

Title (en)  
Compact low-loss triangular transformer and method for producing the same

Title (de)  
Kompakter verlustarmer dreieckiger Transformator und Verfahren zu dessen Herstellung

Title (fr)  
Transformateur triangulaire à faibles pertes de compact et son procédé de production

Publication  
**EP 2814045 A1 20141217 (EN)**

Application  
**EP 13172024 A 20130614**

Priority  
EP 13172024 A 20130614

Abstract (en)  
A triangular transformer is provided. It comprises a core including at least three distinct elongated frame sections, each having two end portions, the frame sections being composed of layered sheets of a ferromagnetic material, wherein the frame sections are mounted together to form the triangular core, and wherein each end portion of a first frame section abuts at least one end portion of a second frame section at a joint region, and wherein in at least one joint region comprising a first end portion of a first frame section and an abutting first end portion of a second frame section, the normal vectors of the abutting end portions of abutting sheets have the same direction, and wherein the at least two normal vectors are substantially parallel to a longitudinal axis of the transformer, and/or a cross-sectional plane through the at least one joint region and perpendicular to the abutting sheets of that at least one joint region is substantially parallel to the longitudinal axis. Further, methods for producing such transformers are provided.

IPC 8 full level  
**H01F 27/00** (2006.01)

CPC (source: EP)  
**H01F 27/245** (2013.01); **H01F 30/12** (2013.01); **H01F 27/263** (2013.01)

Citation (search report)  
• [Y] KR 101026357 B1 20110405 - KP ELECTRIC CO LTD [KR]  
• [Y] WO 9909567 A1 19990225 - ALLIED SIGNAL INC [US]  
• [A] GB 616536 A 19490124 - BRITISH THOMSON HOUSTON CO LTD  
• [A] EP 0962949 A1 19991208 - LAGOR S R L [IT]

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Designated contracting state (EPC)  
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DOCDB simple family (publication)  
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