

(54) Title of the invention : ANALYSIS AND MANAGEMENT OF OVERLOAD PROTECTION OF EV BATTERIES FOR BRINGING FORTH ENVIRONMENT FRIENDLY

<p>(51) International classification :B27N 030200, B30B 152800, B66C 239000, C08L 930400, G06F 113600</p> <p>(86) International Application No Filing Date :PCT// :01/01/1900</p> <p>(87) International Publication No : NA</p> <p>(61) Patent of Addition to Application Number :NA Filing Date :NA</p> <p>(62) Divisional to Application Number :NA Filing Date :NA</p>	<p>(71)Name of Applicant :</p> <p>1)Dr. Anthati Sreenivasulu Address of Applicant :Associate professor, Department of chemistry, Nagarjuna Government College (A), Nalgonda -508001, Telangana, India. -----</p> <p>2)Dr. M Pala Prasad Reddy</p> <p>3)Dr. Piyush Charan</p> <p>4)Prof Dr. Jyoti Prasad Patra</p> <p>5)Dr. Manasi Vyankatesh Ghamande</p> <p>6)M Rambabu</p> <p>7)Roshan Kisan Bonde</p> <p>8)V.S.B. Engineering College</p> <p>9)Dr.P. Arul Kumar</p> <p>10)Rashi Goswami</p> <p>11)Anand Goswami</p> <p>12)Dr.Maaz Allah Khan</p> <p>Name of Applicant : NA Address of Applicant : NA</p> <p>(72)Name of Inventor :</p> <p>1)Dr. Anthati Sreenivasulu Address of Applicant :Associate professor, Department of chemistry, Nagarjuna Government College (A), Nalgonda -508001, Telangana, India. -----</p> <p>2)Dr. M Pala Prasad Reddy Address of Applicant :Associate Professor, Electrical and Electronics Engineering, Institute of Aeronautical Engineering, Hyderabad- 500043, Medchal- Malkajgiri, Telangana, India. -----</p> <p>3)Dr. Piyush Charan Address of Applicant :Associate Professor, Department of ECE, Manav Rachna University, Faridabad 121004, Haryana, India, 302007. -----</p> <p>4)Prof Dr. Jyoti Prasad Patra Address of Applicant :Professor, Head EE and EEE, Krupajal Engineering College KEC, Prasanthi Vihar, Kausalya ganga, Near CIFA, Bhubaneswar, 751002, Khurda, Odisha, India. --</p> <p>5)Dr. Manasi Vyankatesh Ghamande Address of Applicant :Assistant Professor, Vishwakarma Institute of Information Technology, Pune, Maharashtra, India. -----</p> <p>6)M Rambabu Address of Applicant :Associate Professor, Department of EEE, GMRIT Rajam 532127, Vizianagaram, Andhra Pradesh India. -----</p> <p>7)Roshan Kisan Bonde Address of Applicant :Assistant Professor, Department of Electronics and Telecommunication Engineering, Dr. Babasaheb Ambedkar Technological University, Lonere, Raigad-402103, Maharashtra, India. -----</p> <p>8)V.S.B. Engineering College Address of Applicant :V.S.B. Engineering college, Karur-639 111, Tamil Nadu, India. -----</p> <p>9)Dr.P. Arul Kumar Address of Applicant :Professor/EEE, V.S.B. Engineering College, Karur-639111, Tamil Nadu, India. -----</p> <p>10)Rashi Goswami Address of Applicant :Gyan Ganga Institute, Jabalpur 482003, Madhya Pradesh, India. -----</p> <p>11)Anand Goswami Address of Applicant :GGITS Jabalpur 482003, Madhya Pradesh, India. -----</p> <p>12)Dr.Maaz Allah Khan Address of Applicant :UIET, Babasaheb Bhimrao Ambedkar University, (A Central University), Lucknow, Uttar Pradesh, India. -----</p>
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(57) Abstract :

ANALYSIS AND MANAGEMENT OF OVERLOAD PROTECTION OF EV BATTERIES FOR BRINGING FORTH ENVIRONMENT FRIENDLY A method an electric vehicle with a battery pack positioned underneath is equipped with a protective system for the battery pack. The battery pack enclosure panel of the system's bottom battery pack is separated from the lower surface of each battery by a number of deformable cooling conduits, with a thermal insulator positioned in between. It is possible to include a layer of thermally conductive material that is in contact with a lower surface of each cooling conduit and positioned between the thermal insulator and the cooling conduits. When a piece of debris from the road contacts the lower surface of the lower battery pack enclosure panel, the cooling conduits are designed to bend and take the impact energy into account. The conditioning circuit is also set up to negate a substantial percentage of a current linked to an electrical disturbance unrelated to a malfunction.

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