

Title (en)

Transformer core

Title (de)

Transformatorkern

Title (fr)

Noyau de transformateur

Publication

EP 2337040 A1 20110622 (DE)

Application

EP 09015662 A 20091218

Priority

EP 09015662 A 20091218

Abstract (en)

The core (14) has transformer core laminations with a horizontal projection, and a passage opening (18) provided in the horizontal projection. The transformer core laminations consist of an amorphous ferromagnetic material, and the core comprises a heat sink (16) that is formed by a heat pipe (20). The heat pipe is designed as a thermosiphon and is included in a sound insulation unit of a power transformer. The heat pipe is made of a material e.g. copper alloy, comprising heat-conducting characteristics or noise-damping characteristics.

Abstract (de)

Die Erfindung betrifft einen Transformator für einen Leistungstransformator, der wenigstens zwei zumindest annähernd kongruent und parallel zueinander angeordnete Transformatorkerne mit einem zumindest ähnlichen Grundriss aufweist, wobei in dem Grundriss wenigstens jeweils eine Durchgangsöffnung vorgesehen ist und die Transformatorkerne aus einem amorphen ferromagnetischen Material bestehen wobei der von den wenigstens zwei Transformatorkerne gebildete Transformator eine Wärmesenke aufweist, die von wenigstens einem Wärmerohr gebildet ist.

IPC 8 full level

H01F 27/18 (2006.01); **F28D 15/02** (2006.01); **H01F 27/24** (2006.01)

CPC (source: EP)

F28D 15/02 (2013.01); **H01F 27/18** (2013.01); **H01F 27/24** (2013.01)

Citation (applicant)

- US 4734975 A 19880405 - BALLARD DONALD E [US], et al
- DE 9006635 U1 19900816

Citation (search report)

- [X] GB 2420913 A 20060607 - BOMBARDIER TRANSP GMBH [DE]
- [X] EP 2079087 A1 20090715 - SIEMENS AG [DE]
- [X] JP S60163412 A 19850826 - MATSUSHITA ELECTRIC IND CO LTD
- [A] US 2008012436 A1 20080117 - NEAL GRIFFITH D [US]
- [A] US 2005224280 A1 20051013 - AISENBREY THOMAS [US]

Cited by

CN108231358A

Designated contracting state (EPC)

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 SE SI SK SM TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

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