

पेटेंट कार्यालय  
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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**

**8<sup>th</sup> JANUARY, 2021**

(12) PATENT APPLICATION PUBLICATION

(21) Application No.202021049289 A

(19) INDIA

(22) Date of filing of Application :11/11/2020

(43) Publication Date : 08/01/2021

(54) Title of the invention : ZERO VENTILATED INDUCTION SEALING DEVICE WITH IMPROVED SPATIAL DISTRIBUTION OF OPTIMIZED POWER LOSS

(51) International classification	:H01L21/00	(71)Name of Applicant :
(31) Priority Document No	:NA	<b>1)Electronics Devices Worldwide Private Limited</b>
(32) Priority Date	:NA	Address of Applicant :31, Mistry Industrial Estate, Cross Road
(33) Name of priority country	:NA	A, MIDC, Andheri (East), Mumbai - 400093, Maharashtra, India.
(86) International Application No	:NA	Maharashtra India
Filing Date	:NA	(72)Name of Inventor :
(87) International Publication No	: NA	<b>1)PAUL, Arun Kumar</b>
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
Filing Date	:NA	

(57) Abstract :

An induction sealing device are provided for sealing of the opening of the container traveling in a predetermined workflow direction. The induction sealing device includes a housing; an induction coil head disposed over the housing; and a control circuitry. The induction coil head includes a plurality of spatially apart coil segments arranged in the workflow direction. The plurality of coil segments includes a first set of coil segments and a second set of coil segments, wherein the second set of coil segments are arranged between the first segments such that a center of each of the second set of coil segments is located at predefined distance from an axis connecting a center of each of the first set of coil segments. The induction sealing head uses ZVZCS topology to reduce power loss significantly elsewhere and make it suitable for zero ventilated enclosure.

No. of Pages : 29 No. of Claims : 8

(12) PATENT APPLICATION PUBLICATION

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(19) INDIA

(22) Date of filing of Application :24/11/2020

(43) Publication Date : 08/01/2021

(54) Title of the invention : TRANSFORMER WITH MIXED-CORE CONFIGURATION IN INDUCTION HEATING SYSTEM

(51) International classification	:H03H 11/00	(71) <b>Name of Applicant :</b> <b>1)Electronics Devices Worldwide Private Limited</b>
(31) Priority Document No	:NA	Address of Applicant :31, Mistry Industrial Estate, Cross Road
(32) Priority Date	:NA	A, MIDC, Andheri (East), Mumbai - 400093, Maharashtra, India.
(33) Name of priority country	:NA	Maharashtra India
(86) International Application No	:NA	(72) <b>Name of Inventor :</b>
Filing Date	:NA	<b>1)PAUL, Arun Kumar</b>
(87) International Publication No	: NA	
(61) Patent of Addition to Application Number	:NA	
Filing Date	:NA	
(62) Divisional to Application Number	:NA	
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(57) Abstract :

A mixed-core transformer for induction heating system is disclosed. The mixed-core transformer facilitates maximum power delivery without increasing the power loss. The mixed-core transformer provides an improvement of its thermal limit by having superior temperature distribution in cores and windings. The multiple core configuration are arranged in the transformer based on the core score. The transformer includes an inner core having a core score, the core score being associated with magnetic characteristics, thermal characteristics, and core loss of inner core; an outer core configured outside the inner core such that the outer core covers at least a portion of the inner core, the outer core having a core score which is less than the core score, wherein the core score is associated with magnetic and thermal characteristics of the outer core; and a primary winding and a secondary winding, configured with each of the inner and the outer cores.

No. of Pages : 36 No. of Claims : 9