গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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শিল্প মন্ত্রণালয়
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নং-৩৬.০৮.০০০০.২০০.১৬.০০১.২২.২৭৮৯ তারিখঃ ২৬/১১/২০২৫ খ্রি.

বিষয়ঃ মঞ্জুরকৃত পেটেন্ট আবেদনসমূহ প্রকাশ

উপর্যুক্ত বিষয়ের প্রেক্ষিতে জানানো যাচ্ছে যে, অধিদপ্তরে দাখিলকৃত পেটেন্ট আবেদনসমূহের মধ্যে ০৮ (আট) টি পেটেন্ট (২০২১ সালের পেটেন্ট আবেদন নং-৩৫৮; ২০২২ সালের পেটেন্ট আবেদন নং-১০০, ১০৭, ১৩৯, ১৪০,২১২; ২০২৩ সালের পেটেন্ট আবেদন নং-১৭৮; ২০২৪ সালের পেটেন্ট আবেদন নং- ১১০) মঞ্জুর করা হয়েছে। মঞ্জুরকৃত উক্ত পেটেন্ট আবেদনসমূহ বাংলাদেশ পেটেন্ট আইন, ২০২৩ এর ধারা ২৪(২)(ক) মোতাবেক প্রকাশ করা হলো।

সংযুক্তিঃ ০৮ (আট) পাতা।

২৬/১১/২০২৫
মোঃ হাবিবুর রহমান
উপ-পরিচালক (পেটেন্ট)

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

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Publication of Granted Patent
No.: 11 (November 26, 2025)

(11) Patent registration No and date 1007019, 27/10/2025
(21) Appl. No. BD-P-2021-358
(22) Filed: 31/10/2021

(23) Priority Data:
Russian Federation, Number :2020136162, Date : 02-11-2020.

(71) Applicant: JOINT-STOCK COMPANY "TVEL of 49 Kashirskoe shosse, Moscow 115409, Nationality -Russian Federation

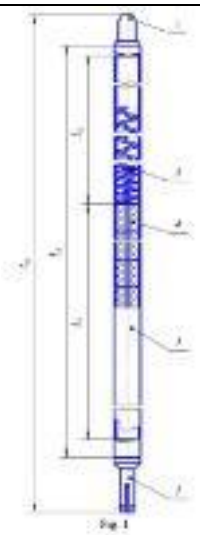
(72) Inventors: (0) NOVIKOV Vladimir Vladimirovich of kv. 614, d.12 k. 3, Tvardovskogo st. Moscow 123458, Russian Federation Nationality -Russian Federation, (1) KUZNETSOV Vladimir Ivanovich of kv. 39, d.36 k.1, Zhivopisnaya st., Moscow 123098, Russian Federation Nationality -Russian Federation, (2) MEDVEDEV Anatolii Vasilevich of kv.8, d.7 k.1, Marshal Vasilevsky st., Moscow 123098, Russian Federation Nationality -Russian Federation, (3) LAGOVSKIY Victor Borisovich of kv. 17, d.6 k.1, Raspletina st., Moscow 123060, Russian Federation Nationality -Russian Federation, (4) GIZATULLIN Timur Tagirovich of d. 33, Mayakovskogo st., Kuluevo, Argayashsky District, Chelyabinsk Region 456895, Russian Federation Nationality -Russian Federation, (5) SERGIENKO Ivan Romanivoch of kv.4, d.1/2, Mayakovskogo st., Novomoskovsk, Tula Region 301664, Russian Federation Nationality -Russian Federation

(74) Agent : MentorIP, 501, Concord Tower, 113 Kazi Nazrul Islam Avenue, Dhaka-1000, Bangladesh

(51) INT. CL. : G21C 7/30

(54) Invention Title: FUEL ELEMENT OF THE WATER-COOLED NUCLEAR POWER REACTOR

(57) Abstract
The invention relates to nuclear technology, to fuel elements of WER-1200 reactor and concerns design improvement of fuel elements for WER-1000 reactor. Summary: bottom plug design has been changed, fuel element length, as well as fuel column length and its weight, have been increased, which provides an increased reactor 5 thermal power up to 3300 MW. The reaction zone formed from the fuel assemblies is implemented taking into account the increased thermal power of the reactor, the increased height of fuel elements in fuel assemblies and can be used in a reactor vessel similar in geometric dimensions to the standard WER-1000 reactor vessel. As a result, fuel burnup increases, the possibility of increase in thermal power of the reactor 10 to ≈ 3300 MW and increase in power generation of the reactor plant as a whole are provided, while maintaining overall dimensions of WER-1000 reactor vessel and the same safety level.



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Publication of Granted Patent
No.: 11 (November 26, 2025)

(11) Patent registration No and date 1007021, 05/11/2025
(21) Appl. No. BD-P-2022-100
(22) Filed: 13/03/2022

(23) Priority Data:
India, Number :202141013547, Date : 26-03-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India

(72) Inventors: (0) Avinash GULLYAL of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) Sunil KUMAR CHIPPA of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) Dipanjan MAZUMDAR of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (3) C SUBRAMONIAM of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India

(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh

(51) INT. CL. : B60T 1/10

(54) Invention Title: A SYSTEM FOR SELECTIVELY OPERATING REGENERATIVE BRAKING IN A VEHICLE AND METHOD THEREOF

(57) Abstract

The present invention is directed to a system (100) for selectively operating regenerative braking in a vehicle. The system (100) includes a user-operable input device (110) for selecting a regenerative mode, a motor (120) for driving the vehicle, and a controller (130) coupled with the motor (120) and the user-operable input device (110). The controller (130) is configured to: receive an input signal corresponding to the regenerative mode selected by a user; receive a vehicle parameter; and enable or disable the regenerative braking for controlling operation of the motor (120) based on the regenerative mode selected by the user and the vehicle parameter.

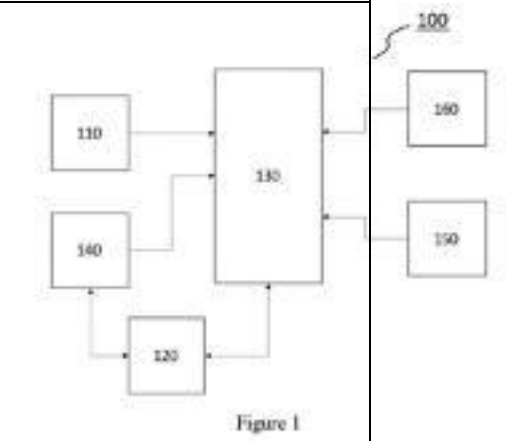

Figure 1

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
পেটেন্ট, শিল্প-নকশা ও ট্রেডমার্কস অধিদপ্তর
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(11) Patent registration No and date 1007028, 05/11/2025
(21) Appl. No. BD-P-2022-107
(22) Filed: 20/03/2022

(23) Priority Data:
India, Number :202141012343, Date : 23-03-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India

(72) Inventors: (0) KRISHNAPRASATH DHARMARAJ of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (1) PARAMESHWARAN SAMIAPPAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (2) KANDREGULA SRINIVASA RAO of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (3) SUBASH M of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India

(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh

(51) INT. CL. : B62D 55/07

(54) Invention Title: A MONO TUBE VEHICLE

(57) Abstract

The present invention relates to a mono tube vehicle (100) comprising a frame assembly (105), a motor (300); and one or more power source(s) (205a, 205b, 205c) electrically connected to the drive unit (300), for example a motor (300). The one or more power source(s) (205a, 205b, 205c) are supported by the mono tube backbone type frame assembly (105) disposed substantially along a lateral center (C-C') of said mono tube vehicle (100). The motor (300) and said at least one or more power source(s) (205a, 205b, 205c) are supported by a first bracket (195a) and a second bracket (195b) disposed substantially below the mono tube backbone type frame assembly (105) such that the first bracket (195a) and the second bracket (195b) being swingably detachably attached from the mono-tube backbone type frame assembly (105), which aids in easy accessibility of the motor (300) of the vehicle (100).

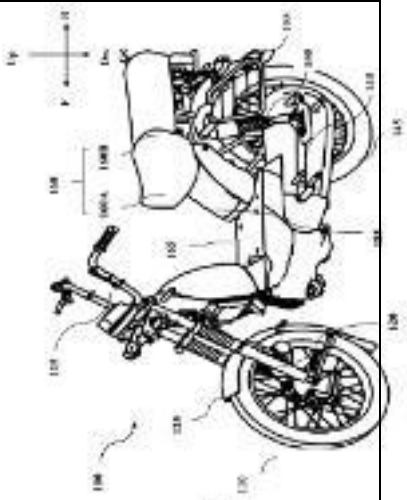

FIG 1a

গণপ্রজাতন্ত্রী বাংলাদেশ সরকার
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Publication of Granted Patent
No.: 11 (November 26, 2025)

(11) Patent registration No and date 1007027, 05/11/2025
(21) Appl. No. BD-P-2022-139
(22) Filed: 31/03/2022
(23) Priority Data:
India, Number :202141015327, Date : 31-03-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India

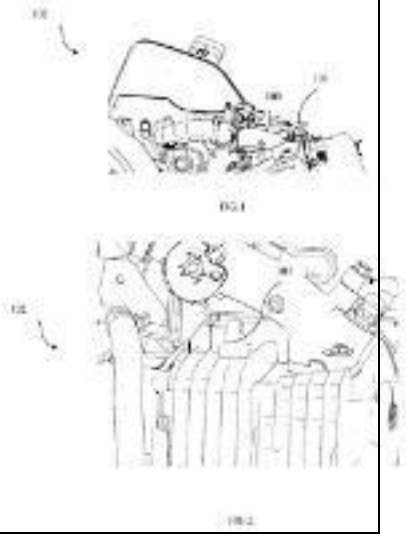
(72) Inventors: (0) SABARIRAM RAJASEKAR of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) JYOTHI KANNAN MADHESWARAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) SRIKUMAR ARAVINDAKRISHNAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India

(74) Agent : ISLAM & CO. , 19/D, East Noyatola, (3rdFloor) Mogh Bazar, Dhaka -1217 , Bangladesh

(51) INT. CL. : F01B 29/10

(54) Invention Title: AN ENGINE

(57) Abstract
The present invention provides a method to detect ambient temperature using engine temperature sensor by the concepts of conduction and convection of thermodynamics. The present invention advantageously eliminates a sensors thereby reducing cost, maintenance, and complexity of the system as a whole.



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(11) Patent registration No and date 1007020, 05/11/2025
(21) Appl. No. BD-P-2022-140
(22) Filed: 31/03/2022

(23) Priority Data:
India, Number :202141015353, Date : 31-03-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, Nationality -India

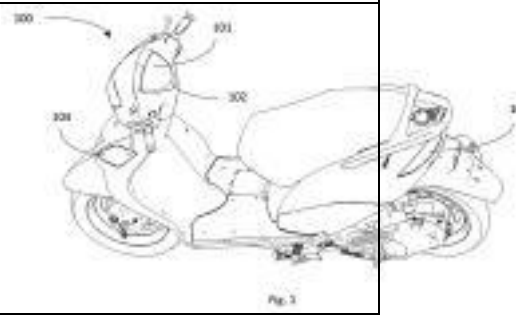
(72) Inventors: (0) VAISHALI RAMANATHAN of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (1) KRISHNAMURTHY HARI GOVINDH of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India, (2) RAGHAVENDRA PRASAD of TVS Motor Company Limited, Chaitanya, No.12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600 006, India Nationality -India

(51) INT. CL. : B60L 53/20

(54) Invention Title: SYSTEM AND METHOD OF LOCATING VEHICLE

(57) Abstract

A method for tracking a vehicle (100) by identifying and verifying one or more user devices (201), by comparing one or more vehicle parameters with a predefined threshold vehicle parameter, and by displaying graphical display for a user on one or more user devices (201). The method for tracking the vehicle (100) is implemented by a tracking system (200) comprising a communication module, a communicatively connected user device (201) and a plurality of turn signal lamps (103, 104) configured to operate the one or more user devices (201) for tracking and locating the vehicle (100) in a closed space.



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No.: 11 (November 26, 2025)

(11) Patent registration No and date 1007030, 05/11/2025
(21) Appl. No. BD-P-2022-212
(22) Filed: 12/06/2022

(23) Priority Data:
India, Number :202141029872, Date : 02-07-2021.

(71) Applicant: TVS MOTOR COMPANY LIMITED of Chaitanya, No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, Nationality -India

(72) Inventors: (0) MOSALI NAGARJUN REDDY of TVS Motor Company Limited, Chaitanya, No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (1) SRIKANTH KAANCHI MOHAN of TVS Motor Company Limited, Chaitanya, No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (2) VINYAS RAI K of TVS Motor Company Limited, Chaitanya, No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India, (3) DHINESH KUMAR RUTHIRAMOORTHY of TVS Motor Company Limited, Chaitanya, No. 12, Khader Nawaz Khan Road, Nungambakkam, Chennai 600006, India Nationality -India

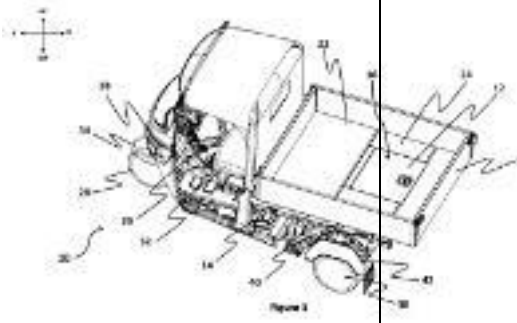
(74) Agent : Islam & Co., 19/D, East Noyatola (3rd Floor), Mogh Bazar, Dhaka-1217., Bangladesh

(51) INT. CL. : B60S 5/00

(54) Invention Title: LATCH ASSEMBLY FOR A SERVICE DOOR OF A VEHICLE

(57) Abstract

The present invention provides a latch assembly (100) for a service door (12) of a vehicle (10) is disclosed. The assembly (100) includes a handle member (102) disposed on the service door (12). The handle member (102) is operable to a first position (102a) for actuating the service door (12) to an open position (20) and to a second position (102b) for actuating the service door (12) to a closed position (16). A lever member (104) is coupled to the handle member (102). The lever member (104) is operable to an engaged position (108) and a disengaged position (126) corresponding to operation of the handle member (102). The lever member (104) in the engaged position (108) is adapted to engage with a latch stopper (110) mounted on a chassis member (14) for securing the service door (12) in the closed position (16).



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No.: 11 (November 26, 2025)

(11) Patent registration No and date 1007023, 05/11/2025
(21) Appl. No. BD-P-2023-178
(22) Filed: 02/07/2023

(23) Priority Data:
European Patent Office (EPO), Number :2022068294, Date : 01-07-2022.

(71) Applicant: Huawei Technologies Co., Ltd of Huawei Administration Building, Bantian, Longgang District, Shenzhen, Guangdong 518129, China. , Nationality -China

(72) Inventors:

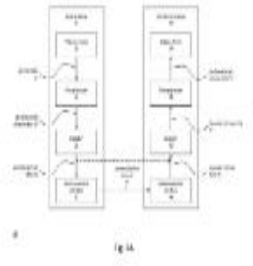
(74) Agent : ISLAM & Co., 19/D, East Noyatola, Mogh Bazar, Dhaka-1217, Bangladesh

(51) INT. CL. : H04N 19/124

(54) Invention Title: PARALLEL PROCESSING OF IMAGE REGIONS WITH NEURAL NETWORKS – DECODING, POST FILTERING, AND RDOQ

(57) Abstract

The present disclosure relates to neural-network-based picture encoding and decoding of image regions on tile-basis. An input tensor representing picture data is processed by the neural network, which includes at least a first and second subnetwork. The first subnetwork is applied to a first tensor where the first tensor is divided in a spatial dimensions into a first plurality of tiles. The first tiles are then further processed by the first subnetwork. After application of the first subnetwork, the second subnetwork is applied to a second tensor where the second tensor is divided in the spatial dimensions into a second plurality of tiles. The second tiles are then further processed by the second subnetwork. Among the first and second plurality of tiles there are at least two respective collocated tiles differing in size. In case of encoding, the first and second subnetworks perform part of compression, including picture encoding, rate distortion optimization quantization, and picture filtering. In case of decoding, the first and second subnetworks perform part of decompression, including picture decoding and picture filtering.



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শিল্প মন্ত্রণালয়
৯১, মতিঝিল বা/এ, ঢাকা-১০০০
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Publication of Granted Patent
No.: 11 (November 26, 2025)

(11) Patent registration No and date 1006986, 14/10/2025
(21) Appl. No. BD-P-2024-110
(22) Filed: 18/04/2024
(23) Priority Data:

(71) Applicant: Daffodil International University (DIU) of Daffodil Smart City, Birulia, Savar, Dhaka – 1216, Nationality -Bangladesh
(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

(51) INT. CL. : H10K 59/40

(54) Invention Title: A Cover Based on Improved Thermal Function Capable of Withstanding Excessive Radiant Heat

(57) Abstract
Every year, fire accidents cause enormous damage to life and resources around the world. The maximum heat radiation exposure from the majority of massive fire accidents does not exceed 30 KW/m2. Several firefighting machines have been employed in different parts of the world, but they are inadequate for handling such high levels of energy. To enhance the firefighting capabilities of machines, we propose a novel four-layer cover with thermal functionality, capable of withstanding heat up to 30 KW/m2. This cover would be suitable for the body of firefighting equipment. The proposed cover has the outer layer (1st layer) and the inner layer (4th layer) of the cover is made of aluminum. The outer aluminum layer is affixed to an insulation sheet, forming the second layer. The third layer of the cover is a layer of water. A set of thermoelectric peltier module will be attached to the inner aluminum sheet for a better cooling system of the proposed cover.