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 Docket No 32888
 Date/Time 2021/04/15 22:08:48

CBR Detail:

Sr. No.	Ref. No./Application No.	App. Number	Amount Paid	C.B.R. No.	Form Name	Remarks
1	R20214013282	202141017641	4000	13928	FORM 18	
2	E-12/1493/2021,CHE	202141017641	2500	13928	FORM 9	
3	202141017641	TEMP.E-1/19534/2021-CHE	1600	13928	FORM 1	DEVELOPMENT OF MACHINE LEARNING BASED SMART ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM

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 15:10 20-03-2023

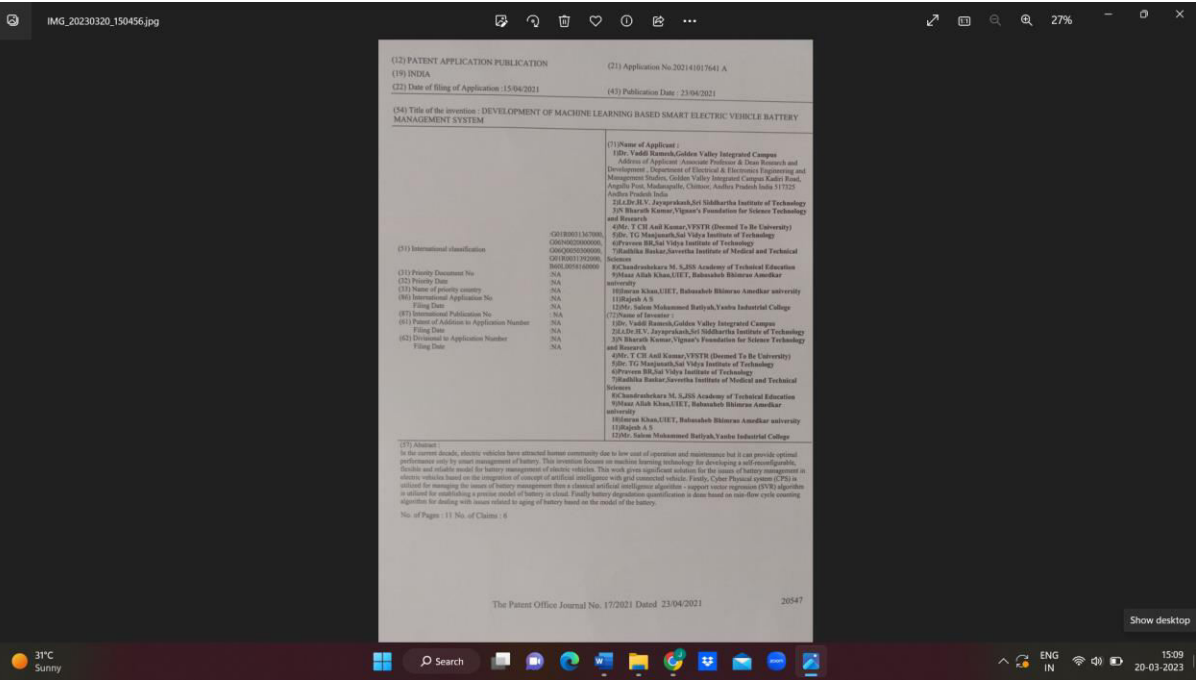

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 Department of Industrial Policy & Promotion,
 Ministry of Commerce & Industry,
 Government of India


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Application Details

APPLICATION NUMBER	202141017641
APPLICATION TYPE	ORDINARY APPLICATION
DATE OF FILING	15/04/2021
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TITLE OF INVENTION	DEVELOPMENT OF MACHINE LEARNING BASED SMART ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM
FIELD OF INVENTION	PHYSICS
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ADDITIONAL-EMAIL (As Per Record)	
E-MAIL (UPDATED Online)	
PRIORITY DATE	

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 ENG IN
 15:09 20-03-2023



(12) PATENT APPLICATION PUBLICATION (71) Application No. 2021/4017641 A
(19) INDIA
(21) Date of filing of Application : 15/04/2021 (43) Publication Date : 23/04/2021
(54) Title of the invention : DEVELOPMENT OF MACHINE LEARNING BASED SMART ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM
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(73) International classification
C01B00134700
G06N00010000
G06N00030000
G01B01170000

(31) Priority Document No. NA
(32) Priority Date NA
(33) Name of priority country NA
(86) International Application No. NA
Filing Date NA
(87) International Publication No. NA
(91) Patent of Addition or Application Number NA
Filing Date NA
(92) Disclosure by Application Number NA
Filing Date NA

(57) Abstract
In the present decade, electric vehicles have attracted human attention due to low cost of operation and maintenance but it can provide optimal performance only by smart management of battery. The invention focuses on machine learning technology for developing a self-managing, predictive and adaptive model for battery management of electric vehicles. This work gives significant solution for the issues of battery management in electric vehicles based on the integration of concept of artificial intelligence with grid connected vehicle. Firstly, Cyber Physical system (CPS) is utilized for managing the status of battery management then a shared artificial intelligence algorithm – support vector regression (SVR) algorithm is utilized for constructing a precise model of battery condition. Finally, battery diagnosis specification is done based on real-time cycle counting algorithm for finding with issues related to aging of battery based on the model of the battery.

No. of Pages : 11 No. of Claims : 6

The Patent Office Journal No. 17/2021 Dated 23/04/2021 20547

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