

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. ২৭৮

তারিখ: ১৯/১১/২০২৫ খ্রি।

বিষয়: মঞ্চুরকৃত পেটেন্ট আবেদনসমূহ প্রকাশ

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, অধিদপ্তরে দাখিলকৃত পেটেন্ট আবেদনসমূহের মধ্যে ৪৮ (আটচলিশ)টি পেটেন্ট (২০২১ সালের পেটেন্ট আবেদন নং-৩৪৬, ৩৫৬, ৩৬৭, ৩৬৮, ৮২৭, ৮২৮; ২০২২ সালের পেটেন্ট আবেদন নং-২৮, ৮৮, ৫১, ৫৯, ৭৭, ৭৯, ৯৪, ৯৯, ১১১, ১১৯, ১৪১, ১৪২, ১৪৯, ১৫৯, ১৬১, ১৭৯, ১৮৪, ২৫৭, ২৬৬, ২৭৩, ২৭৬, ২৭৮, ৩০৯, ৩৫৩, ৩৫৭, ৩৯২; ২০২৩ সালের পেটেন্ট আবেদন নং-৪, ২৮, ২৯, ৭০, ৯৯, ১৫০, ১৭০, ১৮৯, ২৯৫; ২০২৪ সালের পেটেন্ট আবেদন নং- ২৭, ৮৮, ১১১, ১৯৫, ২৮৩, ২৮৪, ৩৬৭) মঞ্চুর করা হয়েছে। মঞ্চুরকৃত উক্ত পেটেন্ট আবেদনসমূহ বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ২৪(২)(ক) মোতাবেক প্রকাশ করা হলো।

সংযুক্তি: ৪৮ (আটচলিশ) পাতা।


মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

অনুলিপি:

- ১। পরিচালক (সকল), পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর, ঢাকা।
- ২। সিটেম 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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Publication of Granted Patent
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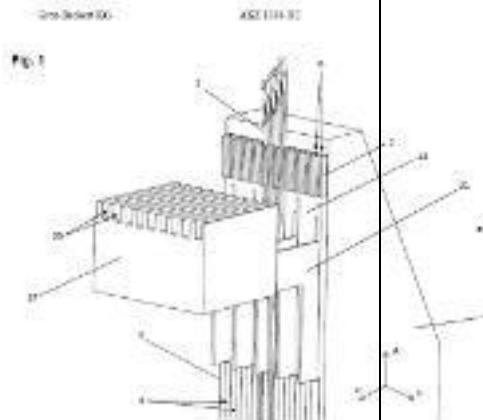
<p>(11) Patent registration No and date 1007015, 27/10/2025 (21) Appl. No. BD-P-2021-346 (22) Filed: 24/10/2021 (23) Priority Data: India, Number :202111006732, Date : 18-02-2021. (71) Applicant: Lohia Corp Limited of D-3/A, Panki Industrial Estate, 208022, Kanpur, Nationality -India (72) Inventors: (0) Gaurav Lohia of D-3/A, Panki, Industrial Estate, 208022, Kanpur, India Nationality -India (74) Agent : APT IP LAW AGENCY BD. , {appRepresentativeAddress}, Bangladesh (51) INT. CL. : D03J 1/00 (54) Invention Title: A Woven Fabric, A Method Of Making It And A Process Of Making A Bag From It, And A Bag Made From It</p> <p>(57) Abstract The invention discloses a woven fabric (1A) made from bast yarn and bast compatible non-bast yarn, its method of manufacturing and a sack/bag from such fabric. The woven fabric (1A) of invention is made from bast yarn (3A) and bast-compatible non bast yarn (2A, 2B) to make sacks/bags (1) for packaging applications, especially for perishable goods/ commodities. A key feature of the invention is that the fabric (1A) is made using relatively heavy denier bast yarn (3A) on a flat loom. This avoids the fluff and particulate matter generated during weaving process on a circular loom, which cannot work with the heavy denier yarn used in the present invention. The woven fabric (1A) manufactured using the method and materials disclosed here is more robust and durable than the fabric manufactured on a circular loom. The invention also discloses a bag (1) made from the woven fabric (1A) and a process of making a bag (1) that uses an L-stitch or two longitudinal side stitched (1M), or a U-shaped stitch (1N).</p>	
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(11) Patent registration No and date 1007013, 27/10/2025
(21) Appl. No. BD-P-2021-356
(22) Filed: 31/10/2021
(23) Priority Data: Germany, Number :1020201286600, Date : 30-10-2020.
(71) Applicant: Groz-Beckert KG of Parkweg 2, 72458 Albstadt, Nationality -Germany
(72) Inventors: (0) WORNLE, Martin of Edelmannsweg 38, 72116 Mössingen, Germany Nationality -Germany, (1) Settegast, Markus of Fleiner Str. 9, 72351 Geislingen, Germany Nationality -Germany
(74) Agent : RANA & ASSOCIATES, {app_representative_address}, Bangladesh
(51) INT. CL. : D04B 7/00
(54) Invention Title: Knitting system and needle for knitting machines
(57) Abstract A knitting system 18 and a needle 1, which show greater stability and consume less power during the knitting process, comprise a bending portion 9 in which at least one recess 11 is arranged at at least one lateral surface 23 of the needle 1 and/or is formed in such a manner that a shaft offset S exists, in peripheral direction U, between a working portion 10 of the needle 1 and a shank portion 8 of the needle 1.





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(11) Patent registration No and date 1007012, 27/10/2025
(21) Appl. No. BD-P-2021-367
(22) Filed: 09/11/2021
(23) Priority Data: European Patent Office (EPO), Number :202067401, Date : 10-11-2020.
(71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland
(72) Inventors: (0) PITTEL, Hervé of Chemin de Montmoirin 14, 1618 Châtel-St-Denis, Switzerland Nationality - Switzerland, (1) DEMARTIN MAEDER, Marlyse of Chemin des Bosquets 5, 1315 La Sarraz, Switzerland Nationality - Switzerland, (2) VEYA, Patrick of Ruelle du Bout-du-Coin 6a, 1123 Aclens, Switzerland Nationality -Switzerland, (3) Nikolay Grigorenko of Hintere Dammstrasse 23, 4313 Möhlin, Switzerland Nationality -Russian Federation, (4) Andre Oswald of Augsterstrasse 8, 79689 Rheinfelden, Germany Nationality -Germany
(74) Agent : Advanced IP Law Firm , {app_representative_address}, Bangladesh
(51) INT. CL. : B42D 25/30
(54) Invention Title: UV-VIS RADIATION CURABLE SECURITY INK FOR PRODUCING A SECURITY FEATURE
(57) Abstract The present invention provides a UV-Vis radiation curable security ink for producing a security feature for securing value documents, wherein said security feature exhibits a blue color upon viewing in transmitted light and a metallic yellow color upon viewing in incident light. The UV-Vis radiation curable security ink comprises a cationically curable or a hybrid curable ink vehicle, and silver nanoplatelets bearing a surface stabilizing agent of general formula (I) (I), wherein the residue RA is a C2-C4alkyl group substituted with a hydroxy group; the residue RB is selected from a C1-C4 alkyl group, and a C2-C4alkyl group substituted with a hydroxy group; and Cat+ is a cation selected from the group consisting of Na+, K+, Cs+ and Rb+.



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<p>(11) Patent registration No and date 1007002, 26/10/2025 (21) Appl. No. BD-P-2021-368 (22) Filed: 09/11/2021 (23) Priority Data: European Patent Office (EPO), Number :202067948, Date : 10-11-2020. (71) Applicant: SICPA HOLDING SA of Avenue de Florissant 41 1008 Prilly, Nationality -Switzerland (72) Inventors: (0) PITTEL, Hervé of Chemin de Montmoirin 14, 1618 Châtel-St-Denis, Switzerland Nationality - Switzerland, (1) DEMARTIN MAEDER, Marlyse of Chemin des Bosquets 5, 1315 La Sarraz, Switzerland Nationality - Switzerland, (2) VEYA, Patrick of Ruelle du Bout-du-Coin 6a, 1123 Aclens, Switzerland Nationality -Switzerland, (3) Nikolay Grigorenko of Hintere Dammstrasse 23, 4313 Möhlin, Switzerland Nationality -Russian Federation, (4) Andre Oswald of Augsterstrasse 8, 79689 Rheinfelden, Germany Nationality -Germany (74) Agent : Md. Masum Rahman , Advocate , {app_representative_address}, Bangladesh (51) INT. CL. : B42D / (54) Invention Title: A UV-VIS RADIATION CURABLE SECURITY INK FOR PRODUCING A SECURITY FEATURE EXHIBITING A BLUE COLOR UPON VIEWING IN TRANSMITTED LIGHT AND A METALLIC YELLOW COLOR UPON VIEWING INCIDENT LIGHT (57) Abstract The present invention provides a UV-Vis radiation curable security ink for producing a security feature for securing value documents, wherein said security feature exhibits a blue color upon viewing in transmitted light and a metallic yellow color upon viewing in incident light. The UV-Vis radiation curable security ink comprises a cationically curable or a hybrid curable ink vehicle, and silver nanoplatelets bearing a surface stabilizing agent of general formula (I) (I), wherein the residue RA is a C2-C4alkyl group substituted with a hydroxy group; the residue RB is selected from a C1-C4alkyl group, and a C2-C4alkyl group substituted with a hydroxy group; and Cat+ is an ammonium cation of general formula +NH2RCRD, wherein the residue RC is a C2-C4alkyl group substituted with a hydroxy group; and the residue RD is selected from a C1-C4alkyl group, and a C2-C4alkyl group substituted with a hydroxy group.</p>



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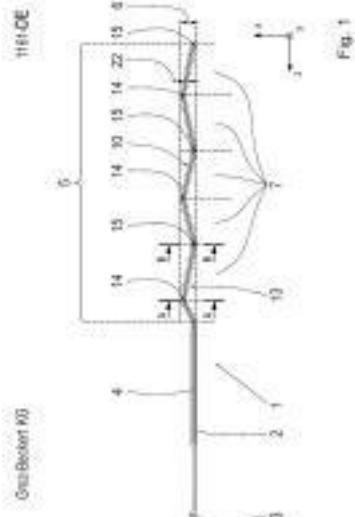
<p>(11) Patent registration No and date 1007014, 27/10/2025 (21) Appl. No. BD-P-2021-427 (22) Filed: 15/12/2021 (23) Priority Data: European Patent Office (EPO), Number :202146635, Date : 16-12-2020. (71) Applicant: Groz-Beckert KG of Parkweg 2, 72458 Albstadt, Nationality -Germany (72) Inventors: (0) Kai-Uwe HAUG of Bärastraße 22, 72362 Nusplingen, Germany Nationality -Germany, (1) Bernd Eugen HILLENBRAND of Heilig-Brünkle-Straße 104, 72461 Albstadt Truchelfingen, Germany Nationality -Germany, (2) Florian PEROTTI of Gasse 32, 72519 Veringenstadt, Germany Nationality -Germany (74) Agent : RANA & ASSOCIATES, {appRepresentativeAddress}, Bangladesh (51) INT. CL. : D05B 55/10 (54) Invention Title: Sewing machine needle with recess (57) Abstract A sewing machine needle (1) is described, which reduces the friction between the blade (2) of the sewing machine needle (1) and the fabric and which can be manufactured economically in large numbers. The sewing machine needle (1) comprises a needle eye (3) and at least one recess (5), wherein the distance between an upper edge (6) of the recess (5) and the lateral position of the axis (12) of the needle eye (3) differs from the distance between a lower edge (7) of the recess (5) and the lateral position of the axis (12) of the needle eye (3).</p>



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<p>(11) Patent registration No and date 1007007, 27/10/2025 (21) Appl. No. BD-P-2021-428 (22) Filed: 15/12/2021</p> <p>(23) Priority Data: Germany, Number :1020211190118, Date : 22-07-2021. and European Patent Office (EPO), Number :202147427, Date : 16-12-2020.</p> <p>(71) Applicant: Groz-Beckert KG of Parkweg 2, 72458 Albstadt, Nationality -Germany</p> <p>(72) Inventors: (0) SAUTER, JORG of Grimmelshausenstrasse 19 72458 Albstadt, Germany Nationality -Germany, (1) SIMMENDINGER, ROLAND of Sageweg 8 72479 Strassberg, Hohenzollern, Germany Nationality -Germany</p> <p>(74) Agent : RANA & ASSOCIATES, {appRepresentativeAddress}, Bangladesh</p> <p>(51) INT. CL. : D04B 35/02</p> <p>(54) Invention Title: Knitting tool</p> <p>(57) Abstract In recent years, development in the field of knitting tools has seen a focus on the reduction of friction and wear. A knitting tool (1) according to the invention and a knitting device (27) according to the invention are better able to reduce friction in knitting machines and the accumulation of dirt (23) than conventional knitting tools. For this purpose, a functional portion (5) of the knitting tool (1) has subsections (7) in which the absolute value of the gradient of a centre-of-gravity line (4) is greater than zero.</p>

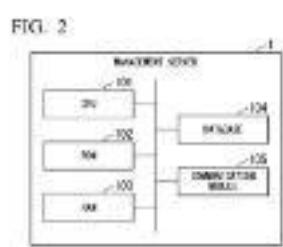
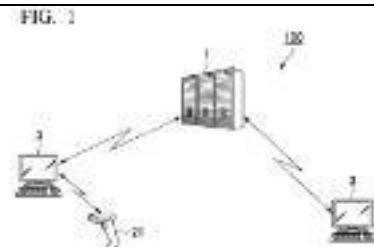




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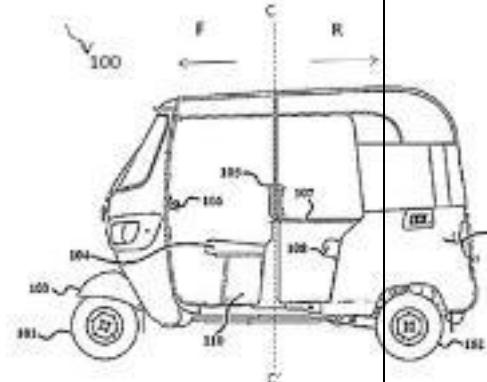
<p>(11) Patent registration No and date 1007008, 27/10/2025 (21) Appl. No. BD-P-2022-28 (22) Filed: 01/02/2022 (23) Priority Data: Japan, Number :2021003856, Date : 03-02-2021. (71) Applicant: HONDA MOTOR CO., LTD of 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Nationality -Japan (72) Inventors: (0) Yuki FURUKAWA of c/o HONDA MOTOR CO., LTD, 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Nationality -Japan, (1) Akira MIYAZAKI of c/o HONDA MOTOR CO., LTD, 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Nationality -Japan, (2) Toshikatsu DEI of c/o HONDA MOTOR CO., LTD, 1-1, Minami-Aoyama 2-chome, Minato-ku, Tokyo 107-8556, Japan Nationality -Japan (74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh (51) INT. CL. : G05B 19/418 (54) Invention Title: PRODUCTION APPARATUS AND METHOD FOR ASSEMBLED PRODUCTS BASED ON PACKED OBJECTS INFORMATION (57) Abstract The management system acquires packed objects information including at least invoice information and a list of the parts included in the packed objects, the invoice information being an information related to a transportation of packed objects including parts of assembled products. The management system outputs a production plan confirmation screen that shows at least a producible volume of the assembled products based on the list of the parts included in the packed objects information, and a production volume of the assembled products in a production work unit period based on a previously stored production plan. The management system changes a display aspect related to the production volume on the basis of a magnitude relation between the producible volume and the production volume in the production work unit period.</p>





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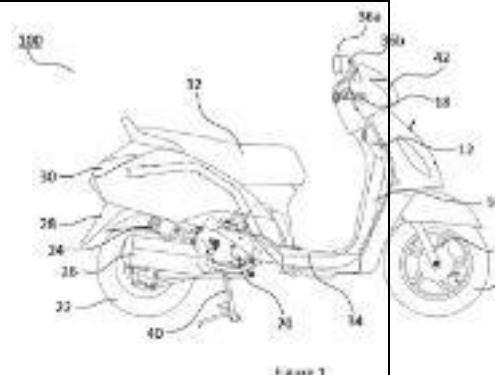




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<p>(11) Patent registration No and date 1006979, 14/10/2025 (21) Appl. No. BD-P-2022-51 (22) Filed: 17/02/2022</p> <p>(23) Priority Data: India, Number :202141010983, Date : 15-03-2021.</p> <p>(71) Applicant: TVS Motor Company Limited of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, Nationality -India</p> <p>(72) Inventors: (0) Rahul Nandagavi of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (1) Amardeep Kumar of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (2) K Keshav Datt of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (3) TP Suresh of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India, (4) Datta Rajaram Sagare of “Chaitanya”, No. 12 Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Tamil Nadu, India Nationality -India</p> <p>(74) Agent : Rana & Associates , {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : B62D 63/02</p> <p>(54) Invention Title: AN ONBOARD DIAGNOSTIC UNIT ARRANGEMENT FOR A TWO WHEELERS.</p> <p>(57) Abstract The present invention relates to diagnostic systems in motor vehicles. Accordingly, the present invention discloses a motor vehicle having a diagnostic port (200) mounted on a vehicle component, the diagnostic port (200) being directly accessible by a user to obtain status of various vehicle sub-systems. In an embodiment of the invention, the vehicle component comprises a utility box (38) disposed below a seat (32), whereby the diagnostic port (200) mounted inside the utility box (38) and accessible by opening the seat (32). In further embodiments of the invention, the vehicle component is either a glove box or a handlebar or a floorboard.</p>

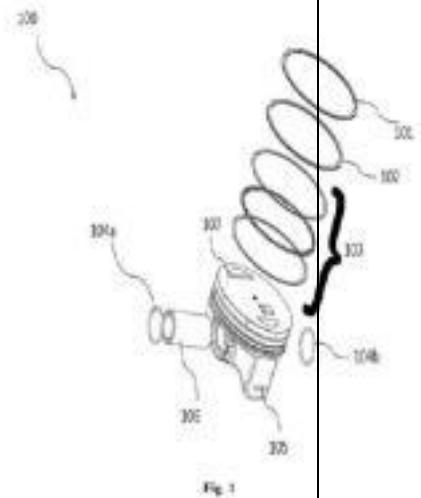




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<p>(11) Patent registration No and date 1007025, 05/11/2025 (21) Appl. No. BD-P-2022-59 (22) Filed: 23/02/2022 (23) Priority Data: India, Number :202141015357, Date : 31-03-2021.</p> <p>(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India., Nationality -India</p> <p>(72) Inventors: (0) Sumith JOSEPH of Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India, (1) Mohan D UIMATE of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, INDIA, India Nationality - India, (2) Jayajothi JOHNSON of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India, (3) SIVARAMAKRISHNAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India, (4) Biswa RANJAN DAS of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India, (5) Chakradhar VUTUKURI of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, INDIA, India Nationality -India</p> <p>(74) Agent : MD. ZAHIRUL ISLAM, ADVOCATE, {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : F02B 79/00</p> <p>(54) Invention Title: INTERNAL COMBUSTION ENGINE</p> <p>(57) Abstract The present invention discloses a piston assembly (100) for an internal combustion engine. The piston assembly includes one or more gas port (110) inclinedly disposed with respect to mid plane sliding axis of the piston assembly (100), ensuring reduced tangential load for sealing 5 combustion gas and thereby reduce friction also.</p>





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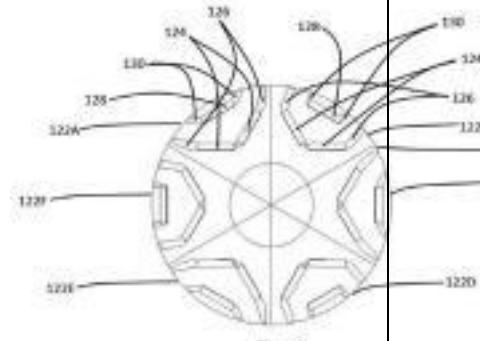
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(23) Priority Data: Switzerland, Number :213821804, Date : 04-03-2021.
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(51) INT. CL. : D06P 3/872
(54) Invention Title: FORMALDEHYDE-FREE, AQUEOUS COMPOSITION FOR DISCHARGE PRINTING OF DYED FABRIC
(57) Abstract The present invention relates to a composition for discharge printing of fabric, a discharge printing process for printing said composition to the fabric, the use of the composition for discharge printing and to a fabric treated with the composition in a discharge printing process according to the invention



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<p>(11) Patent registration No and date 1006992, 14/10/2025 (21) Appl. No. BD-P-2022-79 (22) Filed: 06/03/2022 (23) Priority Data: India, Number :202141009890, Date : 09-03-2021. (71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India., Nationality -India (72) Inventors: (0) SREEJU S NAIR of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (1) SOURABH CHOUDHARY of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (2) ANKAN DEY of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, Nationality- Indian, India Nationality -India, (3) V JAYAJOTIDJOHNSON of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India (74) Agent : MD. ZAHIRUL ISLAM, ADVOCATE, {app_representative_address}, Bangladesh (51) INT. CL. : F01C 1/00 (54) Invention Title: A ROTARY ELECTRICAL MACHINE (57) Abstract A rotary electrical machine (100) having a stator (110) with a plurality of slots (112) for winding, and a rotor (120) having an even number of magnetic poles (122). The rotor is (120) rotatably engaged with the stator (110). Each of the magnetic poles (122) comprise at least three magnets, wherein a first set (124) of at least two magnets are arranged in a substantially V-shaped configuration and a second set (128) of at least one magnet is arranged between the first set (124) of magnets and an outer periphery (132) of the rotor (120). Further, at least one flux barrier (126) positioned between the first set (124) of magnets and the outer periphery (132) of the rotor (120), and at least one flux barrier (130) positioned between the second set (128) of magnets and the outer periphery (132) of the rotor (120).</p>

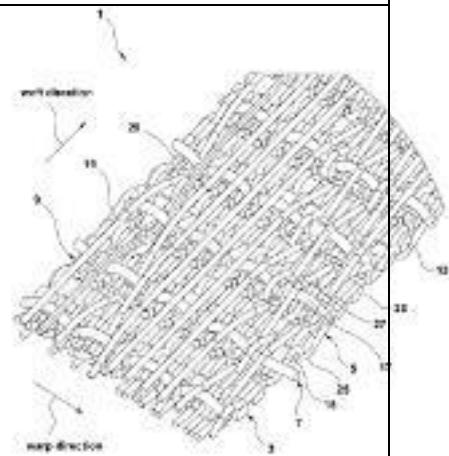




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European Patent Office (EPO), Number :211617857, Date : 10-03-2021.	
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(51) INT. CL. : D03D 3/00	
(54) Invention Title: DURABLE AND FLEXIBLE A WOVEN FABRIC	
(57) Abstract	
<p>The invention relates to a woven fabric, in particular denim fabric, comprising a base weave comprising base warp yarns and base weft yarns, a loop weave comprising anchor yarns and loop yarns extending orthogonal to the anchor yarns, and a frontside and a backside, wherein each of the base warp yarns, base weft yarns, anchor yarns and loop yarns has a front facing the frontside and a back facing the backside, wherein each anchor yarn comprises at least one under portion extending on the back of at least one of the base warp yarns or weft yarns and two over portions confining the at least one anchor yarn under portion and connecting it with the base weave by extending on the front of at least one of the base warp yarns or weft yarns, and wherein each loop yarn comprises at least one under portion extending on the back of at least one of the anchor yarns and two over portions confining the at least one loop yarn under portion and extending on the front of at least one of the anchor yarns, and wherein the at least one anchor yarn under portion and loop yarn under portion extend in between their confining over portions on the back of at least five yarns.</p>	
<img alt="A technical drawing of a woven fabric structure. It shows a front view with a grid of lines representing the weave. Labels indicate 'warp direction' pointing vertically and 'weft direction' pointing horizontally. Specific parts of the fabric are labeled with numbers 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 579, 580, 581, 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764, 765, 766, 767, 768, 769, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 999, 1000, 1001, 1002, 1003, 1004, 1005, 1006, 1007, 1008, 1009, 1009, 1010, 1011, 1012, 1013, 1014, 1015, 1016, 1017, 1018, 1019, 1019, 1020, 1021, 1022, 1023, 1024, 1025, 1026, 1027, 1028, 1029, 1029, 1030, 1031, 1032, 1033, 1034, 1035, 1036, 1037, 1038, 1039, 1039, 1040, 1041, 1042, 1043, 1044, 1045, 1046, 1047, 1048, 1049, 1049, 1050, 1051, 1052, 1053, 1054, 1055, 1056, 1057, 1058, 1059, 1059, 1060, 1061, 1062, 1063, 1064, 1065, 1066, 1067, 1068, 1069, 1069, 1070, 1071, 1072, 1073, 1074, 1075, 1076, 1077, 1078, 1078, 1079, 1080, 1081, 1082, 1083, 1084, 1085, 1086, 1087, 1088, 1088, 1089, 1090, 1091, 1092, 1093, 1094, 1095, 1096, 1097, 1097, 1098, 1099, 1099, 1100, 1101, 1102, 1103, 1104, 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1404, 1405, 1406, 1407, 1408, 1408, 1409, 1410, 1411, 1412, 1413, 1414, 1415, 1416, 1417, 1418, 1419, 1419, 1420, 1421, 1422, 1423, 1424, 1425, 1426, 1427, 1428, 1429, 1429, 1430, 1431, 1432, 1433, 1434, 1435, 1436, 1437, 1438, 1439, 1439, 1440, 1441, 1442, 1443, 1444, 1445, 1446, 1447, 1448, 1449, 1449, 1450, 1451, 1452, 1453, 1454, 1455, 1456, 1457, 1458, 1459, 1459, 1460, 1461, 1462, 1463, 1464, 1465, 1466, 1467, 1468, 1469, 1469, 1470, 1471, 1472, 1473, 1474, 1475, 1476, 1477, 1478, 1478, 1479, 1480, 1481, 1482, 1483, 1484, 1485, 1486, 1487, 1488, 1488, 1489, 1490, 1491, 1492, 1493, 1494, 1495, 1496, 1497, 1497, 1498, 1499, 1499, 1500, 1501, 1502, 1503, 1504, 1505, 1506, 1507, 1508, 1508, 1509, 1510, 1511, 1512, 1513, 1514, 1515, 1516, 1517, 1518, 1519, 1519, 1520, 1521, 1522, 1523, 1524, 1525, 1526, 1527, 1528, 1529, 1529, 1530, 1531, 1532, 1533, 1534, 1535, 1536, 1537, 1538, 1539, 1539, 1540, 1541, 1542, 1543, 1544, 1545, 1546, 1547, 1548, 1549, 1549, 1550, 1551, 1552, 1553, 1554, 1555, 1556, 1557, 1558, 1559, 1559, 1560, 1561, 1562, 1563, 1564, 1565, 1566, 1567, 1568, 1569, 1569, 1570, 1571, 1572, 1573, 1574, 1575, 1576, 1577, 1578, 1578, 1579, 1580, 1581, 1582, 1583, 1584, 1585, 1586, 1587, 1588, 1588, 1589, 1590, 1591, 1592, 1593, 1594, 1595, 1596, 1597, 1597, 1598, 1599, 1599, 1600, 1601, 1602, 1603, 1604, 1605, 1606, 1607, 1608, 1608, 1609, 1610, 1611, 1612, 1613, 1614, 1615, 1616, 1617, 1618, 1619, 1619, 1620, 1621, 1622, 1623, 1624, 1625, 1626, 1627, 1628, 1629, 1629, 1630, 1631, 1632, 1633, 1634, 1635, 1636, 1637, 1638, 1639, 1639, 1640, 1641, 1642, 1643, 1644, 1645, 1646, 1647, 1648, 1649, 1649, 1650, 1651, 1652, 1653, 1654, 1655, 1656, 1657, 1658, 1659, 1659, 1660, 1661, 1662, 1663, 1664, 1665, 1666, 1667, 1668, 1669, 1669, 1670, 1671, 1672, 1673, 1674, 1675, 1676, 1677, 1678, 1678, 1679, 1680, 1681, 1682, 1683, 1684, 1685, 1686, 1687, 1688, 1688, 1689, 1690, 1691, 1692, 1693, 1694, 1695, 1696, 1697, 1697, 1698, 1699, 1699, 1700, 1701, 1702, 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1853, 1854, 1855, 1856, 1857, 1858, 1859, 1859, 1860, 1861, 1862, 1863, 1864, 1865, 1866, 1867, 1868, 1869, 1869, 1870, 1871, 1872, 1873, 1874, 1875, 1876, 1877, 1878, 1878, 1879, 1880, 1881, 1882, 1883, 1884, 1885, 1886, 1887, 1888, 1888, 1889, 1890, 1891, 1892, 1893, 1894, 1895, 1896, 1897, 1897, 1898, 1899, 1899, 1900, 1901, 1902, 1903, 1904, 1905, 1906, 1907, 1908, 1908, 1909, 1910, 1911, 1912, 1913, 1914, 1915, 1916, 1917, 1918, 1919, 1919, 1920, 1921, 1922, 1923, 1924, 1925, 1926, 1927, 1928, 19	



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<img alt="Technical drawing of a vehicle housing unit 200, showing a side view of the vehicle 100 with the housing unit 200 attached below the frame assembly 105. Various components are labeled with reference numerals: 100, 105, 110, 115, 120, 125, 130, 135, 140, 145, 150, 155, 160, 165, 170, 175, 180, 185, 190, 195, 200, 210, 220, 230, 240, 250, 260, 270, 280, 290, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3600, 3610, 3620, 3630, 3640, 3650, 3660, 3670, 3680, 3690, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3700, 3710, 3720, 3730, 3740, 3750, 3760, 3770, 3780, 3790, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3800, 3810, 3820, 3830, 3840, 3850, 3860, 3870, 3880, 3890, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 3900, 3910, 3920, 3930, 3940, 3950, 3960, 3970, 3980, 3990, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4000, 4010, 4020, 4030, 4040, 4050, 4060, 4070, 4080, 4090, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4100, 4110, 4120, 4130, 4140, 4150, 4160, 4170, 4180, 4190, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4200, 4210, 4220, 4230, 4240, 4250, 4260, 4270, 4280, 4290, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4300, 4310, 4320, 4330, 4340, 4350, 4360, 4370, 4380, 4390, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4400, 4410, 4420, 4430, 4440, 4450, 4460, 4470, 4480, 4490, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4500, 4510, 4520, 4530, 4540, 4550, 4560, 4570, 4580, 4590, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4600, 4610, 4620, 4630, 4640, 4650, 4660, 4670, 4680, 4690, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4700, 4710, 4720, 4730, 4740, 4750, 4760, 4770, 4780, 4790, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4800, 4810, 4820, 4830, 4840, 4850, 4860, 4870, 4880, 4890, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 4900, 4910, 4920, 4930, 4940, 4950, 4960, 4970, 4980, 4990, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5000, 5010, 5020, 5030, 5040, 5050, 5060, 5070, 5080, 5090, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5100, 5110, 5120, 5130, 5140, 5150, 5160, 5170, 5180, 5190, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5200, 5210, 5220, 5230, 5240, 5250, 5260, 5270, 5280, 5290, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5300, 5310, 5320, 5330, 5340, 5350, 5360, 5370, 5380, 5390, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5400, 5410, 5420, 5430, 5440, 5450, 5460, 5470, 5480, 5490, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5500, 5510, 5520, 5530, 5540, 5550, 5560, 5570, 5580, 5590, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5600, 5610, 5620, 5630, 5640, 5650, 5660, 5670, 5680, 5690, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5700, 5710, 5720, 5730, 5740, 5750, 5760, 5770, 5780, 5790, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 5880, 5890, 5800, 5810, 5820, 5830, 5840, 5850, 5860, 5870, 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6740, 6750, 6760, 6770, 6780, 6790, 6700, 6710, 6720, 6730, 6740, 6750, 6760, 6770, 6780, 6790, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6800, 6810, 6820, 6830, 6840, 6850, 6860, 6870, 6880, 6890, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 6900, 6910, 6920, 6930, 6940, 6950, 6960, 6970, 6980, 6990, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7000, 7010, 7020, 7030, 7040, 7050, 7060, 7070, 7080, 7090, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7100, 7110, 7120, 7130, 7140, 7150, 7160, 7170, 7180, 7190, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7200, 7210, 7220, 7230, 7240, 7250, 7260, 7270, 7280, 7290, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7300, 7310, 7320, 7330, 7340, 7350, 7360, 7370, 7380, 7390, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7400, 7410, 7420, 7430, 7440, 7450, 7460, 7470, 7480, 7490, 7500, 7510, 7520, 7530, 7540, 7550, 7560, 7570, 7580, 7590, 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8360, 8370, 8380, 8390, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8470, 8480, 8490, 8400, 8410, 8420, 8430, 8440, 8450, 8460, 8470, 8480, 8490, 8500, 8510, 8520, 8530, 8540, 8550, 8560, 8570, 8580, 8590, 8500, 8510, 8520, 8530, 8540, 8550, 8560, 8570, 8580, 8590, 8600, 8610, 8620, 8630, 8640, 8650, 8660, 8670, 8680, 8690, 8600, 8610, 8620, 8630, 8640, 8650, 8660, 8670, 8680, 8690, 8700, 8710, 8720, 8730, 8740, 8750, 8760, 8770, 8780, 8790, 8700, 8710, 8720, 8730, 8740, 8750, 8760, 8770, 8780, 8790, 8800, 8810, 8820, 8830, 8840, 8850, 8860, 8870, 8880, 8890, 8800, 8810, 8820, 8830, 8840, 8850, 8860, 8870, 8880, 8890, 8900, 8910, 8920, 8930, 8940, 8950, 8960, 8970, 8980, 8990, 8900, 8910, 8920, 8930, 8940, 8950, 8960, 8970, 8980, 8990, 9000, 9010, 9020, 9030, 9040, 9050, 9060, 9070, 9080, 9090, 9000, 9010, 9020, 9030, 9040, 9050, 9060, 9070, 9080, 9090, 9100, 9110, 9120, 9130, 9140, 9150, 9160, 9170, 9180, 9190, 9100, 9110, 9120, 9130, 9140, 9150, 9160, 9170, 9180, 9190, 9200, 9210, 9220, 9230, 9240, 9250, 9260, 9270, 9280, 9290, 9200, 9210, 9220, 9230, 9240, 9250, 9260, 9270, 9280, 9290, 9300, 9310, 9320, 9330, 9340, 9350, 9360, 9370, 9380, 9390, 9300, 9310, 9320, 9330, 9340, 9350, 9360, 9370, 9380, 9390, 9400, 9410, 9420, 9430, 9440, 9450, 9460, 9470, 9480, 9490, 9400, 9410, 9420, 9430, 9440, 9450, 9460, 9470, 9480, 9490, 9500, 9510, 9520, 9530, 9540, 9550, 9560, 9570, 9580, 9590, 9500, 9510, 9520, 9530, 9540, 9550, 9560, 9570, 9580, 9590, 9600, 9610, 9620, 9630, 9640, 965



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(51) INT. CL. : B60R 1/24
(54) Invention Title: FRONT COWL ASSEMBLY OF A VEHICLE
(57) Abstract A front cowl assembly (101) of a vehicle (100) is disclosed comprising a front panel (102) and a rear panel (103) enclosing a head pipe (201) of the vehicle in a space (204) between them, at least one vehicle component (203) disposed in the space (204) and configured to be mounted to the head pipe (201), and a support bracket (205) removably attached to the at least one vehicle component (203) for mounting the front panel (102). A bottom section (102e) of the front panel is hingedly coupled with a jaw member (507) of the support bracket (205) and a top section (102d) of the front panel is removably attached to the rear panel (103) at one or more mounting locations (304). The support bracket (205) is rigid and has mounting provisions for other components reducing number of fasteners and brackets to be accommodated in the front cowl assembly.
<img alt="Front view of a vehicle front cowl assembly showing the front panel (102), rear panel (103), head pipe (201), and support bracket (205). Various components are labeled with reference numerals 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 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784, 785, 786, 787, 788, 789, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 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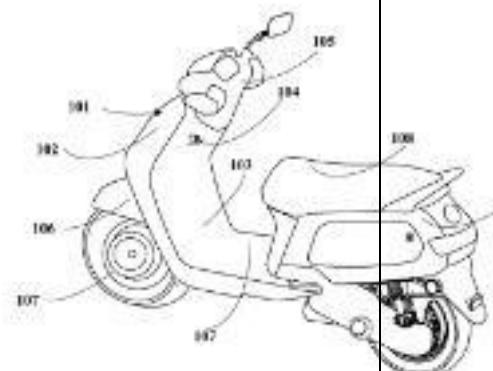


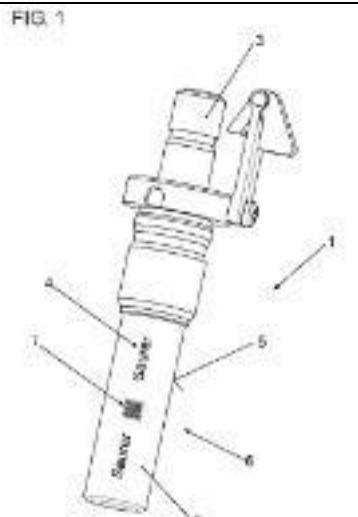
Fig. 1



গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
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<p>(11) Patent registration No and date 1007001, 26/10/2025 (21) Appl. No. BD-P-2022-119 (22) Filed: 24/03/2022 (23) Priority Data: Germany, Number :1020211094283, Date : 15-04-2021. (71) Applicant: Saurer Spinning Solutions GmbH & Co. KG of Carlstr. 60, 52531 Uebach -Palenberg, Nationality - Germany (72) Inventors: (0) Frey, Peter of Kappstr. 16, 70619 Stuttgart , Germany Nationality -Germany, (1) Wolf, Sven of Erhardstr. 24, 73525 Schwäbisch Gmünd, Germany Nationality -Germany, (2) Schaffrin, Simon of Bühlstr. 26, 73630 Remshalden, Germany Nationality -Germany (74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh (51) INT. CL. : D01H 13/32 (54) Invention Title: A method for providing component information on a spindle assembly for spinning or twisting machines (57) Abstract The invention relates to a textile machine component, more particularly a spindle assembly having a spindle and a bearing housing, and to a method for providing component information on a textile machine component, more particularly on a spindle assembly for spinning or twisting machines, said spindle assembly having a spindle and a bearing housing. In order to provide a method which ensures that component information is permanently and reliably provided on a plastic-covered textile machine component, more particularly a spindle assembly for spindle machines or twisting machines, it is provided that the textile machine component, more particularly the bearing housing of the spindle assembly, is at least partly sheathed with a heat-shrinkable plastic sheath, which provides the component information and which is shrunk onto the textile machine component, more particularly onto the outer surface of the bearing housing. In order to provide a plastic-covered textile machine component, more particularly a spindle assembly, having component information which can be reliably captured, it is provided that a plastic sheath providing component information is shrunk onto at least a portion of the textile machine component, more particularly onto the outer surface of the bearing housing.</p>

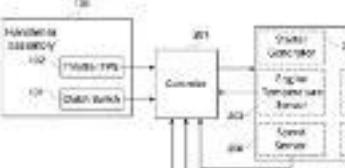




গণপ্রজাতন্ত্রী বাংলাদেশ সরকার

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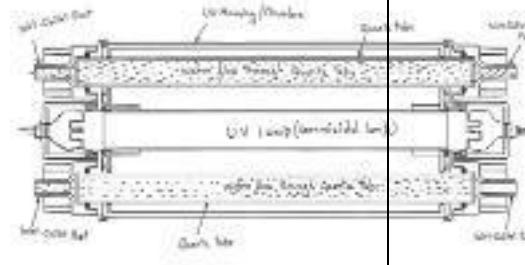
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(51) INT. CL. : F01N 3/18	
(54) Invention Title: A SYSTEM AND METHOD TO CONTROL OPERATION OF AN ENGINE	
<p>(57) Abstract</p> <p>The present subject matter described herein relates to an Integrated Start Stop (ISS) system for restarting operation an engine of a vehicle (100) comprising one or more controller (103) having an idle start stop module, a throttle position sensor (102) being configured for detecting an operation of a manual throttle of said vehicle (100); a clutch actuation sensor (101) being configured for detecting an operation of a manual clutch of said vehicle (100) wherein, said one or more controller (103) being configured to check one or more secondary engine parameters and capable of restarting said engine (104) based on said one or more secondary engine parameters meeting a predetermined condition (s) of each of said one or more secondary engine parameters.</p>	
 <p>Fig. 1.</p>	
 <p>Fig. 2.</p>	



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<p>(11) Patent registration No and date 1006977, 14/10/2025 (21) Appl. No. BD-P-2022-142 (22) Filed: 31/03/2022</p> <p>(23) Priority Data: India, Number :202241000532, Date : 05-01-2022.</p> <p>(71) Applicant: A. O. Smith India Water Products Pvt Ltd of Plot No. 300, KIADB Industrial Area, Phase-2, Harohalli, Kanakapura Taluk, Ramanagara District, 562112, Karnataka, Nationality -India</p> <p>(72) Inventors: (0) Dr Neeraj Gupta of A.O. Smith India Water Products Pvt. Ltd. Plot No. 300, KIADB Industrial Area, Phase-2, Harohalli, Kanakapura Taluk, Ramanagara District, 562112, Karnataka, India Nationality -India, (1) Dhanish Dharman of A.O. Smith India Water Products Pvt. Ltd. Plot No. 300, KIADB Industrial Area, Phase -2, Harohalli, Kanakapura Taluk, Ramanagara District, 562112, Karnataka, India Nationality -India, (2) Gopinath Beesetti of A.O. Smith India Water Products Pvt. Ltd. Plot No. 300, KIADB Industrial Area, Phase -2, Harohalli, Kanakapura Taluk, Ramanagara District, 562112, Karnataka, India Nationality -India</p> <p>(74) Agent : H & H Company , {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : F21L 26/00</p> <p>(54) Invention Title: AN SYSTEM FOR WATER DISINFECTION BY LIGHT AND METHOD THEREOF</p> <p>(57) Abstract The system for water disinfection by light, the system comprising a housing made of plastic. The housing comprise the inlet-outlet point for providing secure connection to the outside water source conduit. The conduit is configured inside the housing, where the conduit is configured to carry the water needed to disinfect inside the housing. Further, a light source is provided where the light source is configured inside the housing to emit the specific frequency for disinfection the water present inside the plurality of conduit. A coating is provided on the inner side of the housing, where the coating is adapted to reflect the light emitted from the light source and a cooling means provided on the surface of the housing, wherein the cooling means is configured such that it provides easy passage of the hot air form the housing to the atmosphere.</p>





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(11) Patent registration No and date 1007010, 27/10/2025

(21) Appl. No. BD-P-2022-149

(22) Filed: 11/04/2022

(23) Priority Data:

Germany, Number :1020211108888, Date : 28-04-2021.

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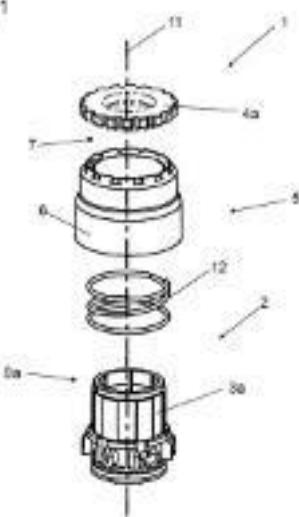
(51) INT. CL. : D04B 15/60

(54) Invention Title: Thread clamping device

(57) Abstract

The invention relates to a thread clamping device for a spindle of a spinning or twisting machine for releasably fixing a thread in a clamping gap, comprising: - a first clamping unit, having an inner sleeve, which can be arranged coaxial with the spindle, and having a thread cutter, which can be fixed on the inner sleeve in the axial direction, which first clamping unit can be fixed on an upper part of the spindle such that axial positioning is provided; and - a second clamping unit, having a clamping element, which can be moved axially, relative to the first clamping unit, between a clamping position, in which the clamping gap between the thread cutter and the clamping element is closed, and an open position, in which the clamping gap is open. In order to provide a thread clamping device which easily and reliably allows a connection of the inner sleeve to the spindle of the spinning or twisting machine for conjoint rotation, the thread cutter is designed to be fixed on the spindle upper part such that axial positioning is provided and is designed to be connected to the spindle upper part for conjoint rotation, and the thread cutter and the inner sleeve can be connected to each other for conjoint rotation.

FIG. 1

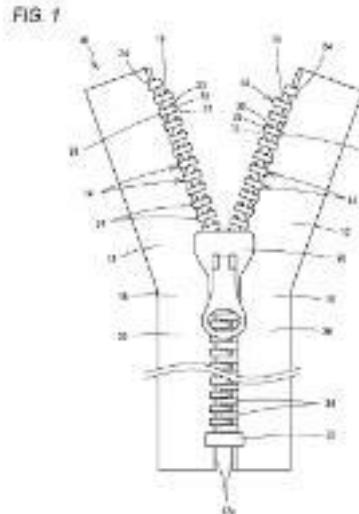




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<p>(11) Patent registration No and date 1007009, 27/10/2025 (21) Appl. No. BD-P-2022-159 (22) Filed: 24/04/2022 (23) Priority Data: Japan, Number :2021018628, Date : 17-05-2021.</p> <p>(71) Applicant: YKK CORPORATION of 1, Kanda Izumi-cho, Chiyoda-ku, Tokyo 101-8642, Nationality -Japan (72) Inventors: (0) Ryo MASEGUCHI of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (1) Yoshie NAKAMAE of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (2) Atsushi OGIHARA of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (3) Yoshio TAIRA of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan, (4) Hikaru SATO of c/o YKK CORPORATION KUROBE, 200, Yoshida, Kurobe-shi, Toyama, 938-8601, Japan Nationality -Japan</p> <p>(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh (51) INT. CL. : A44B 19/42 (54) Invention Title: SLIDE FASTENER, METHOD OF MANUFACTURING SLIDE FASTENER, AND SLIDE FASTENER SEWN ARTICLE</p> <p>(57) Abstract To provide a slide fastener, a method of manufacturing a slide fastener, and a slide fastener sewn article in which occurrence of rust on a fastener element made of a metal is reliably prevented by a simple method and a good appearance is maintained. A pair of left and right fastener tapes 12; a pair of element rows 16 including a plurality of fastener elements 14 that face edge portions 12a of the fastener tapes 12 on sides facing each other along a length direction of the fastener tapes 12; and a slider 20 that engages with the pair of element rows 16 are included. The fastener element 14 is made of a metal such as a stainless steel, a water-repellent layer 36 made of a water-repellent agent is provided on the fastener tape 12 and the fastener element 14, and adhesion of water to the fastener tape 12 is prevented by the water-repellent layer 36. A coating layer 34 made of a coating agent is provided on the fastener element 14.</p>





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<p>(11) Patent registration No and date 1006982, 14/10/2025 (21) Appl. No. BD-P-2022-161 (22) Filed: 25/04/2022 (23) Priority Data: Malaysia, Number :2021050034, Date : 28-04-2021. (71) Applicant: MAXIS BROADBAND SDN BHD of Level 21, Menara Maxis, City Centre Kuala Lumpur, 50088 Kuala Lumpur, Nationality -Malaysia (72) Inventors: (0) LEE, Boon Ong of c/o MAXIS BROADBAND SDN BHD, Level 21, Menara Maxis, City Centre Kuala Lumpur, 50088 Kuala Lumpur, Malaysia Nationality -Malaysia (74) Agent : Munshi & Associate, {appRepresentativeAddress}, Bangladesh (51) INT. CL. : E02F 7/02 (54) Invention Title: MOUNT ASSEMBLY FOR TELECOMMUNICATION EQUIPMENT (57) Abstract The present invention discloses a mount assembly for holding a plurality of telecommunication equipment (1) onto a pole structure (2), the mount assembly comprises an integrated bracket body (100) formed by a protective casing (110) having a plurality of slots (115, 116, 117) for accommodating a first bracket (120) and one or more second brackets (130), wherein each bracket (120, 130) includes an attachment surface (121, 131) for which a telecommunication equipment (1) is attached thereto, and wherein at least one of the brackets (120, 130) further includes a clamer (140) for mounting the integrated bracket body (100) to the pole structure (2).</p>

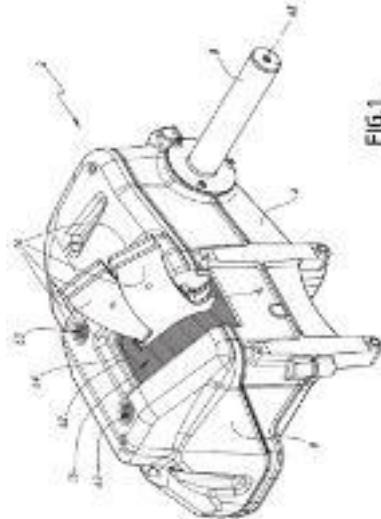
Fig. 1A.



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<p>(11) Patent registration No and date 1007003, 26/10/2025 (21) Appl. No. BD-P-2022-179 (22) Filed: 23/05/2022 (23) Priority Data: France, Number :2105527, Date : 27-05-2021. (71) Applicant: STAUBLI FAVERGES of Place Robert Staubli Faverges, 74210 FAVERGES-SEYTHENEX, Nationality -France (72) Inventors: (0) BONNEAU David of 50, route du Pont Ruphy, 74210 LATHUILE, France Nationality -France, (1) LEGER Sylvain of 6 chemin des Fins Sud, 74000 ANNECY, France Nationality -France, (2) POLLET François of 25 rue des écureuils, 74940 ANNECY LE VIEUX, France Nationality -France (74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh (51) INT. CL. : D03C 11/00 (54) Invention Title: Shed forming machine (57) Abstract This shed forming machine comprising output levers (14) oscillating about a common shaft (22) centered on a longitudinal axis (A22), a cover, a frame, and a sealing device (40, 52, 54) comprising sealing struts (40) stacked along the common shaft, and at least one seal (52, 54). Each sealing strut comprises a band (402) and an inner radial edge. The seal (52, 54) extends in a main direction parallel to the longitudinal axis (A22) of the common shaft (22) and abuts a fixed part of the machine. Each sealing strut (40) is provided with at least one groove (416, 436) that extends parallel to its primary axis (A40) and opens on each side of the sealing strut. The grooves of the sealing struts of the sealing device (40, 52, 54) together define a channel (G2, G4) for receiving a heel of the seal.</p>

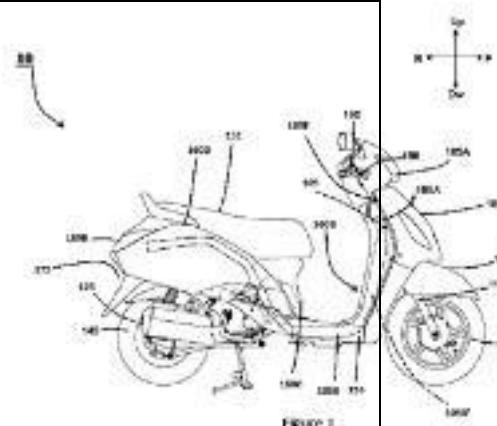




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(11) Patent registration No and date 1007029, 05/11/2025
(21) Appl. No. BD-P-2022-184
(22) Filed: 26/05/2022
(23) Priority Data:
India, Number :202141029635, Date : 01-07-2021.
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(74) Agent : Islam & Co., {app_representative_address}, Bangladesh
(51) INT. CL. : F02M 17/04
(54) Invention Title: A FUEL INLET ASSEMBLY FOR A SADDLE-TYPE VEHICLE
(57) Abstract
A fuel inlet assembly (200) for a saddle-type vehicle (10) having a fuel inlet flange (210) with a fuel inlet (212) for receiving fuel from an external source and a first inlet pipe (230) attached to the fuel inlet flange (210) at a first end (230A). The first inlet pipe (230) extends at least downwardly from the fuel inlet flange (210). A second inlet pipe (240) extends at least downwardly from the first inlet pipe (230). The second inlet pipe (240) has an intake end (240A) and an outlet end (240B). The intake end (240A) of the second inlet pipe (240) is detachably attached to a second end (230B) of the first inlet pipe (230), and the outlet end (240B) of the second inlet pipe (240) is connected to a fuel tank (250), thereby supplying fuel received at the fuel inlet flange (210) to the fuel tank (250).
<img alt="Technical drawing of a fuel inlet assembly for a saddle-type vehicle. The drawing shows a fuel inlet flange (210) with a fuel inlet (212). A first inlet pipe (230) is attached to the flange at its first end (230A) and extends downwards. A second inlet pipe (240) is attached to the first inlet pipe (230) at its second end (230B) and also extends downwards. The second inlet pipe (240) has an intake end (240A) and an outlet end (240B). The outlet end (240B) is connected to a fuel tank (250). Various labels are present: 210, 212, 230, 230A, 230B, 240, 240A, 240B, 250, 300, 310, 320, 330, 340, 350, 360, 370, 380, 390, 400, 410, 420, 430, 440, 450, 460, 470, 480, 490, 500, 510, 520, 530, 540, 550, 560, 570, 580, 590, 600, 610, 620, 630, 640, 650, 660, 670, 680, 690, 700, 710, 720, 730, 740, 750, 760, 770, 780, 790, 800, 810, 820, 830, 840, 850, 860, 870, 880, 890, 900, 910, 920, 930, 940, 950, 960, 970, 980, 990, 1000, 1010, 1020, 1030, 1040, 1050, 1060, 1070, 1080, 1090, 1100, 1110, 1120, 1130, 1140, 1150, 1160, 1170, 1180, 1190, 1200, 1210, 1220, 1230, 1240, 1250, 1260, 1270, 1280, 1290, 1300, 1310, 1320, 1330, 1340, 1350, 1360, 1370, 1380, 1390, 1400, 1410, 1420, 1430, 1440, 1450, 1460, 1470, 1480, 1490, 1500, 1510, 1520, 1530, 1540, 1550, 1560, 1570, 1580, 1590, 1600, 1610, 1620, 1630, 1640, 1650, 1660, 1670, 1680, 1690, 1700, 1710, 1720, 1730, 1740, 1750, 1760, 1770, 1780, 1790, 1800, 1810, 1820, 1830, 1840, 1850, 1860, 1870, 1880, 1890, 1900, 1910, 1920, 1930, 1940, 1950, 1960, 1970, 1980, 1990, 2000, 2010, 2020, 2030, 2040, 2050, 2060, 2070, 2080, 2090, 2100, 2110, 2120, 2130, 2140, 2150, 2160, 2170, 2180, 2190, 2200, 2210, 2220, 2230, 2240, 2250, 2260, 2270, 2280, 2290, 2300, 2310, 2320, 2330, 2340, 2350, 2360, 2370, 2380, 2390, 2400, 2410, 2420, 2430, 2440, 2450, 2460, 2470, 2480, 2490, 2500, 2510, 2520, 2530, 2540, 2550, 2560, 2570, 2580, 2590, 2600, 2610, 2620, 2630, 2640, 2650, 2660, 2670, 2680, 2690, 2700, 2710, 2720, 2730, 2740, 2750, 2760, 2770, 2780, 2790, 2800, 2810, 2820, 2830, 2840, 2850, 2860, 2870, 2880, 2890, 2900, 2910, 2920, 2930, 2940, 2950, 2960, 2970, 2980, 2990, 3000, 3010, 3020, 3030, 3040, 3050, 3060, 3070, 3080, 3090, 3100, 3110, 3120, 3130, 3140, 3150, 3160, 3170, 3180, 3190, 3200, 3210, 3220, 3230, 3240, 3250, 3260, 3270, 3280, 3290, 3300, 3310, 3320, 3330, 3340, 3350, 3360, 3370, 3380, 3390, 3400, 3410, 3420, 3430, 3440, 3450, 3460, 3470, 3480, 3490, 3500, 3510, 3520, 3530, 3540, 3550, 3560, 3570, 3580, 3590, 3600, 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<p>(11) Patent registration No and date 1007033, 05/11/2025 (21) Appl. No. BD-P-2022-257 (22) Filed: 25/07/2022</p> <p>(23) Priority Data: Pakistan, Number :5512021, Date : 27-07-2021.</p> <p>(71) Applicant: Afzaal Mustafa S/O Khan Ghulam Mustafa of Resident of House No. 2 Street No. 39, F-8/1, Islamabad, Nationality -Pakistan</p> <p>(72) Inventors:</p> <p>(74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : A63D 3/00</p> <p>(54) Invention Title: FOOT-WASHING BOWL SYSTEM</p> <p>(57) Abstract The present invention relates to a foot-washing bowl system. The system may be comprised of a free-standing foot-washing stand and/or a toilet-mounted foot-washing stand. The free-standing foot-washing stand has a bowl that receives a water source to allow water to flow through the stand and out at least one opening of a cross-member to wash the feet of the user. The toilet-mounted embodiment features a stand identical to the free-standing stand that is further comprised of a toilet seat assembly that allows the system to attach and be used as a toilet seat.</p>

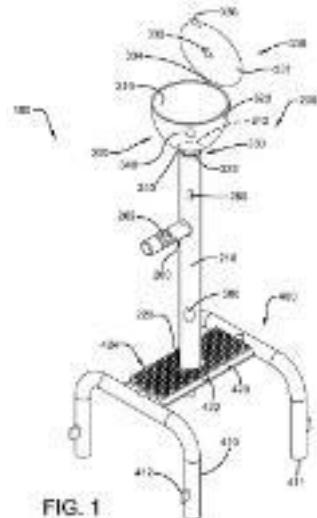


FIG. 1



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<p>(11) Patent registration No and date 1007011, 27/10/2025 (21) Appl. No. BD-P-2022-266 (22) Filed: 10/08/2022 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh</p> <p>(72) Inventors: (0) DR. SYED FARID UDDIN FARHAD of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (1) NAZMEL ISLAM TANVIR of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) MD. SAIDUL ISLAM of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) MS. SURAVI ISLAM of BCSIR Laboratories, Dhaka, Bangladesh Nationality -Bangladesh, (4) MD. SAIDUL ISLAM of IFRD, BCSIR Dhaka, Bangladesh Nationality - Bangladesh</p> <p>(51) INT. CL. : G02B 26/00 (54) Invention Title: A PORTABLE LIGHT SOURCE WITH VARIABLE WAVELENGTH, INTENSITY AND ILLUMINATION PERIOD (57) Abstract A light source of selective wavelengths and intensities is desirable in numerous fields of research and analysis such as investigating performance parameters and efficiency as well as quality of different layers and interfaces of solar cells, photodiodes, photoelectrochemical water-splitting devices, characterization of photocatalysts, and photodegradation studies of organic pollutant from textile and leather industries etc. Conventional light sources used for these types of research are costly, space consuming, cumbersome to work with and limited to specific applications. To address these issues, we have developed a light source with variable wavelength, intensity and illumination period using an illumination period control unit (IPCU), voltage regulator, neutral density (ND) filter, alterable Power LEDs of different Wavelength etc. Conventional light sources do not have all three adjustable functionalities. The variable wavelengths of our invented light source range from 365 - 845 nm, the illumination period can be of any seconds or minutes and the light intensity ranges from 0 - 100% or 0 - 100 mW/cm². The present invention propose a low power consuming, versatile, portable light source which can be used in the above-mentioned fields as well as to determine any photophysical or photochemical properties of samples under investigation.</p>



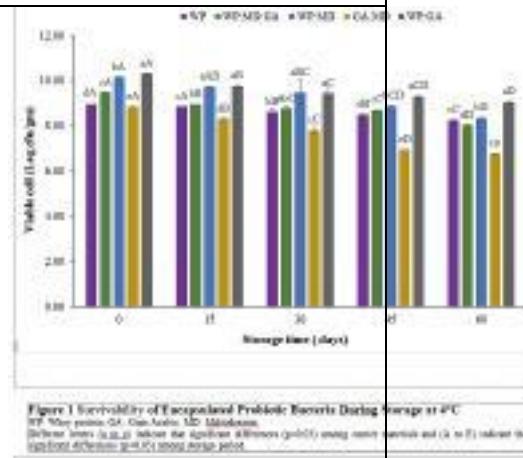
FIG. 1: Invention steps for the fabrication of the variable wavelength, intensity and illumination period light source



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(21) Appl. No. BD-P-2022-273
(22) Filed: 16/08/2022
(23) Priority Data:
(71) Applicant: Dr. Maruf Ahmed (NID-5993696094), Professor, Dept. of Food Processing and Preservation (FPP) of Hajee Mohammed Danesh Science and Technology University (HSTU), Dinajpur, Nationality -Bangladesh
(72) Inventors: (0) Shobuz Mahmud (NID-8252721074), Student, Dept. of Food Processing and Preservation (FPP) of Hajee Mohammed Danesh Science and Technology University (HSTU), Dinajpur, Bangladesh Nationality -Bangladesh
(51) INT. CL. : A61K 9/50
(54) Invention Title: Bacterial Encapsulation (BE)
(57) Abstract Probiotic bacteria were isolated from yogurt and cheese whey and used to prepare encapsulated probiotic bacteria with whey protein (WP), maltodextrin (MD), and gum Arabic (GA) as single, binary, and ternary encapsulation coating materials by freeze-drying. After that, the characteristics of encapsulated probiotic bacteria and stability under gastrointestinal conditions were studied during storage at 4°C. <i>Limosilactobacillus fermentum</i> strain LF-HSTU-FPP and <i>Streptococcus thermophilus</i> strain ST-HSTU-FPP were identified by 16S RNA genome sequencing. Encapsulation with WP and GA had a high encapsulation efficiency of 94.69% and the least injury of cell viability of 2.8715 Log CFU/gm and 2.85 Log CFU/gm in stimulated gastric juice and stimulated intestinal juice, respectively. Microcapsules showed broken glass, porous, sponge-like, and irregularly shaped structures. The stability of probiotic bacteria was confirmed by FTIR analysis of amide group I and II peak alterations. Therefore, binary encapsulation (WP and GA) was a suitable coating material for the stability of probiotic bacteria in gastrointestinal tract during storage.

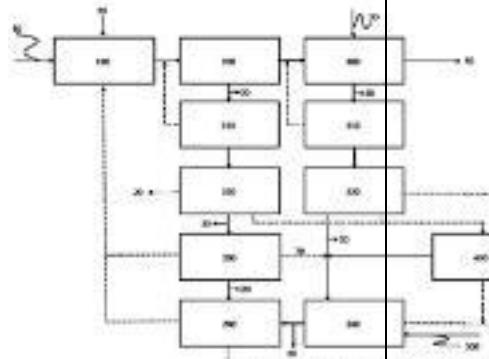




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<p>(11) Patent registration No and date 1007000, 26/10/2025 (21) Appl. No. BD-P-2022-276 (22) Filed: 17/08/2022 (23) Priority Data: Finland, Number :20215949, Date : 09-09-2021. (71) Applicant: Infiniten Fiber Company Oy of Tekniikantie 14, 02150 Espoo, Nationality -Finland (72) Inventors: (0) SIREN, Sakari of Infiniten Fiber Company Oy, Tekniikantie 14, 02150 Espoo, Finland Nationality -Finland, (1) STJERNBERG, Martin of Infiniten Fiber Company Oy, Tekniikantie 14, 02150 Espoo, Finland Nationality -Finland (74) Agent : Islam & Co., {appRepresentativeAddress}, Bangladesh (51) INT. CL. : D21C 3/02 (54) Invention Title: Method for the Treatment of a Fibrous Raw Material.</p>
<p>(57) Abstract According to an example aspect of the present invention, there is provided a method of treating a fibrous raw-material containing cellulosic fibres and polyester fibres, comprising the steps of subjecting the raw-material to acid treatment and to a washing operation, subjecting the washed first modified fibrous raw-material to an alkaline treatment to dissolve at least a portion of the polyester fibres and to form a second modified fibrous raw-material that is subjected to separation to separate solid matter from an aqueous liquid phase comprising dissolved material, recovering the solid matter of the separation, subjecting the recovered second modified raw-material to a washing, subjecting the liquid phase to a first filtration step using a micromembrane to obtain a first aqueous permeate, subjecting the first permeate to a second filtration step using a nanomembrane to obtain a second permeate, recovering the second aqueous permeate and recycling it to an alkaline treatment step.</p>

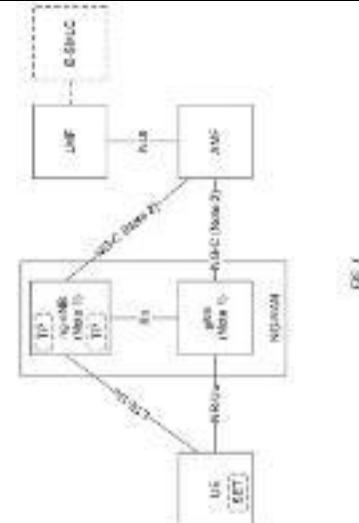




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<p>(11) Patent registration No and date 1006993, 23/10/2025 (21) Appl. No. BD-P-2022-278 (22) Filed: 17/08/2022 (23) Priority Data: United States of America, Number :63234141, Date : 17-08-2021. (71) Applicant: Telefonaktiebolaget LM Ericsson (publ) of SE-164 83 Stockholm, Nationality -Sweden (72) Inventors: (0) Muhammad Ali Kazmi of Skrivargatan 7, SE-174 64 SUNDBYBERG, Sweden Nationality - Sweden (74) Agent : Remfry & Son Limited, {app_representative_address}, Bangladesh (51) INT. CL. : G04F 8/00 (54) Invention Title: ADAPTING A BIDIRECTIONAL TIMING MEASUREMENT PROCEDURE BASED ON ONE OR MORE CONDITIONS, RELATIONS, OR CRITERIA (57) Abstract Systems and methods of bidirectional timing measurement are provided. In some embodiments, a method performed by a User Equipment (UE) includes: receiving a configuration for performing a bidirectional timing measurement on one or more cells; adapting the bidirectional timing measurement procedure based on one or more conditions or relations or criteria; and using the adapted procedure for performing the configured bidirectional timing measurement. The bidirectional timing measurement can be a UE Receive-Transmit (Rx-Tx) time difference. The measurement adaption can include: whether the cell for the bidirectional timing measurement is the Downlink reference cell for a Sounding Reference Signal (SRS) for the UE. In this way, the bidirectional timing measurement performance is enhanced. The UE only discards bidirectional timing measurement (e.g., UE Rx-Tx time difference) when the UE autonomous timing adjustment will make the measurement inaccurate. The positioning measurement accuracy determined based on the multi-RTT measurement is improved.</p>

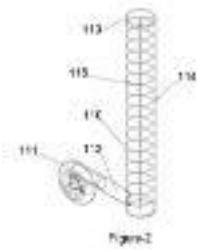
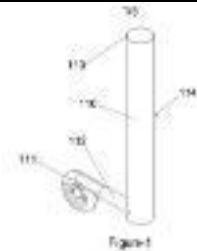




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<p>(11) Patent registration No and date 1006978, 14/10/2025 (21) Appl. No. BD-P-2022-309 (22) Filed: 15/09/2022 (23) Priority Data: Turkey, Number :2021050954, Date : 16-09-2021. (71) Applicant: OZGUR KARAYILMAZ of 1771 Sokak No:41 D:14 Bostanlı Mahallesi KARSIYAKA İZMİR, Nationality -Turkey (72) Inventors: (0) OZGUR KARAYILMAZ of 1771 Sokak No:41 D:14 Bostanlı Mahallesi KARSIYAKA İZMİR, Turkey Nationality -Turkey (74) Agent : Rana & Associates, {app_representative_address}, Bangladesh (51) INT. CL. : B01D 61/06 (54) Invention Title: WASTE THERMAL ENERGY RECOVERY DEVICE</p> <p>(57) Abstract Invention is a waste thermal energy recovery device (100) optimizing machine, equipment and system efficiency by reducing energy release to environment in order to provide waste thermal energy recovery to steam boilers performing operations such as heating, drying, fluid phase change by energy transformation, fresh fruit-vegetable drying machines, air conditioning chambers performing air fresh operations, laundry drying machines, textile drying machines, machines and systems performing air or derivative gas and heat release to environment as a result of process and characterized by comprising the most outer layer heat insulation layer (120) for directing all heat leakages to heat transfer chambers and functioning as last layer of heat transfer by circulation of fresh air entering through fresh air inlet channels (121) therein and having an air flow space with heat recovery outlet chamber (131) to keep loss at minimum level, made from materials to provide heat insulation to prevent heat loss, also having a chimney outlet (113); heat recovery outlet (130) supplying fresh air with heat recovered to machine and equipment for reducing energy consumption; waste heat recovery inlet (140) for being applied waste fluid which has thermal energy coming from discharge fan of machine and equipment where waste thermal recovery device (100) is connected; adapter cap (160) providing adaptation of waste thermal energy recovery device (100) to heat recovery outlet (130) to machine and equipment, and insulating machine and equipment fresh air inlets from outer environment thermally and providing that fresh air inlet is made from heat recovery outlet (130) of waste thermal energy recovery device (100).</p>

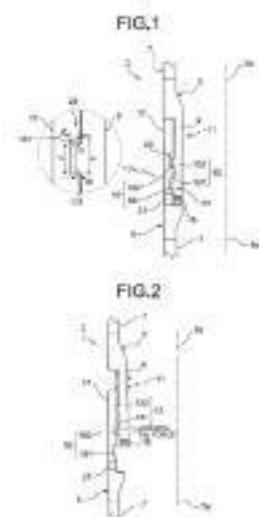




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<p>(11) Patent registration No and date 1007032, 05/11/2025 (21) Appl. No. BD-P-2022-353 (22) Filed: 27/10/2022 (23) Priority Data: Japan, Number :2021177106, Date : 29-10-2021. (71) Applicant: JFE STEEL CORPORATION of 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 1000011, Nationality -Japan (72) Inventors: (0) Yuto OHBA of c/o Intellectual Property Dept., JFE STEEL CORPORATION, 2-3, Uchisaiwai-cho 2-chome, Chiyoda-ku, Tokyo 100-0011, Japan Nationality -Japan (74) Agent : REMFRY & SON LIMITED, {app_representative_address}, Bangladesh (51) INT. CL. : A61P 37/06 (54) Invention Title: MULTI-TIERED SOCKET JOINT, STEEL PIPE WITH JOINT, STRUCTURE, METHOD OF INSTALLING STRUCTURE, AND METHODS OF DESIGNING AND MANUFACTURING MULTI-TIERED SOCKET JOINT (57) Abstract An object is to provide a multi-tiered socket joint, a steel pipe with a joint, a structure, a method of installing the structure, methods of designing and manufacturing the multi-tiered socket joint that exhibit excellent workability when the steel pipes are to be joined, by preventing a projection from becoming meshed with a recess that is not a target to be engaged at the time of insertion. In a multi-tiered socket joint 1, one of an inner joint pipe 3 and a cylindrical outer joint pipe 5 includes a split cylindrical portion 11 having a plurality of split pieces 9, and projections 13 provided in a plurality of tiers on the split pieces 9; and the other has a cylindrical portion 17 and recesses 19 that are provided in a plurality of tiers on the cylindrical portion 17. Steel pipes 7 are joined by engaging the projections 13 and the recesses 19, respectively. The plurality of tiers of the projections 13 have axial widths gradually becoming smaller from the projection 13 on the tip-end side toward the projection 13 on the base-end side. The plurality of tiers of the recesses 19 have axial widths gradually becoming smaller from the recess 19 on the base-end side toward the recess 19 on the tip-end side. The axial width of each of the projections 13 has a size equal to or larger than the axial width of the recess 19 that is on the tip-end side with respect to a recess 19 with which the projection 13 is to be engaged when the joints are fitted.</p>





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<p>(11) Patent registration No and date 1006994, 23/10/2025 (21) Appl. No. BD-P-2022-357 (22) Filed: 27/10/2022</p> <p>(23) Priority Data: Australia, Number :2021903463, Date : 29-10-2021.</p> <p>(71) Applicant: Everlast Technology Pty Ltd. of 320/20 Dale Street, Brookvale, New South Wales, 2100, Nationality - Australia</p> <p>(72) Inventors: (0) Paul Qian of 320/20 Dale Street, Brookvale, New South Wales, 2100, Australia Nationality - Australia, (1) Qin Dai of Level 35/100 Barangaroo Ave, Barangaroo, New South Wales, 2000, Australia Nationality - Australia</p> <p>(74) Agent : Bepary & Bepary, {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : G03C 8/36</p> <p>(54) Invention Title: A computer-implemented system and method for generating customised software applications</p> <p>(57) Abstract There is provided a software development platform for creating a customised software product. The platform includes an input module for facilitating input of client data, wherein the client data includes: data in a first programming language wherein the first programming language is HTML; data in a second programming language wherein the second programming language is JavaScript; and data in a third programming language wherein the third programming language is Java. The platform further includes a framework module including: a first programming language module including framework data in HTML and for receiving the inputted client data in HTML; a second intermediate controller module including framework data in JS and for receiving the inputted client data in JS; and a third data controller module including framework data in Java and for receiving the inputted client data in Java. Further, the first, second and third modules are operatively associated with each other such that, based on the inputted client data, the customised software product is generated. The platform further includes an output module for outputting and displaying the generated customised software product for future access and use.</p>

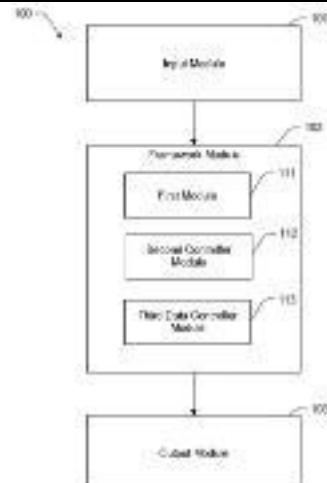


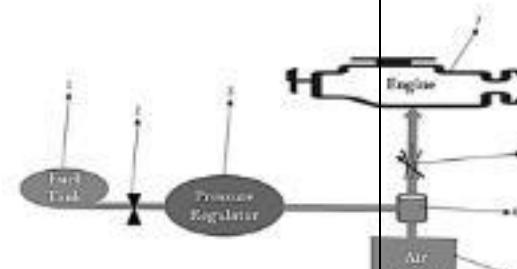
Figure 1



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<p>(11) Patent registration No and date 1006991, 14/10/2025 (21) Appl. No. BD-P-2022-392 (22) Filed: 30/11/2022 (23) Priority Data: India, Number :202121058499, Date : 15-12-2021. (71) Applicant: Bajaj Auto Limited of Mumbai Pune Road, Akurdi, Pune-411 035, Nationality -India (72) Inventors: (0) Bhagwat Vishwanath Ramchandra of C/o Bajaj Auto Limited, Mumbai-Pune Road, Akurdi, Pune-411035, India Nationality -India, (1) Utpat Shrikant Tukaram of C/o Bajaj Auto Limited, Mumbai-Pune Road, Akurdi, Pune-411035, India Nationality -India, (2) Kulkarni Nitin Sudhakar of C/o Bajaj Auto Limited, Mumbai-Pune Road, Akurdi, Pune-411035, India Nationality -India, (3) Sattigeri Sachin Shrikant of C/o Bajaj Auto Limited, Mumbai-Pune Road, Akurdi, Pune-411035, India Nationality -India (74) Agent : ISLAM & CO, {appRepresentativeAddress}, Bangladesh (51) INT. CL. : F02M 21/02 (54) Invention Title: A FUEL SUPPLY SYSTEM FOR AUTOMOTIVE VEHICLE DRIVEN BY GASEOUS FUEL AND A METHOD THEREOF (57) Abstract A fuel supply system (1000) for automotive vehicle supplies gaseous fuel from a fuel tank (101) through a fuel line to engine. The fuel line transfers gaseous fuel from the fuel tank (101) to a pressure regulator (103) and thereafter to a gas mixing apparatus (104) receiving air from an air supply means (105). The gas mixing apparatus (104) supplies an air-fuel mixture to the engine (107). A fuel supply control system (300) is provided, including a controller (301); a flow control device (108) mounted in the fuel line; and sensors (320) to measure predefined parameters of the vehicle operation, and to send feedback to the controller (301). The flow control device (108) is installed between the pressure regulator (103) and the gas mixing apparatus (104). The controller (301) controls the operation of the flow control device (108) based on the feedback from the sensors (320).</p>





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<p>(11) Patent registration No and date 1007016, 27/10/2025 (21) Appl. No. BD-P-2023-4 (22) Filed: 05/01/2023 (23) Priority Data: Finland, Number :20225011, Date : 07-01-2022.</p> <p>(71) Applicant: Infiniten Fiber Company Oy of Tekniikantie 14, 02150 Espoo, Nationality -Finland</p> <p>(72) Inventors: (0) MALANIN, Erkki of c/o of Infiniten Fiber Company Oy, Tekniikantie 14, 02150 Espoo, Finland Nationality -Finland, (1) SIREN, Sakari of c/o of Infiniten Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland, (2) NUOPPONEN, Markus of c/o of Infiniten Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland, (3) VEIJOLA, Elias of c/o of Infiniten Fiber Company Oy, Tekniikantie 14 , 02150 Espoo, Finland Nationality -Finland</p> <p>(74) Agent : Islam & Co., {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : D02G 3/48</p> <p>(54) Invention Title: Cellulosic textile fibre</p> <p>(57) Abstract According to an example aspect of the present invention, there is provided a manmade cellulosic textile fibre having a linear density of 0.8–1.8 dtex, a tenacity of 2.0–2.9 cN/dtex, and an initial modulus of 50–120 cN/dtex. The cellulosic textile fibre comprises a cellulose-based material, wherein at least 50 wt-% of the raw material of the textile fibre is cellulose-containing waste, and at least 50 wt-% of the cellulose-containing waste is textile waste.</p>

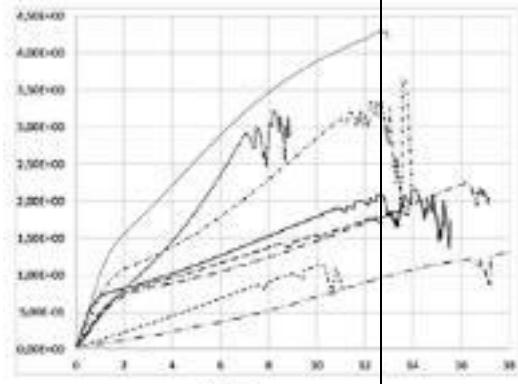


FIG. 1



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<p>(11) Patent registration No and date 1006989, 14/10/2025 (21) Appl. No. BD-P-2023-28 (22) Filed: 24/01/2023 (23) Priority Data: India, Number :202241018613, Date : 30-03-2022. (71) Applicant: TVS MOTOR COMPANY LIMITED of Khader Nawaz Khan Road, Nungambakkam, Chennai 600006,, Nationality -India (72) Inventors: (0) SHIKH RAHIM FARIDI of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (1) MALLAMMA M PUJAR of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India (74) Agent : Islam & CO., {appRepresentativeAddress}, Bangladesh (51) INT. CL. : F16J 15/447 (54) Invention Title: "A SYSTEM OF FASTENING A BATTERY PACK" (57) Abstract The present subject matter described herein relates to a battery enclosing assembly. The battery enclosing assembly (300) comprising a battery pack (100) and an enclosure (300). The battery pack (100) accommodated in the enclosure (300). The battery pack (100) comprising a latching unit (105) and a lever (102). The latching unit (105) being operably connected to the lever (102) and the latching unit (105) being configured to engage and disengage the battery pack (100) from the enclosure (300).</p>

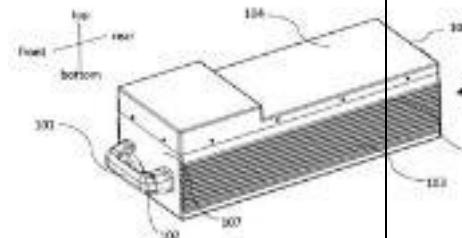


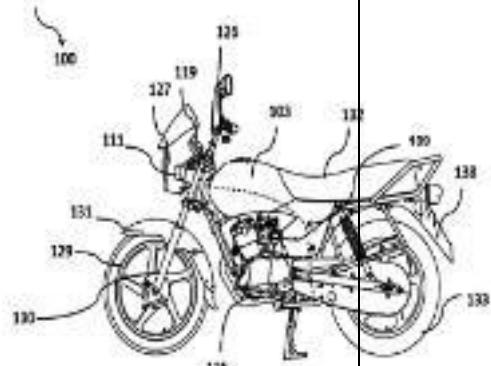
FIGURE 1a



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<p>(11) Patent registration No and date 1006990, 14/10/2025 (21) Appl. No. BD-P-2023-29 (22) Filed: 24/01/2023 (23) Priority Data: India, Number :202241017570, Date : 26-03-2022. (71) Applicant: TVS MOTOR COMPANY LIMITED of Khader Nawaz Khan Road, Nungambakkam, Chennai 600006,, Nationality -India (72) Inventors: (0) DIPANJAN MAZUMDAR of Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (1) VALAVANUR UMASANKAR KALPANA of Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India (74) Agent : Islam & CO., {app_representative_address}, Bangladesh (51) INT. CL. : B62D 65/14 (54) Invention Title: "AN INSTRUMENT CLUSER UNIT" (57) Abstract The present invention discloses a motor vehicle (100) comprising an information display system including a tracking unit (201) and an instrument cluster (119). The tracking unit (201) is communicatively coupled with the instrument cluster (119) of the vehicle (100). The tracking unit (201) communicates one or more input signals based on multiple geolocation parameters to display required output like date and time for user convenience while maintaining long life of energy storage device and also helps in detection of error fault diagnostic by having accurate date and time stamp in the vehicle.</p>





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<p>(11) Patent registration No and date 1006981, 14/10/2025 (21) Appl. No. BD-P-2023-70 (22) Filed: 06/03/2023 (23) Priority Data: India, Number :202221015528, Date : 21-02-2022. (71) Applicant: (72) Inventors: (74) Agent : Munshi & Associates, {app_representative_address}, Bangladesh (51) INT. CL. : F24D 13/00 (54) Invention Title: OPTIMIZED MULTI-MODEL ELECTRICAL HEATING METHOD AND SYSTEM THEREFOR</p>
<p>(57) Abstract A method (100) for deriving a predetermined unit of power from a power generator (216) using a renewable energy source (206) is disclosed. It comprises determination of a power generation capacity of the power generator (216), by a control unit (202), based on application parameters received by the control unit (202) associated with generation of the predetermined unit of power, operational parameters associated with the power generator (216), and environmental parameters associated with a location of derivation of the power from the renewable energy source (206). A value of resistance is then determined by the control unit (202) to reduce power loss during power generation, wherein a resistor unit (R) having the determined value of resistance is electrically coupled with the power generator (216). The control unit (202) then derives the predetermined unit of power across the resistor unit (R) from the power generator (216).</p>





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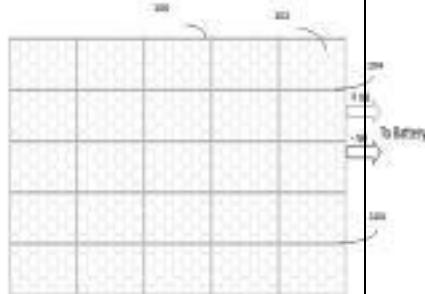
<p>(11) Patent registration No and date 1007005, 27/10/2025 (21) Appl. No. BD-P-2023-99 (22) Filed: 29/03/2023 (23) Priority Data:</p> <p>(71) Applicant: Md Hasan Zahir of 48, Girls college road, Professorpara, Guakhula, Abohynagar, Jessore, Khulna, 7460, Bangladesh, Nationality -Bangladesh (72) Inventors: (0) Md Hasan Zahir of 48, Girls college road, Professorpara, Guakhula, Abohynagar, Jessore, Khulna, 7460, Bangladesh, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : E04H 12/30 (54) Invention Title: The system and method for generating renewable energy using pressure gradients and natural draft in a columnar tower, named the Natural Draft Wind Energy Tower (NDWET).</p> <p>(57) Abstract The design of the Energy Tower is simulated through Ansys software to calculate wind power availability by len nodels as per attached drawings data. The date proves huge wind power availability by the velocity gain which can be calculated through the equaton as below. The power (le anergy per second) in the wind Nitling a wind turbine with a certain swept area is given by simply inserting the Mars/sec calculation into the standon khetic energy equation given above, resulting in the following vital equation: Power = 0.5 x Swept Area x Air Density x [Velocity] ^3 $P_{(Wind)} = E_{kin/t} = \frac{\pi}{2} [\rho r]^2 v^3$ Where Power is given in watts (e, joules/second, the Swept Area in square metres, the Air Density in kilograms per cubic meten, and the Velocity in metres per second.</p>



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<p>(11) Patent registration No and date 1007024, 05/11/2025 (21) Appl. No. BD-P-2023-150 (22) Filed: 04/06/2023</p> <p>(23) Priority Data: India, Number :202241034767, Date : 17-06-2022.</p> <p>(71) Applicant: Sonjib Banerjee of 862, 9th Main, 7th Cross, Srinagar, Bengaluru, Karnataka-560050, India, Nationality -India</p> <p>(72) Inventors:</p> <p>(74) Agent : H & H Company, {app_representative_address}, Bangladesh</p> <p>(51) INT. CL. : F24S 90/00</p> <p>(54) Invention Title: AN ASSEMBLY FOR SOLAR PANELS WITH ULTRACAPACITOR-BATTERY HYBRID STORAGE SYSTEM</p> <p>(57) Abstract The present invention comprises solar tubes and other components arranged in a repetitive manner to form solar bricks. More specifically, the solar bricks (102) are assembled to form a solar panel that permits multiple direct and indirect reflection of solar radiation to achieve multiple reflection due to induced optical whirl of solar rays of visible spectrum that minimizes reflectance loss. The assembly (100) includes a 3rd dimension arrangement of solar cell in solar tube that allows to trap solar radiation and utilise higher solar cell area w.r.t horizontal earth surface. The assembly includes Peltier cells suitable to operate at low differential temperature for harnessing and used solar energy that is converted to heat. Further, solar thermal and full spectrum photovoltaic generation is combined to derive maximum efficiency.</p>

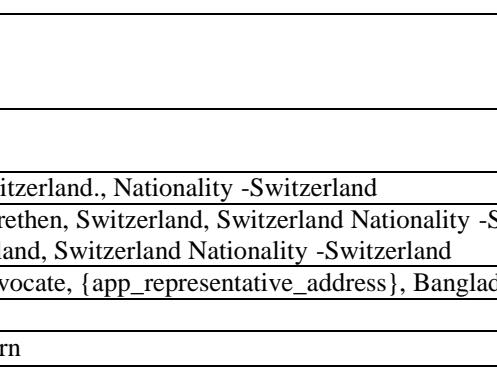


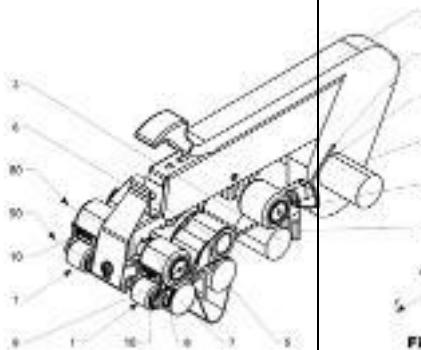


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(11) Patent registration No and date 1006980, 14/10/2025
(21) Appl. No. BD-P-2023-170
(22) Filed: 20/06/2023
(23) Priority Data:
Switzerland, Number :2022067075, Date : 22-06-2022.
(71) Applicant: Swinsol AG of 11, 9430 St. Margrethen, Switzerland., Nationality -Switzerland
(72) Inventors: (0) MR. Laszlo OLAH of 11, 9430 St. Margrethen, Switzerland, Switzerland Nationality -Switzerland,
(1) MR. Resul ISTREFI of 11, 9430 St. Margrethen, Switzerland, Switzerland Nationality -Switzerland
(74) Agent : Munshi & Associates Md.Solaiman Munshi,Advocate, {appRepresentativeAddress}, Bangladesh
(51) INT. CL. : B65H 54/70
(54) Invention Title: Ring spinning machine for spinning yarn
(57) Abstract
The present invention relates to a device and method for improved and simplified guiding and traversing fiber roving (13) in drafting units (1) of a ring spinning machine. The drafting unit (1) comprises lower and upper drafting rollers (3-8), a compactor roller (9) and a compactor component (10) comprising at least two compactor channels (100) for compacting the fiber roving (13), and a guiding device (11) arranged upstream of the lower and upper rollers (3, 5, 7; 4, 6, 8) for positioning the fiber roving (13) with respect to one of the compactor channels (100) and comprising a first condenser funnel (110) and a subsequent second condenser funnel (111) which are held in fixed mutual positions. An adjustment device (16) is shown that is suitable for detecting a lateral position of the fiber roving (13) in the drafting unit (1) as input information for laterally positioning the guiding device (11).

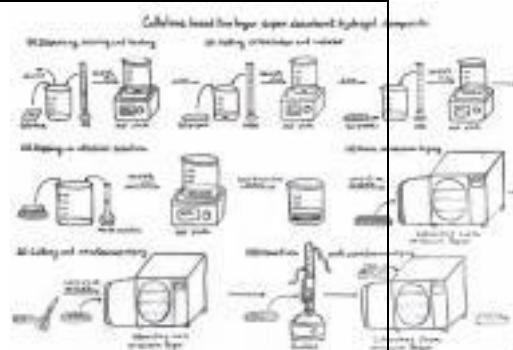




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<p>(11) Patent registration No and date 1006996, 23/10/2025 (21) Appl. No. BD-P-2023-189 (22) Filed: 17/07/2023 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka 1205, Nationality -Bangladesh</p> <p>(72) Inventors: (0) Sushama Saha Swati of Ph. D. Researcher, Department of Applied Chemistry and Chemical Engineering, University of Rajshahi, Rajshahi-6205. University Grants Commission Fellow 2021-2022, Bangladesh Nationality -Bangladesh, (1) Swapan Kumar Ray of Principal Scientific Officer, Fiber and Polymer Division, BCSIR Labs, Dhaka, Dhanmondi, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. A. Nayeem Faruqui of Associate Professor, Department of Applied Chemistry and Chemical Engineering, University of Rajshahi, Rajshahi-6205, Bangladesh Nationality -Bangladesh, (3) Dr. Md. Sarwar Jahan of Director, BCSIR Dhaka Laboratories, Dhaka-1205, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : A61L 27/52 (54) Invention Title: A process for the production of Cellulose based two layer super absorbent hydrogel composite</p> <p>(57) Abstract This invention relates to cellulose based two-layer super absorbing product, which can describe as a composite material. The superabsorbent composite material encompasses a commercial form of cellulose as absorbing material, a cross linker N, N-methylene bis acrylamide (MBA), an initiator ammonium per sulphate (APS) and an acrylamide (AM) which appears as a super absorbent composite material with a cross linked condition as an end product. In the said absorbing composite material between two layers, the upper layer appears as an absorbing porous material and lower layer contains cellulose in cross linked condition. According to its characterization, two-layer cellulose-based super absorbent hydrogel composite materials might be used as an absorbent article for the absorption of metal ions and dyes from aqueous solutions.</p>





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<p>(11) Patent registration No and date 1006987, 14/10/2025 (21) Appl. No. BD-P-2023-295 (22) Filed: 30/11/2023 (23) Priority Data: Taiwan, Number :111147962, Date : 14-12-2022.</p> <p>(71) Applicant: CHEN, Shih-Hsiung of 5, Yuxiao 1st St., East Dist., Tainan City 701, Chinese Taipei, Nationality - Taiwan</p> <p>(72) Inventors:</p> <p>(74) Agent : Islam & CO., {appRepresentativeAddress}, Bangladesh</p> <p>(51) INT. CL. : F02C 5/06</p> <p>(54) Invention Title: SEESAW-TYPE HYDROELECTRIC POWER GENERATION DEVICE</p> <p>(57) Abstract A seesaw-type hydroelectric power generation device is provided, including an elongated container (10), a hydroelectric turbine module (20), a pivot structure (30) below the elongated container (10), and a jacking structure (40) placed on both sides of the pivot structure (30). The elongated container (10) includes a first compartment (13) and a second compartment (14), and a water flow passage (15) connecting them. The hydroelectric turbine module (20) includes an impeller (22) and a power generator (21), the impeller (22) disposed in the water flow passage (15). When force is applied to the elongated container (10), it tilts around the pivot structure (30). The working fluid (WF) flows reciprocally through the water flow passage (15), driving the impeller (22) to rotate and thus generating electricity. The electricity required to drive the elongated container is less than the electricity generated, allowing for the continuous generation of</p>	
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<p>(11) Patent registration No and date 1007006, 27/10/2025 (21) Appl. No. BD-P-2024-27 (22) Filed: 29/01/2024 (23) Priority Data:</p> <p>(71) Applicant: Daffodil International University of Birulia, Ashulia, Dhaka, Nationality -Bangladesh (72) Inventors: (0) FIZAR AHMED of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh, (1) SHEAK RASHED HAIDER NOORI of DIU, Birulia, Ashulia, Dhaka, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : F03D 9/48 (54) Invention Title: A PROCESS FOR UNVEILING SOIL NUTRITION ABSORPTION PATTERNS IN DIVERSE LANDSCAPES USING EMBEDDED TECHNOLOGY</p> <p>(57) Abstract Our innovation immerses into the realm of agricultural technology, offering a groundbreaking solution to the persistent challenges of monitoring soil nutrients and optimizing soil organic matter content. What sets our approach apart is the ingenious adaptation of embedded technology, seamlessly integrating both hardware and software elements. This synergy provides an accurate, real-time assessment of soil nutrient levels and employs advanced data analysis algorithms to create a dynamic pattern for soil organic matter requirements. This means precision and efficiency in soil management like never before. Conventional methods for monitoring soil conditions have been notorious for their labor-intensive nature, time-consuming processes, and, more often than not, imprecise recommendations. Our embedded technology automates the entire process, constantly keeping an eye on soil conditions and promptly offering invaluable insights to farmers and environmentalists alike. In our invention, we meticulously detail how our embedded technology is constructed, how it operates, and how it can be effectively applied across a wide spectrum of soil types and agricultural scenarios. Moreover, we provide concrete evidence from experiments that showcase its remarkable effectiveness in improving soil health, enhancing crop yields, and promoting responsible land management practices.</p>



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<p>(11) Patent registration No and date 1006984, 14/10/2025 (21) Appl. No. BD-P-2024-88 (22) Filed: 28/03/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Industrial Development and Engineering Company (BIDEC) of H-10, Road-6, I.N. Kazi Tower -01, Kaderabad Housing, Mohammadpur, Dhaka-1207, Nationality -Bangladesh (72) Inventors: (0) Kazi Mohammad Ibrahim of Flat-1-A, 2/1, Block-C, Lalmatia, Mohammadpur, Dhaka-1207, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : F03B 13/06 (54) Invention Title: Reducing Electricity Consumption and Achieving Sustainability by Converting Capacitor Fans to BLDC Motor Fans</p> <p>(57) Abstract Globally, there is a shift towards cleaner energy to address the issue of declining fossil fuels. By lowering the carbon footprint, clean and renewable energy addresses two of the world's largest issues: the depletion of fossil fuels and global warming. The workaround, however, is to use more energy-efficient machinery that uses less electricity to generate equivalent or superior results as this process of converting to renewable energy is still in progress and quite costly. This is where our innovation comes in. The ceiling fan's energy consumption will be nearly 52% lower. Thanks to our methodical replacement of the single-phase induction motor with a brushless direct current motor (BLDC). Our conversion process not only ensures energy saving but also by using the old fan's body part, it reduces wastages. Reducing the demand for carbon-based fuels will lessen the carbon footprint and also will cut the costs associated with operating these fans by nearly 52%.</p>



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<p>(11) Patent registration No and date 1007004, 27/10/2025 (21) Appl. No. BD-P-2024-111 (22) Filed: 18/04/2024 (23) Priority Data:</p> <p>(71) Applicant: Daffodil International University (DIU) of Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Nationality -Bangladesh</p> <p>(72) Inventors: (0) GOLAM RABBANY, Lecturer, Dept. of Computer Science & Engineering, FSIT of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Bangladesh Nationality -Bangladesh, (1) EASIR ARAFAT PRIME, Student, Dept. of Computer Science & Engineering, FSIT of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Bangladesh Nationality -Bangladesh, (2) OMAR FARUK, Assistant Professor, Dept. of Business Studies, FBE of Daffodil International University, Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Bangladesh Nationality -Bangladesh</p>
<p>(51) INT. CL. : A61B 34/30</p>
<p>(54) Invention Title: Rescue robot based on fire accident</p>
<p>(57) Abstract Fire accident result in significant harm to resources and a high number of fatalities. At the moment, a variety of firefighting robots have a significant influence on our contemporary society. These robots have a high heat tolerance capacity, which can save a great deal of lives and vital resources. The proposed dual-purpose firefighting and rescue robot integrates innovative features to enhance emergency response capabilities. The aerodynamic body design incorporates a water spray nozzle, CO₂ exhausts, an oxygen mask holder, and a tank-tracked sprocket wheel system. The two-way hose model efficiently sprays six m³/minute of water or foam over long distances. Six infrared cameras ensure a 360-degree view for improved visibility in smoke-filled environments. The robot has oxygen supply system for fire victim. This comprehensive design ensures the robot's effectiveness in firefighting, rescue, and communication, contributing to improved safety and response in emergency situations.</p>

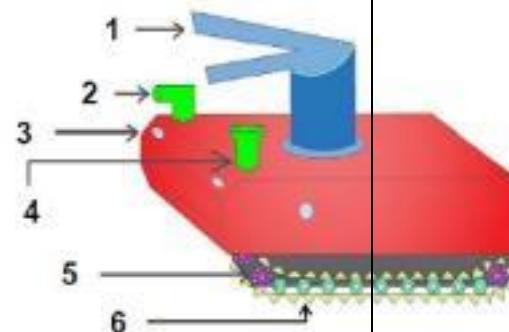


Figure 1: Structure of the proposed robot



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Publication of Granted Patent
No.: 10 (November 19, 2025)

<p>(11) Patent registration No and date 1006997, 26/10/2025 (21) Appl. No. BD-P-2024-195 (22) Filed: 23/06/2024 (23) Priority Data:</p> <p>(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</p> <p>(72) Inventors: (0) Muzahidul Islam of WALTON Corporation Limited, Bashundhara, Vatara, Dhaka-1229, Bangladesh Nationality -Bangladesh, (1) Md. Zweel Rana of WALTON, Bashundhara, Vatara, Dhaka-1229, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : B60H 1/00 (54) Invention Title: Offline diagnosis, monitoring and controlling system for residential air conditioner with smart mobile application.</p> <p>(57) Abstract Technology is a never-ending process. To be able to design a product using the current technology that will be beneficial to the lives of others is a huge contribution to the community. We can control different electrical appliances using Smart Phone with the help of Bluetooth Technology, Air Conditioner is one of them. Previously we have launched IR Remote and Wi-Fi connected smart air conditioner to operate. In the IR (InfraRed) Remote technology the line of sight should be maintained to operate the air conditioner. This limitation is uprooted with the help of Wi-Fi Module in which air conditioner can be operated from anywhere around the world using Smart Phones App via internet connection. Here, the limitation is the Data (Internet) connection requirement. But as we developed Bluetooth communication using the Smart Phones App to operate the air conditioner, instruction command can be sent directly to the Air Conditioner and process commands according to that.</p>

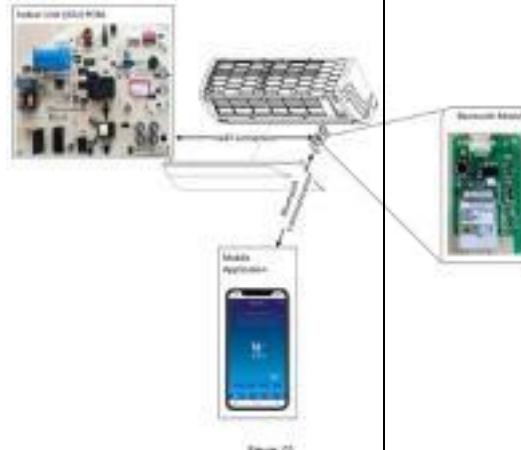


Figure 01



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<p>(11) Patent registration No and date 1006999, 26/10/2025 (21) Appl. No. BD-P-2024-283 (22) Filed: 18/09/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh</p> <p>(72) Inventors: (0) Tasnuva Zahan Liza, Research Assistant of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (1) Dr. Aninda Nafis Ahmed, Project Director & Senior Engineer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. Md. Abdul Gafur, Chief Scientific Officer (Retired) of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Shad Inquiad Mim, Engineer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Md. Abdus Sabur, Scientific Officer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh</p> <p>(51) INT. CL. : C22B 11/00 (54) Invention Title: Extraction of Gold from Microprocessor</p> <p>(57) Abstract In this research, a simple and optimized technique for recovering gold from computer microprocessor was invented. Microprocessor pins contain higher concentration of gold than the other parts of the microprocessor. The pins are separated from the microprocessors by using heat flow. For extracting gold from microprocessor pins, a hydrometallurgical process is followed. An optimized concentration of nitric acid and specific temperature are used for chemical treatment. Gold flakes are separated from the microprocessor pins after chemical treatment and filtration, drying, calcining, and sieving are performed to achieve pure gold. Initially, Hand Held X-ray Florescence is utilized and 82.63% gold is detected in the gold flakes after leaching. For more accurate characterization, Scanning Electron Microscope (SEM), Energy Dispersive Spectroscopy (EDS), and X-ray Diffraction (XRD) are performed. From SEM-EDS analysis, the composition and morphological structure of gold flakes are executed. Moreover, XRD result of the gold flakes shows peaks of pure gold.</p>





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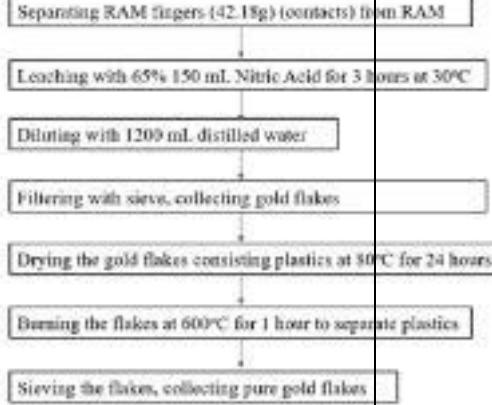
<p>(11) Patent registration No and date 1006998, 26/10/2025 (21) Appl. No. BD-P-2024-284 (22) Filed: 18/09/2024 (23) Priority Data:</p> <p>(71) Applicant: Bangladesh Council of Scientific and Industrial Research (BCSIR) of Dr. Qudrat-i-Khuda Road, Dhanmondi, Dhaka-1205, Nationality -Bangladesh</p> <p>(72) Inventors: (0) Tasnuva Zahan Liza, Research Assistant of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (1) Dr. Aninda Nafis Ahmed, Project Director & Senior Engineer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (2) Dr. Md. Abdul Gafur, Chief Scientific Officer (Retired) of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (3) Md. Shofiqul Islam, Scientific Officer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh, (4) Monira Binte Mesbah, Scientific Officer of Pilot Plant & Process Development Center, BCSIR, Dhaka-1205, Bangladesh Nationality -Bangladesh</p>
<p>(51) INT. CL. : C22B 11/00</p>
<p>(54) Invention Title: Extraction of Gold from Random Access Memory</p>
<p>(57) Abstract For the enhancement of environmental and economic benefits of E-waste processing, this research aims to extract precious metal gold from Random Access Memory (RAM). RAM's contacts (plated fingers) contain a higher concentration of gold than the other parts. Primarily, Hand-Held X-Ray Fluorescence detects the metals in RAM contacts and 48.69% of gold is detected on average before leaching. In order to liberate gold from these computer parts, a hydrometallurgical process is used. RAM's contacts are separated manually by cutting. Nitric acid is used for chemical treatment to separate gold flakes from RAM's contact. Gold flakes are separated from the contacts within 3 hours at 30°C with 200 rpm stirring. After filtration, drying, and sieve analysis, gold flakes are collected. For characterization, Hand-held X-ray Fluorescence, Scanning Electron Microscope (SEM), Energy Dispersive Spectroscopy (EDS), and X-ray Diffraction (XRD) are performed. The morphology and composition of the gold flakes are determined from SEM-EDS analysis. This analysis shows 90% gold on in computer RAM on average. From the XRD data, peaks of gold are determined in gold flakes extracted from RAM contacts.</p>  <p>Separating RAM fingers (42.18g) (contacts) from RAM ↓ Leaching with 65% 150 mL Nitric Acid for 3 hours at 30°C ↓ Diluting with 1200 mL distilled water ↓ Filtering with sieve, collecting gold flakes ↓ Drying the gold flakes consisting plastics at 30°C for 24 hours ↓ Burning the flakes at 600°C for 1 hour to separate plastics ↓ Sieving the flakes, collecting pure gold flakes</p>

Fig-1



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(11) Patent registration No and date 1006985, 14/10/2025

(21) Appl. No. BD-P-2024-367

(22) Filed: 12/12/2024

(23) Priority Data:

(71) Applicant: Ensaver Store, a company existing under the laws of Bangladesh, of 14, Jorpur Lane, Wari (Dholakhal), Dhaka-1203, Nationality -Bangladesh

(72) Inventors: (0) Md Showkat Hossain, Nationality: Bangladeshi. of 14, Jorpur Lane, Wari (Dholakhal), Dhaka-1203, Bangladesh Nationality -Bangladesh

(74) Agent : Md. Zabeed Hosain Khan, Nationality: Bangladeshi., {appRepresentativeAddress}, Bangladesh

(51) INT. CL. : B61L 27/30

(54) Invention Title: Multiple Gear Switch Circuit System for Optimized Transmission Control.

(57) Abstract

The invention discloses a multiple gear switch circuit system designed for optimized transmission control of DC/BLDC appliances from single power switch. It integrates fan on, off, speed regulation, light control, and charging functions from a single power switch with customizable gear levels. The system is adaptable for various DC/BLDC motor designs, ensuring efficient power management and user convenience.

