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(54) Title of the invention : A POWERTRAIN MOUNT ASSEMBLY

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(52) Priority Document No :1513778.9
(53) Priority Date :04/08/2015
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(57) Abstract :
A powertrain mount assembly configured to connect a powertrain to a side rail of a vehicle frame structure, wherein the powertrain mount assembly comprises: a mounting bracket comprising a first side wall and a second side wall spaced apart from the first side wall, the mounting bracket being configured to receive a resilient member and a bracket arm between the first and second side walls, the bracket arm being connectable to the powertrain; and a first support bracket connectable to a surface of the side rail, wherein the first side wall of the mounting bracket is fastenable to the first support bracket and wherein the first support bracket is configured to be connected to the side rail at a location between the first and second side walls of the mounting bracket.

No. of Pages : 16 No. of Claims : 14
A comb includes a brush for cleaning a comb of a combing cylinder, a cylinder driving motor, which is configured to drive the combing cylinder, a variable speed driving motor, which is configured to drive the brush and is arranged independently from the cylinder driving motor, and a speed controller, which is configured to drive the variable speed driving motor. The speed controller is configured to control the variable speed driving motor such that a circumferential speed of a distal end of the brush is lower at least in an acceleration period and a deceleration period of the combing cylinder than in normal operation of the comber.
Title of the invention: TIMEPIECE REGULATING MECHANISM WITH MAGNETICALLY SYNCHRONIZED ROTATING ARMS

Abstract:
Timepiece regulating mechanism (200) comprising an escape wheel set (10) subjected to a drive torque, and at least one resonator (100) comprising a rigid structure (110) connected to a plate (1) by elastic return means (120) and carrying at least one inertia arm (130) cooperating with this escape wheel set (10) via magnetically and/or electrically charged tracks comprised both in this inertia arm (130) and in this escape wheel set (10), to form a synchronizing device between the escape wheel set (10) and the resonator (100), and the synchronizing device is protected from loss of synchronization in the event of an accidental torque increase by a mechanical anti-desynchronization mechanism comprising mechanical escapement stops (12) carried by the escape wheel set (10), and at least one mechanical inertia arm stop (132), carried by the inertia arm (130), and together arranged to maintain stopped in abutment in such event. FIG. 1

No. of Pages: 21 No. of Claims: 33
A straddle type vehicle capable of disposing a parking cable easily on the vehicle in a compact manner is provided. [Means for Solving the Problem] A swing arm 40 is swingably supported with respect to a vehicle body frame. A power unit PU is disposed in the swing arm 40 at a position in front of a rear wheel Wr. A rear wheel braking portion that brakes the rear wheel is mounted on the swing arm 40. A brake arm is extended from the supporting shaft of the rear wheel braking portion. A parking cable 34 has one end thereof connected to the brake arm and the other end thereof connected to a parking actuator 36. The parking actuator 36 is disposed in the power unit (PU) [Selected Drawing] FIG. 3
The invention relates to a method (100) for detecting faults in a LVDC electric line (500) characterised in that it comprises the following steps: acquiring (101) a first detection signal (VLOW) indicative of low-frequency components of an unbalancing current (IG) between a plurality of conductors of said electric line, said first detection signal being obtained by means of a low-pass filtering of a corresponding measuring signal (VM1) indicative of said unbalancing current; - acquiring (102) a second detection signal (VHIGH) indicative of high-frequency components of an unbalancing current (IG) between a plurality of conductors of said electric line, said second detection signal being obtained by means of a high-pass filtering of a corresponding measuring signal (VM2) indicative of said unbalancing current; - obtaining (103) a third detection signal (RT) by calculating the ratio between said first and second detection signals (VLOW, VHIGH); - checking (104) whether a DC current (IF) is present by comparing said third detection signal (RT) with a first threshold value (TH1). In a further aspect, the invention relates to an electronic device (1) including processing means for carrying out said method.
A communication device of handling a wireless local area network (WLAN) measurement configuration comprises instructions of establishing a connection to a base station (BS) of a cellular network; receiving the WLAN measurement configuration on the connection from the BS; performing WLAN measurement on a WLAN according to the WLAN measurement configuration; transmitting a first WLAN measurement result of the WLAN measurement on the connection to the BS according to the WLAN measurement configuration; receiving a cellular-WLAN aggregation (CWA) configuration on the connection from the BS; communicating a plurality of packets with the WLAN according to the CWA configuration; keeping the WLAN measurement configuration, when detecting a connection failure on the WLAN; and releasing the WLAN measurement configuration, when detecting a connection failure on the cellular network.
**Title of the invention**: SYSTEMS, METHODS, AND DEVICES FOR BIPOLAR HIGH VOLTAGE DIRECT CURRENT GROUND FAULT DETECTION

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**Abstract**:
Systems, methods, and devices for aircraft power distribution [200] include a bipolar high voltage direct current source component [210]; an electrical loading component [226] capable of drawing electrical power from the bipolar high voltage direct current source component [210]; a set of switching components [216] configured to selectively couple power from the bipolar high voltage DC source component [210] to the electrical loading component [226] and a ground fault interruption component [232] coupled to the set of switching components [216]. The ground fault interruption component [216] is configured to detect a ground fault based on a sensed difference between a current flowing out of the set of switching components [216] and back from the electrical loading component [226]. FIG. 1

**No. of Pages**: 28 **No. of Claims**: 10
The present invention relates to a rotary filter comprising: a) a filter drum positioned within a housing and rotatable about its axis in a first direction within the housing, wherein the filter drum comprises a plurality of drainage pipes each providing a fluid pathway from the outer surface of the filter drum to a control head; b) a loading zone for loading solids onto the outer surface of the filter drum comprising a filtrate output in the control head; c) a solids discharge zone for discharging solids from the outer surface of the filter drum; d) a first solids wash zone located before the solids discharge zone and after the loading zone in the first direction and comprising a first solids wash fluid input configured to direct wash fluid onto solids on the outer surface of the filter drum; and e) a wash fluid discharge zone located before the loading zone and after the solids discharge zone in the first direction, characterised in that the rotary filter is configured to discharge wash fluid from the drainage pipes in the wash fluid discharge zone. The invention also relates to a method for separating solids from a liquid in a rotary filter, and a process for the production of a purified aromatic dicarboxylic acid incorporating this method.
**Title of the invention:** DEVICE FOR CONTROLLING CONVEYANCE BETWEEN ROLLERS

- **International classification:** B65H23/192
- **Priority Document No:** 2014107018
- **Priority Date:** 23/05/2014
- **Name of priority country:** Japan
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- **Filing Date:** 18/03/2015
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- **Filing Date:** NA

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**Abstract:**
In order to obtain a device (1) for controlling conveyance between rollers that does not require time to search for an appropriate control gain and that makes it possible to achieve good response performance with respect to tension control even when a conveyance condition is changed a device (1) for controlling conveyance between rollers that conveys a conveyed material (11) between a speed axis roll (15) that is driven by a speed axis motor (14) and a tension axis roll (13) that is driven by a tension axis motor (12) while applying tension to said conveyed material (11) is provided with a gain table (29) in which a plurality of sets of the following are stored: a conveyance condition variable that varies while the conveyed material (11) is being conveyed and thereby affects the appropriate value of a control parameter; and a control parameter candidate value that is an appropriate control parameter. When the conveyance condition variable is changed calculation is performed on the basis of the conveyance condition variable and the gain calculation result. When the calculation is completed a control parameter candidate value and a conveyance condition variable are associated and written in the gain table (29).

No. of Pages: 49 No. of Claims: 8
A first computing device monitors a presence of a second computing device and determines when the second computing device has moved out of an area proximate to the first computing device. In response to determining that the second computing device moved out of the area, the first computing device is automatically configured to limit user interaction with one or more applications currently operating on the first computing device to a predetermined set of commands while preventing user interaction with other applications provided by the first computing device.
The present invention relates to dosing regimens with half life extended Factor VIIa (FVIIa) for prophylactic and on demand treatment of bleeding as well as for preventing a bleeding episode during or after surgery in patients with congenital or acquired bleeding disorders. The present invention further relates to the use of half life extended FVIIa for treating or preventing blood loss in patients without bleeding disorders in situations of hemorrhage i.e. due to trauma or surgery. Another aspect of the invention is the treatment of acquired haemophilia.
**Title of the invention:** ADJUSTABLE SPACING COMB, ADJUSTMENT DRIVE AND HAIR CUTTING APPLIANCE

| (51) International classification | :B26B19/20 |
| (31) Priority Document No | :14167674.2 |
| (32) Priority Date | :09/05/2014 |
| (33) Name of priority country | :EPO |
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**Abstract:**
The present disclosure relates to an adjustment drive (50) for an adjustable spacing comb (26) for a hair cutting appliance (10) and to a hair cutting appliance (10) that is fitted with an adjustable spacing comb (26). The present disclosure further relates to a method for operating an adjustable spacing comb (26) for a hair cutting appliance (10). The adjustment drive (50) comprises an actuator (52) for actuating a movable comb portion (40) of the adjustable spacing comb (26) with respect to a blade set (16) of the hair cutting appliance (10) a manually operable rotation element (64) particularly a manually rotatable rotation element (64) and an encoder (70) particularly a rotary encoder (70) that is configured to detect rotary movement of the rotation element (64) and to output a respective user input signal wherein the actuator (52) is operated on the basis of the user input signal.

No. of Pages : 18 No. of Claims : 15
A calibration circuit (100;300) includes a single-wire memory (110;214;U1;402) and a transmission line (120;310). The single-wire memory includes a power/interrogation terminal (320) and a ground terminal (330). The single-wire memory is configured to store calibration data for a sensor (130;202). The transmission line is configured to be coupled between the sensor and a sensor reader (140;210). The transmission line includes first and second conductors (216,222). The first conductor is coupled to the power/interrogation terminal and is configured to provide the calibration data and a sensor output signal to the sensor reader. The second conductor is coupled to the ground terminal and is configured to provide a ground reference for the first conductor, the single-wire memory, and the sensor. FIG. 1
Title of the invention: MACHINE TOOLPATH COMPENSATION USING VIBRATION SENSING

A method for machining a workpiece (18) using a programmable, numerically controlled machining system (8) by calculating or retrieving a compensated toolpath (35) based on comparing contact position (29) from monitoring a vibration signal from a vibration sensor (28) during probing of workpiece (18) with rotating tool (12) during relative motion therebetween. Contact position (29) is compared to position from predetermined toolpath (34) and wherein the predetermined toolpath (34) extends between initial machining point (36) and end machining point (38). Machining the workpiece (18) is done along compensated toolpath (35). The method may be done for repeated passes (40) of machining. The compensated toolpath (35) may include an angle offset (48) to a machining path coordinate system (46) of the predetermined toolpath (34). Workpiece (18) may be mounted in a multi axis manipulator (16) of machining system (8) for the probing and machining. Multi axis manipulator (16) may be computer controlled and may be part of a robot. FIG.1
IMPEDANCE CHARACTERISTICS MEASUREMENT DEVICE

impedance characteristics measurement device (200), which measures impedance characteristics of a rotating electrical machine (10), has: a DC power supply (110) connected in parallel to an armature (17) of the rotating electrical machine (10); a short-circuiting switch (120); a noise reduction resistor (130); an ammeter (141); and a voltmeter (142). A short-circuiting switch (120) is provided in parallel with the DC power supply (110) and can switch between a low resistance characteristic and a high resistance characteristic in an alternating manner by switching operation. A noise reduction resistor (130) is provided in series with the DC power supply (110) and the short-circuiting switch (120).

No. of Pages : 35 No. of Claims : 3
The present invention provides a process for producing liquid hydrocarbon products from a solid biomass feedstock said process comprising the steps of: a) providing in a first hydropyrolysis reactor vessel a first hydropyrolysis catalyst composition said composition comprising one or more active metals selected from cobalt molybdenum nickel tungsten ruthenium platinum palladium iridium and iron on an oxide support wherein the active metals are present in a partially sulfided form to the extent that the first hydropyrolysis catalyst composition contains sulfur in an amount of from 10 to 90% of a full stoichiometric amount; b) contacting the solid biomass feedstock with said first hydropyrolysis catalyst composition and molecular hydrogen in said first hydropyrolysis reactor vessel at a temperature in the range of from 350 to 600°C and a pressure in the range of from 0.50 to 7.50MPa to produce a product stream comprising partially deoxygenated hydropyrolysis product HO H CO CO H CO C C gases char and catalyst fines; c) removing said char and catalyst fines from said product stream; d) hydroconverting said partially deoxygenated hydropyrolysis product in a hydroconversion reactor 25 vessel in the presence of one or more hydroconversion catalyst and of the HO CO CO H and C C gas generated in step a) to produce a vapour phase product comprising substantially fully deoxygenated hydrocarbon product HO CO CO and C C gases.
Title of the invention: METHOD FOR EVALUATING STATE OF DIFFERENTIATION OF CELLS

Abstract:
In the present invention stem cells in an unknown state of differentiation or cells that have been induced to differentiate from stem cells serve as test cells; culture supernatant is recovered from a culture plate of these test cells and a culture plate of control cells in a known state of differentiation; the culture supernatant being subjected to analysis by LC MS or GC MS; and the state of differentiation of the test cells is evaluated on the basis of the amounts of at least one compound selected from the group consisting of putrescine, kynurenine, cystathionine, ascorbic acid, riboflavin, pyruvic acid, serine, cysteine, threonic acid, citric acid, and orotic acid present in the culture supernatant of the test cells and the culture supernatant of the control cells; the amounts being determined as a result of the analysis.
A computing device may include a sensor controller configured to control operations of a human touch capacitive sensor module a near field communication (NFC) controller configured to control operations of an NFC module and/or a plurality of communication lines including a first communication line and a second communication line. Each of the first and second communication lines may be connected to the sensor controller and the NFC controller such that control signals are transferred between the sensor controller and the NFC controller to synchronize the operations of the human touch capacitive sensor module and the operations of the NFC module.
Title of the invention: FLUID ACTUATED OVER-CENTER CLUTCH FOR A PTO

A hollow double acting cylinder assembly may be mounted over a shaft and to a housing. A moveable piston of the cylinder assembly connects to a sliding sleeve of an over center mechanism and the sliding sleeve with a thrust bearing allowing it to push and pull the sleeve mechanism with cylinder action. A toggle action of the over center mechanism locks clutch without the need to sustain pressure on the cylinder after engagement/disengagement motion. As the clutch is typically engaged for sustained periods of time this prevents constant hydraulic pressure applied to the over center mechanism and significantly reduces wear. Hydraulic/pneumatic hoses may pass through the housing and connect to engage and disengage bores of the cylinder via remotely actuated control valve(s).
(54) Title of the invention : AN IMPROVED LAP FORMING METHOD IN TEXTILE MACHINE

(51) International classification : D01H 5/00
(31) Priority Document No : NA
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(33) Name of priority country : NA
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(57) Abstract :
ABSTRACT AN IMPROVED LAP FORMING MACHINE AND METHOD
The present invention relates to a lap forming machine comprising a plurality of lap winding rollers (2); a first set of drafting rollers (4,5) and a second set of drafting rollers (6,7) having front drafting rollers (5,7) and middle and back drafting rollers (4,6); and at least two drive elements (M1,M2) for driving separately at least the front drafting rollers (5,7) and middle and back drafting rollers (4,6). The said lap forming machine is provided with an improved method for lap forming. Fig. 4

No. of Pages : 12 No. of Claims : 10
A new alloyed metal with malleability, ductile and tensile qualities, coupled with the softness of gold for achieving high quality finishes for usage in jewellery and ornamentation comprising of Copper (Cu), Gold (An), Nickel (Ni), Silver (Ag), Cobolt (Co), Zinc (Zn), White lead (Pb), Bismuth (Bi) and Antimony (Sb).
Title of the invention: METHOD OF TREATING RESISTANT NON-HODGKIN LYMPHOMA, MEDULLOBLASTOMA, AND/OR ALK+ NONSMALL CELL LUNG CANCER USING THIENOTRIAZOLODIAZEPINE COMPOUNDS

| (51) International classification | A61K31/5517 | (71) Name of Applicant: |
| (31) Priority Document No | 61/987813 | 1) ONCOETHIX GMBH |
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| (33) Name of priority country | U.S.A. | (72) Name of Inventor: |
| (86) International Application No | PCT/US2015/028798 | 1) NOEL, Kay |
| (87) International Publication No | WO 2015/168555 | |
| (61) Patent of Addition to Application Number | NA | |
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| (62) Divisional to Application Number | NA | |
| Filing Date | NA | |

Abstract: A method of treating resistant non-Hodgkin lymphoma medulloblastoma and/or ALK+ non small cell lung cancer in a mammal by administering a solid dispersion comprising an amorphous thienotriazolodiazepine compound of the Formula (1) wherein R is alkyl having a carbon number of 1-4, R2 is a hydrogen atom; a halogen atom; or alkyl having a carbon number of 1-4 optionally substituted by a halogen atom or a hydroxyl group; R3 is a halogen atom; phenyl optionally substituted by a halogen atom; R4 having a carbon number of 1-4; alkoxy having a carbon number of 1-4 or cyano; N5R5(CH2)mR6 wherein R5 is a hydrogen atom or alkyl having a carbon number of 1-4; m is an integer of 0-4; and R6 is phenyl or pyridyl optionally substituted by a halogen atom.

No. of Pages: 72  No. of Claims: 29
Bifurcated authentication token techniques are described in which sign on credentials are separated from corresponding privilege data for resources. During client authentication a determination is made regarding whether a service provider is configured to support bifurcated authentication token techniques. If the techniques are supported a lightweight token is issued to the client and corresponding privilege data is stored separately from the token in a centralized authentication database. If a service provider does not support bifurcated authentication token techniques a traditional combined authentication token that includes privilege data is issued to the client. The lightweight token contains identity information and a reference to the privilege data but does not contain the actual privilege data. Therefore the lightweight cookie token alone is not sufficient to gain access to corresponding resources. Moreover privileges associated with a lightweight token may be revoked or altered without having to change or invalidate the lightweight token itself.

No. of Pages : 20 No. of Claims : 15
Disclosed herein is a system and method for identifying potential sources of malicious activity as well as identifying potentially malicious files that originated from suspected malicious sources. Using an anchor event and telemetry data from devices known to have been infected by malicious activity similar events in the telemetry data between two devices can be identified. These satellite events are then used to identify other files that may have been deposited by the satellite event such that those files can be highlighted to a malware researcher. Additionally the malware protection may be updated based on this analysis to label an associated site with the satellite event as a malicious site such that the site may be blocked or quarantined.
A continuously variable transmission system for a two wheeled vehicle with a drive shaft (25) capable of rotating about an axis (X-X™), a drive pulley system (41) comprising of a movable sheave (28) capable of rotating about an axis (X-X™) and translating in said axial direction (X-X™). A fixed sheave (30) comprising of a ring gear (51), a sheave fixed drive (52) having an annular shape with an inner profile (48) and an outer profile (49), a fan fixed drive (53) consisting of plurality of profile made to drag and divert atmospheric air and joined together by at least one of the methods amongst welding and casting on said sheave fixed drive (52) wherein said fixed sheave of drive pulley (30) is capable to rotate about the axis X-X™ and producing movement with respect to said drive shaft (25) is inhibited. A CVT belt (31) is present which is capable of sliding and moving between said movable sheave (28) of drive pulley (41) and said fixed sheave (30) of drive pulley (41). A ratchet (56) and spacer (54) are integrally formed and the integral piece is as cast joined to inner profile (48) of said sheave fixed drive (52) and said outer profile (49) of said sheave fixed drive (52) is as cast joined to ring gear (51) to form an integrated sheave structure (30).
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(54) Title of the invention: LEVOTHYROXINE COMPOSITIONS AND PROCESSES THEREOF

| (51) International classification | : A61K 9/00 |
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| (32) Priority Date | : NA |
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(57) Abstract:
ABSTRACT LEVOTHYROXINE COMPOSITIONS AND PROCESSES THEREOF The present invention relates to a lyophilized composition comprising levothyroxine or a salt thereof and the process for preparation thereof. The present invention also relates to lyophilized compositions of levothyroxine that are useful when thyroid replacement is needed on an urgent basis, for short term thyroid replacement, and/or when oral administration is not possible, such as for a patient in a state of myxedema coma.

No. of Pages: 15 No. of Claims: 10
A SADDLE-TYPE MOTORCYCLE
The present subject matter relates to a saddle-type motorcycle (100). A fuel tank assembly (102) including a fuel tank main body (204), a fuel tank cap assembly (206) and a cover fuel tank sub-assembly (202). The fuel tank cap assembly (206) is offset to a longitudinal axis of the motorcycle (100) and disposed on a top portion of the fuel tank main body (204). The cover fuel tank sub-assembly (202) is disposed above the fuel tank main body (204) extending longitudinally from a first end (260) to a second end (262) and includes a first side cover part (306, 310), a second side cover part (302, 308), and a central cover part (304). At least one of the first side cover part (306, 310) and the second cover part (302, 308) includes a fuel filler opening (312) capable of receiving said fuel tank cap assembly (206). <To be published with Fig. 3 (c)>
Title of the invention: REDUCTION OF CO2, HC, CO POLLUTIONS FROM EXHAUST GAS

Abstract:
The harmful exhaust gases from automobiles are reduced /controlled using adsorbent chemicals at different concentrations and get successed. We designed a kit and it was attached with the silencer tail pipe and checked using multi gas analyser the harmful gases gets reduced and O2 is released, the result reviled that CO was reduced upto 90% and HC has been reduced upto 65.89% similarly CO2 were reduced to 50%. O2has increased to 72.36%.

No. of Pages: 9 No. of Claims: 1
According to an example, a first radio of an access point is operated on a first frequency band and a second radio of an access point is operated on a second frequency band. The second radio is switched from the first frequency band to the second frequency band. [Fig. 1]
An example method is provided to maintain state information of a virtual machine in a virtualized computing environment through a self-triggered approach. The method may comprise detecting, by a first host from a cluster in the virtualized computing environment, that the first host is disconnected from a network connecting the first host to a distributed storage system accessible by the cluster. The method may also comprise suspending, by the first host, a virtual machine supported by the first host and storing state information associated with the virtual machine. The method may further comprise selecting a second host from the cluster and migrating the suspended virtual machine to the second host such that the suspended virtual machine is able to resume from suspension on the second host based on the stored state information. [Fig. 2]
The present invention comprises an outer sleeve (115) which carries plurality of coils, wherein each coil carries a plunger in axial direction. A common core plate (106) is placed in between two electromagnetic coils (113 and 114) and a spindle (110) carrying two moving contact assembly is integrated into the second plunger (107). The second core plate is fixed at the rear end and a terminal base (109) which carries fixed contact with it, is placed at the end of the outer sleeve. The present invention uses an inrush current reduction technique, wherein the high resistance is added during cranking and after a predefined time the high resistance is removed. Hence, the high resistance material reduces inrush current during the cranking process and the life of the starter motor is increased.

(FIGURE 1)
**Title of the invention:** NOVEL PROCESS/PRODUCT FOR ENHANCING BACCOSIDES

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<th>(71) Name of Applicant: PLANT LIPIDS PRIVATE LIMITED</th>
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No. of Pages: 6
No. of Claims: 5

*Abstract:*

Our brain is regarded as the most important part of the human nervous system. There are many disorders which can happen to the brain which include neuro degenerative disorders. Many herbs are used for the treatment of neuro degenerative disorders. One such herb of importance is Bacopa Monnieri. Our present invention relates developing a herbal extract of Bacopa Monnieri with enriched Bacosides content and without bitter taste. The herbal extract can be used for the overall well being of brain health.
A two piece bogie suspension system comprising a pair bogie cross member cum bracket with a spigot arrangement attempts in solving the transfer of bending loads, torsional loads, longitudinal braking loads and lateral cornering loads. The Unique spigot arrangement helped in the conversion of single piece bogie suspension system to two-piece bogie suspension system. The innovative two piece bogie cross member design has a very unique construction to enable the interchangeability between left hand and right hand side brackets. Fig. 2

No. of Pages : 29 No. of Claims : 10
Title of the invention: PROCESS FOR MULTILAYER THERMAL BARRIER COATING FOR PROTECTION OF METALLIC SUBSTRATES FROM EXTREME TEMPERATURE CONDITIONS

Abstract:
Disclosed herein is a novel multilayer thermal barrier coating for the protection of metallic substrates from extreme temperature conditions and a method for making the same and the method comprises of preparation of preceramic slurry using a mixture of ceramic additives with an organic binder, coating substrates with the said slurry and again coating with thermo insulative zirconia coating. The invention is very much useful in space applications in the form of TBC over steel, inconel, 15CDV6 and titanium alloys. It is also useful in industrial applications including aircraft engine parts, combustion chambers and high thrust nozzles. [Figure 2]
(54) Title of the invention : A PROCESS FOR THE PREPARATION OF AMORPHOUS IBRUTINIB

(51) International classification : B01D
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No : NA
   Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
   Filing Date : NA
(62) Divisional to Application Number : NA
   Filing Date : NA

(57) Abstract :
ABSTRACT A process for the preparation of amorphous ibrutinib. A premix of amorphous ibrutinib with pharmaceutically acceptable excipients and process for the preparation thereof are also disclosed. An anisole solvate, an isopropyl acetate solvate, a xylene solvate, and a tert-butyl acetate solvate of ibrutinib are also disclosed. The present disclosure also encompasses processes for the preparation of those solvates.

No. of Pages : 61 No. of Claims : 20
The present invention relates to a catalyst composition for purifying exhaust gas and an exhaust gas purifying catalyst that include a manganese containing complex oxide and the purpose of the present invention is to provide a novel catalyst composition that can sufficiently function as a catalyst for purifying exhaust gas without carrying precious metal as a catalytically active component. To achieve the aforementioned purpose the proposed catalyst composition for purifying exhaust gas includes in a mixed state: particles including a manganese containing complex oxide; and particles including a Group 5 to Group 11 metal (except for Mn Pt Rh and Pd) which includes electrons in the d orbital(s) or an oxide thereof.
Various embodiments relate to an air intake duct. The duct includes louvers forming an air inlet to a housing. Each louver includes an inlet section and an angled section the angled section inclined with respect to the inlet section. The duct includes the housing positioned downstream of the louvers in an air flow direction. The housing includes a drain configured to permit separated water from an intake air passing through the louvers and into the housing to be drained from the housing. The duct includes an inner inlet duct that provides the intake air to a component. The inner inlet duct extends into the housing and positioned downstream of the louvers in the air flow direction. The inlet duct extends above the drain by a distance thereby forming a well in the housing between a top of the inner inlet duct and the drain.
An electric motor is equipped with: a cylindrical stator having a stator iron core and a stator winding wound around the stator iron core; and a rotor provided inside the stator so as to be freely rotatable. In the electric motor the stator winding is formed by connecting a plurality of windings in series on a per phase basis. The windings for each phase consist of both a copper wire and an aluminum wire and the ratios between the aluminum wire winding and the copper wire winding for the respective phases are made equal to each other.

No. of Pages : 23 No. of Claims : 5
Techniques are described for wireless communication. A first method includes measuring by a first device a condition of a wireless channel; and generating at least one channel side information feedback message based on the measured condition of the wireless channel. The at least one channel side information feedback message provides information on a relationship of a set of parameters including a data rate parameter an error probability parameter and at least one of a deadline parameter or a transmission link parameter. A second method includes measuring by a first device interference on a wireless channel; identifying an interfering device for the wireless channel based on the measurement; and generating a channel side information feedback message based on the measured interference on the wireless channel. The channel side information feedback message indicates the interfering device for the wireless channel and a correlation of interference from the interfering device with time or frequency.
The present invention provides a heat dissipation apparatus for an optical module. The heat dissipation apparatus for an optical module comprises a guide rail (22). The guide rail (22) is disposed on a circuit board (21) and used for accommodating an optical module (14). The guide rail (22) is covered with a heat conduction block (23). Heat dissipation teeth (24) are formed in some regions on the heat conduction block (23). The heat dissipation teeth (24) are located on the tail of the guide rail (22) so that the heat dissipation teeth (24) and the guide rail (22) are located on the same side of the heat conduction block (23). Compared with the structure in the existing technology in which heat dissipation teeth and a guide rail are located on two sides of a heat conduction block the present invention can be used to reduce the height of an optical module assembly effectively solve the problem that parts of the optical module assembly are limited in height and thus facilitate system miniaturization; further the heat dissipation efficiency of the heat dissipation apparatus is ensured by means of heat conduction of the heat conduction block (23) and heat dissipation of the heat dissipation teeth (24).
ABSTRACT OF THE DISCLOSURE Disclosed are various examples for specifying portions of content files that can be stored on a client device. A content file stored in a remote storage area can be segmented into content fragments. A manifest file that specifies which portions of the content file correspond to content fragments can also be generated. The manifest file and content fragments can be packaged into a content package file that is stored on a client device and interpreted by a content proxy server. [FIG. 2]
Title of the invention: EXTERNALLY TRIGGERED MAINTENANCE OF STATE INFORMATION OF VIRTUAL MACHINES FOR HIGH AVAILABILITY OPERATIONS

(51) International classification : G06F9/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(36) International Application No : NA
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(37) International Publication No : NA
(81) Patent of Addition to Application Number : NA
(Filing Date : NA)
(82) Divisional to Application Number : NA
(Filing Date : NA)

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4) MUTHUKUMAR MURUGAN

(57) Abstract:
An example method is provided to maintain state information of a virtual machine in a virtualized computing environment through an externally-triggered approach. The method may comprise detecting, by an external entity, that a first host in a cluster is disconnected from a first network connecting the first host to a distributed storage system accessible by the cluster. The method may also comprise instructing the first host to suspend a virtual machine supported by the first host and to store state information associated with the virtual machine. The method may further comprise selecting a second host from the cluster and instructing the first host to migrate the suspended virtual machine to the second host such that the suspended virtual machine is able to resume from suspension on the second host based on the stored state information. [Fig. 2]
In one embodiment, a method for enabling communication between two network fiber channel (FC) switches, includes: receiving at least one protocol frame at a first network FC switch, the at least one protocol frame being received from a second network FC switch connected to the first network FC switch and comprising information related to a manufacturer of the second network FC switch; retrieving a first identifier of the second network FC switch from the at least one protocol frame, the first identifier comprising primary manufacturer information identifying a manufacturer of the second network FC switch; determining that the retrieved first identifier does not match one of a plurality of peer switch manufacturer identifiers stored in a memory of the first network FC switch, each of the plurality of peer switch manufacturer identifiers identifying peer switches for which one or more features may be enabled for communicating with the first network FC switch; retrieving a second identifier of the second network FC switch from the at least one protocol frame when the retrieved first identifier does not match one of the plurality of peer switch manufacturer identifiers, the second identifier comprising secondary manufacturer information identifying the manufacturer of the second network FC switch; and upon determining that the retrieved second identifier matches one of the plurality of peer switch manufacturer identifiers, updating the plurality of peer switch manufacturer identifiers stored in memory of the first network FC switch to include the retrieved first identifier; and enabling at least one of the one or more features for the first network FC switch to communicate with the second network FC switch.
A method for controlling a washing machine includes operating the washing machine at a first operating speed and a second operating speed higher than the first operating speed by a predefined value. The method further includes receiving a first vibration signal value corresponding to the first operating speed and a second vibration signal value corresponding to the second operating speed and determining a model parameter based on the first vibration signal value, the second vibration signal value, the first operating speed, and the second operating speed. The method also includes obtaining a target operating speed for operating the washing machine, based on the model parameter, wherein the target operating speed is higher than the second operating speed and less than or equal to a predefined speed limit of the washing machine.
Title of the invention: AN IMPROVED PROCESS FOR THE PREPARATION OF CRystallINE FORMS OF RIFAXIMIN

Abstract:
The present invention relates to an improved process for the preparation of crystalline polymorphs of Rifaximin compound represented by the following structural formula-1.

No. of Pages: 26  No. of Claims: 10
This inventive subject matter relates to novel nano silver formulation effective against Nematode infection (filariasis) in human. A process for producing a nanofood formulation with functionalized to silver nanoparticles. The formulation is given as oral dose and one more dose is advisable only with the intensity of the infection. A topical application with the same or modified nanoformulations is applied to reduce the swelling and infection. Field trials have proven the efficacy of the Nanoformulation.
**Abstract:**

ABSTRACT OF THE DISCLOSURE Disclosed are various examples for differential staging of devices in bulk enrollment. In one example, a computing environment can detect a network connection event where a client device establishes a connection with a network device that is communicatively coupled to the computing environment. A configuration file can be copied from a data store of the at least one computing device to local memory of the client device. The configuration file can comprise one or more predefined configuration settings. A configuration of the at least one client device can be caused using the configuration file. The configuration can include automating user interface events on the client device to cause a setting of the client device to conform to the predefined configuration settings. [FIG. 6]
The invention relates to a valve operating mechanism for varying the length of a valve stem of the valve. The mechanism comprises a valve, a telescopically extendable valve stem, a cam, a camshaft for rotating the cam about an axis, a centrifugal governor fitted over the camshaft and actuated by angular velocity of the camshaft. It also includes a lever means actuated by the said centrifugal governor and a link means associated operably with the lever means to correspondingly actuate the telescopically extendable valve stem. The mechanism characterized in the arrangement that the extension length of valve stem is a function of cam shaft speed and the lever means is connected to the valve stem with a pin, which pin is mounted on a rotatable collar, thereby allowing relative rotation between the two telescoping parts of the valve.
Title of the invention: MATRIX BASED POSITION SENSITIVE KEY VERIFICATION, AUTHENTICATION AND AUTHORIZATION SECURITY LOCK

Abstract:
1. A secured authentication device and method comprising of a. A chip capable of generating random numbers which can be interfaced to any display, input devices and to any other devices/circuits/locking mechanisms a. Display which can show generated random numbers a. An input device

No. of Pages: 7 No. of Claims: 6
The present invention relates to liquid formulations of Fosaprepitant intended for parenteral administration. Further this invention also describes process for preparing such formulations.
**Title of the Invention:** GREEN SYNTHESIS OF HIGHLY POROUS CARBON NANOSPHERES FROM ARECANUT

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2) Prof. Martin Jebaraj
3) Prof. K. Mallikharjuna Babu

**Abstract:**
The present invention provides a method for synthesizing of carbon nanospheres, wherein the method comprising the step of utilizing arecanut as a precursor and template, preparing arecanut in powder form of size 60-70 micrometer using sieving method, utilizing pyrolysis process for a thermochemical decomposition of arecanut powder, carbonizing the arecanut in a tube furnace in nitrogen atmosphere, controlling the temperature and pressure of the tube furnace at predetermined level to effectively remove ash formation during the pyrolysis process, cooling the pyrolyzed arecanut powder at a rate between 1 and 10°C/min, and obtaining carbon nanospheres with small particles sizes in the range of 30nm to 90 nm.

No. of Pages : 17 No. of Claims : 7
Title of the invention: AN IMPROVED METHOD OF MANUFACTURING AND INTEGRATING PRECIOUS OR SEMI-PRECIOUS OR ASSORTED STONE DIALS IN TIME DISPLAY DEVICES

Abstract:
The various embodiments of the present invention provide an improved re-engineered method of manufacturing and integrating precious or semi-precious or assorted stone dials and stone components into and over various locations on the time display devices. The re-engineered method comprises steps of blank development, finishing performed by special purpose machine and an assembly with primary dial or related components of the time display device. During the blank development phase certain preliminary operations such as cutting, drilling, shaping the stones etc. is performed and by using a special fixtures and skilled persons. In the second phase, using special purpose machines and tooling, fixtures, final stone profile and chamfers cutting to the required shape etc. are performed. In the third or the final phase, component assembly (stone dial and primary dial) or integration operation performed using special fixtures joining media etc. The present invention also discloses a unique construction mechanism of the time display device wherein the unique construction mechanism ensures the delicate stone based dials are securely accommodated into a stone holder and the stone holder ensures that any pressure or shock applied over time display device is not felt over the delicate stone dials.
(51) International classification : H03M1/00
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(36) International Application No : NA
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
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(62) Divisional to Application Number : NA
Filing Date : NA

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2) Amrith Sukumaran

(57) Abstract :
ABSTRACT Embodiments herein provide a continuous-time delta sigma modulator (CTDSM) with dual switched capacitor return-to-zero digital to analog converter (SCRZ DAC). The proposed CTDSM with dual SCRZ DAC combines low jitter sensitivity of SCRZ with low peak-to-average ratio of a non return-to-zero DAC pulse to provide infinite alias rejection. Voltage of a virtual ground is sampled at two instances per cycle through the dual SCRZ DAC while consuming lower power. FIG. 2

No. of Pages : 27 No. of Claims : 10
Title of the invention: ENERGY-HARVESTING ELECTRONIC SWITCH

Abstract:
ABSTRACT ENERGY-HARVESTING ELECTRONIC SWITCH The invention provides an energy harvesting electronic switch circuit. The energy harvesting electronic switch circuit includes a non-neutral power supply. An AC switch arrangement is connected across the non-neutral power supply. A boost converter is coupled to the AC switch arrangement. A control unit is connected across the boost converter. An auxiliary power source is connected across the AC switch arrangement and coupled to the boost converter. The energy-harvesting electronic switch is capable of full angle conduction to yield DC power.

No. of Pages: 31 No. of Claims: 14
A supply voltage monitoring device for monitoring overvoltage conditions of AC power supply providing AC supply voltage comprises an input connectable to the AC power supply, an output connectable or connected to the load, a controllable switch configured to electrically connect the input to the output when closed and to electrically disconnect the output from the input when open, and a monitoring and evaluating device. The monitoring and evaluating device is configured to control the controllable switch, monitor the AC supply voltage and open the closed controllable switch time delayed with a time delay after inception of an overvoltage condition. The time delay depends on the level of the overvoltage condition of the AC supply voltage or time delay depends on the difference between the voltage level of the overvoltage condition and the maximum tolerable voltage level corresponding to a normal voltage condition of the AC supply voltage. FIG. 2
According to present embodiments or aspects thereof a composite booster spool (31) with separable composite blades (50) is provided. The blades (50) are inserted radially from within the inner circumference of the spool (31) and extend outwardly through the spool. The system provides a reduced weight assembly as compared to prior art metallic or composite/metallic combination systems. Additionally the blades are separable which results in a more field serviceable assembly over a fully integral system wherein the blades and spool are integrally formed from composites or combination of metal and composites.

No. of Pages : 15
No. of Claims : 20
Title of the invention : SYSTEM AND METHOD FOR DRAINING A WET-GAS COMPRESSOR

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Abstract:
A wet gas compressor (10) is described comprising a compressor casing (1) and a rotor (31 33 35) arranged for rotation in the compressor casing and comprised of at least one impeller (31 33). In the compressor casing at least one cavity (3; 3.1 3.6) is provided where liquid (L) contained in a wet gas processed by the compressor (10) can collect during operation of the compressor. A drain port (5) is provided at the bottom of the cavity and a vent port (13) is provided in a position above the drain port of the cavity. The drain port (5) and vent port (13) are in fluid communication with a liquid level measuring chamber (9). A level gauge (15) is provided at the liquid level measuring chamber (9) and a drainage valve (21) is arranged for discharging liquid from the cavity (3; 3.1 3.6) towards a liquid discharge line fluidly connected to the drain port (5) through the drainage valve (21). A control arrangement (17) is configured for receiving a signal from the level gauge (15) and for controlling the drainage valve (21) such that the drainage valve is opened when liquid in the liquid measuring chamber (9) reaches a threshold level (TH).
Title of the invention: METHOD FOR PRODUCING CHEMICAL SUBSTANCE BY CONTINUOUS FERMENTATION

Abstract:
A method for producing a chemical substance by carrying out continuous fermentation under the condition of pH 3.5 or lower using a separation membrane. In the method an yeast strain having vanillin resistance is used whereby it becomes possible to produce the chemical substance with high efficiency without leaving a large amount of a fermentation raw material unused.

No. of Pages: 64 No. of Claims: 5
A temperature identification system may include temperature sensing circuitry and a temperature measurement module. The temperature sensing circuitry may include a ring oscillator that generates a ring oscillator output signal having a frequency that varies depending on an operating temperature on the ring oscillator. A frequency divider circuit may divide the frequency of the ring oscillator output signal such that two or more cycles of a noise component of supply voltage are averaged, which may reduce the impact that the noise has on the frequency of the ring oscillator output signal. In some embodiments, a regulator may supply a regulated voltage to the ring oscillator. The regulator may reduce the impact of the noise for low frequency components of the noise, while the frequency divider may reduce the impact for high frequency of the noise.
**Title of the invention:** A METHOD AND SYSTEM FOR AUTOMATED SCREENING OF CERVICAL CANCER

**Abstract:**
A METHOD AND SYSTEM FOR AUTOMATED SCREENING OF CERVICAL CANCER ABSTRACT Embodiments of present disclosure relates to method and screening unit for screening cervical cancer. The method includes receiving a specimen from pap smear preparation, obtaining plurality of Field Of Views (FOVs) of specimen and extracting cells of interest by segmenting the plurality of FOVs. Further, the method includes rejecting artifacts based on the cells of interest based on one or more cell parameters and determining malignancy score from the cells of interest by performing at least one of koilocyte detection, clusters detection of cell nuclei, determination of distribution characteristics, determination of FOV adequacy, detection of malignancy associated changes, inflammation detection and cell classification. Further, a predefined analysis requirement is determined based on the malignancy score which includes need of one of additional analysis of the plurality of FOVs by cytologist, evaluating more of plurality of FOVs of specimen and specimen to be normal. Figure 4

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No. of Pages: 40
No. of Claims: 14
Solar panels row cleaning system that can dock and lock itself at a docking extension attached to the solar row. The self-docking and self-locking is optimally used when the cleaning system is not working. Movement of a cleaning apparatus of the cleaning system is controlled to cause an anchoring element on cleaning apparatus to engage with an anchoring element on the docking extension when in the docking position and thereby lock the cleaning apparatus preventing its movement in horizontal and downward directions. This is particularly useful when strong wind gusts are present.

No. of Pages : 42 No. of Claims : 12
No. of Pages : 6 No. of Claims : 6

Natural products with claimed health benefits are gaining much importance nowadays because of their less toxic effects and high biological efficacy. Red blood cell is an important constituent for the normal well being of a human. Erythropoietin (EPO) and nitric oxide are two important factors that determine the production of red blood cells in the human body. The present invention relates the use of a natural extract from the dried leaves of Moringa Oleifera for increasing the EPO and nitric oxide levels of the human body.
**Title of the invention:** NOVEL FORMULATION AS A BRAIN TONIC

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**Abstract:**

Human brain is regarded as the vital part of the human body. It is the important part of the human nervous system. There are many neuro degenerative disorders happening to the human body. Many synthetic drugs are available for treating brain disorders. But most of the synthetic drugs have adverse side effects. Our present invention relates the development of a brain tonic which is composed of highly efficient natural extracts. The formulation involves withania somnifera, Bacopa Monnieri and Clitoria Ternatea.

No. of Pages: 6 No. of Claims: 4
There are different possible methods available for the extraction of essential oils from natural products. Most commonly steam distillation and super critical fluid extraction is employed. But most of these processes have practical difficulties. Enzymes play an important role in extraction of many of the natural products. The trend of using enzyme mediated extraction is increasing nowadays. The present invention relates the use of cellulase enzyme for the extraction of cinnamon oil.
The P  atent Office Journal 10/02/2017

(12) PATENT APPLICATION PUBLICATION
(21) Application No.4042/CHE/2015 A
(19) INDIA
(22) Date of filing of Application :04/08/2015
(43) Publication Date : 10/02/2017

(54) Title of the invention : A CUSTOMIZED ELECTRONIC OR DIGITAL STYLUS

(51) International classification : G06F
(31) Priority Document No : NA
(32) Priority Date : NA
(33) Name of priority country : NA
(86) International Application No
Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number
Filing Date : NA
(62) Divisional to Application Number
Filing Date : NA

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(57) Abstract :
A customizable electronic or digital stylus comprising of a font styling module, a paragraph styling module and an interface screen. The font styling module accepts a plurality of font changing command from the stylus. The paragraph styling module accepts a plurality of paragraph styling command from the stylus. The interface screen displays the plurality of commands received as the input data to the stylus. The font styling module comprises of a font color changing module, a font style changing module, a font size changing module and a font face changing module. The paragraph styling module comprises of an indentation and space changing module and a line and page break managing module.

No. of Pages : 20 No. of Claims : 13
Disclosed herein is a fuel injection pump 200 for a common rail fuel injection system, comprising at least a housing 202 having at least one bore, a first bore 204 for accommodating a plunger 206 and a delivery valve 208 and a second bore 210 defining an inlet. An outer diameter of the plunger 206 conforms to diameter of first bore 204 is provided in the housing 202. The delivery valve 208 is located at one end of the first bore 204, the first bore 204 defines a fuel gallery between the plunger 206 and the delivery valve 208. Reference Figure: Fig. 2

No. of Pages: 9  No. of Claims: 4
(54) Title of the invention: A CONCEPT FOR IGBT POWER CONVERTER

(51) International classification: H02M

(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
(81) International Application No: NA
(80) International Publication No: NA
(61) Patent of Addition to Application Number: NA
(62) Divisional to Application Number: NA

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(57) Abstract:
A concept for power electronics converter with current ratings from 100A to 750A and used in low voltage ac power line applications up to 690V is provided in this invention. Power electronics converters comprises of IGBT modules, heat sink, blower, DC capacitors, DC bus plate, snubber capacitors, IGBT gate driver, dc voltage sensor, current sensor, temperature sensor and miscellaneous components. An optimized design approach is required to realize a high power converter, which is compact, reliable and economical. Optimal performance and life time of converter depends on cooling effectiveness, ripple current capacity & life time of DC capacitor, minimizing the DC bus stray inductance. Reliability depends on optimal placement of gate driver with respect to IGBT. The concept addresses optimized design of high power converter from different aspects.

No. of Pages: 9 No. of Claims: 6
Disclosed are various examples for multi-party authentication and authentication. In one example, a user who forgets a password can gain access to secured data stored by a managed device by way of an authorization by one or more other users. This access can be granted even if the managed device is in an off-line mode or if a management server cannot be reached. In another example, access to secured data can depend upon authorization by a minimum quantity of other users. The authorization can involve an explicit approval or disapproval. Alternatively, the authorization can correspond to the presence of the minimum quantity of other users within a threshold proximity of the user who desires access. [FIG. 1]
Methods and systems are provided for displaying a 3D ultrasound image volume in a desired view orientation. A 3D ultrasound image can be acquired of an anatomical feature in a patient. The actual orientation of the anatomical feature can be determined in space. The 3D ultrasound image including the anatomical feature can be displayed such that the anatomical feature is positioned in a selected orientation that is different than the actual orientation and in relation to a lighting model for generating lighting and shadowing on the anatomical feature.

No. of Pages : 12 No. of Claims : 17
Title of the invention: METHOD AND SYSTEM FOR COMPUTER-AIDED PATIENT STRATIFICATION BASED ON CASE DIFFICULTY

Abstract:
When evaluating patient cases to determine complexity thereof a computer aided stratification technique is applied to analyze historical patient case diagnoses and correctness thereof in order to calculate a stratification score (20) for each of a plurality of abnormality types and/or anatomical locations. When a new patient case is received the computer aided stratification technique is applied to evaluate the patient case in view of historical data and assign a stratification score thereto. A ranked list (21) of current patient cases can be generated according to stratification scores and physician workload can be adjusted as a function thereof so that workload is balanced across physicians and/or according to physician experience level.
The present invention relates to daclatasvir free base, processes for its preparation, a process for its conversion into pharmaceutically acceptable salts of daclatasvir. The present invention also relates to a process for the preparation and purification of daclatasvir dihydrochloride.

No. of Pages: 24 No. of Claims: 10
Title of the invention: DEVELOPMENT OF ECO - FRIENDLY WOUND HEALING BANDAGE FROM PALMYRA PALM LEAF SECRETIONS

Abstract:
The external anatomy of monocot plant palmyra palm (Borassus jlabellifer) tree leaves is different from other plants. These plants leaf have scaly secretions on their surfaces. Such secretions are used by traditional Palmyra climbers at the time of any cut or wound caused by their instruments when they are trapping palm juice. So a study was made to scientifically validate this traditional knowledge and to find out the pharmacological importance. The crude extract was analyzed using UV visible spectroscopy, Infra-red spectroscopy, NMR spectroscopy, Mass Spectroscopy, and Scanning Electron Microscopy to elucidate the compound nature. The antimicrobial effect of the prepared extract was evaluated against the many microorganisms and the results were quite interesting. The zone of inhibition was above 15mm for all the pathogens tested and in vitro wound healing studies on the extract of scaly Palmyra leaf secretions. The wound healing activity of the palmyra palm leaf secretions in rabbit leads to designing of eco - friendly wound healing bandages which heal wounds.
The present invention relates to improvements in mechanical rotary transmission devices for transmitting power from one rotating shaft to another shaft. The present invention mainly relates to a bait bearing arrangement that can be utilized for the transmission of rotary motion from one driver shaft to several driven shafts. The present invention further provides a transmission with less friction. The present invention in which the rolling movement of the plurality of bearing balls in between the inner race and the outer race is utilized for the transmission of angular motion to another shaft through the hoses.

No. of Pages : 20 No. of Claims : 10
This idea is focused to the broad mass market in the medical health care domains and consumer durables sector. This is a unique, one of its kind and affordable solution to the medical health care domains and consumer durables sector. This is a durable product. These technologies such as Intelligent (Smart) IV stands, intelligent (Smart) Oxygen stands provides doctors, nurses and patients relatives its web access to monitor the Intravenous bags, Oxygen cylinders at the hospital or home or from anywhere in the world by using computers or cell phone applications. Software application provides virtual screen of real time status of the IV fluids and Oxygen administrated to the patients and provides the real time varying levels of the IV fluids in the IV bags and also Oxygen cylinder on the stand. Also this software provides various historical reports, trend reports on the IV and Oxygen administrated to the patients which will result in accurate inventory management. Intelligent (Smart) patients cot will provide doctors, nurses and patients relatives its web access to the cot to track patients movement, restlessness, availability and non availability from anywhere in the world by using computers or cell phone applications. Software application provides virtual screen of real time status of the movement patterns, restlessness of the patients. Also this software provides various historical reports, trend reports on the patient movement, restlessness, availability and non availability in their beds. Intelligent (Smart) cooking gas stands at home, star hotels of different ranking, home Kitchens, fast food retailers, centralized kitchens , Kitchens of catering service providers , canteens of institutions etc.. provides web access to the users to track and monitor the usage, quantity of the daily consumption and also the quantity remaining in the cylinders. Also this web application / software provides various historical reports, trend reports on the cooking gas used and the trend patterns which will result in accurate inventory management and avoid improper and excessive usages and wastages.

No. of Pages : 16 No. of Claims : 12
The present invention provides an apparatus for unloading a cured tire and a method thereof. The apparatus comprising at least one chuck supporting shaft having at least one centering plate at one end and plurality of chucking paddle at other end, at least one cam plate, at least one rotating gear to provide rotation to the cam plate wherein the rotating gear is actuated by an arrangement of a supporting rack and a rotatable pinion, and a centering plate. The mechanism for unloading a cured tire involves a translation of a rotational motion of a cam plate about its axis into the linear movement of the chucking paddles which move circumferentially in or out and thereby enable gripping of the tire’s bead.
(54) Title of the invention : VIRTUAL MACHINE PLACEMENT FOR MPI BASED HPC APPLICATIONS ON CLOUD

(51) International classification : G06F

(31) Priority Document No : NA

(32) Priority Date : NA

(33) Name of priority country : NA

(86) International Application No : NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number : NA

(62) Divisional to Application Number : NA

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(57) Abstract :

According to one aspect, a method for improving the performance of MPI based HPC applications on cloud environment with optimal placement and reservation of resources includes identification and grouping of homogeneous resources, application of optimal placement method for virtual machines such that their communication performance will be enhanced and identification of the amount of resource requirement and reservation of the resources to minimize performance fluctuations. In order to group homogeneous resources, we propose a method to cluster virtual machine templates according to their CPU and Memory values to localize the user search to a group. According to another aspect, to enhance the communication performance of virtual machines a method to place them such that they can communicate through shared memory is proposed. A method for prediction of network resource requirement of an application and reservation of that resource between virtual machines hosting the HPC applications can be used to improve the communication performance of VMs hosted on different machines.

No. of Pages : 30 No. of Claims : 7
Some examples described herein relate to data restoration. In an example, checkpoints may be defined for converting backup data stored in each of Logical Unit Numbers (LUNs) of a storage system into respective virtual data disk files. Backup data stored in each of the LUNs of the storage system may be converted into respective virtual data disk files at the defined checkpoints. The virtual data disk files with user configuration information of the storage system may be packaged into a Virtual Storage Appliance (VSA), which may include a base operating system (OS) image of the VSA. The VSA may be transferred to an external entity. [Figure 1]
**(54) Title of the invention : MOTOR, MOTOR DRIVING CIRCUIT AND INTEGRATED CIRCUIT FOR DRIVING MOTOR**

(51) International classification : H02P 7/00
(31) Priority Document No : PCT/CN2015/086422
(32) Priority Date : 07/08/2015
(33) Name of priority country : China
(86) International Application No : NA
   Filing Date : NA
(87) International Publication No : NA
(61) Patent of Addition to Application Number : NA
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(62) Divisional to Application Number : NA
   Filing Date : NA

(57) Abstract :
ABSTRACT A motor driving circuit drives a motor. The motor driving circuit includes a controllable bidirectional alternate current switch, a sensor, a rotation direction control circuit and a switch control circuit. The controllable bidirectional alternate current switch is connected to the motor and an alternate current power supply. The sensor detects a magnetic pole position of a rotor. The rotation direction control circuit controls a current flowing direction through a power supply terminal and a ground terminal of the sensor responsive to rotation direction set of the motor, to determine a phase of a detection signal outputted at an output terminal of the sensor. The switch control circuit controls a switch state of the controllable bidirectional alternate current switch to determine a rotation direction of the motor responsive to the detection signal and a polarity of the alternate current power supply.

No. of Pages : 40 No. of Claims : 15
The Patent Office Journal 10/02/2017

(12) PATENT APPLICATION PUBLICATION

(19) INDIA

(22) Date of filing of Application :03/08/2016

(43) Publication Date : 10/02/2017

(54) Title of the invention : MAGNETIC SENSOR INTEGRATED CIRCUIT AND MOTOR COMPONENT

Abstract:

Embodiments of the present invention provide systems and methods for vehicle arresting systems made from low-density particles and appropriate binders. The systems are designed to provide a barrier or a bed that is placed at the end of a runway or at the edge of a highway that will predictably and reliably crush (or otherwise deform) under the pressure of vehicle wheels traveling off the end of the runway or the edge of the road.

(57) Abstract :

No. of Pages : 30  No. of Claims : 15
An electronic device and a magnetic sensor integrated circuit (200) thereof are provided. The magnetic sensor integrated circuit (200) includes a shell (220), a semiconductor substrate installed in the shell and a first to a third port (221, 222, 223) extending from the shell. A rectifier and a position sensor (210) are provided on the semiconductor substrate. The rectifier includes first and second output terminals (O1, O2) and two input terminals (I1, I2) respectively connected to the first and second ports (221, 222). In a case that the first and second ports (221, 222) are positively or negatively connected to an external power supply, a voltage output by the first output terminal (O1) of the rectifier is higher than the voltage output by the second output terminal (O2) of the rectifier. The position sensor (210) is connected to the first and second output terminals (O1, O2) of the rectifier, and a magnetic field signal detected by the position sensor is output by the third port (223).
**Title of the invention:** INTEGRATED CIRCUIT, DRIVING CIRCUIT FOR MOTOR, MOTOR ASSEMBLY AND APPLICATION EQUIPMENT THEREFOR

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<tr>
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**Abstract:**
An integrated circuit includes a housing, a semiconductor substrate arranged in the housing, several pins extended out from the housing, and an electronic circuitry having a rectifier arranged on the semiconductor substrate. The rectifier includes a controllable switch.

No. of Pages: 25 No. of Claims: 15
A magnetic sensor integrated circuit and a motor assembly are provided. The integrated circuit includes a housing (2), a semiconductor substrate arranged in the housing, at least one input port (A1, A2) and an output port (Pout), and an electronic circuit arranged on the semiconductor substrate. The electronic circuit includes a rectifying circuit (60), a magnetic field detection circuit (20) configured to detect an external magnetic field and output magnetic field detection information, and an output control circuit (20) connected to the rectifying circuit (60) and configured to control, at least based on the magnetic field detection information, the integrated circuit to operate in at least one of a first state in which a load current flows from the output port (Pout) to an outside of the integrated circuit and a second state in which a load current flows from the outside of the integrated circuit to the output port (Pout). The load current flows through the rectifying circuit (60).
A refrigeration apparatus includes a fan and a motor for driving the fan. The motor is a single phase synchronous alternating current motor. In comparison with the traditional motor, the single phase synchronous alternating current motor has a reduced size and reduced cost, while ensuring the stable performance.
A motor driving circuit and a motor component are provided. The motor driving circuit includes: a bidirectional alternating current switch connected in series with a motor across two terminals of an external alternating current power supply, where the bidirectional alternating current switch is connected between a first node and a second node; a rectifying circuit having a first input terminal and a second input terminal; a first voltage drop circuit connected between the first input terminal of the rectifying circuit and the first node; a switch control circuit connected between a control terminal of the bidirectional alternating current switch and an output terminal of the rectifying circuit; and a magnetic sensor, where an output terminal of the magnetic sensor is connected to a control terminal of the switch control circuit, and the magnetic sensor is configured to detect a magnetic field of a rotor of the motor and output a corresponding magnetic inductive signal. In this way, the motor with the motor driving circuit starts to rotate in a fixed direction every time the rotor is powered on.
MAGNETIC SENSOR, MOTOR ASSEMBLY AND INTEGRATED CIRCUIT

The present teaching relates to an integrated circuit includes an input port (1102, 1104) and an output port (1106), and an electrical circuit which comprises an output control circuit (1120) coupled with the output port (1106) and configured to be at least responsive to a detected signal to control the integrated circuit to operate in at least one of a first state and a second state. The input port (1102, 1104) is to be connected to an external alternating current (AC) power supply (1610). In the first state, a load current flows in a first direction from the output port (1106) to outside of the integrated circuit, and in the second state, a load current flows in a second direction opposite of the first direction from outside of the integrated circuit into the integrated circuit via the output port (1106). The operating frequency of the integrated circuit is positively proportional to the frequency of the external AC power supply (1610).
The present teaching relates to a magnetic sensor (1105) including an input port (1102, 1104) and an output port (1106) and an electrical circuit (1100) which includes a magnetic field detecting circuit (1130), an output control circuit (1120), a state control circuit (1140) coupled with the output control circuit (1120) and configured to determine whether a predetermined condition is satisfied and signal the same to the output control circuit (1120). When the predetermined condition is satisfied, the state control circuit (1140) is at least responsive to the magnetic induction signal to enable the output control circuit (1120) to control the magnetic sensor to operate in at least one of a first state and a second state. In the first state, a load current flows in a first direction from the output port (1106) to outside of the magnetic sensor. In the second state, a load current flows in a second direction opposite of the first direction from outside of the magnetic sensor into the magnetic sensor via the output port (1106). When the predetermined condition is not satisfied, the state control circuit (1140) enables the output control circuit (1120) to control the magnetic sensor to operate in a third state.
The present disclosure provides a sensor integrated circuit (400) includes a rectifier (60), a power supply module (40), an output control circuit (30) and a detecting circuit (20). The rectifier (60) is configured to convert an external power supply into a first direct current power supply. The power supply module (40) includes a voltage regulator (41) configured to generate a second direct current power supply different from the first direct current power supply. The detecting circuit (20) is powered by the second direct current power supply and configured to detect an inputted signal and correspondingly generate a control signal. The output control circuit (30) is configured to control, in response to at least the control signal, the sensor integrated circuit to operate in at least one of a first state in which a current flows out from an output port (Pout) and a second state in which a current flows in from the output port (Pout).
A magnetic sensor integrated circuit, a motor and an application apparatus. The magnetic sensor includes a magnetic sensor, a signal processing unit, an output control circuit and an output port. The magnetic sensor receives a constant current sense a magnetic polarity of an external magnetic field and output a differential signal. The signal processing unit amplifies the differential signal and eliminates an offset of the differential signal to obtain a magnetic field detection signal. The output control circuit, at least based on the magnetic field detection signal, the magnetic sensor integrated circuit to operate in at least one a first state in which a current flows from the output port to the outside and a second state in which a current flows from the outside into the output port.
ABSTRACT A motor driving circuit and a motor component are provided. The motor driving circuit includes a bidirectional alternating current switch connected in series with a motor across two terminals of an external alternating current power supply, where the bidirectional alternating current switch is connected between a first node and a second node; a rectifying circuit; a magnetic sensor, configured to detect a magnetic field of a rotor and output a corresponding magnetic inductive signal; a first voltage drop circuit and a second voltage drop circuit connected in series between the first input terminal of the rectifying circuit and the first node, where there is a third node between the first voltage drop circuit and the second voltage drop circuit, and the first voltage drop circuit is connected between the first node and the third node; a switch circuit connected between the third node and a control terminal of the bidirectional alternating current switch, where the switch circuit includes a first terminal, a second terminal, a control terminal and a switch arranged between the first terminal and the second terminal; and a switch control circuit connected between the control terminal of the switch circuit and an output terminal of the magnetic sensor.
Abstract: A motor assembly, an integrated circuit and an application device including the motor assembly are provided. The motor assembly includes a motor and a motor driving circuit, the motor driving circuit includes a step down circuit, and the step down circuit includes a first current branch and a second current branch which are turned on selectively. The step down circuit can be integrated in an application specific integrated circuit to reduce the complexity and cost of the circuit.

No. of Pages : 28 No. of Claims : 15
**Title of the invention:** MAGNETIC SENSOR, INTEGRATED CIRCUIT AND MOTOR ASSEMBLY

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**Abstract:**
The present teaching relates to an integrated circuit, including a semiconductor substrate, an input port (1102, 1104) and an output port (1106), and an electrical circuit on the semiconductor substrate. The input port (1102, 1104) is coupled with an external alternating current power supply (1610). The electrical circuit comprises an output control circuit (1120) coupled with the output port (1106), and configured to be responsive to a detected signal to control the integrated circuit to operate in a state in which a load current flows through the output port (1106) when a predetermined condition is satisfied, and operate in another state when the predetermined condition is not satisfied. The operating frequency of the integrated circuit is positively proportional to the frequency of the external AC power supply (1610).

No. of Pages: 40
No. of Claims: 15
Abstract:
A motor driving circuit (18) drives a motor (10). The motor driving circuit (18) comprises a controllable bidirectional alternate current switch (26), a detection circuit (20). The controllable bidirectional alternate current switch (26) is connected in series to a winding of the motor (10) between two terminals of an alternate current power supply (24). The detection circuit (20) is configured to detect a magnetic pole position of a rotor (11) of the motor (10) and output a magnetic pole position signal. And a switch state of the controllable bidirectional alternate current switch (26) is controlled to determine a rotation direction of the motor (10) according to a control signal and polarity of the alternate power supply (24).

No. of Pages : 31 No. of Claims : 15
(12) PATENT APPLICATION PUBLICATION

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(54) Title of the invention : A MAGNETIC SENSOR AND AN INTEGRATED CIRCUIT

(51) International classification : H02K 1/00

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(33) Name of priority country : China

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(57) Abstract : 
ABSTRACT 66. The present teaching relates to a magnetic sensor comprising an input port, a magnetic field detecting circuit that generates a magnet detection signal, an output control circuit that controls operation of the magnetic sensor, and an output port. The magnetic field detecting circuit includes a magnetic sensing element that detects an external magnetic field and output a detection signal, a signal processing element configured to amplify the detection signal and removing interference from the detection signal, and an analog-digital conversion element configured to convert the processed detection signal into a magnet detection signal, and the output control circuit controls the magnetic sensor to operate in at least one of a first state and a second state responsive to at least the magnet detection signal, wherein the signal processing element comprises an amplifier and a filter circuit, and gain of the amplifier is greater than gain of the filter circuit. 67. 68.

No. of Pages : 43 No. of Claims : 15
A magnetic sensor integrated circuit (400), a motor assembly and an application device are provided. The magnetic sensor integrated circuit (400) includes a magnetic field detection circuit (20) and an output control circuit (30). The magnetic field detection circuit (20) is configured to detect a magnetic field of a rotor of a motor and output magnetic field detection information. The output control circuit (30) includes a first switch (31) and a second switch (32). The first switch (31) and the output port (Pout) are connected in a first current path. The second switch (32) and the output port (Pout) are connected in a second current path having a direction opposite to that of the first current path. The first switch (31) and the second switch (32) are selectively turned on based on the magnetic field detection information, so as to control an energizing mode of the motor (200).
A magnetic sensor integrated circuit includes an electronic circuit arranged on a semiconductor substrate, and input ports (A1, A2) and first and second output ports (B1, B2) extending out from a housing. The electronic circuit includes a magnetic field detection circuit (20) and an output control circuit (30). The magnetic field detection circuit (20) is configured to detect an external magnetic field and generate magnetic field detection information. The first output port (B1) outputs the magnetic field detection information to an outside of the housing. The output control circuit is configured to control, based at least on the magnetic field detection information, the integrated circuit to operate in at least one of a first state in which a current flows from the second output port (B2) to an outside of the integrated circuit and a second state in which a current flows from the outside of the integrated circuit to the second output port (B2).
**Title of the invention**: INTEGRATED CIRCUIT, MOTOR COMPONENT AND APPLICATION DEVICE HAVING THE MOTOR COMPONENT

| (51) International classification | H01R 13/00 |
| (31) Priority Document No | PCT/CN2015/086422 |
| (32) Priority Date | 07/08/2015 |
| (33) Name of priority country | Switzerland |
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| Filing Date | NA |

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**Abstract**:
An integrated circuit, a motor component including the integrated circuit and an application device having the motor component are provided according to embodiments of the present disclosure. The integrated circuit includes a housing, an integrated circuit die arranged inside the housing and multiple pins extended out from the housing. The integrated circuit die has a conductive back plate and an electronic circuit arranged on the conductive back plate. The multiple pins include an input pin and an output pin, each of the multiple pins has a lead frame inside the housing. The conductive back plate is fixed to the lead frame of at least one ungrounded pin of the multiple pins in a manner of electrical insulation, thereby avoiding a short circuit for the integrated circuit due to an electrical connection between the conductive back plate and the lead frame fixed to the conductive back plate.

No. of Pages: 30 No. of Claims: 15
The present invention relates to a modular and adjustable sliding base, intended mainly for flexible or rigid sheet material cutting machines, but being able to be applied to any machinery requiring it. The base comprises an upper surface (1a) 10 and a lower surface (1b), where said upper surface (1a) has a plurality of through holes (3) communicating the upper and lower surfaces, and a plurality of legs (4) on the lower surface for supporting the base (1). Some legs (4) having a through hole (4a) along the length of the leg and an elastic element (6) arranged around the perimeter of each leg (4) and having a threaded fixing element (5) that can be 15 inserted in the through hole (4a) and emerging from the free end of the leg, for allowing height adjustment of each leg (4) on a support surface (2).

No. of Pages : 15 No. of Claims : 7
MOTOR COMPONENT AND MOTOR DRIVER CIRCUIT

ABSTRACT: An application device, a motor component and a motor driver circuit are provided according to the invention. The motor driver circuit includes: a controllable bi-direction alternating current switch connected in series with a motor across an external alternating current power source; a switch control circuit configured to control the controllable bi-direction alternating current switch to be turned on or turned off in a preset manner; and a delay circuit configured to delay a turn-on for the controllable bi-direction alternating current switch for a preset time to decrease a phase difference between a current flowing through the motor and a counter electromotive force. The motor driver circuit can improve a power efficiency of the motor.

No. of Pages: 31  No. of Claims: 15
The present teaching relates to a magnetic sensor comprising an input port to be connected to an external power supply, a magnetic field detecting circuit configured to generate a magnet detection signal, an output control circuit configured to control operation of the magnetic sensor in response to the magnet detection signal, and an output port. The magnetic field detecting circuit includes a magnetic sensing element configured to detect an external magnetic field and output a detection signal, a signal processing element configured to amplify the detection signal and removing interference from the detection signal to generate processed detection signal, and an analog-digital conversion element configured to convert the processed detection signal into a magnet detection signal, and the output control circuit is configured to control the magnetic sensor to operate in at least one of a first state and a second state responsive to at least the magnet detection signal.
ABSTRACT The present teaching relates to a magnetic sensor comprising an input port, a magnetic field detecting circuit that generates a magnet detection signal, an output control circuit that controls operation of the magnetic sensor, and an output port. The magnetic field detecting circuit includes a magnetic sensing element that detects an external magnetic field and output a detection signal, a signal processing element configured to amplify the detection signal and removing interference from the detection signal, and an analog-digital conversion element configured to convert the processed detection signal into a magnet detection signal, and the output control circuit controls the magnetic sensor to operate in at least one of a first state and a second state responsive to at least the magnet detection signal, wherein the signal processing element comprises a folded cascode amplifier.
A motor driving assembly includes a single phase motor and a torque transmission mechanism. The torque transmission mechanism includes a driving member being driven by the motor, a driven member for driving a load to rotate along a predetermined direction, and a connecting device comprising a resilient member and a damping member. The resilient member includes one end connected to the driving member and the other end connected to the driven member. The damping member is coated on or attached over the resilient member, or filled in a gap of the resilient member, or the resilient member is made from a damping material in order to reduce noise produced by the resilient member.
An object is to provide a vehicle door handle device having a novel structure that can effectively prevent the door from opening in a collision. The solution is to assemble a stopper member 40 to a bell crank lever 4 that rotates around a first rotation axis 4X linking with a pull-up operation performed to a handle body 3, the stopper member 40 having a second rotation axis 10X to rotate around that is different from the first rotation axis. When the bell crank lever 4 rotates with a rotary acceleration that does not exceed a reference level, the stopper member 40 rotates with the bell crank lever 4 and does not hinder the rotation. When the bell crank lever 4 rotates with a rotary acceleration that exceeds the reference level, the stopper member 40 that can no longer follow the rotation of the bell crank lever 4 abuts on the stop portion 21 and stops the rotation of the bell crank lever 4. This stoppage of rotation prevents the vehicle door from opening.
A method for providing messages to a user during a call includes receiving a call from a user. The method may further include retrieving, based on the call, a unique identifier of the user, and placing the user in a call queue in an order defined by when the call is received. While the user is in the call queue, user data matching the unique identifier of the user is retrieved, the user data is analyzed to identify, based on the prior interaction, a problem of the user with the software application. The method may further include generating, in response to identifying the problem of the user, user data messages, and initiating presentation of the user data messages to the user while the user is in the call queue.

No. of Pages : 34 No. of Claims : 20
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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**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

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