

Title (en)  
TRANSFORMER FOR A MODULAR, POWER ELECTRONIC CONVERTER

Title (de)  
TRANSFORMATOR FÜR EINEN MODULAREN, ELEKTRONISCHEN STROMWANDLER

Title (fr)  
TRANSFORMATEUR POUR UN CONVERTISSEUR ÉLECTRONIQUE DE PUISSANCE MODULAIRE

Publication  
**EP 3091543 A1 20161109 (EN)**

Application  
**EP 15166445 A 20150505**

Priority  
EP 15166445 A 20150505

Abstract (en)  
A transformer for a modular converter comprises a core (1) having a core window; a first winding (20), in particular a high-voltage winding, surrounding a first section of the core, said first winding enclosed by an encapsulation (21) made from solid, electrically insulating material; a second winding (30), in particular a low-voltage winding, surrounding the first or a second section of the core; an electrically insulating supporting structure attached to the first winding, in particular to the encapsulation, for holding the first winding in a defined position relative to the core; wherein the supporting structure is not extending into the core window.

IPC 8 full level  
**H01F 27/08** (2006.01)

CPC (source: EP)  
**H01F 27/085** (2013.01)

Citation (applicant)  
• WO 2014037406 A1 20140313 - ABB TECHNOLOGY AG [CH]  
• DE 102010044322 A1 20120308 - BOMBARDIER TRANSP GMBH [DE], et al  
• EP 0820893 A2 19980128 - ABB DAIMLER BENZ TRANSP [DE]

Citation (search report)  
• [XY] US 2015109081 A1 20150423 - PATEL DHIRU S [CA]  
• [XY] DE 102005058119 A1 20070531 - SIEMENS AG [DE]  
• [YA] EP 2703208 A1 20140305 - ABB TECHNOLOGY AG [CH]  
• [A] EP 2790195 A1 20141015 - ABB TECHNOLOGY AG [CH]

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CN110637348A; EP3660874A1; CN113168958A; WO2020108867A1; EP3125260A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)  
BA ME

DOCDB simple family (publication)  
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