

Title (en)

Method for manufacture of triangular transformer cores made of amorphous metal

Title (de)

Verfahren zur Herstellung dreieckiger Transformatorkerne, die aus amorphem Metall hergestellt werden

Title (fr)

Procédé pour la fabrication de noyaux de transformateur triangulaires fabriqués en métal amorphe

Publication

EP 2395521 A1 20111214 (EN)

Application

EP 10005874 A 20100608

Priority

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Abstract (en)

The invention relates to a method for manufacture of cores for three phase transformer (10) whereas the core (14) is composed of three frames (16) designed to be combined so that each transformer core leg (18) is composed of two frame legs (18), whereas the transformer core legs (16) are arranged in a triangular configuration, and the cross-section of the core legs (20) have a circular or polygonal shape, and where the core frames (16) are made of layers of at least one continuously wound band (22) of low-loss magnetic material, whereas the width of the bands (22) is adjusted according to the respective layer of the core leg (20) by means of laser (24) cutting.

IPC 8 full level

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CPC (source: EP KR)

H01F 27/25 (2013.01 - EP); **H01F 30/12** (2013.01 - EP KR); **H01F 41/02** (2013.01 - KR); **H01F 41/0226** (2013.01 - EP)

Citation (search report)

- [XA] WO 0182316 A1 20011101 - A T T ADVANCED TRANSFORMER TEC [IL], et al
- [A] US 5537089 A 19960716 - GREIF MILTON J [US], et al
- [A] US 2004085173 A1 20040506 - DECRISTOFARO NICHOLAS J [US], et al

Cited by

FR3112648A1; EP2618347A1; EP2704164A1; AU2013307521B2; EP2618346A1; CN104081481A; RU2635098C1; US9484141B2; WO2013107481A1; WO2013107480A1; WO2022018344A1; WO2014032930A1; WO2016142504A1; US11158449B2; WO2013108247A1; US9343210B2

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Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 10005874 A 20100608; BR PI1103036 A 20110607; CN 201110162140 A 20110607; ES 10005874 T 20100608; KR 20110054658 A 20110607; PL 10005874 T 20100608