

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202211064932 A

(19) INDIA

(22) Date of filing of Application :12/11/2022

(43) Publication Date : 02/12/2022

(54) Title of the invention : BATTERY MANAGEMENT DEVICE FOR VEHICLES

(51) International classification :H01M0010480000, B62B0005000000, H04N0005232000, B60L0003000000, H01M0010420000

(86) International Application No :NA
Filing Date :NA

(87) International Publication No : NA

(61) Patent of Addition to Application Number :NA
Filing Date :NA

(62) Divisional to Application Number :NA
Filing Date :NA

(71)Name of Applicant :

1)Jaipur National University

Address of Applicant :Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)Urmimala Naha

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

2)M.Sashilal

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

3)Ashok Singh Gour

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

4)Harsh Shrivastava

Address of Applicant :School of Engineering & Technology, Jaipur National University, Jaipur-Agra Bypass, Near New RTO office, Jagatpura, Jaipur-302017, Rajasthan, India. Jaipur -----

(57) Abstract :

A battery management device for vehicles comprises of a body 1 developed to be positioned in proximity to a vehicle, multiple motorized wheels 2 for maneuvering body 1 in order to position body 1 in front of vehicle, an ultrasonic sensor to detect height of a bonnet portion, a telescopic rod 14 to position body 1 in proximity to bonnet, a display panel 3 for enabling a user to input model of vehicle, a pair of robotic gripper 4 to grip pair of conductive members 5, an image capturing module 6 for capturing and processing multiple images of vehicle, a multi-meter for detecting current within battery, a power storage unit 7 for supplying determined amount of current towards battery, a hydrometer 8 attached on a telescopic bar 9 for detecting a specific gravity of liquid and a conduit 10 configured with electric valve 11 for dispensing distilled water within battery.

No. of Pages : 16 No. of Claims : 5


Registrar
Jaipur National University