

Title (en)  
ELECTRIC TRANSFORMER COMPRISING AN INSULATING MATERIAL, AND METHOD FOR MANUFACTURING SUCH A TRANSFORMER

Title (de)  
ELEKTRISCHER TRANSFORMATOR, DER EIN ISOLIERMATERIAL UMFASST, UND HERSTELLUNGSVERFAHREN EINES SOLCHEN TRANSFORMATORS

Title (fr)  
TRANSFORMATEUR ÉLECTRIQUE COMPORTANT UN MATÉRIAU ISOLANT, ET PROCÉDÉ DE FABRICATION D'UN TEL TRANSFORMATEUR

Publication  
**EP 3273454 B1 20181003 (FR)**

Application  
**EP 17181119 A 20170713**

Priority  
FR 1657075 A 20160722

Abstract (en)  
[origin: JP2018014499A] PROBLEM TO BE SOLVED: To provide an electric transformer capable of preventing the appearance of cracks in an insulating material and also improving heat exchange with an external environment.SOLUTION: The present electrical transformer 10 comprises: a magnetic core 16; a first coil winding 18 wound around the magnetic core 16 and receiving an input alternating current at an input part; a second coil winding 20 wound around the magnetic core 16 and providing an output alternating current at an output part; a receiving space 22 defined between the first coil winding 18 and the second coil winding 20; and an insulating material 30 cast inside the receiving space 22 for electrically insulating the first coil winding 18 from the second coil winding 20. The insulating material 30 comprises a plurality of alumina particles, and includes a silicon-based elastomer containing the plurality of alumina particles.SELECTED DRAWING: Figure 2

IPC 8 full level  
**H01F 27/32** (2006.01)

CPC (source: EP)  
**H01F 27/324** (2013.01); **H01F 27/327** (2013.01)

Cited by  
CN113825807A

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

DOCDB simple family (publication)  
**EP 3273454 A1 20180124; EP 3273454 B1 20181003**; CN 107644731 A 20180130; CN 107644731 B 20210910; ES 2704293 T3 20190315; FR 3054365 A1 20180126; FR 3054365 B1 20180831; JP 2018014499 A 20180125

DOCDB simple family (application)  
**EP 17181119 A 20170713**; CN 201710590453 A 20170719; ES 17181119 T 20170713; FR 1657075 A 20160722; JP 2017140522 A 20170720