

DELHI. MUMBAI. BANGLORE. PUNE. INDORE. HYDERABAD. CALIFORNIA

Technologies Available For Commercialization October 2016 – March 2017

IDENTIFYING PARTNERS/LICENSEES FOR GLOBAL INTERESTS

The patent pertains to the field of Topical pharmaceutical formulation containing Voriconazole. The antifungal microemulgel aims at reducing side effects of the drug combining it with the advantages of emulgel. Voriconazole a triazole antifungal medication is generally used to treat serious, invasive fungal infections like candidiasis aspergillosis etc. The drug is loaded on to microemulgel, which has been prepared by screening of oils, emulsifier, and co-emulsifier on basis of solubility of desirable API in it. Voriconazole has high solubility in Neem oil which also assists in its therapeutic action. Presence of oil portion facilitates better penetration of API in the skin. Oil Micelle Size being less than 500 nm provides more area for absorption of API in the skin enhancing its efficacy. Microemulgel has an advantage of emulgel and micro-emulsion; combining several desirable properties like good consistency, thyrotrophic, greaseless, easily spreadable as well as removable, emollient, non-staining, water soluble, longer shelflife, bio-friendly, transparent with a pleasant appearance.



PATENT STATUS

Indian Patent Application 3386/MUM/2014



The invention relates to the formulation of voriconazole topical antifungal microemulgel. As compared to gel and other topical preparations microemulgel has been prepared by screening of oils, emulsifier, and coemulsifier on bases of solubility of an API in it. An API has high solubility and oil may also have more or less pharmacological property, so it may assist the therapeutic action of API. Due to presence of oil portion, it leads to more penetration of API in the skin. Oil Micelle Size is less than 500 nm which provides more area for absorption of API in the skin so more penetration and more effective than macro-emulsion. Microemulgel has an advantage of emulgel that has dual benefits of micro-emulsion and gel and several other desirable properties like good consistency, thyrotrophic, greaseless, easily spreadable as well as removable, emollient, non-staining, water soluble, longer shelf-life, bio-friendly, transparent, pleasant appearance, ability of patients for self-medication, termination of medications will be easy, etc.

PATENT STATUS

Indian Patent Application 3169/MUM/2014





Safety Isolation Bag For Power Morcellation

TECHNOLOGY

The present innovation relates to "Safety Isolation Bag", a pneumoperitoneum device for intra-abdominal, endoscopic procedures, power morcellation and vaginal morcellation for facilitating safe removal of body mass from within the abdominal cavity. It comprises of an expandable and collapsible enclosed internal space having a neck portion with mouth having re-tractor means and provided with markings, color coded indicating how much the bag is to be pulled out for the removal of large, medium and small tissue mass, and also having one or more non-return valves attached with long looped threads on one of the surface in the wall of the safety isolation bag below the neck as a means for introducing the surgical instruments and accessories into the enclosed internal space at the right place and to close the puncture hole after the procedure. It is made of one or more layers of flexible biocompatible / medical grade plastic film.



PATENT STATUS PCT Patent Application No. : PCT/IN2015/000420



"TEAM" For Organic Waste Treatment

TECHNOLOGY

The present invention relates to the treatment of organic solid wastes through anaerobic digestion within a short retention time of 7 days without mechanical mixing. The two stage process comprises of an Acidification phase in which organic content of solid waste is leached out to make a high strength liquid by decomposition of waste and a Methanation phase in which this high strength leachate is treated in a high rate Upflow Anaerobic Sludge Blanket reactor to produce biogas. The present invention produces non-flowable slurry after waste digestion and recycles water within the process resulting in reduced water consumption and aesthetic conditions around the plant.



PATENT STATUS Indian Patent Application Number: 2655/Del/97



With no concept of fixed water supply through the day, in India it becomes incumbent upon every house owner to not only use the direct supply of clean fresh water but store it in overhead tanks as well. However, the supply of water from two different sources requires an elaborate and complicated network of pipelines along with other associated accessories requiring high capital expenditure. Improper space utilization and loss of aesthetics are also a growing concern among urban population. The device functions in such a way that when fresh or preferred water supply is available, the supply from alternate source is stopped and fresh water is allowed to flow towards the outlet. On the other hand, when supply of fresh water is not available, device shifts supply from fresh water line to an alternate source such as an overhead tank. A transparent indicator with ball arrangement is provided to indicate changeover of water supply from fresh water to overhead water. The device operates based on pressure difference between different supplies.

GLASS INDICATOR FRESH SUPPLY A TANK SUPPLY INLET FROM TANK BOTTOM (P2) INLET (P1) INLET

PATENT STATUS Indian Patent Application Number: 2678/DEL/2014



Innovative Salon Chair with Hairdresser Seat

TECHNOLOGY

The present invention provides a chair for barbers or hairdressers having a revolving barber's seat and an auxiliary revolving seat attachment for the existing hydraulic chairs for barbers and/or hairdressers to work whilst seated wherein said seat is adapted cantileverly. The chair comprises a base, a hydraulic system for raising or lowering a customer's seat and a revolving seat system adapted between the base and a hydraulic system. This allows the user to rotate the barber's seat freely in 360 degrees around the customer's seat. The chair is simple, easy to assemble and has a long life.



PATENT STATUS International Patent Application Number: PCT/IN2016/050147



The present invention relates to the safety impact guard for heavy vehicles. The problem of accident is a very acute in highway transportation. Traffic accident leads to loss of life and property. We cannot avoid accidents completely but impact of accident we can reduce by applying safety measures, safety instrument. Safety impact guard is one of the safety instruments which can reduce collision impact at rear end collision when accident occurs. Also provide safety against under ride crashes which is cause due to passenger vehicle collides with the truck or trailer. Proposed design of safety impact guard includes crushing element as force destroying material. Because of that when rear end collision occurs the force or energy or impact is destroyed due to crushing action.



PATENT STATUS International Patent Application Number: 3243/MUM/2014



Planetary Gear Box

TECHNOLOGY

Present invention discloses a technology relating planetary gear box. Parallel shafting gearbox have problems like the frictional losses, gear shifting is very hard under load ,wear and tear of gears while shifting and operating of the gears, load distribution on single driven gear and it is hard to derive large reductions gear ratio easily. Present invention introduces a gearbox as a solution for above problems using PGTU(planetary gear trains unit)s such that all the PGTUs in gear box are connected serially with axles on which planetary gears are mounted ,of the PGTUs which are arranged between them, forming a series of CPCAs, for transmission from rotating driving shaft on which sun gears are mounted to the driven shaft by braking the motion of the ring gear of PGTU through which the transmission is to be carried out while setting free the ring gears of rest of the PGTUs in the gear box, It is useful in automobile vehicle etc.



PATENT STATUS Indian Patent Application Number: 4907/MUM/2015 International Patent Application Number: PCT/IN2016/050148



Present invention introduces a automatic technology for planetary gear box using pressure spring brakes and one way clutches, such that the spring pressure keeps the brakes in engaged position and the arrangement of the pressure spring brakes of planetary gear train unit (PGTU) in planetary gear box is according to the pressure of their pressure spring in descending order from input shaft towards output shaft while an additional circular planetary gear arms (CPCA) is introduced in each PGTU before CPCA of next PGTU to which end B of the planet axels are attached and one way clutch fixes the driving member of one way clutch to additional CPCA and its driven member to CPCA of next PGTU. In another form of invention automatic planetary gear box is further characterized with a hydraulic braking mechanism instead of PSB which is operated by mechanical governor attached to the previous PGTU.



PATENT STATUS Indian Patent Application Number: 201721000763



Three dimensional vision system for interventional surgery

TECHNOLOGY

The present innovation relates to a self-illuminated and self-cleaning threedimensional vision system for interventional surgery. The vision system brings multiple unique advantages over the existing systems at significantly lower cost. The vision system mechanics proposed in this invention essentially comprise a disc hosted at end of a shaft for mounting a cleaning system, one or more cameras and light sources. The disc is capable of being manipulated in 360 o in space with help of simple actuators so as to allow greater flexibility as well as wider view envelope at the site of surgical intervention. Materials of construction, protocol of assembly and product life cycle are designed to be significantly cost-effective as compared to currently available technologies.



PATENT STATUS Indian Patent Application Number: 1625/MUM/2015



This invention relates to the technical fields of water, energy, water storage and flow and use of high strength heavy duty metallic springs to support the water tanks, in order to create a self-adjusting system that provides constant water flow rate without pressure drop, as well as a way to store additional energy in fluid based load balancing systems. This is a method and design to create an assembly of water tanks mounted in metallic springs, wherein, the compression of springs by water weight enables storing additional energy, and the water outflow from the tank can be self regulated to provide a constant flow rate.



PATENT STATUS Indian Patent Application Number: 201721000763



Oral Solution of Aripiprazole

TECHNOLOGY

The present invention relates to oral solution of aripiprazole with improved solubility, stability and bioavailability of active ingredient and process for preparation of the same. The oral solution of aripiprazole comprises of an active ingredient, aripiprazole and malic acid and other pharmaceutically acceptable ingredients selected from vehicle, co-solvent, preservative, sweetener, chelating agent, buffer, flavoring agent and sweetness/flavor enhancing agent wherein said formulation is with acidic pH, more particularly pH between 3 and 3.5. This oral solution has improved taste having high patient compliance and having dose flexibility for patients who need special doses of the drug and have difficulties in swallowing oral dosage forms.



PATENT STATUS International Patent Application Number: WO2017025930



The present invention provides a topical anti-arthritis and anti-paralytic herbal 5 based composition and process for the preparation thereof. The composition comprises essentially extracts of plant parts. Topical application of the composition of the invention results in reported gain in increase in range of motion, reduction in pain and swelling of joints in arthritic patients. This composition is having advantages over currently used allopathic medications for treatment having different side effects such as Edema, heartburn, stomach upset and stomach ulcers, increased risk of blood clots, heart attack and many more.



PATENT STATUS Indian Patent Application Number: 201721000763



In the present investigation, rice hulls have been used as a source to obtain the Nano silica particles employing simple chemical route by controlling the process parameters without any violation to the environment. The size of the produced silica particles are in Nano range, which are confirmed by the studies such as XRD, SEM & AFM. Attempts have been made to enhance the physical and chemical properties of Nano silica particles by changing the process parameters. The proposed technique reveals the possibility of production of Nano silica particles in large quantity through chemical route from the natural resource namely rice hulls. Further, the proposed method is simple, cost effective, an eco-friendly and also facilitates to scale up the technique for larger production of Nano silica particles.



PATENT STATUS Indian Patent Number: 281341



The present invention relates to, 'Rupiya Card' a small rectangular-shaped, pocket-sized, software-embedded, real-time monetary receipts (credits) only transacting data-communication device which facilitates either display of a citizen's (OWNER's/PAYEE's) bank balance (monetary balance) or facilitates an inter-bank electronic monetary credit transaction into the bank account of the OWNER/PAYEE from the bank account of a PAYER, for the goods or services rendered by the OWNER/PAYEE to the PAYER, instantly in real time, by using either one of their finger-prints, as operated upon, for the respective desired functions.



PATENT STATUS Indian Patent Application Number: 201641040962



Present invention talks about growing Vigna radiata (L.) Wilczek plant in laboratory on a bio-bed composed of non-absorbent cotton fibers without addition of any growth regulator, fertilizers and nutrient supplements. The growth parameters were compared with the plant grown on soil. The bed was made from different layers of cotton, which were loosened and arranged in sheets to form bed of 2.5 cm thickness in beakers/china dishes. Seeds of Vigna radiata (Linn.) Wilczek were sown on cotton bed and soil simultaneously. Water was sprayed on both the beds (cotton and soil). In preliminary study seeds were grown on cotton and soil bed in laboratory for 34 days. Similarly in detailed study was conducted for a period of 71 days. Our study results revealed promising significant growth of Vigna radiata (L.) Wilczek on a bio-bed when compared to the growth of plants in soil. The flowering and fruiting was achieved earlier on cotton bed then soil bed. The conclusion was drawn that this pioneering attempt is a novel biotechnique for growing Vigna radiata (L.) Wilczek plant in a healthy, economic and effective manner without using fertile land. The seeds were sowed in soil (field) and cotton bed in laboratory.



PATENT STATUS

Indian Patent Application Number: 2924/DEL/2008



Method of Preparing Green Form Polystyrene Resin

TECHNOLOGY

The present invention relates to a method of preparing green form polystyrene resin. More specifically, recyclable expandable material from general waste is made use of along with virgin expandable material and virgin hardening polymer for preparing green form polystyrene resin. Further, extruding the mixture yields green form compounded polystyrene resin with high melt flow index or gas injection into the green form compounded polystyrene resin results in synthesis of green form expandable capsules or beads thereof with desired properties. The present invention further facilitates the production of polystyrene molded foam used for insulation by puffing expandable green form capsules with preexpander.



PATENT STATUS Indian Patent Number: 281850





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