

Title (en)

Resin molded coil and molded transformer using the same

Title (de)

Harzgeformte Spule und geformter Transformator damit

Title (fr)

Bobine moulée en résine et transformateur moulé l'utilisant

Publication

EP 2479764 A3 20120822 (EN)

Application

EP 12151409 A 20120117

Priority

JP 2011010366 A 20110121

Abstract (en)

[origin: EP2479764A2] A resin molded coil is configured by providing multiple layers of a prepreg layer (41,42,43,44) and a fiber glass-base layer (31,32,33,34) in the inner/outer circumference resin layers in the radial direction of the concentric circle of a coil (1) and a winding wire to make the resin layer multiply-layered and subdivided. This configuration reduces the resin contraction amount of each layer and increases crack resistance.

IPC 8 full level

H01F 27/32 (2006.01); **H01F 30/12** (2006.01)

CPC (source: EP)

H01F 27/327 (2013.01); **H01F 30/12** (2013.01); **H01F 2027/328** (2013.01)

Citation (search report)

- [XY] US 2010134227 A1 20100603 - MORI MITSUTOSHI [JP], et al
- [X] JP S5662311 A 19810528 - HITACHI LTD
- [X] JP S6059724 A 19850406 - TOSHIBA KK
- [X] JP S6053007 A 19850326 - TOSHIBA KK
- [X] JP S5515268 A 19800202 - MATSUSHITA ELECTRIC IND CO LTD
- [X] JP S5681907 A 19810704 - TOKYO SHIBAURA ELECTRIC CO
- [YA] JP 2010219251 A 20100930 - SUMITOMO ELECTRIC INDUSTRIES
- [A] JP S61177702 A 19860809 - MITSUBISHI ELECTRIC CORP
- [A] JP 2000012343 A 20000114 - HITACHI LTD
- [A] JP H11214237 A 19990806 - HITACHI LTD
- [A] JP H03107307 A 19910507 - HITACHI LTD

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)

EP 2479764 A2 20120725; EP 2479764 A3 20120822; EP 2479764 B1 20140430; CN 102610383 A 20120725; CN 102610383 B 20151104; JP 2012151374 A 20120809; JP 5663322 B2 20150204

DOCDB simple family (application)

EP 12151409 A 20120117; CN 201210019837 A 20120120; JP 2011010366 A 20110121