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(71)Name of Applicant :
1)N.Rajeswaran
 Address of Applicant :Department of EEE Malla Reddy Engineering College Maisammaguda Secunderabad Telangana State India -----
2)Ravipati Shiva Sai Rama Krishna
3)Shaik John Sydulu
4)K.Malar
5)Dr. B.Dhanalaxmi
6)Dr. M. Saritha
7)Dr. Hemant Kumar narsetti
8)Dr.Masma Shaik
9)Dr. K. Sakkaravarthi
10)Kesava Vamsi krishna V
 Name of Applicant : NA
 Address of Applicant : NA
 (72)Name of Inventor :
1)N.Rajeswaran
 Address of Applicant :Department of EEE Malla Reddy Engineering College Maisammaguda Secunderabad Telangana State India -----
2)Ravipati Shiva Sai Rama Krishna
 Address of Applicant :H.No: 2-88/1, Jadijamalpur Village, Bodhan Mandal, Nizamabad District. -----
3)Shaik John Sydulu
 Address of Applicant :Assistant professor Department of CSE Chalapathi Institute of Engineering and Technology (A), Guntur -----
4)K.Malar
 Address of Applicant :Department of Computer Science & Engineering, Malla Reddy Institute of Engineering & Technology (Autonomous), Maisammaguda, Hyderabad, Telangana, 500100. -----
5)Dr. B.Dhanalaxmi
 Address of Applicant :Professor, Department of Computer Science & Engineering, Malla Reddy Institute of Engineering & Technology (Autonomous), Maisammaguda, Hyderabad, Telangana, 500100. -----
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6)Dr. M. Saritha
 Address of Applicant :Department of Chemistry St. Peter's Engineering College Dhulapally maisammaguda Medchal district Hyderabad 500076 -----
7)Dr. Hemant Kumar narsetti
 Address of Applicant :Department of Physics St. Peter's Engineering College Dhulapally Maisammaguda Hyderabad 500076 -----
8)Dr.Masma Shaik
 Address of Applicant :Department of Chemistry St. Peter's Engineering College Dhulapally Maisammaguda Hyderabad 500076 -----
9)Dr. K. Sakkaravarthi
 Address of Applicant :Department of Mathematics, St. Peters Engineering College, Dhulapally, Maisammaguda, Hyderabad - 500100, Telangana, India. -----
10)Kesava Vamsi krishna V
 Address of Applicant :Department of Physics, Malla Reddy Engineering College, Maisammaguda, Hyderabad 500100, Telangana, India -----

(57) Abstract :
 The pollution produced by the burning of hydrocarbons, one of the primary sources of energy for transportation, is one of the most important environmental challenges of our time. As alternative power trains for environmentally friendly transportation, Electric Vehicles (EV) are advancing quickly. In addition to including the traction components, the electrification of the vehicles is leading to new uses for electric power conversion. The DC-DC converter for supplementary power supply of electric loads is one of the essential components found within electric vehicles. This converter must be able to handle the energy transfer from the high voltage DC bus (used for the electric traction) and the 12V/24V/48V DC bus.

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