

पेटेंट कार्यालय  
शासकीय जर्नल

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पेटेंट कार्यालय का एक प्रकाशन  
PUBLICATION OF THE PATENT OFFICE

## **INTRODUCTION**

In view of the recent amendment made in the Patents Act, 1970 by the Patents (Amendment) Act, 2005 effective from 01<sup>st</sup> January 2005, the Official Journal of The Patent Office is required to be published under the Statute. This Journal is being published on weekly basis on every Friday covering the various proceedings on Patents as required according to the provision of Section 145 of the Patents Act 1970. All the enquiries on this Official Journal and other information as required by the public should be addressed to the Controller General of Patents, Designs & Trade Marks. Suggestions and comments are requested from all quarters so that the content can be enriched.

**( Shri Rajendra Ratnoo )**  
**CONTROLLER GENERAL OF PATENTS, DESIGNS & TRADE MARKS**

**7<sup>TH</sup> JANUARY, 2022**

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**THE PATENT OFFICE  
KOLKATA, 07/01/2022**

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पेटेंट कार्यालय  
कोलकाता, दिनांक 07/01/2022

• कार्यालयों के क्षेत्राधिकार के पते

विभिन्न जगहों पर स्थित पेटेंट कार्यालय के पते आंचलिक आधार पर दर्शित उनके प्रादेशिक अधिकार क्षेत्र के साथ नीचे दिए गए हैं:-

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<p>3 पेटेंट कार्यालय, भारत सरकार बौद्धिक संपदा भवन, प्लॉट सं. 32, सेक्टर- 14, द्वारका, नई दिल्ली- 110 075. फोन: (91) (11) 25300200, 28032253 फ़ैक्स: (91) (11) 28034301, 28034302 ई. मेल: delhi-patent@nic.in हरियाणा, हिमाचल प्रदेश, जम्मू तथा कश्मीर, पंजाब, राजस्थान, उत्तर प्रदेश, दिल्ली तथा उत्तरांचल राज्य क्षेत्रों, एवं संघ शासित क्षेत्र चंडीगढ़</p>	

वेबसाइट: <http://www.ipindia.nic.in>

पेटेंट अधिनियम, 1970 तथा पेटेंट (संशोधन) अधिनियम, 2005 अथवा पेटेंट (संशोधन) नियम, 2006 द्वारा वांछित सभी आवेदन, सूचनाएं, विवरण या अन्य दस्तावेज़ या कोई शुल्क पेटेंट कार्यालय के केवल उपयुक्त कार्यालय में स्वीकृत होंगे। शुल्क: शुल्क या तो नगद रूप में या Controller of Patents के नाम में देय बैंक ड्राफ्ट या चेक के द्वारा भेजी जा सकती है जो उसी स्थान के किसी अनुसूचित बैंक में प्रदत्त हो जहाँ उपयुक्त कार्यालय स्थित है।

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(19) INDIA

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(54) Title of the invention : DC-DC CONVERTER UNIT FOR POWER REGULATION AND CHARGING OF BATTERIES IN ELECTRIC VEHICLE

<p>(51) International classification : H02J0007000000, H02M0003156000, B60L0050500000, H02S0040380000, H02J0007220000</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 Filing Date : NA : NA</p> <p>(62) Divisional to Application Number Filing Date : NA : NA</p>	<p>(71) Name of Applicant :  <b>1) Malla Reddy Engineering College (Autonomous)</b>  Address of Applicant : Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p>Name of Applicant : NA  Address of Applicant : NA</p> <p>(72) Name of Inventor :  <b>1) DR N RAJESWARAN</b>  Address of Applicant : Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>2) DR P MARIMUTHU</b>  Address of Applicant : Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>3) DR T RAJESH</b>  Address of Applicant : Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>4) DR M KONDALU</b>  Address of Applicant : Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>5) DR KOTA PRASAD RAO</b>  Address of Applicant : Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>6) DR P SARALA</b>  Address of Applicant : Associate Professor, Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>7) E RATHNAKAR</b>  Address of Applicant : Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p> <p><b>8) SK BAJI BABA</b>  Address of Applicant : Malla Reddy Engineering College (Autonomous) Dulapally Road, Maisammaguda (Post) via. Kompally, Secunderabad, Hyderabad, Rangareddy District, Telangana – 500100, India. -----</p>
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(57) Abstract :  
7. ABSTRACT A dc-dc converter power regulation and charging of a battery in an electric vehicle is disclosed wherein the system(10) comprises of, a 230v main supply(1), a transformer circuit(3), a bridge full wave rectifier circuit(4), a capacitor(8), an IC 7805 voltage regulator(6), a resistor(7) and a led arrangement(9) furthermore a filter circuit (5), a set of comparators(2) and timer circuits were also preinstalled inside the said system(10). The said filters (5) are electronic circuits, which perform signal-processing functions, specifically to remove unwanted frequency components from the signal and to enhance wanted ones. The said system (10) allows a high initial charge current that tapers off until the said battery reaches full charge and the said system (10) uses a constant current, allowing the voltage to rise until the said battery voltage reaches a full charge. Wherein the said system (10) when the charge current is then turned off to prevent overcharging. The Figure associated with the Abstract is Fig 1A and 1B.

No. of Pages : 13 No. of Claims : 10