECTOR FOR BUTT-JOINING TWO PARTS

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**Abstract:**
A double connector (1) according to the invention for butt-joining two parts (2a, 2b) comprises two connector parts (4a, 4b) which can be pushed together into a locked assembled position and each of which includes an expandable first end portion (5) for insertion into a bore (3a, 3b) in one part (2a, 2b), a second end portion (6) for expanding the first end portion (5) of the other connector part in the assembled position, and at least one locking portion (9, 10) for interlocking the two connector parts (4a, 4b) in the assembled position.

No. of Pages : 16 No. of Claims : 29
Described are methods of preserving pollen which may be subsequently stored. A method of the present invention includes collecting fresh pollen and introducing the pollen to a controlled environment which regulates pollen moisture content. The controlled environment may have a temperature ranging from about -10°C to 10°C; an adjustable and programmable relative humidity; a continuous adjustable positive or negative air flow; and a flow of one or more continuously refreshed selected gases which displace oxygen. In another embodiment of the method the controlled environment may have a relative humidity from about 50% to 100%; a temperature from about -10°C to 10°C; and air pressure from about 15-150 kPa. In all embodiments of the method an optional field conditioning step may be performed. The field conditioning step may include subjecting the pollen to an environment controlled for relative humidity temperature and air pressure such that the initial pollen moisture content may be adjusted to a target moisture content.
The invention relates to a process for quantifying changes in the intestinal mucosa caused by a chronic inflammatory intestinal disease in individuals and an ex vivo process for diagnosing a chronic inflammatory intestinal disease in individuals and an ex vivo process for the differential diagnosis of Crohn's disease versus ulcerative colitis in individuals.
Provided in embodiments of the present invention are an uplink information transmission method terminal apparatus and access network apparatus. The method comprises: a terminal apparatus acquires instruction information for sending uplink information in a first symbol set of a target carrier; and the terminal apparatus sends during a second duration in a period occupied by the first symbol set uplink information wherein the second duration is a duration within the period occupied by the first symbol set excluding a first duration and is a duration within which the terminal apparatus is allowed to access a channel of the target carrier to send the uplink information.
A valve for administering a plurality of drug fluids to a patient is disclosed. For each drug fluid the valve may be rotated into a selected drug position associated with the drug fluid. With the valve being in the selected drug position a backpriming may be performed of a connector line of a drug container containing the drug fluid. Thereafter the drug fluid may be administered with the valve being in the same selected drug position. Thereafter the valve may be flushed optionally while maintaining the same selected valve position.
Abstract:
The present disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). The present disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security and safety services. The method for allocating resource by a user equipment (UE) comprises identifying at least one sidelink logical channel not previously selected for a first sidelink control (SC) period and a second SC period wherein the second SC period is overlapping in time with the first SC period and allocating resource to the at least one sidelink logical channel.
Compressor for generating compressed air for a commercial vehicle having a housing with a piston chamber in a crankcase and a dead space which is configured at least in the cylinder head. Furthermore the compressor has a valve device with a valve element which has an actuating section and a shut-off body for separating the dead space from the piston chamber wherein the shut-off body can be lifted up from a valve seat in the direction of the piston chamber in order to open the valve device. The valve element is configured in one piece with the actuating section.
## Title of the invention: POWER CONFIGURATION METHOD AND DEVICE

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### Abstract:
Provided are a power configuration method and device for solving a problem in which a UE unit is unable to acquire power used by multiple transmission points for transmitting data. The power configuration method comprises: a first network device transmits to a second network device M power configuration parameters wherein the M power configuration parameters correspond to M antenna port sets at least one of the M antenna port sets belongs to the first network device each power configuration parameter is used to calculate power of a downlink channel between a corresponding antenna port set and the second network device and M is an integer greater than 2.

No. of Pages: 90
No. of Claims: 30
**Title of the invention :** HOLOGRAPHIC METHOD FOR CHARACTERISING A PARTICLE IN A SAMPLE

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<td>(86) International Application</td>
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3) BLANDIN, Pierre
4) ESTEBAN, Geoffrey
5) HERVE, Lionel
6) ISEBE, Damien

**Abstract :**
The invention relates to a method for holographic characterisation of a particle (10b) contained in a sample (10) based on an image (lo) or hologram of the sample obtained by an image sensor (16) when the sample is illuminated by a light source (11). The hologram is the subject of a holographic reconstruction in such a way as to obtain a complex image referred to as the reference complex image (Ref) representative of the light wave transmitted by the sample in a reconstruction plane. A holographic propagation operator is applied to said reference complex image in such a way as to obtain a plurality of so-called secondary complex images (Ref z) from which a profile is determined describing the change in an optical feature of the light wave transmitted by the sample along the axis of propagation z of said light wave.

No. of Pages : 34 No. of Claims : 15
Title of the invention: SILVER CONTAINING ANTIMICROBIAL MATERIALS

Abstract:
This invention relates to antimicrobial materials and articles such as fibres, yarns and their incorporation into textiles packaging for food or beverages or articles of clothing such as gloves. The antimicrobial fibres and yarns may be formed of a polymer and may comprise silver particles dispersed therein. The present invention contemplates a polymer batch precursor to the fibre of the invention and further products formed of the fibre or the polymer batch for example textiles.

No. of Pages : 19 No. of Claims : 23
**Title of the invention:** PACKET RETRANSMISSION IN A WIRELESS COMMUNICATION SYSTEM

| (51) International classification | :H04L1/16H04L1/18 |
| (31) Priority Document No | :62/336326 |
| (32) Priority Date | :13/05/2016 |
| (33) Name of priority country | :U.S.A. |
| (86) International Application No | :PCT/EP2017/061448 |
| Filing Date | :12/05/2017 |
| (87) International Publication No | :WO 2017/194733 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
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**Abstract:**
A transmitting radio node (12) is configured for transmitting packets in a wireless communication system (10). The transmitting radio node (12) in particular is configured to transmit packets to a receiving radio node (16) as scheduled by the receiving radio node (16) over one or more of multiple different types of radio links (18 20) between which transmission of the packets is configured to be split or switched. The transmitting radio node (12) is also configured to receive from the receiving radio node (16) a retransmission link indication (40) that indicates over which of the multiple different types of radio links (18 20) packet retransmission is to be performed. The transmitting radio node (12) is further configured to perform packet retransmission based on the retransmission link indication (40).

No. of Pages : 16  No. of Claims : 61
(54) Title of the invention: MULTI-SUBCARRIER SYSTEM WITH MULTIPLE NUMEROLOGIES

(51) International classification: H04L5/00
(31) Priority Document No: 62/336302
(32) Priority Date: 13/05/2016
(33) Name of priority country: U.S.A.
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    Filing Date: NA

(57) Abstract:

A method of operating a wireless communication device or a radio access node comprises addressing multi-subcarrier system resources using at least one of multiple different numerologies available within a single carrier, wherein the multiple different numerologies comprise a first numerology having resource blocks with a first bandwidth and a first subcarrier spacing, Δf1, and a second numerology having RBs with a second bandwidth and a second subcarrier spacing, Δf2, which is different from Δf1, and wherein the first numerology is aligned in the frequency domain relative to a frequency reference, Fref, according to mΔf1 + Fref and the second numerology is aligned in the frequency domain relative to the frequency reference, Fref, according to nΔf2 + Fref, where m and n are integers. The method further comprises transmitting and/or receiving information within the single carrier according to the at least one of the multiple different numerologies.

No. of Pages: 22 No. of Claims: 39
The invention relates to a turbine housing (21) for a turbocharger (1) of an internal combustion engine, comprising - an annular duct (22) for guiding an exhaust gas mass flow (AM) to a turbine wheel (12) that can be arranged in the turbine housing (21); and - an exhaust gas discharge channel (26) for discharging the exhaust gas mass flow (AM) from the turbine housing (21) after a flow against the turbine wheel (12); wherein an insulation element (211, 215) is in each case arranged in a region of an inner wall (221) of the annular duct (22) and in a region of an inner wall (261) of the exhaust gas discharge channel (26). The invention further relates to a turbocharger (1).
The present disclosure relates to a communication method and system for converging a 5th-Generation (5G) communication system for supporting higher data rates beyond a 4th-Generation (4G) system with a technology for Internet of Things (IoT). The present disclosure may be applied to intelligent services based on the 5G communication technology and the IoT-related technology such as smart home, smart building, smart city, smart car, connected car, health care, digital education, smart retail, security, and safety services. A method for a channel state information (CSI) feedback. The method comprises receiving CSI feedback configuration information for the CSI feedback including a spatial channel information indicator based on a linear combination (LC) codebook wherein the spatial channel information comprises at least one of a downlink channel matrix a covariance matrix of the downlink channel matrix or at least one eigenvector of the covariance matrix of the downlink channel matrix; deriving the spatial channel information indicator using the LC codebook that indicates a weighted linear combination of a plurality of basis vectors or a plurality of basis matrices as a representation of at least one of a downlink channel matrix a covariance matrix of the downlink channel matrix or at least one eigenvector of the covariance matrix of the downlink channel matrix; and transmitting over an uplink channel the CSI feedback including the spatial channel information indicator.
Title of the invention: PULL AND PUSH MEANS

Abstract:
The invention relates to a pull and push means for a track-guided vehicle in particular rail vehicle with a coupling rod which is connected to a superstructure of a vehicle via a pull clamp for transmitting pull and push forces occurring in the travelling mode from the coupling rod to the superstructure with a spring apparatus which is arranged between the superstructure-side end region of the coupling rod and the superstructure and has an energy consumption device with a reversible energy consumption means wherein the spring apparatus is configured in such a manner that the force flux of the push forces which are transmitted directly to the spring apparatus by the coupling rod and of the pull forces which are transmitted via the pull clamp is conducted through said spring apparatus and transmitted to the superstructure via stop regions for the introduction of pull forces and/or compression forces to the superstructure or at a component connected at least indirectly thereto wherein the spring apparatus in the installed position has as viewed in the longitudinal direction of the coupling rod a front transmission element facing the vehicle and a rear transmission element facing the vehicle between which transmission elements the energy consumption means is arranged in a prestressed manner. The invention is characterized in that the energy consumption device furthermore comprises an energy consumption means with irreversible energy consumption and the energy consumption device is arranged within the axial extent of the pull clamp as viewed in the longitudinal direction of the vehicle.

No. of Pages : 19 No. of Claims : 18
Various examples of the present invention relate to an apparatus and a method for controlling a connection and an operation of an antenna in an electronic device. Here the electronic device comprises: a plurality of antenna units arranged in a first region thereof; at least one antenna unit arranged in a second region thereof; a communication circuit which is connected to the plurality of antenna units arranged in the first region and to at least one antenna unit arranged in the second region; a first switch arranged in an electric path which connects the plurality of antenna units with the communication circuit; and a second switch arranged in an electric path which connects the at least one antenna unit with the communication circuit wherein the first switch and the second switch can be configured to connect the plurality of antenna units with the communication circuit and the at least one antenna unit with the communication circuit by using a first electric path and a second electric path for connecting the first switch and the second switch. Other examples are possible.

No. of Pages : 49 No. of Claims : 15
**Title of the invention:** DEVICE FOR EXPOSURE OF A SUBSTRATE

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**Abstract:**
The invention relates to a device (1) for exposure of a substrate (200) having an exposure unit comprising at least one radiation generator (2) for electromagnetic radiation and having a mask (100) which is transparent to the electromagnetic radiation at least in regions for transferring a structure or information contained in the mask to the substrate. According to the invention the mask (100) is connected to the exposure unit by a receiving and holding device (6) and is held thereto by negative pressure wherein the mask is supported by supporting elements (70 80) in an orientation that is planar and parallel to the substrate (200).

No. of Pages : 10 No. of Claims : 9
An apparatus for generating a plurality of loudspeaker signals from two or more audio source signals is provided. Each of the two or more audio source signals shall be reproduced in one or more of two or more sound zones and at least one of the two or more audio source signals shall not be reproduced in at least one of the two or more sound zones. The apparatus comprises an audio preprocessor configured to modify each of two or more initial audio signals to obtain two or more preprocessed audio signals. Moreover, the apparatus comprises a filter configured to generate the plurality of loudspeaker signals depending on the two or more preprocessed audio signals. The audio preprocessor is configured to use the two or more audio source signals as the two or more initial audio signals or wherein the audio preprocessor is configured to generate for each audio source signal of the two or more audio source signals an initial audio signal of the two or more initial audio signals by modifying said audio source signal. Moreover, the audio preprocessor is configured to modify each initial audio signal of the two or more initial audio signals depending on a signal power or a loudness of another initial audio signal of the two or more initial audio signals. The filter is configured to generate the plurality of loudspeaker signals depending on in which of the two or more sound zones the two or more audio source signals shall be reproduced and depending on in which of the two or more sound zones the two or more audio source signals shall not be reproduced.
The invention relates to a fitting (1) for releasably connecting two furniture parts (2, 3), consisting of a first fitting part (4) which can be secured to a first furniture part (2) and a second fitting part (5) which can be secured to a second furniture part (3). The second fitting part (4) is equipped with at least one rigid latching cam (23) behind which a latching lug (21) engages when the fitting parts (4, 5) are plugged into each other, said latching lug being attached to a deflectable latching tongue (20) of the first fitting part (4), and the latching tongue (20) can be moved out of the locking position, in which the latching tongue engages behind the latching cam (23), into a release position, in which the latching tongue is no longer engaged behind the latching cam (23), and can be fixed to the second fitting part (5) in the release position, wherein said fixation can be released by separating the fitting parts (4, 5). According to the invention, the latching tongue (20) has at least one latching spring (26), the free spring end of which can be deflected transversely to the deflection plane (28) of the latching tongue (20) by a counter bearing (27) of the second fitting part (5) when the fitting parts (4, 5) are plugged into each other. The free spring end remains deflected by the counter bearing (27) from the locking position up until the release position of the latching tongue (20) and snaps back behind the counter bearing (27) in the release position of the latching tongue (20), thereby becoming fixed to the second fitting part (5).
(54) Title of the invention : GYPSUM-BASED PANEL

(57) Abstract :
A panel has a gypsum matrix in which the following additives are embedded: glass fibre in an amount greater than 1 wt% relative to the gypsum and a synthetic polymeric binder in an amount greater than 2.5 wt% relative to the gypsum. The glass fibre and synthetic polymeric binder are present in a weight ratio of at least 2 parts binder to one part fibre. The amount of sand present in the gypsum matrix lies in the range 0-0.5 wt% relative to the gypsum. The amount of cellulosic fibre present in the gypsum matrix lies in the range 0-2 wt% relative to the gypsum.

No. of Pages : 12 No. of Claims : 13
Methods of providing quality of service support for tactile traffic are disclosed. In one embodiment an electronic device notifies a controller that an application has been authorized to transmit tactile traffic in the communication network. The controller responsive to the notification causes the backhaul node to install a flow table entry in a flow table of the backhaul node through which packets of the application is to be forwarded within a latency defined for the tactile traffic by the backhaul node. The electronic device authenticates a packet being sourced from or destined to the application that has been authorized to transmit the tactile traffic in the communication network and forwards the packet within the latency defined for the tactile traffic.
The present disclosure relates to amine-substituted aryl or heteroaryl compounds. The present disclosure also relates to pharmaceutical compositions containing these compounds and methods of treating a disorder (e.g., sickle cell anemia) via inhibition of a methyltransferase enzyme selected from EHMT1 and EHMT2, by administering an amine-substituted aryl or heteroaryl compound disclosed herein or a pharmaceutical composition thereof to subjects in need thereof. The present disclosure also relates to the use of such compounds for research or other non-therapeutic purposes.

No. of Pages : 540 No. of Claims : 79
Inorganic particulate compositions containing inorganic particles associated with a copolymer of a hydrophilic monomer and a hydrophobic monomer associated with the inorganic particles are provided. The particulate composition satisfies at least one of the following properties: a BET surface area of the inorganic particles is greater than 8 \( \text{m}^2/\text{g} \) a Hegman value of the inorganic particles is 75 microns or less and a rate of water loss from the composition upon drying from a moisture level greater than 2 % wt % is at least 30% greater than a composition having a corresponding content of a polyacrylate polymer associated with the particles. A method to prepare the composition and formulations for inks, paints, coatings, and filled polymeric articles containing the inorganic particulate composition are also provided.
No. of Pages : 52 No. of Claims : 15
The invention relates to a plug contact (1) for electrically contacting a printed circuit board (2) by plugging the plug contact (1) into a contact hole (3) of the printed circuit board (2), comprising two contact limbs (4, 5) which are elastic relative to each other, a terminal region (6), and a connection region (7). The connection region (7) connects the two contact limbs (4, 5) together and to the terminal region (6), and the plug contact (1) is punched out of a flat metal material and is bent. The plug contact (1) according to the invention ensures multiple plugging and pulling cycles without the inner wall (9) of the contact hole (3) being damaged in that each of the two contact limbs (4, 5) has a contacting region (4a, 5a) which contacts the contact hole (3) in the plugged-in state. The outer contour (8) of each of the two contact limbs (4, 5) has the shape of a segment of a circle in a cross-sectional view in the contacting region (4a, 5a), and the radius of the outer contour (8) is smaller than the radius of the corresponding contact hole (3) of the printed circuit board (2).
(54) Title of the invention: MICROFLUIDIC DEVICES HAVING A MICROCHANNEL WITH HYDROPHILIC COATING

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(57) Abstract:
The present invention is in the field of medical diagnostics and microfluidics and primarily relates to a microfluidic device for the analysis of biological samples. The microfluidic device of the present invention comprises at least one microchannel the inner surface of which is at least partially coated with a hydrophilic coating. This hydrophilic coating is located on top of the intermediate layer which in turn is located between the material of the inner surface of the microchannel and the hydrophilic coating.

No. of Pages: 27 No. of Claims: 15
Embodiments herein relate for example to a method performed by a wireless device in a first wireless communication system that is deployed on a frequency resource. The wireless device receives information indicating a PRB offset and a corresponding channel raster offset. The channel raster offset is an offset in frequency between a channel raster used by the wireless device (105) in a cell search process and the frequency resource. The PRB offset indicates an offset between the frequency resource and an inner frequency resource on which a second wireless communication system is deployed. In the frequency domain the second wireless communication system is deployed on at least one higher frequency resource above the inner frequency resource and at least one lower frequency resource below the inner frequency resource. The wireless device determines based on the received information an adjustment in frequency applicable for the frequency resource on which the first wireless communication system is deployed.
The present invention relates to a new linear alpha olefin catalyst and a preparation and an application thereof. The catalyst composition is composed of a main catalyst and an auxiliary catalyst wherein the main catalyst is a ferric imino coordination compound and the auxiliary catalyst comprises methylaluminoxane triisobutyl aluminium borane and GaCl3. The catalyst composition is used for catalyzing ethylene oligomerization for preparation of linear alpha olefin; the selectivity of the linear alpha olefin is larger than 96% and the carbon number distribution of the obtained linear alpha olefin is C4-C28 wherein the C6-C20 content is larger than 75%. The catalyst according to the present invention is structurally stable features high catalytic efficiency and can be used in ethylene oligomerization. The preparation method according to the present invention has the advantages of having simple and convenient operations high yield easy access to raw materials low costs low environmental impact and suitability for industrial production.

No. of Pages : 19 No. of Claims : 11
Title of the invention: ULTRA BROAD BAND DUAL POLARIZED RADIATING ELEMENT FOR A BASE STATION ANTENNA

Abstract:
The invention refers to a radiating element for a base station antenna the radiating element comprising: a support structure at least a pair of dipole arms in a first layer of the support structure and at least two parasitic arms in a second layer of the support structure wherein the distance between the first and the second layer is between 0.0004 and 0.1 preferably between 0.002 and 0.02 of the minimum wavelength of the operating frequency band of the radiating element wherein the area of the parasitic arms in a projection perpendicular from the second to the first layer cover at least 60% of the areas of the at least one pair of dipole arms.

No. of Pages: 11 No. of Claims: 13
### Title of the invention: MESSAGE TRANSMISSION METHOD USER EQUIPMENT AND NETWORK EQUIPMENT

| (51) International classification | :H04W24/02 |
| (31) Priority Document No | :201610201016.8 |
| (32) Priority Date | :31/03/2016 |
| (33) Name of priority country | :China |
| (86) International Application No Filing Date | :PCT/CN2017/076619 :14/03/2017 |
| (87) International Publication No | :WO 2017/167010 |
| (61) Patent of Addition to Application Number Filing Date | :NA :NA |
| (62) Divisional to Application Number Filing Date | :NA :NA |

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### Name of Inventor:
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2) SUN, Hao

### Abstract:
The application provides a message transmission method user equipment and network equipment. The method comprises: user equipment (UE) determines a sub-carrier interval in a serving cell; the UE determines according to the sub-carrier interval in the serving cell a system parameter of the serving cell; and the UE transmits according to the system parameter of the serving cell to network equipment and in the serving cell a message or receives according to the system parameter of the serving cell a message transmitted from the network equipment. The message transmission method user equipment and network equipment provided in the application can determine if the serving cell supports a plural sets of system information and according to the sub-carrier interval in the serving cell the system parameter currently used in the serving cell and can use the system information to transmit or receive messages increasing data transmission efficiency.

No. of Pages: 61 No. of Claims: 42
### Title of the invention: METHOD AND DEVICE FOR UPLINK RESOURCE ALLOCATION AND SIGNAL MODULATION

| (51) International classification | :H04L1/00 |
| (31) Priority Document No | :PCT/CN2016/080798 |
| (32) Priority Date | :29/04/2016 |
| (33) Name of priority country | :China |
| (86) International Application No | :PCT/CN2016/081568 |
| Filing Date | :10/05/2016 |
| (87) International Publication No | :WO 2017/185406 |
| (61) Patent of Addition to Application Number | :NA |
| Filing Date | :NA |
| (62) Divisional to Application Number | :NA |
| Filing Date | :NA |

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### Name of Inventor:

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2) LIU, Bin
3) WANG, Jian

### Abstract:

Provided in embodiments of the present invention are a method and device for uplink resource allocation and signal modulation, the method comprising: a UE obtains a reference signal transmission resource granularity ΔRS and a scheduling bandwidth NuRB, and determines, according to the ΔRS and NuRB, a reference signal transmission resource and a first signal transmission resource on a symbol containing the reference signal transmission resource within a transmission time interval (TTI), the reference signal transmission resource and first signal transmission resource being frequency-division multiplexed. The UE sends a reference signal and a first signal on a symbol containing the reference signal transmission resource. By means of the present method, the reference signal transmission resource and first signal transmission resource can be flexibly scheduled and allocated within a short TTI, while requiring no additional signaling overhead.

No. of Pages: 43  No. of Claims: 18
The invention describes a novel unitary stairlift rail which is configured to cause a stairlift carriage and chair to rotate a small amount in a downhill direction adjacent to the lower end of the rail thus avoiding clash between the chair and the staircase.
Title of the invention: A SEPTUM HOLDER WITH MOVEABLE SEPTUM

Abstract:
Disclosed is a septum holder that comprises a body having an upper body part and a lower body part that has a bored out interior. An insert comprising at least one bore that forms the seat of a needle valve fits loosely into the bored out interior of the lower body part. A septum comprising an upper part is attached to an exterior surface of the lower body part of the septum holder. A lower part of the septum extends downward beyond the lower edge of the lower body part of the septum holder. The septum holder is characterized in that the insert can freely move up and down in the interior of the lower body part and the septum can freely move up and down on the exterior surface of the lower body part. Also disclosed is a connector section for a liquid transfer apparatus that comprises the septum holder.

No. of Pages: 22 No. of Claims: 13
**Title of the invention:** WIRELESS POWER TRANSMISSION METHOD AND DEVICE

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<td>2) SHIN, Jae-Hyuck</td>
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**Abstract:**
Provided is a wireless power transmission device. The wireless power transmission device comprises a communication unit a power reception unit and a processor. The processor may be configured to perform control to: acquire communication establishment information and location information associated with a wireless charging area from a tag device through the communication unit; establish communication with the wireless power transmission device on the basis of the communication establishment information through the communication unit; transmit the location information to the wireless power transmission device through the communication unit; and after transmission of the location information receive power from the wireless power transmission device through the power reception unit.

No. of Pages : 49 No. of Claims : 15
This milling cutter is provided with: a tool body which is rotated about an axis; and multiple cutting edges which are provided on a distal-end outer circumferential section of the tool body so as to be spaced from each other in the circumferential direction. Each of the multiple cutting edges includes: a flat surface processing cutting edge which extends along an imaginary plane perpendicular to the axis; and a recessed groove processing cutting edge which protrudes toward the distal end side in the axial direction relative to the flat surface processing cutting edge. The recessed groove processing cutting edge has: a first tilted part which extends more toward the distal end side in the axial direction at portions thereof further in the radially outward direction orthogonal to the axis; a second tilted part which is disposed at the outer side in the radial direction relative to the first tilted part and which extends more toward the proximal end side in the axial direction at portions thereof further in the radially outward direction; and a tip end section which connects the first tilted part and the second tilted part to each other.
Title of the invention: METHODS AND DEVICES FOR MULTIPLE ACCESS TRANSMISSION

Abstract:
Aspects of the present disclosure provide methods and devices for multiple access downlink transmissions from a network side component to one or more User Equipment (UE) or multiple access uplink transmissions from two or more UEs to a network side component. In a downlink direction a network side device generates for each sub-carrier of the block of sub-carriers a single constellation point from one or more bits of a multi-bit symbol from each of multiple layers. In an uplink direction each UE maps at least one bit from one or more layers of multi-bit symbols onto a subset of a block of sub-carriers. The two or more UEs collectively transmit on the block of sub-carriers.
Disclosed are an electronic package structure with high reliability a circuit board and a device. The electronic package structure with high reliability comprises: a plurality of package layers (210-250) and a mechanical support wherein an electrically functional welding spot is arranged in a first area of each package layer of the plurality of package layers and any two adjacent package layers are connected by means of the electrically functional welding spot; and a mechanical support layer is arranged in a second area of each package layer of the plurality of package layers and the mechanical support layer is used for supporting two adjacent package layers wherein the first area is arranged on the periphery of the second area. By means of the technical solution the problem of fracture failure of an internal silicon wafer of an upper package layer or a lower package layer under a mechanical load can be solved.
**Abstract:**

Provided are a battery charging method and an electronic device. The electronic device includes a connector that includes a first terminal to which a voltage is applied by an external charger and a second terminal for transmitting and receiving data and a first charging circuit configured to charge a battery of the electronic device by using the voltage applied to the first terminal. The first charging circuit may include a communication circuit configured to transmit information related to the battery through the second terminal, a voltage converter configured to convert a voltage supplied to the battery and a first controller circuit configured to obtain first information regarding a voltage of the battery control the communication circuit to transmit the first information to a charger connected with the connector and control the voltage converter to charge the battery using a voltage adjusted based on the first information by the charger if the adjusted voltage is applied to the first terminal.

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The invention relates to a method for producing a dry strengthening agent particularly glyoxalated polyacrylamide in which ethanedial (glyoxal) is added to an aqueous solution of polyacrylamide while being agitated with a circulation pump. In said method the reaction is started by adding a base particularly a strong base at a basic pH value particularly a pH value of higher than 8 and is left to react while being agitated and/or circulated and once a predetermined reaction time has passed the reaction is stopped by adding an acid while being agitated and/or circulated. The method is carried out as a discontinuous method in which a quantitative reaction of the ethanedial with a surplus amount of polyacrylamide in an aqueous basic medium is open-loop and/or closed-loop controlled on the basis of at least one and preferably at least two of the following factors: a) turbidimetric analysis b) pH value adjustment depending on the temperature c) pH value adjustment depending on the reaction time d) drop in pH value or e) current consumption of the circulation pump.

No. of Pages : 15 No. of Claims : 10
The present disclosure relates to systems and methods wherein a dilute hydrocarbon stream can be oxidized to impart added energy to a power production system. The oxidation can be carried out without substantial combustion of the hydrocarbons. In this manner dilute hydrocarbon streams that would otherwise be required to undergo costly separation processes can be efficiently utilized for improving the power production system and method. Such systems and methods particularly can utilize dilute hydrocarbon stream including a significant amount of carbon dioxide such as may be produced in hydrocarbon recovery process such as enhanced oil recovery or conventional hydrocarbon recovery processes.
METHOD AND AN APPARATUS FOR REFERENCE SIGNAL MAPPING FOR SIDELINK COMMUNICATIONS

UE (12) for transmission of a demodulation reference signal DMRS for sidelink communications is provided. UE (12) includes processing circuit (26) configured to: determine at least one transmission parameter associated with at least one of data transmission and control information transmission and generate a DMRS using the determined at least one transmission parameter. UE (12) includes transmitter circuit (22) configured to transmit the DMRS.
**Title of the invention:** ALLOCATION-BASED DISTORTION FUNCTION SELECTION

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**Abstract:**

A radio transmitter circuit (10) for transmitting signals within an uplink or sidelink frequency band of a cellular communications system is disclosed. It comprises a signal-generation circuit (20) configured to generate a transmission signal to be transmitted and a radio front-end circuit (30) connected to the signal-generation circuit (20) at an input of the radio front-end circuit (30) for receiving the transmission signal and configured to be connected to an antenna (40) at an output of the radio front-end circuit and to transmit the transmission signal to a remote node via said antenna (40). The signal-generation circuit (20) is configured to select a distortion function (D1 D2) based on a location of an allocated radio frequency resource within said uplink or sidelink frequency band for the transmission signal. Furthermore the signal-generation circuit (20) is configured to generate an intermediate transmission signal based on information to be transmitted in the transmission signal. Moreover the signal-generation circuit (20) is configured to generate the transmission signal by applying the distortion function (D1 D2) to the intermediate transmission signal.
The present invention relates to a self-calcining electrode material for electric arc furnaces containing one or more carbon components and a binder wherein the binder is hard bitumen and having a needle penetration at 25°C according to DIN EN 1426 of < 50 [per 0.1 mm] and/or a softening point (ring and ball) according to DIN EN 1 427 of at least 65°C and/or having a density at 25°C according to DIN EN 52004 of 0.5 to 2 g/cm³ wherein the electrode material has a PAH content of < 500 ppm. The hard bitumen is preferably derived by flash distillation from soft and medium-hard bitumen types and has a high sulfur content.
(12) PATENT APPLICATION PUBLICATION

(21) Application No.201837040034 A

(19) INDIA

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

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<th>(54) Title of the invention : METHOD AND SYSTEM FOR CONNECTING VIRTUAL PRIVATE NETWORK BY TERMINAL AND RELATED DEVICE</th>
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<td>Filing Date : NA</td>
</tr>
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</table>

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(72) Name of Inventor :
1) YANG, Yancheng
2) CHEN, Xiangrong

(57) Abstract :
A method and system for connecting a virtual private network by a terminal and a related device for use in resolving the problems of great working load and easily-occurring errors when an Internetwork protocol (IP) address of a VPN gateway is configured for a terminal. The method comprises: a VPN control device receives a first handshake packet sent by a routing gateway the first handshake packet being sent after the routing gateway receives a second handshake packet that is sent by the terminal and that is used for initiating a negotiation process of a first secure sockets layer (SSL) session to the VPN control device; the VPN control device negotiates according to the first handshake packet with the terminal to determine a session parameter of the first SSL session and verifies the terminal by means of the first SSL session; after the first terminal passes the verification the VPN control device determines an IP address of the first VPN gateway that allows the terminal to access; and the VPN control device notifies the terminal of the IP address of the first VPN gateway.

No. of Pages : 30 No. of Claims : 16
A system for the electrochemical detection of creatinine levels includes a test strip including an electrode and a counter electrode the electrode and counter electrode located proximate to a sample reception area; and a coating on one of the electrode and counter electrode the coating including a reagent coating for creatinine.
A purpose of the present invention is to provide a fastening head module for coil packaging which can be manufactured in a small size and light weight performs an accurate operation enables convenient maintenance and repair and guarantees the packaging quality. To achieve the purpose described above the present invention provides a fastening head module for coil packaging applied to a fastener for steel sheet coil packaging the fastening head module comprising: a frame including a plurality of plates combined with each other; a correction part arranged on one side of the frame to correct a supplied band by removing the curvature of the band; a feeding part for transferring the band having passed through the correction part and applying a tension to the band after the band completely winds the coil; a guide part for converting a transfer direction of the band transferred by the feeding part and detecting a tension applied to the band; a grip part for clamping and cutting an end of the band; and a fastening part for fastening overlapped bands.
A blowtorch (100) for use in lateral blowing of a submerged burning molten pool metallurgical furnace and the metallurgical furnace (1000) having the blowtorch. The blowtorch (100) comprises: an outer blow pipe (10) the outer blow pipe (10) being provided therein with an oxidizing gas inlet (11) an oxidizing gas outlet (12) and an insertion port (13); an insertion self-locking element (20) having a self-locking and closing function the insertion self-locking element (20) being mounted at the insertion port (13) of the outer blow pipe; an inner blow pipe (30) the inner blow pipe (30) being provided with a medium inlet (31) a medium nozzle (32) and a medium clearing opening (33) the inner blow pipe (30) being detachably inserted on the insertion self-locking element (20) one extremity of the medium nozzle (32) on the inner blow pipe (30) being inserted into the outer blow pipe (10) via the insertion port (13) and the insertion self-locking element (20) self-locking and closing to block the insertion port (13) when the inner blow pipe (30) is detached from the insertion self-locking element (20); and a blocking element (40) the blocking element (40) being mounted on the inner blow pipe (30) to open or close the medium clearing opening (33). The blowtorch not only facilitates clearing of pulverized coal clogging the inner blow pipe (30) thus allowing the inner blow pipe (30) to be unlogged in a timely manner but also obviates the need to lower the liquid level of a molten pool when the inner blow pipe is detached for maintenance and effectively ensures normal operation of the metallurgical furnace thus increasing yield.
**Title of the invention:** HOUSING ASSEMBLY OF TERMINAL DEVICE AND TERMINAL

**Abstract:**
Disclosed are a housing assembly of a terminal device and a terminal. The housing assembly comprises a front housing assembly and a covering glass. The front housing assembly comprises a front housing and a plurality of support members disposed on the surface of the front housing; first adhesive guide grooves are provided on the surface of the front housing at intervals; a second adhesive guide groove is provided on the surface of each support member; the projections of the first adhesive guide grooves and the second adhesive guide grooves on the surface of the front housing are complete rings without overlaps; the covering glass and the front housing assembly are sealedly connected by dispensing adhesive in the first adhesive guide grooves and the second adhesive guide grooves.
A fingerprint module and an assembling method therefor. The fingerprint module comprises: a glass cover plate (1) a circular decorative piece (4) a support (5) and a fingerprint recognizer (3). The glass cover plate (1) comprises a circular hole (11); the circular decorative piece (4) and fingerprint recognizer (3) are disposed in the circular hole (11); the circular decorative piece (4) is divided into two parts wherein the axial cross-section of a first part (42) is vertical and the axial cross-section of a second part is (41) is L shaped; the second part (41) of the circular decorative piece (4) comprises an axially extended portion and a radially extending portion (411); the support (5) comprises a support end (52) and a fixing end (51); the radially extending portion (411) of the second part (41) of the circular decorative piece (4) is disposed between the glass cover plate (1) and the fixing end (51) of the support frame (5) and is separately connected to the glass cover plate (1) and the fixing end (51) of the support frame (5); and the support end (52) of the support frame (5) is connected to the fingerprint recognizer (3). By configuring skirt on a part of the circular decorative piece (4) the space occupied by the skirt is reduced so that the installation of the fingerprint recognizer (3) is more reasonable and the costs are low.
Title of the invention: DETECTING A DEVIATION OF A SECURITY STATE OF A COMPUTING DEVICE FROM A DESIRED SECURITY STATE

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Abstract:
The invention relates to a method for detecting a deviation of a security state of a computing device from a desired security state the computing device being emulated by a virtual machine said method having the following steps: - creating a virtual copy of the virtual machine the creation being carried out during the runtime of the virtual machine with operation of the computing device continuing unimpaired; automatically starting operation of the virtual copy; - automatically carrying out a security check on the virtual copy with operation of the computing device continuing unimpaired; - automatically generating a result of the security check the result describing a security state of the virtual copy; - creating a threat indication for the computing device if the result indicates a deviation of the security state of the virtual copy from the desired security state of the computing device. The invention also relates to a device for detecting a deviation of a security state of a computing device from a desired security state and to a computer program product for carrying out the described method.

No. of Pages: 13 No. of Claims: 15
A method of determining a pose of a camera is described. The method comprises analyzing changes in an image detected by the camera using a plurality of sensors of the camera; determining if a pose of the camera is incorrect; determining which sensors of the plurality of sensors are providing the most reliable image data; and analyzing data from the sensors providing the most reliable image data.
**Title of the invention:** DATA TRANSMISSION METHOD AND APPARATUS

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**Name of Inventor:**
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2) ZHANG, Yi
3) TANG, Zhenfei

**Abstract:**
Provided are a data transmission method and apparatus. The method comprises: a network node receiving an uplink data transmission request sent by a terminal the uplink data transmission request being used to request the network node to allocate an uplink transmission resource to the terminal; the network node allocating the uplink transmission resource of a first subframe to the terminal according to the uplink data transmission request the first subframe being an uplink subframe or a downlink subframe; the network node sending scheduling control information to the terminal the scheduling control information being used to instruct the terminal to send data on the uplink transmission resource of the first subframe; and if the first subframe is the downlink subframe the network node stopping sending data on the first subframe and receiving on the uplink transmission resource of the first subframe the data sent by the terminal thereby avoiding the interference of the downlink data to the uplink data and thus ensuring the degree of satisfaction of QoS of a low delay service.

No. of Pages : 21 No. of Claims : 16
The invention relates to a migratory fish passage arrangement to arrange the flow of waters past an obstacle in the flow such as a dam in the riverbed upstream the natural flow direction of the water in the riverbed wherein the arrangement comprises a hydraulic flow arrangement that comprises a first intake tube (1) from an upstream location with respect to the dam (4) from an intake point (12) to a downstream location with respect to the dam to a feeding point (2) where there is a fish gate to give access to the fish to enter into an elevation tube (3) to enter from said feeding point (2) in the water in said elevation tube to be transported in the elevation tube (3) to an outlet (5) at upstream location with respect to the dam wherein the intake point (12) is at a higher water height than the outlet (5).

The invention also relates to a system to guide a migratory fish to pass a dam (4) that comprises said migratory fish passage arrangement and additionally a siphon tube (134) from an upstream (217B) location with respect to the dam (4) to a downstream (217A) location with respect to the dam (4) to constitute a migratory fish return route.
METHOD FOR INCREASING CONTENT OF MOGROSIDE V IN SIRAITIA GROSVENORII SUSPENDED CELLS

Abstract:
Disclosed is a method for increasing the content of mogroside V in Siraitia grosvenorii suspended cells. In the method 10 to 200 mg/L of a yeast inducer and 50 to 260 mg/L of methyl jasmonate are respectively added on days 5 to 11 of the culture cycle of Siraitia grosvenorii suspended cells thereby increasing the synthesis rate and yield of mogroside V and also reducing the amount of mogroside II secreted. The method is beneficial for the market-oriented and large-scale production and quality control management of mogroside V.

No. of Pages: 21 No. of Claims: 7
### Abstract

The present invention relates to a reinforcement fiber (100) for strengthening a mortar. The reinforcement fiber (100) comprises: a cylindrical fiber body (10); and multiple linear grooves (20) formed on an outer surface of the fiber body (10) wherein the multiple linear grooves (20) comprise: multiple straight linear grooves (30) formed along the longitudinal direction on a surface of the fiber body (10); and an annular linear groove (40) surrounding the fiber body (10) while intersecting the multiple straight linear grooves (30) the straight linear grooves (30) are radially formed with reference to the center of the fiber body (10) and the straight linear grooves (30) and the annular linear groove (40) have a plurality of micro linear grooves (310) formed therein.

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**Title of the Invention:** REINFORCEMENT FIBER HAVING MULTIPLE LINEAR GROOVES AND MORTAR AND ASCON HAVING SAME REINFORCEMENT FIBER MIXED THEREIN

**Abstract:**

The present invention relates to a reinforcement fiber (100) for strengthening a mortar. The reinforcement fiber (100) comprises: a cylindrical fiber body (10); and multiple linear grooves (20) formed on an outer surface of the fiber body (10) wherein the multiple linear grooves (20) comprise: multiple straight linear grooves (30) formed along the longitudinal direction on a surface of the fiber body (10); and an annular linear groove (40) surrounding the fiber body (10) while intersecting the multiple straight linear grooves (30) the straight linear grooves (30) are radially formed with reference to the center of the fiber body (10) and the straight linear grooves (30) and the annular linear groove (40) have a plurality of micro linear grooves (310) formed therein.

---

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1) CHOI, Iilho

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**No. of Pages:** 13  **No. of Claims:** 6
The invention relates to a transport device (101) for transporting sacks or bags comprising at least one transport element extending in the transport direction (z) which transport element lies on a bottom (120 120) of the sack (102) or bag and an abutment against which the transport element presses the sack (102) or bag with a pressing force. The pressing force (provided by the transport element) is reduced in at least one area of the bottom (120 120).
Title of the invention: METHOD AND APPARATUS FOR TRANSMITTING AND RECEIVING REFERENCE SIGNALS IN WIRELESS COMMUNICATION

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2) NG, Boon Loo
3) RAHMAN, Md. Saifur
4) RAMAKRISHNA, Sudhir
5) LI, Yang

Abstract:
The present disclosure relates to a pre-5th-Generation (5G) or 5G communication system to be provided for supporting higher data rates Beyond 4th-Generation (4G) communication system such as Long Term Evolution (LTE). A base station includes at least one processor configured to determine an MRS resource set comprising a group of MRS resources each MRS resource comprising a set of MRS antenna ports and a transceiver configured to transmit a MRS based on the MRS resource set to a terminal. If at least two MRS antenna ports belong to a same MRS resource the at least two MRS antenna ports are quasi co-located with respect to a first set of QCL parameters if the at least two MRS antenna ports belong to a same MRS resource set the at least two MRS antenna ports are quasi co-located with respect to a second set of QCL parameters and if the at least two MRS antenna ports do not belong to the same MRS resource and the same MRS resource set the at least two MRS antenna ports are not quasi co-located with respect to either the first set or the second set of QCL parameters. The MRS is a CSI-RS for estimating a CSI and at least one of the first set and the second set of QCL parameters.
A mobile device including touch screens and a method of controlling the mobile device are provided. A mobile device includes a first housing including a first touch screen; a second housing rotatably connected to the first housing including a second touch screen; a sensor for detecting an angle between the first housing and the second housing; and a controller configured to calculate the angle between the first and second housings rotating with respect to each other using the sensor and if the calculated angle is greater than a threshold turn off an image-display area of the second touch screen execute an application in response to a first touch applied to an icon displayed on the first touch screen detect a second touch in a touch detectable area of the turned-off image-display area of the second touch screen and control the application in response to the detected second touch.
A heat sink for electronic devices such as wearable displays dissipates heat away from and electrical component such as a microprocessor. An adjustable support assembly permits adjustment of a visual display relative to a user's field of view.
(51) International classification: H04W72/04 H04W72/12
(31) Priority Document No: 15/142638
(32) Priority Date: 29/04/2016
(33) Name of priority country: U.S.A.
(86) International Application No: PCT/CN2017/082370
Filing Date: 28/04/2017
(87) International Publication No: WO 2017/186160
(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) AU, Kelvin Kar Kin
3) MA, Jianglei

(57) Abstract:
Systems and methods of scheduling grant-based traffic and mapping resources for grant-free traffic are provided. Grant-based traffic is scheduled in a first frequency partition and grant-free traffic is mapped in a second frequency partition. In a first option grant-based traffic is also scheduled in part of the first partition but in a limited manner that ensures a given devices transmission and retransmissions do not all experience interference with the grant-based traffic. In another option some grant-free traffic is mapped to part of the second partition and is spread in frequency across the second partition.

No. of Pages: 31 No. of Claims: 16
The present invention relates to an electric vehicle equipped with a wind power generator comprising fans which have spiral suction blades. The fans include a spiral suction fan having blades with the same height and an electric fan type spiral suction fan which are provided inside a funnel-shaped cylindrical protection cover to which the Venturi principle is applied the funnel-shaped cylindrical protection cover being capable of increasing wind sucked from the outside and converting the wind into wind velocity. The spiral suction fan having blades with the same height and the electric fan type spiral suction fan are connected to a power generator so as to generate electricity. The generated electricity is charged in a storage battery first and then is used to operate the vehicle by being connected to an electric motor and the remaining electricity is supplied to an electric power company so as to supplement electricity insufficient at home or an industrial complex.

No. of Pages : 9 No. of Claims : 5
Provided is a wireless power transmission apparatus. A wireless power transmitter comprises: an antenna; a memory; and a processor wherein the processor is set to control first reflection signal information on a pilot signal transmitted through the antenna at a first time point to be stored in the memory as reference information to control second reflection signal information on the pilot signal transmitted through the antenna at a second time point to be compared with the reference information and to determine on the basis of the comparison result a position of an object to be detected.
**Title of the invention:** PROCESS

### Details

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- **Application No:** 201837040720 A
- **Date of filing of Application:** 29/10/2018
- **Publication Date:** 16/11/2018
- **Priority Document No:** PV 2016-214
- **Priority Date:** 13/04/2016
- **Name of priority country:** Czech Republic
- **International Application No:** PCT/CZ2017/000024
  - **Filing Date:** 12/04/2017
- **International Publication No:** WO 2017/177988
- **Name of Applicant:** 1) SPOLEK PRO CHEMICKOU A HUTNI VYROBU, AKCIOVA SPOLECNOST
  - **Address:** Revolucni 1930/86 400 31 Usti nad Labem Czech Republic
- **Name of Inventor:**
  1) ONDRUS Zdenek
  2) KUBICEK Pavel
- **Abstract:**

  A process for producing a chlorinated alkane in which an alkene or an alkane feedstock is contacted with chlorine in a chlorination zone to produce a reaction mixture containing the chlorinated alkane wherein the chlorine supplied into the chlorination zone has an oxygen content of less than about 2000ppmv and wherein: the chlorination zone is closed to the atmosphere and/or the chlorination zone is operated under atmospheric or superatmospheric pressure and/or the chlorination zone is operated under an inert atmosphere and/or the content of dissolved oxygen in the alkene or alkane feedstock is less than 2000ppm.

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No. of Pages: 43  No. of Claims: 23
**Title of the invention**: COMBINATION DRIVER AND COMBINATION FASTENER FOR HEXAGONAL AND LOBED-HEAD FASTENING SYSTEMS

| (51) International classification | :B25B 15/02F16B  
| (31) Priority Document No | :11/139,887  
| (32) Priority Date | :27/05/2005  
| (33) Name of priority country | :U.S.A.  
| (86) International Application No | :PCT/US2006/020518  
| (87) International Publication No | :WO/2006/130490  
| (61) Patent of Addition to Application Number | :NA  
| (62) Divisional to Application Number | :4329/KOLNP/2007  

**Abstract**:

A driver has a tip that enables it to engage each one of a conventional hexagonal-head fastener and a conventional lobed-head fastener. The tip includes alternating flutes and crests. The crests are substantially flat to engage straight walls of a hexagonal-head. The flutes engage the lobed head of the fastener. A socket-type driver engages each type of conventional fastener. A fastener and a pair of socket-type fasteners have alternating flutes, which can be engaged by a conventional lobed-head driver, and crests or sidewall surfaces, which can be engaged by a conventional hexagonal-head driver.

No. of Pages : 47 No. of Claims : 19
The present invention relates to the stereospecific synthesis of (R)-5-((E)-2-(pyrrolidin-3-ylvinyl)pyrimidine, its salt forms, and novel polymorphic forms of these salts.

No. of Pages : 62 No. of Claims : 5
A rotating cutting tool that is internally cooled by cryogenic fluid has a generally cylindrical outer shape. At least one flute is formed on the cutting tool and a cutting edge is formed on an outer edge of the flute for cutting a workpiece. An internal cold flow delivery path for cryogenic coolant is in proximity to the cutting edge. A coolant cavity is formed in the cutting tool for supplying cryogenic coolant to the internal cold flow delivery path and a return path for cryogenic coolant is downstream from the cold flow delivery path. An exhaust port is coupled to the return path for exhausting cryogenic coolant to atmosphere. The exhaust port is remote from the cutting edge so that the cryogenic coolant is exhausted away from the cutting edge and away from a workpiece so that the cryogenic coolant does not cool and toughen the workpiece.
A transmission control method for HARQ is provided for improving HARQ performance in a mobile communication system. The transmission control method for Hybrid Automatic Repeat reQuest (HARQ) in a mobile communication system according to the present invention includes receiving a downlink resource assignment message; determining whether configured downlink assignment has been indicated to a HARQ entity since a previously received downlink assignment for a User Equipments (UEs) Cell-Radio Network Temporary Identifier (C-RNTI) for the same HARQ process; maintaining, if the configured downlink assignment has not been indicated to the HARQ entity, the HARQ process; and processing, if the configured downlink assignment has been indicated to the HARQ entity, the downlink resource assignment message as a resource assignment message for initial transmission.
A continuously variable transmission (1000) having a plurality of traction planets (1008) arranged angularly about a main drive axis (1010), each traction planet (1008) having a tiltable axis of rotation (1009A, 1009B), the continuously variable transmission comprising: a first stator plate (1014) coaxial with the main drive axis (1010), the first stator plate (1014) having a plurality of slots; a second stator plate (1016) coaxial with the main drive axis (1010), the second stator plate (1016) having a plurality of radial slots (1044 - Fig.10); and wherein the slots (1040, 1044) guide the tiltable axes of rotation (1009A, 1009B) of the traction planets (1008); and wherein the first stator plate (1014) is configured to rotate relative to the second stator plate (1016) characterized in that the slots of the first stator plate are radially offset slots (1040 - Fig.10). Operation: Due to the radial offset slots, relative rotation between the stator plates results in skewing of the traction planets and the skewing results in forces which tilt (automatically) the traction planets to an equilibrium condition. Each tilted position constitutes a different transmission ratio.
The invention relates to a device for branching a fluidic partial flow off a main flow by means of a hydraulic pump (10), said device comprising individual main chambers (12, 14, 16, 18, 20) which are sealed from each other and divided into functional groups, and operate according to the displacement principle. Said chambers enable fluid from at least one main flow inlet (22) to be transported from an inlet or suction side to an outlet or pressure side of the hydraulic pump (10) and then via at least one main flow outlet. At least one independent partial chamber (26) is provided for the transport of the partial flow, in addition to the main chambers (12, 14, 16, 18, 20), said partial chamber forming part of the pressure side of the hydraulic pump (10) and being connected to an independent partial current outlet (42) separate from the respective main flow inlet (22) and the respective main flow outlet.
The invention relates to a method and apparatus for controlling the height of a sintering bed for a sintering machine, the method and apparatus being capable of properly controlling the height of the sintering bed on an inlet side of the sintering machine are provided.

An ignition furnace inlet-side bed height and an ignition furnace outlet-side bed height of the sintering raw material on a pallet before and after an ignition furnace are detected, a pallet moving speed of the pallet and a feeder rotation speed of the drum feeder are detected, and a gate opening degree command value for the division gate is determined on the basis of a gate opening degree reference value for the division gate determined from the ignition furnace inlet-side bed height, a first opening degree correction value based on the pallet moving speed and the feeder rotation speed, and a second opening degree correction value based on the loss in bulk of the sintering bed when igniting and sucking begin, the loss in the bulk determined from the ignition furnace inlet-side bed height and the ignition furnace outlet-side bed height.

No. of Pages : 47 No. of Claims : 5
The present invention is directed to methods and compositions for inhibition of viral nucleic acid polymerases, such as RNA and DNA polymerases, and methods and compositions that are useful for treating viral infections in subjects. The methods comprise administering to the subject a therapeutically effective amount of a compound of formula I, or a pharmaceutically acceptable salt or hydrate thereof, or a composition comprising a compound of formula I, or a pharmaceutically acceptable salt or hydrate thereof, and a pharmaceutically acceptable carrier. The composition or method may optionally comprise one or more additional anti-viral agents.

No. of Pages: 67
No. of Claims: 19
The invention provides methods and devices for stereo encoding and decoding using complex prediction in the frequency domain. In one embodiment, a decoding method, for obtaining an output stereo signal from an input stereo signal encoded by complex prediction coding and comprising first frequency-domain representations of two input channels, comprises the upmixing steps of: (i) computing a second frequency-domain representation of a first input channel; and (ii) computing an output channel on the basis of the first and second frequency-domain representations of the first input channel, the first frequency-domain representation of the second input channel and a complex prediction coefficient. The upmixing can be suspended responsive to control data.

No. of Pages : 66  No. of Claims : 5
The invention relates to an automation system (50), including a first control device (1) having a first field bus terminal (31), a second control device (2) having a second field bus terminal (32), a field bus (3), a peripheral assembly (10) having at least one input/output peripheral module (11) for connecting up to sensors and/or actuators, wherein the peripheral assembly (10) has an interface module (20) having a third field bus terminal (33) for communication to and/or from the control devices (1, 2), wherein the interface module (20) has at least one input/output module (21) in which there is stored interconnect information, wherein the interconnect information creates an association between inputs/outputs of the one or more input/output peripheral modules (11) and the control devices (1, 2).
Abstract:
This invention relates to an optical lenses, which includes a lens substrate, a multi-layers film is set on one side of the lens substrate to block partial blue light and infrared light. The multi-layers film is formed by interactive stacking a plurality of layers of a low refractive index film (such as silicon dioxide film, the mix material film which is composed of silicon dioxide and alumina or the mix material film which is composed of silicon dioxide and silicon oxide) and a high refractive index film (such as zirconium dioxide film, trititanium pentoxide film, titanium dioxide film, tantalum pentoxide film or the mix material which is composed of zirconium dioxide and titanium dioxide), and each layer of film is used a specific thickness. So that, the optical lens can produce the effect of blocking partial blue light and infrared light without overly increased in color, allowing the users eyes to keep cool due to partial infrared light blocking. Moreover, the optical lens can also reduce the users eyes produce age related macular degeneration or cataract to achieve the effect of reduce eye fatigue and prolong vision view due to partial blue light blocking.
**Title of the invention:** COSMETIC COMPOSITION COMPRISING ANIONIC SURFACTANTS AMPHOTERIC SURFACTANTS CATIONIC POLYMERS AND LIQUID FATTY SUBSTANCES CHOSEN FROM FATTY ALCO-HOLS AND FATTY ESTERS AND COSMETIC TREATMENT PROCESS

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| (72) Name of Inventor            | 1) THOMAS, Béatrice       |
|                                 | 2) MODESTE, Véronique     |

**Abstract:**
Cosmetic composition comprising anionic surfactants amphoteric surfactants cationic polymers and liquid fatty substances chosen from fatty alcohols and fatty esters and cosmetic treatment process. The present invention relates to a cosmetic composition especially a hair composition comprising: one or more anionic surfactants - one or more amphoteric surfactants - one or more cationic polymers with a high cationic charge density - one or more liquid fatty substances chosen from non-oxyalkylenated fatty alcohols and monocarboxylic fatty acid esters and also mixtures thereof. The invention also relates to a cosmetic process for treating and more particularly for washing and conditioning keratin materials especially the hair using the presented composition.

No. of Pages: 24 No. of Claims: 21
(12) PATENT APPLICATION PUBLICATION
(19) INDIA
(22) Date of filing of Application: 29/10/2018
(36) Title of the invention: WIRELESS POWER TRANSMISSION APPARATUS AND CONTROL METHOD THEREFOR

(51) International classification: H02J50/90H02J50/80H02J7/02
(31) Priority Document No: 62/315869
(32) Priority Date: 31/03/2016
(33) Name of priority country: U.S.A.
(86) International Application No: PCT/KR2017/003503
Filing Date: 30/03/2017
(87) International Publication No: WO 2017/171440
(61) Patent of Addition to Application Number:
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3) LEE, Sang-Wook
4) LEE, Chong-Min
5) HAN, Hyo-Seok

(57) Abstract:
A wireless power transmission apparatus according to an embodiment comprises: a power transmission antenna including a plurality of patch antennas which wirelessly transmit power; and a plurality of communication antennas configured to receive a communication signal from an electronic device. The wireless power transmission apparatus also comprises a processor wherein the processor senses the direction in which the electronic device is located on the basis of the communication signal received through the plurality of communication antennas and controls the power transmission antenna to transmit the power in the sensed direction.

No. of Pages: 33 No. of Claims: 15
**Title of the invention:** MDCT-BASED COMPLEX PREDICTION STEREO CODING

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**Name of Inventor:**

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2) PURNHAGEN, Heiko
3) VILLEMOES, Lars

**Abstract:**
The invention provides methods and devices for stereo encoding and decoding using complex prediction in the frequency domain. In one embodiment, a decoding method, for obtaining an output stereo signal from an input stereo signal encoded by complex prediction coding and comprising first frequency-domain representations of two input channels, comprises the upmixing steps of: (i) computing a second frequency-domain representation of a first input channel; and (ii) computing an output channel on the basis of the first and second frequency-domain representations of the first input channel, the first frequency-domain representation of the second input channel and a complex prediction coefficient. The upmixing can be suspended responsive to control data.

No. of Pages: 66 No. of Claims: 6
The invention relates to a routing system (600) for at least one heavy and/or rigid line for example a power cable for shore-side power supply for a ship (alternative maritime power) which routing system has a winding device (602) which is rotatable about an axis of rotation (A) for coiling and uncoiling the line (610) and a rotary guide (106; 206; 606) for the line from a first point (F) to a relatively rotatable second point (R). The rotary guide has a helical configuration having first helical layers (117; 257) in which the line is wound about the axis of rotation (A) and second helical layers (118; 258) in which the line is wound in the opposite direction. A return curve (119; 259) connects both helical layers. According to the invention the rotary guide (106; 206; 606) has a tubular support socket (140; 240; 640; 130; 230) which is coaxial with respect to the axis of rotation and serves to support the helical layers radially outwards or radially inwards. Furthermore a rotary decoupling means is provided by which helical layers (117; 257; 118; 258) supported on the support socket are decoupled from the winding device (602).
An electronic device and method for processing card operating information is provided. The electronic device includes a first memory, a second memory, and a processor. When the response indicates that the account information corresponds to the payment required information stored in the second memory, the processor receives from the first external device the card operating information corresponding to the payment required information and stores the received card operating information in the first memory. When the response indicates that the account information does not correspond to the payment required information stored in the second memory, the processor receives a request from a second external device to delete the payment required information from the second memory.
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| 106 | DELHI    | 1430/DELNP/2015 | 08/11/2018 00:00:00 | Remfry House Millenium Plaza Sec 27 | <a href="mailto:remfry-sagar@remfry.com">remfry-sagar@remfry.com</a> |
| 107 | DELHI    | 10542/DELNP/2012 | 08/11/2018 00:00:00 | AMARCHAND &amp; MANGALDAS &amp; SUresh A. SHRoff &amp; CO. AMARCHAND TOWERS 216, OKHLA INDUSTRIAL ESTATE, PHASE III NEW DELHI-110 020 | <a href="mailto:dev.robinson@amarchand.com">dev.robinson@amarchand.com</a> |
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| 109 | DELHI    | 2804/DEL/2013 | 08/11/2018 00:00:00 | DR. S.M. GUPTA PROFESSOR, CIVIL ENGINEERING DEPARTMENT, NATIONAL INSTITUTE OF TECHNOLOGY, KURUKSHETRA, HARYANA-136119 | <a href="mailto:sm_gupta85@rediffmail.com">sm_gupta85@rediffmail.com</a> |
| 110 | DELHI    | 2015/DELNP/2014 | 08/11/2018 00:00:00 | LEX ORBIS Intellectual Property Practice 709/710 Tolstoy House 15 17 Tolstoy Marg | <a href="mailto:manisha@lexorbis.com">manisha@lexorbis.com</a> |
| 111 | DELHI    | 8383/DELNP/2012 | 08/11/2018 00:00:00 | ANAND AND ANAND ADVOCATES B-41, NIZAMUDDIN EAST NEW DELHI 110013, INDIA | <a href="mailto:anandandanand@vsnl.com">anandandanand@vsnl.com</a>,<a href="mailto:email@anandandanand.com">email@anandandanand.com</a> |
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| 113 | DELHI    | 2454/DEL/2013 | 08/11/2018 00:00:00 | CHADHA &amp; CHADHA, Advocates, F-46, Himalaya House, 23, Kasturba Gandhi Marg, New Delhi 110001 India. | <a href="mailto:info@iprattorneys.com">info@iprattorneys.com</a>,<a href="mailto:patents@iprattorneys.com">patents@iprattorneys.com</a> |
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<td><a href="mailto:nareshha@yahoo.co.in">nareshha@yahoo.co.in</a>,<a href="mailto:prof.trivedi@yahoo.com">prof.trivedi@yahoo.com</a></td>
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<td><a href="mailto:rakeshdahale88@gmail.com">rakeshdahale88@gmail.com</a></td>
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<td>CHANDRAKANT M. JOSHI PATENT &amp; TRADE MARK ATTORNEYS, 5th &amp; 6th Floor VISHWANANAK, CHAKALA ROAD, ANDHERI (EAST), MUMBAI - 400 099. TEL. NO. 912228380848 FAX. NO. +91-22-28380737 EMAIL: <a href="mailto:cmjoshi@bom3.vsnl.net.in">cmjoshi@bom3.vsnl.net.in</a></td>
<td><a href="mailto:cmjoshi@bom3.vsnl.net.in">cmjoshi@bom3.vsnl.net.in</a>,<a href="mailto:patents@cmjoshi.com">patents@cmjoshi.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys B1- 601, 6th Floor, Marathon NextGen Innova, Opposite Peninsula Corporate Park, Off G. K. Marg, Lower Parel, Mumbai- 400013, India</td>
<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td>Dr. Rajeshkumar H. Acharya Law Office of H K Acharya &amp; Company Advocates Patent &amp; Trademark Agents HK Avenue 19 Swastik Society Navrangpura Ahmedabad 380009 INDIA</td>
<td><a href="mailto:info@hkindia.com">info@hkindia.com</a>,<a href="mailto:hkpatent@hkindia.com">hkpatent@hkindia.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys B1 601 6th Floor Marathon NextGen Innova Opposite Peninsula Corporate Park Off G. K. Marg Lower Parel Mumbai 400013 India</td>
<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td>DESIGN ELECTRICAL (DE) AIRCRAFT UPGRADE RESEARCH &amp; DESIGN CENTRE HINDUSTAN AERONAUTICS LIMITED NASIK DIVISION, OJHAR TOWNSHIP POST OFFICE, OJHAR (MiG), NASHIK 422 207</td>
<td><a href="mailto:design_de.nsk@hal-india.com">design_de.nsk@hal-india.com</a></td>
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<td>KRISHNA &amp; SAURA STRI ASSOCIATES 74/F, VENUS, WORLI SEA FACE MUMBAI-400018</td>
<td><a href="mailto:info@krishnaandsaurastri.com">info@krishnaandsaurastri.com</a></td>
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<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td>Anand and Anand Advocates B-41, Nizamuddin East New Delhi 110013, India.</td>
<td><a href="mailto:email@anandandanand.com">email@anandandanand.com</a>,<a href="mailto:ipo@iphorizons.com">ipo@iphorizons.com</a>,<a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td>Khaitan &amp; Co One Indiabulls Centre, 13th Floor 841 Senapati Bapat Marg Elphinstone Road Mumbai 400 013, Maharashtra, India</td>
<td><a href="mailto:kcopatents@khaitanco.com">kcopatents@khaitanco.com</a></td>
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<td>Legasis Partners B 105 ICC Trade Towers Senapati Bapat Road Pune 411016 India</td>
<td><a href="mailto:ip@legasis.in">ip@legasis.in</a></td>
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<td><a href="mailto:info@krishnaandsaurastri.com">info@krishnaandsaurastri.com</a></td>
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<td><a href="mailto:hkpatent@hkindia.com">hkpatent@hkindia.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys, C-915, Kailas Business Park, Hiranandani Link Road, Parksite, Vikhroli (West), Mumbai - 400079, INDIA</td>
<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a>,<a href="mailto:ip@legasis.in">ip@legasis.in</a></td>
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<td>KAN AND KRISME, ADVOCATES PATENT AND TRADEMARK ATTORNEYS, KNK HOUSE, A-11, SHUBHAM ENCLAVE, PASCHIM VIHAR, NEW DELHI-11 0063, INDIA</td>
<td><a href="mailto:knk@kankrishme.com">knk@kankrishme.com</a></td>
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<td>SEENERGI IPR, 7 K, TANGRA 2ND LANE, KOLKATA-700 046, INDIA</td>
<td><a href="mailto:mail@seenergi.com">mail@seenergi.com</a></td>
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<td>Ms. Rujuta Mehendale (IN/PA 2245), Ms. Pallavi Joshi (IN/ PA 2866). LegaLogic Consulting,Level 3,Sargam Tower,2 Neelkamat Society,Near Rajaram bridge, Karvenagar,Pune411052,Maharashtra,India.</td>
<td><a href="mailto:ipr@legallogic.co.in">ipr@legallogic.co.in</a></td>
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<td>No.</td>
<td>City</td>
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<td>CHADHA &amp; CHADHA, Advocates, Regus Business Center, Level 2, Connaught Place, Bund Garden Road, Pune 411001, Maharashtra, INDIA.</td>
<td><a href="mailto:patents@iprattorneys.com">patents@iprattorneys.com</a>, <a href="mailto:info@iprattorneys.com">info@iprattorneys.com</a>, <a href="mailto:mail@chadhaandchadha.com">mail@chadhaandchadha.com</a></td>
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<td>21</td>
<td>MUMBAI</td>
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<td>(1) MR. VIJAY SHARATCHANDRA TASE (REG. IN/PA 987) (2) MR. S.D. TASE (REG. NO. IN/PA 879) BOTH OF PEER TECHNICAL SERVICES PVT. LTD. 107 MAROL COOP INDUSTRIAL ESTATE, SAG BAG LANE, OFF ANDHERI KURLA ROAD, ANDHERI (E), MUMBAI 400 059, MAHARASHTRA STATE, INDIA.</td>
<td><a href="mailto:vijayt@peertechnical.net">vijayt@peertechnical.net</a>, <a href="mailto:vstase1960@gmail.com">vstase1960@gmail.com</a></td>
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<td>R.K. DEWAN &amp; COMPANY PODAR CHAMBERS, S.A. BRELVI ROAD, FORT, MUMBAI-400 001, MAHARASHTRA, INDIA.</td>
<td><a href="mailto:dewan@rkdewanmail.com">dewan@rkdewanmail.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys B1- 601, 6th Floor, Marathon NextGen Innova, Opposite Peninsula Corporate Park, Off G. K. Marg, Lower Parel Mumbai- 400013, India</td>
<td><a href="mailto:info@knspartners.com">info@knspartners.com</a></td>
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<td>BHANAGE BHALCHANDRA MAHADEO DEPARTMENT OF CHEMISTRY, INSTITUTE OF CHEMICAL TECHNOLOGY NATHALAL PAREKH MARG, MATUNGA (EAST), MUMBAI-400 019, MAHARASHTRA, INDIA</td>
<td><a href="mailto:bm.bhanage@gmail.com">bm.bhanage@gmail.com</a></td>
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<td><a href="mailto:patents@iprattorneys.com">patents@iprattorneys.com</a>, <a href="mailto:info@iprattorneys.com">info@iprattorneys.com</a></td>
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<td>D.P.AHUJA &amp; CO., VATIKA BUSINESS CENTER, LEVEL-5, SUITE # 23, TECH PARK-1, AIRPORT ROAD, YERWADA, PUNE-411 006, MAHARASHTRA, INDIA.</td>
<td><a href="mailto:ippune@dpahuja.com">ippune@dpahuja.com</a></td>
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<td>KRISHNA &amp; SAURASTRI ASSOCIATES 74/F, VENUS, WORLI SEA FACE MUMBAI - 400 018, MAHARASHTRA, INDIA</td>
<td><a href="mailto:info@krishnaandsaurastri.com">info@krishnaandsaurastri.com</a></td>
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<td>Mr. Priyank Gupta, StratJuris Partners, #302, The Capital B• Wing, Adjacent Rolling Hills, Baner Pashan Link Road, Pune - 411045, MH, India, Mob: 9545220444</td>
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<td>Dr. Gopakumar G. Nair Agent for the Applicant Gopakumar Nair Associates Shivmangal™, 3rd Floor, Near Big Bazaar, Akurli Road, Kandivali (East), Mumbai-400 101, Maharashtra, India.</td>
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<td>KHARKAR, Pallavi IPRAM Intellectual Property Services, 716, Swastik Disa Corporate Park, L.B.S Marg, Ghatkopar (W), Mumbai 400086 Maharashtra, India Phone: 91-22-250 04464 Fax: 91-22-250 04464</td>
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<td>Bhavik Patel, INFINVENT IP A9, Amruta Society, Nizampura, Vadodara-390 002, Gujarat, India. Telephone No. +91-265-2780-486 Mobile No. +91-9426041019 Email : <a href="mailto:info@infinventip.com">info@infinventip.com</a></td>
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<td>KAN AND KRISHME, ADVOCATES PATENT AND TRADEMARK ATTORNEYS, KNK HOUSE, A-11, SHUBHAM ENCLAVE, PASCHIM VIHAR, NEW DELHI-110063, INDIA</td>
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<td>KULKARNI SAMEER SUDHIR 51/SHANGRILA, 11TH GULM0HAR X ROAD, SAMARTH RAMDAS MARG, JUHU SCHEME, MUMBAI - 400 049, MAHARASHTRA STATE, INDIA.</td>
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<td>C/O LAKSHMI KUMARAN &amp; SRIDHARAN 401-404, Kakad Chambers, 132, Dr. Annie Besant Road, Worli Mumbai Maharashtra 400018 India</td>
<td><a href="mailto:iprdel@lakshmisri.com">iprdel@lakshmisri.com</a></td>
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<td>HIRAL CHANDRAKANT JOSHI CHANDRAKANT M. JOHISI PATENT &amp; TRADE MARK ATTORNEYS, 5TH &amp; 6TH FLOOR VISHWANANAK, CHAKALA ROAD, ANDHERI (EAST), MUMBAI-400 099.</td>
<td><a href="mailto:cmjoshi@bom3.vsnl.net.in">cmjoshi@bom3.vsnl.net.in</a>,<a href="mailto:patents@cmjoshi.com">patents@cmjoshi.com</a></td>
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<td><a href="mailto:cmjoshi@bom3.vsnl.net.in">cmjoshi@bom3.vsnl.net.in</a>,<a href="mailto:patents@cmjoshi.com">patents@cmjoshi.com</a></td>
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<td>KRISHNA &amp; SAURASTRI ASSOCIATES LLP 24/E, Venus, Worli Sea Face, Dr. R. G. Thadani Marg, Mumbai 400 018, Maharashtra, INDIA</td>
<td><a href="mailto:info@krishnaandsaurasti.com">info@krishnaandsaurasti.com</a></td>
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<td><a href="mailto:hkp@hkindia.com">hkp@hkindia.com</a></td>
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<td><a href="mailto:hkp@hkindia.com">hkp@hkindia.com</a>,<a href="mailto:hkp@hkindia.com">hkp@hkindia.com</a></td>
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<td>R.K.DEWAN &amp; COMPANY PODAR CHAMBERS, S. A. BRELVI ROAD, FORT, MUMBAI-400 001,MAHARASHTRA,INDIA.</td>
<td><a href="mailto:dewan@rkdewanmail.com">dewan@rkdewanmail.com</a>,<a href="mailto:dewan@rkdewanmail.com">dewan@rkdewanmail.com</a></td>
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<td>No.</td>
<td>Location</td>
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<td>HIRAL CHANDRAKANT JOSHI CHANDRAKANT M. JOSHI PATENT &amp; TRADE MARK ATTORNEYS, 5TH &amp; 6TH FLOOR VISHWANANAK, CHAKALA ROAD, ANDHERI(EAST), MUMBAI-400 099</td>
<td><a href="mailto:cmjoshi@bom3.vsnl.net.in">cmjoshi@bom3.vsnl.net.in</a>, <a href="mailto:patents@cmjoshi.com">patents@cmjoshi.com</a></td>
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<td>SRUTI SINGH PATEL AT. POST. MAJHAGWAN (SAROLI) TAHS. SIHORA, DIST. JABALPUR - 483 334, M.P</td>
<td><a href="mailto:delhi-patent@nic.in">delhi-patent@nic.in</a></td>
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<td><a href="mailto:jose.madan@khahtanco.com">jose.madan@khahtanco.com</a>, <a href="mailto:kcopatents@khahtanco.com">kcopatents@khahtanco.com</a>, <a href="mailto:mumpat@khahtanco.com">mumpat@khahtanco.com</a></td>
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The Patent Office Journal No. 46/2018 Dated 16/11/2018 44157
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The Patent Office Journal No. 46/2018 Dated 16/11/2018 44162
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<td>KAN AND KRISHME ADVOCATES PATENT AND TRADEMARK ATTORNEYS B-483 KNK HOUSE MEERA BAGH PASCHIM VIHAR NEW DELHI 110063 INDIA TEL:#91-11-47426666 FAX:#91-11-47426675 EMAIL:<a href="mailto:knk@kankrishme.com">knk@kankrishme.com</a></td>
<td><a href="mailto:knk@kankrishme.com">knk@kankrishme.com</a></td>
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<td><a href="mailto:patents@dpahuja.com">patents@dpahuja.com</a></td>
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<td>SHRI. P. SHUNMUGA PERUMAL, NO.6 2ND CROSS STREET, DHANDEESWAR NAGAR, VELACHERY, CHENNAI - 42.</td>
<td><a href="mailto:shanmahesh2003@yahoo.co.in">shanmahesh2003@yahoo.co.in</a></td>
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<td>CANTWELL &amp; CO 120 Velachery Main Road Guindy Chennai 600032 9144 - 42213409 9144 - 42213402 / 22350783</td>
<td><a href="mailto:patent@cantwellandco.com">patent@cantwellandco.com</a></td>
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<td>K&amp;S PARTNERS, Intellectual Property Attorneys, 515-B, Platinum Tower, 5th Floor, Sohna Road, Sector 47, Gurgaon - 122002, National Capital Region, India. T: +91 (124) 4708 700 F: +91 (124) 4708 760 M. +91 8130055293 E-mail: <a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a>,<a href="mailto:patent@depenning.com">patent@depenning.com</a></td>
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<td><a href="mailto:lsmds@lakshmisri.com">lsmds@lakshmisri.com</a>,IPRDEL@LA KSHMISRI.COM</td>
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<td><a href="mailto:patents@dpahuja.com">patents@dpahuja.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys 109 Sector 44 Gurgaon National Capital Region</td>
<td><a href="mailto:lsmds@lakshmisri.com">lsmds@lakshmisri.com</a>,IPRDEL@LA KSHMISRI.COM</td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys 105, Mettu Street, Ayanavaram Chennai-600 023 Tamil Nadu, India</td>
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<td>KAN AND KRISHME ADVOCATES, PATENT AND TRADEMARK ATTORNEYS B- 483, KNK HOUSE, MEERA BAGH, PASCHIM VIHAR, NEW DELHI-110063 ,INDIA.</td>
<td><a href="mailto:knk@kankrishme.com">knk@kankrishme.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys New Door No. 15 (Old No. 3) Postal Colony 4th Street, West Mambalam, Chennai 600033, Tamil Nadu, India Tel : + 91 (44) 49317777 Fax : + 91 (44) 49317788 Email: <a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td><a href="mailto:ravi.tumkur@philips.com">ravi.tumkur@philips.com</a></td>
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<td>DR. CHIDAMBARAM SUBRAMANIAN VENKATESAN, VICE PRESIDENT-R&amp;D, GLAND PHARMA LTD, 6-3-865/1/2, FLAT NO:201, GREENLAND APARTMENTS, AMEERPET, HYDERABAD, ANDHRA PRADESH, INDIA.500 016</td>
<td><a href="mailto:venkatesan@glandpharma.com">venkatesan@glandpharma.com</a></td>
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<td><a href="mailto:lmsds@lakshmisri.com">lmsds@lakshmisri.com</a>,<a href="mailto:IPRDEL@LAKSHMISRI.COM">IPRDEL@LAKSHMISRI.COM</a></td>
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<td>K&amp;S Partners Intellectual Property Attorneys New Door No. 15 (Old No. 3) Postal Colony 4th Street, West Mambalam, Chennai 600033, Tamil Nadu, India Tel : +91 (44) 49317777 Fax : +91 (44) 49317788 E-mail: <a href="mailto:iipo@knspartners.com">iipo@knspartners.com</a></td>
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<td>K &amp; S PARTNERS Intellectual Property Attorneys New Door No. 15 (Old No. 3) Postal Colony 4th Street, West Mambalam, Chennai 600033, Tamil Nadu, India Tel : +91 (44) 49317777 Fax : +91 (44) 49317788 Email: <a href="mailto:iipo@knspartners.com">iipo@knspartners.com</a></td>
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<td><a href="mailto:patent@depenning.com">patent@depenning.com</a></td>
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<td>GOSAKAN ARAVAMUDAN, UNICITA CONSULTING PVT. LTD., 44/1, 1ST FLOOR, SRIRAM MANDIR ROAD, BASAVANAGUDI, BANGALORE - 560 004.</td>
<td><a href="mailto:chennai-patent@nic.in">chennai-patent@nic.in</a></td>
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<td>IPR INTERNATIONAL SERVICES Block No. 8, Building No. 2, Rajinder Nagar NEW DELHI-110060, INDIA Phone No.: 91-11-25761755 Fax No.: 91-11-25864213 Mobile No.: 98110-83701 E-mail: <a href="mailto:ipris@vsnl.net">ipris@vsnl.net</a> &amp; <a href="mailto:docketing@ipr.in">docketing@ipr.in</a></td>
<td><a href="mailto:ravi.tumkur@philips.com">ravi.tumkur@philips.com</a>,<a href="mailto:ipris@vsnl.net">ipris@vsnl.net</a></td>
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<td>K &amp; S Partners Intellectual Property Attorneys # 4121/B 6th Cross 19A Main HAL II Stage (Extension) Bangalore - 560 038 INDIA</td>
<td><a href="mailto:ipo@knspartners.com">ipo@knspartners.com</a></td>
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<td>LAKSHMIKUMARAN &amp; SRIDHARAN 2, Wallace garden, 2nd Street, Chennai - 600006,India.</td>
<td><a href="mailto:iprdel@lakshmisri.com">iprdel@lakshmisri.com</a>,<a href="mailto:patent@depenning.com">patent@depenning.com</a>,<a href="mailto:iprdel@lakshmisri.com">iprdel@lakshmisri.com</a>,<a href="mailto:patent@depenning.com">patent@depenning.com</a></td>
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<td><a href="mailto:vpriyaa94@gmail.com">vpriyaa94@gmail.com</a></td>
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<td><a href="mailto:gm.mcsrdc@hal-india.com">gm.mcsrdc@hal-india.com</a></td>
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<td><a href="mailto:davar@cal2.vsnl.net.in">davar@cal2.vsnl.net.in</a>,<a href="mailto:davar@cal2.vsnl.net.in">davar@cal2.vsnl.net.in</a></td>
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<td><a href="mailto:nanjanonline@vsnl.net.info">nanjanonline@vsnl.net.info</a>@ipindiaasia.com</td>
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<td><a href="mailto:kkmipr@yahoo.co.in">kkmipr@yahoo.co.in</a></td>
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<td><a href="mailto:patent@depenning.com">patent@depenning.com</a></td>
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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-7 along with written statement and evidence, if any.

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<th>Application Number</th>
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<th>Date of Priority</th>
<th>Title of Invention</th>
<th>Name of Patentee</th>
<th>Date of Publication of Abstract u/s 11(A)</th>
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<td>23/04/2013</td>
<td>25/04/2012</td>
<td>METHODS FOR PRODUCING 1,5,7-TRIAZABICYCLO[4.4.0]DEC-5-ENE BY REACTION OF A DISUBSTITUTED CARBODIIMIDE AND DIPROPYLENE TRIAMINE</td>
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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-7 along with written statement and evidence, if any.

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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-7 along with written statement and evidence, if any.

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