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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 01st 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.

(PROF. (DR) UNNAT P. PANDIT)
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14th February, 2025

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**THE PATENT OFFICE
KOLKATA, 14/02/2025**

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कोलकाता, दिनांक 14/02/2025
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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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		

वेबसाइट: <http://www.ipindia.nic.in>
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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।

SPECIAL NOTICE

18 Months publication as required under Section 11A of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005.

Notice is hereby given that any person at any time before the grant of Patent may give representation by way of opposition to the Controller of Patents at appropriate office on the ground and in a manner specified under section 25(1) of the Patents (Amendment) Act, 2005 read with Rule 55 of the Patents (Amendment) Rules, 2006.

Notice is also given that if any interested person requests for copies of the complete specification, drawing and abstract of any application already published, the photocopy of the same can be supplied by the Patent Office as per the jurisdiction on payment of prescribed fees of Rs.8/- per page. If any further details are required to be obtained, the same can be provided by the respective Patent Offices on request.

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SPECIAL NOTICE

Under the new provision of the Patents Act, 1970 as amended by the Patents (Amendment) Act, 2005 and Rules there under, Publication of the matter relating to Patents in the Official Gazette of India Part III, Section 2 has been discontinued and instead The Official Journal of the Patent Office is being published containing all the activities of The Patent Office such as publication of all the patent applications after 18th months , grant of patents & all other information in respect of the proceedings as required under the provisions of the Patents (Amendment) Act, 2005 and Rules thereunder on weekly basis on every **Friday**.

The Journal is uploaded in the website every Friday. So Paper form and CD-ROM form of the Journal are discontinued from 01/01/2009.

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(54) Title of the invention : A MULTI-PULSE AUTOTRANSFORMER BASED AC-DC CONVERTER

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(71)Name of Applicant :

1)MALAVIYA NATIONAL INSTITUTE OF TECHNOLOGY JAIPUR

Address of Applicant :JAWAHAR LAL NEHRU MARG, MALAVIYA NAGAR, JAIPUR, RAJASTHAN 302017, INDIA JAIPUR -----

Name of Applicant : NA

Address of Applicant : NA

(72)Name of Inventor :

1)SARAVANA PRAKASH P

Address of Applicant :Malaviya National Institute of Technology, Jaipur, Jawahar Lal Nehru Marg, Jaipur-302017, Rajasthan, India Jaipur -----

2)IZHAR AHMAD SAIFI

Address of Applicant :Malaviya National Institute of Technology, Jaipur, Jawahar Lal Nehru Marg, Jaipur-302017, Rajasthan, India Jaipur -----

(57) Abstract :

The invention relates to a multi-pulse autotransformer based AC-DC Converter. A multi-pulse autotransformer based AC-DC Converter, comprises of a plurality of phases with each phase amongst the plurality of phases comprising a plurality of windings. Each winding amongst the plurality of windings comprises a plurality of undotted terminals and a plurality of dotted terminal. The autotransformer based AC-DC Converter operates as a 24-pulse AC-DC Converter and 36-pulse AC-DC Converter. The multi-pulse autotransformer based AC-DC conversion achieves a kVA rating of 37.98% and 39.41% of the load for 24 and 36 pulse operations, respectively, due to its efficiently arranged windings. The simple winding structure of the multi-pulse autotransformer based AC-DC transformer results in a lower kVA rating as well as reduces manufacturing costs compared to more complex designs. [TO BE PUBLISHED WITH FIG 1]

No. of Pages : 43 No. of Claims : 8

(51) International classification :G06N0020000000, G06F0021620000, G06N0003045000, G06F0016270000, G06N0005043000 (86) International Application No :NA (87) International Publication No : NA (61) Patent of Addition to Application Number :NA (62) Divisional to Application Number :NA		(71)Name of Applicant : 1)Dr. Ajay Kumar Boyat Address of Applicant :Ex. Assistant Professor, Department of Electronics Engineering, Mediacaps University, Indore, Madhya Pradesh, 453331, India ----- 2)Dr. K. B. Venkata Brahma Rao 3)Chandra Sekhar Kolli 4)Dr. Nidhi Sharma 5)Mrs. A. Sushma 6)Dr. Prasanta Kumar Parida 7)Ravi Kumar Balleda 8)Shiny R M Name of Applicant : NA Address of Applicant : NA (72)Name of Inventor : 1)Dr. Ajay Kumar Boyat Address of Applicant :Ex. Assistant Professor, Department of Electronics Engineering, Mediacaps University, Indore, Madhya Pradesh, 453331, India ----- 2)Dr. K. B. Venkata Brahma Rao Address of Applicant :Professor, Department of Computer Science and Engineering, Koneru Lakshmaiah Education Foundation, Vaddeswaram, Andhra Pradesh, 522302, India ----- 3)Chandra Sekhar Kolli Address of Applicant :Associate Professor, Department of Computer Science and Engineering, Aditya University, Surampalem, Andhra Pradesh, 533437, India ----- 4)Dr. Nidhi Sharma Address of Applicant :Assistant Professor, Department of Computer Engineering, The Technological Institute of Textile and Sciences, Bhiwani, Haryana, 127021, India ----- 5)Mrs. A. Sushma Address of Applicant :Assistant Professor, Department of Electronics and Communication Engineering, Mallareddy College of Engineering for Women, Hyderabad, Telangana, 500054, India ----- 6)Dr. Prasanta Kumar Parida Address of Applicant :Associate Professor, KIIT School of Rural Management, KIIT University, Bhubaneswar, Odisha, 751024, India ----- 7)Ravi Kumar Balleda Address of Applicant :Associate Professor, Department of Computer Science, GITAM School of Science, GITAM (Deemed to be University), Visakhapatnam, Andhra Pradesh, 530045, India ----- 8)Shiny R M Address of Applicant :Assistant Professor, Department of Computer Science and Engineering, St. Joseph's College of Engineering, OMR, Chennai, Tamil Nadu, 600119, India -----
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(57) Abstract :
] The present invention relates to a Federated Learning System for Privacy-Preserving Data Analytics Across Distributed Networks. The present invention comprises a plurality of edge devices or data sources each storing local datasets, a central server configured to receive model updates from the edge devices, aggregate the received updates, and update a global machine learning model, a model aggregation module on the central server, configured to aggregate model updates received from the edge devices, a data privacy module configured to ensure that no raw data is transmitted from the edge devices to the central server, wherein only model updates, such as gradients or parameters, are transmitted, and a local model training module on each edge device, configured to train the local machine learning model using only the local dataset and communicate the model updates to the central server. Accompanied Drawing [FIG. 1]

A method for privacy-preserving data analytics across distributed networks using a federated learning system

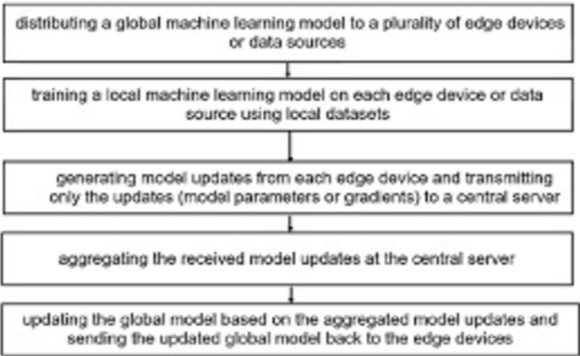


Figure. 1