

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০।
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২. ১৩

তারিখঃ ৮/০২/২০২৬ খ্রি.

বিষয়ঃ মঞ্জুরকৃত পেটেন্ট আবেদনসমূহ প্রকাশ

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, অধিদপ্তরে দাখিলকৃত পেটেন্ট আবেদনসমূহের মধ্যে ২৬ (ছাব্বিশ)টি পেটেন্ট (২০২১ সালের পেটেন্ট আবেদন নং-১২৯, ৩৪১; ২০২২ সালের পেটেন্ট আবেদন নং-২১, ৩১, ৩৩, ৪৭, ৫৫, ১০২, ২১১, ২২৮, ৩০১, ৩০৮; ২০২৩ সালের পেটেন্ট আবেদন নং-১৭, ৪৩, ৬৪, ৮২, ৮৩, ৮৫, ৮৬, ৮৭, ৯১, ১৮৭; ২০২৪ সালের পেটেন্ট আবেদন নং- ১০১, ১৪৫, ১৯৭, ২৫৯) মঞ্জুর করা হয়েছে। মঞ্জুরকৃত উক্ত পেটেন্ট আবেদনসমূহ বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ২৪(২)(ক) মোতাবেক প্রকাশ করা হলো।

সংযুক্তিঃ ২৬ (ছাব্বিশ)পাতা।


মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

অনুলিপিঃ

- ১। পরিচালক (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ২। সিস্টেম এনালিস্ট, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর। (ওয়েবসাইটে প্রকাশের জন্য)
- ৩। উপ-পরিচালক (পেটেন্ট) (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ৪। মহাপরিচালক মহোদয়ের ব্যক্তিগত সহকারী, পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।



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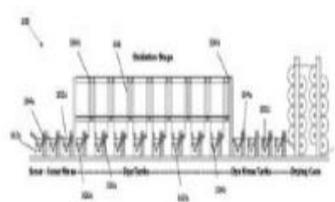
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(11) Patent registration No and date 1007059, 15/01/2026 (21) Appl. No. BD-P-2021-129 (22) Filed: 11/04/2021										
(23) Priority Data: United States of America, Number :63007644, Date : 09-04-2020.										
(71) Applicant: R.J. Reynolds Tobacco Company of 401 North Main Street, Winston-Salem, North Carolina 27101, USA, Nationality -United States of America, British American Tobacco (Investments) Limited., a British company, of Globe House, 1 Water Street, London, WC2R 3LA, Nationality -United Kingdom										
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(74) Agent : M. A. KASHEM BHUIYAN, ADVOCATE, REMFRY & SON LIMITED, 56, NEW ESKATON ROAD, 4TH FLOOR, DHAKA-1000, BANGLADESH, DHAKA, Bangladesh										
(51) INT. CL. : A24B 15/10										
(54) Invention Title: METHODS OF MODULATING Nic3 GENES TO MODULATE ALKALOID CONTENT IN TOBACCO										
(57) Abstract The present invention provides a method for modulating (e.g. decreasing) the nicotine content of a plant (e.g. a tobacco plant) or part thereof, or tobacco plant cell, the method comprising modifying said plant or cell providing at least one mutation in aNic3 locus. The present invention provides a method for modulating (e.g. decreasing) the nicotine content of a plant (e.g. a tobacco plant) or part thereof, or tobacco plant cell, the method comprising modifying said plant or cell to modulate the expression or activity of at least one Nic3 gene. The present invention also provides for the use of the Nic3 locus for modulating the alkaloid content of a plant, as well as tobacco cells, plants, plant propagation materials, harvested leaves, processed tobaccos, or delivery systems obtainable in accordance with the invention.	<table border="1"><thead><tr><th>Sample</th><th>Nicotine (mg/g)</th><th>Nornicotine (mg/g)</th></tr></thead><tbody><tr><td>FC101</td><td>~1.6</td><td>~0.1</td></tr><tr><td>LAFC53</td><td>~3.3</td><td>~0.1</td></tr></tbody></table>	Sample	Nicotine (mg/g)	Nornicotine (mg/g)	FC101	~1.6	~0.1	LAFC53	~3.3	~0.1
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FC101	~1.6	~0.1								
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(11) Patent registration No and date 1006975, 08/10/2025 (21) Appl. No. BD-P-2021-341 (22) Filed: 19/10/2021	
(23) Priority Data: United States of America, Number :63094108, Date : 20-10-2020.	
(71) Applicant: CleanKore, LLC of 31000 Viking Parkway, Westlake, OH 44145, Nationality -United States of America	
(72) Inventors: (0) Heath COLWELL of 521 Parkview Drive, Sheffield Lake, OH 44054, United States of America Nationality -United States of America, (1) Darryl J. COSTIN, JR. of 186 Plymouth Drive, Bay Village, OH 44140, United States of America Nationality -United States of America, (2) Ken KISER of 6031 Old South Drive, Richmond, KY 40475, United States of America Nationality -United States of America, (3) Alpesh PATEL of 1-B Bhuyangdey CO. OP. H. SD, Sola Road, Ghatlodiya, Ahmedabad, Gujarat, 380061, India Nationality -India, (4) Darryl J. COSTIN, SR. of 32888 Lake Road, Avon Lake, OH 44145, United States of America Nationality -United States of America, (5) Dennis SCHEER of 36111 Crosstimers Drive, Greensboro, NC 27410, United States of America Nationality -United States of America	
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(51) INT. CL. : D06P 1/228	
(54) Invention Title: IMPROVED DYE RANGE, IMPROVED DYE RANGE PROCESSES, AND YARNS AND FABRICS PRODUCED THEREFROM	
(57) Abstract The present invention relates to yarn dyeing, such as denim dyeing. A process provides a dyed yarn having reduced dye penetration and a white core at lower cost. The improved process for yarn dyeing is referred to herein as the CleanKore technology. The CleanKore technology improves one or more steps in dye ranges to achieve dyeing of the yarn while retaining a white core at the center of the yarn. When viewing a cross-section of a yarn, the peripheral portion is dyed while the center remains white (not dyed). The CleanKore technology modifies the scouring stage (or phase), the scour rinsing stage, the dyeing stage, and/or the dye rinsing phase of existing dye ranges. The modifications may be applied individually or any combinations thereof to the existing dye range.	



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(11) Patent registration No and date 1007061, 15/01/2026	
(21) Appl. No. BD-P-2022-21	
(22) Filed: 25/01/2022	
(23) Priority Data: Italy, Number :2021000014318, Date : 01-06-2021.	
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(74) Agent : M. A. KASHEM BHUIYAN, ADVOCATE, REMFRY & SON LIMITED, 56, NEW ESKATON ROAD, 4TH FLOOR, DHAKA-1000, BANGLADESH, DHAKA, Bangladesh	
(51) INT. CL. : D04B 1/24	
(54) Invention Title: CIRCULAR KNITTING MACHINE FOR HOSIERY OR THE LIKE AND METHOD FOR PRODUCING A TUBULAR MANUFACTURE	
(57) Abstract A circular knitting machine (1) for hosiery or the like, comprising at least one needle cylinder (2) which has a cylinder axis (100) and is configured to provide a tubular manufacture (101), the circular machine (1) comprising a pickup device (10) adapted to pass between a pickup position, in which it is arranged coaxially around the needle cylinder (2) in order to pick up the tubular manufacture (101) at an axial end thereof from the needle cylinder (2), and a position for the release of the tubular manufacture (101) at a station (40) for the further processing of the tubular manufacture (101) which is spaced laterally from the needle cylinder (2), at the further processing station (40) there being a turning device (20) which comprises a lower portion (22) which forms in an upper region an access inlet (21), which is extended around a respective axis of extension (103), the lower portion (22) of the turning device (20) being designed to accommodate coaxially the tubular manufacture (101) in order to turn it, the circular machine (1) being characterized in that it comprises traction means (30) which act on command at the outer surface of the tubular manufacture (101) and are adapted to convey at least one portion of the tubular manufacture (101) at at least one accumulation region (200), the turning device (20) being associated with suction means adapted to transfer at least one portion of the tubular manufacture (101) conveyed in the accumulation region (200) toward the lower portion (22) of the turning device (20) through the access inlet (21).	



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(11) Patent registration No and date 1007048, 15/01/2026 (21) Appl. No. BD-P-2022-31 (22) Filed: 03/02/2022	
(23) Priority Data: India, Number :202141012385, Date : 23-03-2021.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India	
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(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh	
(51) INT. CL. : B62D 61/02	
(54) Invention Title: A MOUNTING STRUCTURE FOR A TWO-WHEELED MOTOR VEHICLE.	
(57) Abstract The present subject matter relates to a two or three wheeled motor vehicle. More particularly to vehicle layout of the two wheeled vehicle for packaging of one or more electric motors in the vehicle. The motor vehicle (100) with at least two wheels, said vehicle (100) comprising a rear wheel (102), a swing arm assembly (204), a rear portion of said swing arm assembly (204) being swingably connected to a portion of said rear wheel (102), and a front portion of said swing arm assembly (204) being connected to a portion of frame assembly and a motor assembly (201) configured to power said vehicle (100), wherein the motor assembly (201) is supported on said swing arm assembly (204) through a mounting structure (202).	



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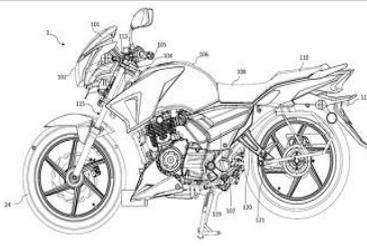
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(11) Patent registration No and date 1007047, 15/01/2026	
(21) Appl. No. BD-P-2022-33	
(22) Filed: 03/02/2022	
(23) Priority Data: India, Number :202141014307, Date : 30-03-2021.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India., Nationality -India	
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(74) Agent : MD. ZAHIRUL ISLAM, ADVOCATE, ISLAM & CO, 19/D, EAST NOYATOLA, (3RD FLOOR) MOGH BAZER, DHAKA- 1217 BANGLADESH, DHAKA, Bangladesh	
(51) INT. CL. : B60P 3/377	
(54) Invention Title: A SECURING UNIT FOR SECURING AN ARTICLE TO A VEHICLE.	
(57) Abstract The present invention discloses a vehicle (100) a securing unit (202) comprising of a first extending member (405) and a second extending member (406). The securing unit is adapted to lock and unlock an ignition lock and a portion of one or more article using simple, economically efficient manner.	



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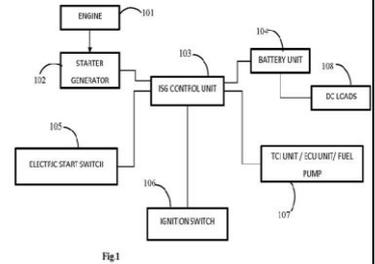
(11) Patent registration No and date 1007041, 20/11/2025 (21) Appl. No. BD-P-2022-47 (22) Filed: 13/02/2022	
(23) Priority Data: India, Number :202141015355, Date : 31-03-2021.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India	
(72) Inventors: (1) Gunasekaran MANIKANDAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) RAMASAMY VIJAY A VELUSAMY JANARTH of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) AMARDEEPKUMAR of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India	
(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh	
(51) INT. CL. : B61D 3/18	
(54) Invention Title: A CONTROL UNIT FOR A VEHICLE	
(57) Abstract The present subject matter generally relates to a saddle type vehicle (100). The present subject matter specifically relates to communication control unit (200) mounting and location in a saddle type vehicle (1). The communication control unit (200) is a telematic unit which is disposed under a seat assembly (108,110). The communication control unit (200) is mounted on either of seat rails (303) through mounting means such as rubber grommet or a bracket. The present location of the communication control unit (200) remains away from any disturbance caused due to electromagnetic field generated by electric component and also the conductive nature of the human body.	 <p>Fig. 1</p>



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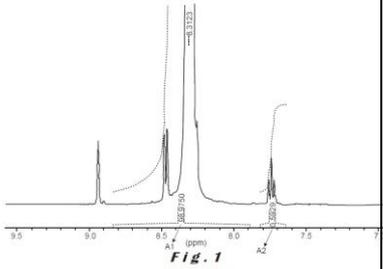
<p>(11) Patent registration No and date 1007053, 15/01/2026 (21) Appl. No. BD-P-2022-55 (22) Filed: 20/02/2022 (23) Priority Data: India, Number :202141015240, Date : 31-03-2021.</p>
<p>(71) Applicant: TVS MOTOR COMPANY LIMITED of of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India. , Nationality -India</p>
<p>(72) Inventors: (1) Sakthivel KARUPPUSAMY of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India, (2) Vinoth BALARAM RANGANATHAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, INDIA, India Nationality -India, (3) M. ABIRAMI of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, INDIA, India Nationality -India, (4) M.NAGARJUN REDDY of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, INDIA, India Nationality -India</p>
<p>(74) Agent : MD. ZAHIRUL ISLAM, ADVOCATE, ISLAM & CO, 19/D, EAST NOYATOLA, (3RD FLOOR) MOGH BAZER, DHAKA- 1217 BANGLADESH, DHAKA, Bangladesh</p>
<p>(51) INT. CL. : H04L 25/38</p>
<p>(54) Invention Title: A START-STOP SYSTEM FOR AN ENGINE OF A VEHICLE AND A METHOD THEREOF</p>
<p>(57) Abstract The present subject matter relates generally to an engine start stop system of a vehicle. The start-stop system comprising an integrated starter generator machine 102, a starter switch 105, an ignition control unit 110, an ignition switch 106, and a kill relay 109. The starter switch 105 is configured to operate the integrated starter motor generator 102. The ignition control unit 110 controls spark provided to an engine 101. The ignition switch 106 operates the ignition control unit 110. The kill relay 109 controls the power supply to the ignition control unit 110, wherein the kill relay 109 is configured to be operated to bring the engine 101 in an OFF state in idle condition. The present invention ensures that it provides a start stop system which economizes the fuel efficiency. The present invention also ensures that the engine 101 is switched off in idling condition or while in traffic but allows other essential loads to be operative without increasing the part count, weight, and cost of the vehicle, making it more reliable and safer to operate.</p>





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(21) Appl. No. BD-P-2022-102	
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(23) Priority Data: European Patent Office (EPO), Number :211722954, Date : 17-03-2021. and European Patent Office (EPO), Number :211632682, Date : 17-03-2021.	
(71) Applicant: WORMS SAFETY EUROPE of 25A Bonlevard Grangle Duchesse Charlotte. 1 33 1 t,Lxemborig., Nationality -Luxembourg	
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(51) INT. CL. : C07C 69/82	
(54) Invention Title: METHOD FOR THE DETERMINATION OF RECYCLED POLYETHYLENE TEREPHTHALATE	
(57) Abstract The present invention concerns a method for determining a percentage of recycled polyethylene terephthalate in a material with regards to the total amount of r-PET and non-recycled polyethylene terephthalate comprised in said material M; said method comprising the steps of determining the molar ratio of IPA of each reference material of a series of reference materials, each reference material comprising at least one PET polymer and optionally IPA monomers and optionally TPA monomers, calculating the average of the molar ratios of IPA of the series of reference materials, providing a material M; determining the molar ratio of IPA of said material M by analysing said material M using at least one analysis method selected from the group consisting of NMR, FTIR, Raman spectroscopy, NIR, GC, HPLC; determining the percentage of r-PET in said material M RIPA, wherein $RIPA = Y/X * 100$.	



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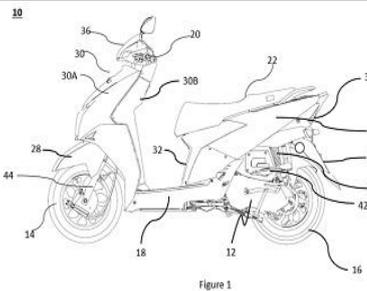
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(11) Patent registration No and date 1007040, 20/11/2025 (21) Appl. No. BD-P-2022-211 (22) Filed: 12/06/2022	
(23) Priority Data: India, Number :202141030916, Date : 09-07-2021.	
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(74) Agent : Islam & Co., 19/D, East Noyatola (3rd Floor), Mogh Bazar, Dhaka-1217., Bangladesh	
(51) INT. CL. : B60N 2/40	
(54) Invention Title: A CANISTER ASSEMBLY FOR A SADDLE TYPE VEHICLE	
(57) Abstract The present invention relates to a saddle type vehicle (10) having a main frame (24) that extends rearwardly from a head pipe (22) in a vehicle front-rear direction. The main frame (24) has a first aperture (26A) configured to be open to atmosphere and a second aperture (26B) in fluid communication with the first aperture (26A). The saddle type vehicle (10) further has a canister assembly (100) with a canister (110) and a breather pipe (120). The breather pipe (120) has a first end (120A) that is connected to the canister (110) and a second end (120B) that is connected to the second aperture (26B), thereby allowing air from atmosphere to reach the canister (110) through the breather pipe (120) via the first aperture (26A) and the second aperture (26B).	<p>Figure 1</p>



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(11) Patent registration No and date 1007051, 15/01/2026 (21) Appl. No. BD-P-2022-228 (22) Filed: 23/06/2022	
(23) Priority Data: India, Number :202141041388, Date : 14-09-2021.	
(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India	
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(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh	
(51) INT. CL. : B60N 2/40	
(54) Invention Title: A FRAME OF A SADDLE TYPE VEHICLE.	
(57) Abstract A saddle type vehicle (10) having a head pipe (22) and a main frame (24) extending rearwardly and downwardly from the head pipe (22) and having a first end (24A) connected to the head pipe (22) and a second end (24B). Further, a left cross tube (110) extends in a vehicle width direction and has a first toroidal section (112) configured to receive a left side frame (58A), and a second toroidal section (114). A right cross tube (120) extends in the vehicle width direction and has a first toroidal section (122) configured to receive a right side frame (58B), and a second toroidal section (124). Herein, a recess is formed between the second toroidal section (114) of the left cross tube (110) and the second toroidal section (124) of the right cross tube (120). The recess is configured to receive the second end (24B) of the main frame (24).	
	



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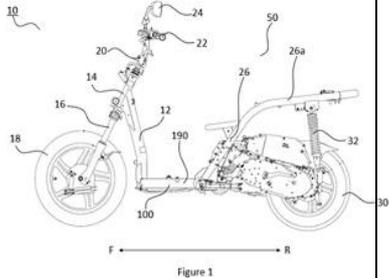
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(11) Patent registration No and date 1007056, 15/01/2026 (21) Appl. No. BD-P-2022-301 (22) Filed: 08/09/2022
(23) Priority Data: N/A
(71) Applicant: Leather Research Institute, BCSIR of Nayarhat, Savar, Dhaka-1350, Nationality -Bangladesh
(72) Inventors: (1) Md. Abdur Razzaq, Senior Scientific Officer of Leather Research Institute, BCSIR, Nayarhat, Savar, Dhaka-1350, Bangladesh Nationality -Bangladesh, (2) Dr. Md. Tushar Uddin, Senior Scientific Officer of Leather Research Institute, BCSIR, Nayarhat, Savar, Dhaka-1350, Bangladesh Nationality -Bangladesh, (3) Murshid Jaman Chowdhury- Senior Scientific Officer of Leather Research Institute, BCSIR, Nayarhat, Savar, Dhaka-1350, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A61P 31/18
(54) Invention Title: Development of a process for salt reduced preservation of raw goat skins
(57) Abstract The invention relates to a method for preserving raw goat skins which comprises of treating goat skin with mixture containing 5-20% by mass of mahogany seed crush and 20-5% by mass of sodium salt. Odor, hair slip, shrinkage temperature, moisture content, bacterial count etc. preservation related parameters were found satisfactory during a 30 days monitoring period. The chemical quality assessment parameters parameters like TDS, TSS, Chemical Oxygen Demand (COD), Biological Oxygen Demand (BOD, chloride content was found to fulfill the environmental expectations. The preserved skin was processed by using conventional leather processing techniques and physical properties were studied. The discussed preservation method exhibited comparable result in every index compared to salt based preservation.



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(11) Patent registration No and date 1007050, 15/01/2026 (21) Appl. No. BD-P-2022-308 (22) Filed: 15/09/2022
(23) Priority Data: India, Number :202141056224, Date : 03-12-2021.
(71) Applicant: TVS Motor Company Limited of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, Nationality -India
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(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2, (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh
(51) INT. CL. : B60L 53/53
(54) Invention Title: Battery Housing
(57) Abstract The present invention relates to a battery housing (100) for a vehicle (10). According to the invention, the battery housing (100) includes an integrated casing (110) having at least a first member (110a) made of metal being detachably attached to at least a second member (110b) made of metal at a predetermined junction (200), the integrated casing (110) having a front side (120) and a rear side (130); at least one front mounting hoop (210) disposed on the front side (120) of the integrated casing (110); and at least one rear mounting hoop (220) disposed on the rear side (130) of the integrated casing (110) such that the battery housing (100) is directly mounted onto a predetermined part of a vehicle (10).




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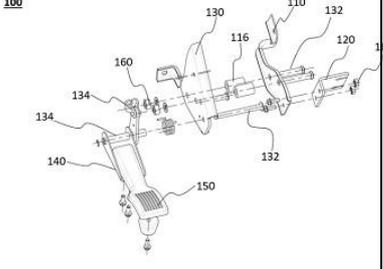
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(11) Patent registration No and date 1007055, 15/01/2026 (21) Appl. No. BD-P-2023-17 (22) Filed: 18/01/2023	
(23) Priority Data: India, Number :202231002835, Date : 18-01-2022.	
(71) Applicant: SOLAIRE INITIATIVE PRIVATE LIMITED of Plot 354, Gajapati Nagar, PO Sainik School, Bhubaneswar-751005, Odisha, Nationality -India	
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(74) Agent : Advanced IP Law Firm, Suite#9/C (9th Floor), Fahima Tower, 42-43, Purana Paltan, Dhaka-1000, Bangladesh	
(51) INT. CL. : C07D 401/14	
(54) Invention Title: AN OXYGEN MAKER WITH VARIABLE CAPACITY USING ELECTRO-CATALYST AND A PROCESS THEREOF	
(57) Abstract The present invention discloses a process of generation of oxygen with varying capacity using redox reaction operating by pneumatically coupled Oxidation of Water by Electrocatalytic reaction. The present invention discloses an oxygen maker with variable capacity using an electro-catalyst. The invention further relates to an oxygen maker with a pump system that enables to generate of oxygen with flexible capacity using a stable catalyst packet in a cost-effective manner. The apparatus for generating the oxygen comprises the housing which includes the U-shaped container and the electric source. The U-shaped container is provided for storing the reaction mixture and consists of a first circular cap configured to cover the first end and a second circular cap configured to cover the second end. The pump system is connected to the first exhaust outlet pipe that enhances oxygen generation.	<p>Fig 1</p>



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(11) Patent registration No and date 1007035, 20/11/2025 (21) Appl. No. BD-P-2023-43 (22) Filed: 06/02/2023
(23) Priority Data: India, Number :202241006654, Date : 08-02-2022.
(71) Applicant: TVS Motor Company Limited of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, Nationality -India
(72) Inventors: (0) MOSALI NAGARJUN REDDY of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (1) SRIKANTH KAANCHI MOHAN of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (2) MUTHUSANKARALINGAM SANKARALINGAM TAMILKUMARAN of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (3) ADITYA VASUDEO PARDESHI of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India
(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2 (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh
(51) INT. CL. : B62M 3/08
(54) Invention Title: “A Clutch Pedal Mounting Assembly for a Vehicle”
(57) Abstract A clutch pedal mounting assembly (100) for a vehicle (10) having a first member (110) attached to a body of the vehicle (10); a second member (120) attached to a chassis frame structure (105) of the vehicle (10) and being attached to the first member (110); and a third member (130) attached on the first member (110) and having a hinge pin (132). A bush (134) is free to rotate on the hinge pin (132). A fourth member (140) is rotatably mounted on the bush (134) and a cam (142) attached at the bush (134). A clutch pedal (150) attached to the fourth member (140), such that operation of the clutch pedal (150) causes the fourth member (140) and the bush (134) to rotate about the hinge pin (132), thereby causing the cam (142) to rotate and actuate the clutch of the vehicle (10).
 <p>Figure 1</p>



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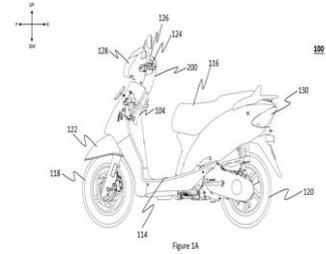
(11) Patent registration No and date 1007039, 20/11/2025	
(21) Appl. No. BD-P-2023-64	
(22) Filed: 26/02/2023	
(23) Priority Data: India, Number :202241011923, Date : 04-03-2022.	
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(74) Agent : RANA & ASSOCIATES, Nipobon Asgar Garden, 462, Green Way, Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : F16M 11/18	
(54) Invention Title: “Motor Control Unit for Electric Motor and Integrated Electric Motor-Motor Control Unit Assembly Thereof”	
(57) Abstract The present invention provides motor control unit (100) for an electric motor (202). The motor control unit (100) comprises a frame member (102) attached onto casing (204) of an electric motor (202). Power modules (106) are attached circumferentially onto an inner surface (102a) of the frame member (102). A current splitter (108) being electrically coupled to each of the power modules (106). The current splitter (108) adapted to route current from a power source to each of the power modules (106). Each of power modules (106) is adapted to generate a transformed current based on current received from current splitter (108), the transformed current from each of the power modules (106) being supplied to the electric motor (202) for actuation. Such a construction minimizes voltage drop between motor and motor control unit during current flow, while also ensuring compact layout in applications, such as a vehicle.	<p>Figure 1</p>



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(11) Patent registration No and date 1007036, 20/11/2025 (21) Appl. No. BD-P-2023-82 (22) Filed: 20/03/2023
(23) Priority Data: India, Number :202241028968, Date : 19-05-2022.
(71) Applicant:
(72) Inventors:
(74) Agent : RANA & ASSOCIATES, , Bangladesh
(51) INT. CL. : B60R 1/26
(54) Invention Title: Rear Panel Assembly for a Two-Wheeled Vehicle
(57) Abstract A rear panel assembly (200) for a handlebar of a two-wheeled vehicle such as scooter type vehicle (100) is provided. The rear panel assembly (200) comprises a rear panel (210) for housing and supporting components of the vehicle (100), and a detachable container-shaped console cover (220) for mounting and supporting a console unit (126) of the vehicle. The rear panel (210) has a viewing window (212) adapted to receive the console unit (126). The detachable console cover (220) is adapted for mounting and supporting the console unit (126). The console cover (220) is detachably mounted on the rear panel (210) through the viewing window (212). The modular construction of the rear panel assembly (200) increases designing and manufacturing efficiency and easier and quicker replacement and accommodation for different/new console units within the same rear panel for different vehicles





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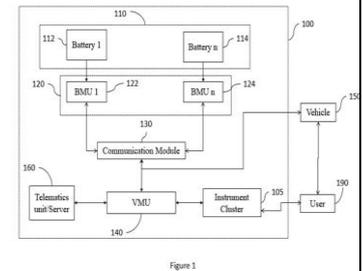
(11) Patent registration No and date 1007049, 15/01/2026 (21) Appl. No. BD-P-2023-83 (22) Filed: 20/03/2023 (23) Priority Data: India, Number :202241036844, Date : 27-06-2022. (71) Applicant: (72) Inventors: (74) Agent : RANA & ASSOCIATES, , India (51) INT. CL. : B60L 7/00 (54) Invention Title: Vehicle Status Communication System and Method (57) Abstract The invention provides vehicle status information without distractions and additional parts/equipment. A system (100) and a method (200) for communicating a vehicle status of a vehicle (190) to a user of the vehicle (190). The system (100) comprises a vehicle Bluetooth module (112) located on the vehicle (190), a smart device (120), and a wearable device (130). The vehicle Bluetooth module (112) is configured for sending vehicle information pertaining to the vehicle status to the smart device (120). The smart device (120) has a smart device data analytics module (124) configured for analysing the vehicle information received and for generating a signal based upon the analysis. The signal is sent to the wearable device (130). The wearable device (130) is configured to generate and play a specific predefined audio sound chosen from a set of predefined audio sounds for the user based upon the signal received.	
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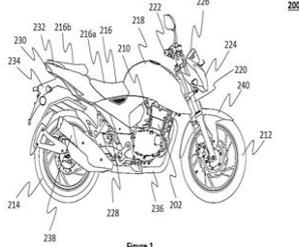
(11) Patent registration No and date 1007037, 20/11/2025 (21) Appl. No. BD-P-2023-85 (22) Filed: 20/03/2023
(23) Priority Data: India, Number :202241019770, Date : 31-03-2022.
(71) Applicant:
(72) Inventors:
(74) Agent : RANA & ASSOCIATES, , Bangladesh
(51) INT. CL. : B60L 53/65
(54) Invention Title: METHOD AND SYSTEM FOR MANAGING BATTERIES IN A VEHICLE
(57) Abstract A method and system (100) for managing a set of batteries (110) in a vehicle 150 comprising battery management units (120) for each of the batteries (110), a communication module for enabling communication within and with the system (100) and a vehicle monitoring unit (140). The battery management units (122, 124) monitoring the respective batteries (112, 114). The vehicle monitoring unit (140) receives and monitors system information data including vehicle information data from the vehicle 150 and battery information data pertaining to battery parameters of each of the batteries. The vehicle monitoring unit (140) is configured to generate a failure estimation user message based upon a comparison of the system information data and predetermined standard acceptable system information values. A server (160) is configured to process stored system information and generate a failure prediction user message. The user message is communicated to a user who is free to take action.





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(23) Priority Data: India, Number :202241041028, Date : 18-07-2022.	
(71) Applicant:	
(72) Inventors:	
(74) Agent : RANA & ASSOCIATES, , Bangladesh	
(51) INT. CL. : F02B 79/00	
(54) Invention Title: FLEXI-FUEL CONTROL UNIT FOR OPERATING INTERNAL COMBUSTION ENGINE OF VEHICLE AND METHOD OF OPERATION THEREOF	
(57) Abstract The present disclosure provides a flexi-fuel control unit (102), a system (100) and a method (500) for operating an engine (202) utilizing a flexi-fuel. The control unit (102) is configured to: receive input signals from sensors (106) and determine a fuel blending ratio (R) of the flexi-fuel. Thereafter, a modified fuel map corresponding to the determined fuel blending ratio (R) is selected, when the fuel blending ratio (R) is greater than a threshold value. A fuel supply device (204) corresponding to a fuel pulse width determined based on the modified fuel map and a spark plug (208) corresponding to a spark advance angle determined based on the modified fuel map are suitably operated, for operating the engine (202). Such a configuration ensures that vehicle (200) is capable of utilizing the flexi-fuel without the need for replacing the vehicle control unit (206).	 <p>Figure 1</p>



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(11) Patent registration No and date 1007052, 15/01/2026	
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(22) Filed: 20/03/2023	
(23) Priority Data: India, Number :202241038013, Date : 01-07-2022.	
(71) Applicant:	
(72) Inventors:	
(74) Agent : RANA & ASSOCIATES, , Bangladesh	
(51) INT. CL. : F02M 37/00	
(54) Invention Title: A FUEL INJECTION SYSTEM FOR A DIRECT INJECTION INTERNAL COMBUSTION ENGINE AND A METHOD OF CONTROL THEREOF	
(57) Abstract The present invention relates to a fuel injection system (100) for a direct injection internal combustion engine (60) and a method (200) of control thereof. The fuel injection system (100) comprises a fuel pump (110) mounted on a cylinder head (62) of the direct injection internal combustion engine (60). The fuel pump (110) is driven by a camshaft (64) of the direct injection internal combustion engine (60). The fuel injection system (100) has a fuel reservoir (130) provided in fluid communication with the fuel pump (110), wherein the fuel reservoir (130) is supported on the cylinder head (62) and is configured for storing fuel received from the fuel pump (110). Further, an injector (150) receives fuel from the fuel reservoir (130) and injects the fuel into a combustion chamber (66) of the direct injection internal combustion engine (60), wherein the injector (150) is supported on the fuel reservoir (130).	



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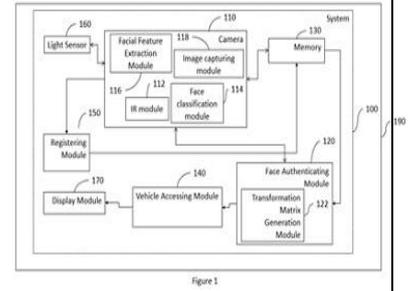
(11) Patent registration No and date 1007038, 20/11/2025 (21) Appl. No. BD-P-2023-91 (22) Filed: 22/03/2023	
(23) Priority Data: India, Number :202241034381, Date : 15-06-2022.	
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(72) Inventors: (1) DHARMAPURI NAGENDRA KUMAR of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India, India Nationality -India, (2) VEDHANAYAGAM JAYAJOTHI JOHNSON of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India, India Nationality -India, (3) PADMANABHA PILLAI LOGANAYAKAN of 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India, India Nationality -India	
(74) Agent : Md. Masum Rana, 462, Green Way, Moghbazar, Dhaka-1217, Bangladesh	
(51) INT. CL. : F02B 79/00	
(54) Invention Title: An Internal Combustion Engine	
(57) Abstract An internal combustion engine (100) is provided comprising a sensor (110) for sensing a concentration of unburnt oxygen in an exhaust of the engine (100) and a cross path (140) for passage of the gases of the exhaust of the engine (100). The sensor (110) is located directly within a flow-path (140f) of the exhaust coming out of a combustion chamber (150). The cross path (140) has a thicker path (140D) and a thinner path (140d) connected to one another to form a closed path for recirculation of exhaust gases for preheating the sensor 110. The sensor (110) is located within and at a distal end of the cross path (140) and close to the spark plug (124) on a right side of the engine. The invention reduces the response time for maintaining optimum air-fuel mixture ratio in the engine (100) and thus increasing efficiency and reducing emission.	



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<p>(11) Patent registration No and date 1007046, 15/01/2026 (21) Appl. No. BD-P-2023-187 (22) Filed: 16/07/2023 (23) Priority Data: India, Number :202241040456, Date : 14-07-2022.</p>
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<p>(74) Agent : Rana & Associates, Nipobon Asgar Garden, 462, Green Way, Flat No. A/2, (2nd Floor), Moghbazar, Dhaka-1217, Bangladesh</p>
<p>(51) INT. CL. : B60P 7/08</p>
<p>(54) Invention Title: SYSTEM AND METHOD FOR VEHICLE SECURITY</p>
<p>(57) Abstract A system (100) and method (200) for security of a vehicle (190) is provided. The system (100) comprises a camera module (110), a face authenticating module (120), a memory module (130), and a vehicle accessing module (140). The camera module (110) captures face data pertaining to a detected face and communicates to the face authenticating module (120). The face authenticating module (120) compares the face data of the detected face with registered faces of preauthorized users of the vehicle (190). A transformation matrix is generated by a transformation generation module (122) of the face authenticating module (120) to convert an average face into a front face. The memory module (130) stores the face data pertaining to the registered faces. The vehicle accessing module (140) allows access to the vehicle (190) based upon the comparison by the face authenticating module (120).</p>





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(11) Patent registration No and date 1007044, 15/01/2026 (21) Appl. No. BD-P-2024-101 (22) Filed: 08/04/2024	
(23) Priority Data: N/A	
(71) Applicant: SM Ishtiaq Ibn Salam of (House# 351/A, Rd# 27, Mohakhali DOHS, Dhaka-1206, Nationality - Bangladesh, Tasdid Tahsin of C/O - Al Hasan Ansary, Station Road, Ulipur, Munshipara, Ward No 6, Ulipur, Ulipur, Kurigram-5620, Nationality -Bangladesh, Jolok Banerjee of Manikpur, Uzanigoan, Dakshin Sunamganj, Sunamganj-3000, Nationality -Bangladesh, Md. Hemal Ishak of PA: H# 628, Word# 07, Charfassion Sadar, Bhola, Nationality - Bangladesh, Md. Burhan Uddin of Vill: Parail, Post: Proshadpur (6510), Upazila: Manda, Dist: Naogaon, Nationality - Bangladesh, Khalid Sifullah of Holding No. 35, Road No. 3, Ward 33, Satmoszid Housing, Mohammadpur, Dhaka-1207, Nationality -Bangladesh	
(72) Inventors: (0) SM Ishtiaq Ibn Salam of (House# 351/A, Rd# 27, Mohakhali DOHS, Dhaka-1206, Bangladesh Nationality -Bangladesh, (1) Tasdid Tahsin of C/O - Al Hasan Ansary, Station Road, Ulipur, Munshipara, Ward No 6, Ulipur, Ulipur, Kurigram-5620, Bangladesh Nationality -Bangladesh, (2) Jolok Banerjee of Manikpur, Uzanigoan, Dakshin Sunamganj, Sunamganj-3000, Bangladesh Nationality -Bangladesh, (3) Md. Hemal Ishak of PA: H# 628, Word# 07, Charfassion Sadar, Bhola, Bangladesh Nationality -Bangladesh, (4) Md. Burhan Uddin of Vill: Parail, Post: Proshadpur (6510), Upazila: Manda, Dist: Naogaon, Bangladesh Nationality -Bangladesh, (5) Khalid Sifullah of Holding No. 35, Road No. 3, Ward 33, Satmoszid Housing, Mohammadpur, Dhaka-1207, Bangladesh Nationality - Bangladesh	
(51) INT. CL. : B64C 39/02	
(54) Invention Title: A Voice Operated Remotely Piloted Aircraft capable of taking Voice Command in Bangla.	
(57) Abstract This invention is a process for remotely piloting an aircraft with Bangla language voice commands. Using this process, the user can remotely control the aircraft via a personal computer, handheld/wearable devices, or simply by giving a voice command directly to the aircraft. It also incorporates a Smart Virtual Assistant with a Bangla talkback feature to ensure the proper execution of given commands and to provide real-time feedback to the user. All the above features are incorporated into one user-friendly application software through proprietary code. This invention will make unmanned and remotely controlled technology more accessible to the less educated masses, visually impaired/blind community, physically challenged individuals, etc., of Bangla-speaking nations.	<p>TOP VIEW OF ROTORCRAFT FIG. 01</p>



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(11) Patent registration No and date 1007034, 20/11/2025 (21) Appl. No. BD-P-2024-145 (22) Filed: 21/05/2024
(23) Priority Data: N/A
(71) Applicant: Walton Corporation Limited of Plot: 1088, Block: i, Road: Sabrina Sobhan 5th Avenue, Bashundhara, Vatara, Dhaka-1229, Nationality -Bangladesh
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(51) INT. CL. : E21B 43/16
(54) Invention Title: <i>Coatec Series Anticorrosive Coating for Enhanced Durability.</i>
(57) Abstract A method for protecting a heat exchange system from corrosion is disclosed. The system comprises copper heat exchange tubes, aluminum microchannel components, and connecting line brazed joints. The method involves preparing the metal surfaces by cleaning to remove contaminants. A COATEC-SERIES coating solution is then applied using three distinct, substrate-specific application techniques: dipping for the copper tubes, spraying for the aluminum microchannel components, and brushing for the brazed joints. Specifically, an epoxy paint/thinner mixture (4:1) is dipped onto the copper tubes. A paint/primer mixture (2:1) is sprayed onto the aluminum components and cured naturally or force-cured. A paint/hardener mixture (2:1) is brushed onto the brazed joints and quickly cured. The resulting coating forms a durable protective barrier providing superior resistance to abrasion, turbulence, harsh chemicals, and temperature fluctuations, thereby significantly enhancing component longevity.



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(11) Patent registration No and date 1007060, 15/01/2026	
(21) Appl. No. BD-P-2024-197	
(22) Filed: 23/06/2024	
(23) Priority Data: N/A	
(71) Applicant: Professor Dr. Md. Kamruzzaman KHAN of 53 Green Tower, Flat-B/4, Green Road, P.O: New Market, P.S: Kalabagan, Dhaka-1205, Nationality -Bangladesh	
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(74) Agent : MentorIP, 501, Concord Tower, 113 Kazi Nazrul Islam Avenue,, 1000, Dhaka, Bangladesh	
(51) INT. CL. : A61B 18/14	
(54) Invention Title: BALL HEADED CAUTERY INSTRUMENT	
(57) Abstract A ball head cautery instrument (100) is disclosed comprising a ball head electrode (130), a control valve (160), and an insulated tube (140) having a first part (170) and a second part (180), wherein the first part is operably coupled to the ball head electrode to form a continuous elongated shaft and the second part is configured to arrange an electrode connection (150) and the control valve, said ball head electrode is at a distal end (120) and the control valve is at a proximal end (110) of the instrument, and the ball head electrode is configured to make contact with tissues, irrigate tissues with a fluid, and extract the residual cauterized tissues.	



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(22) Filed:	29/08/2024
(23) Priority Data:	N/A
(71) Applicant:	WALTON Corporation Limited of Plot: 1088, Block:i, Road: Sabrina Sobhan 5th Avenue, Bashundhara, P.O: Khilkhet, P.S: Vatara, Dhaka-1229, Nationality -Bangladesh
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(51) INT. CL. :	F25D 23/06
(54) Invention Title:	Automatic Service Notification for Refrigerators Utilizing IoT Data
(57) Abstract	<p>A system and method for proactive and predictive service notification for a refrigeration appliance utilizing Internet of Things (IoT) data. The invention transitions appliance service from a reactive, customer-initiated model to a data-driven, preemptive model. The system comprises an IoT module (1.2) embedded in the appliance for real-time collection of operational data (including temperature, component status, and usage metrics) and secure transmission to an IoT cloud server (1.3). An Analytical Service Module (1.4) retrieves this data and executes a two-stage analysis, including a rule-based initial scan and an advanced machine learning (ML) analysis, to identify performance degradation and predict the probability of imminent failure. Issues surpassing a confidence threshold are prioritized in a dynamic service queue. Finally, a Notification Service (1.5) automatically sends proactive service alerts to the customer, and a Customer Service Management (CSM) Web Application (1.6) enables service representatives to access detailed diagnostics, verify issues, and optimize service scheduling and technician routing based on the predicted need.</p>

Figure 01: Workflow of the Automatic Service Notification System

