

Title (en)  
Coil-fixture and oil-transformer

Title (de)  
Spulenhalterung und Öltransformator

Title (fr)  
Appareil de bobine et transformateur immergé

Publication  
**EP 2602799 A1 20130612 (EN)**

Application  
**EP 11009669 A 20111208**

Priority  
EP 11009669 A 20111208

Abstract (en)  
The invention is related to a coil-fixture (10, 36, 38, 60, 62, 70, 90) for mounting on a front side of a hollow cylindrical high voltage transformer coil (32, 58), comprising a ring-shaped ground plate (12, 72, 164) with an inner opening (14, 80, 114) for a limb (54, 56) of a transformer core (52) and rib-like spacer-elements (16, 18, 74, 76, 92, 94, 96, 98) suitable for supporting at least the weight of a belonging transformer coil (32, 58), which are arranged flat on one side of the ground-plate (12, 72, 164). Flow-channels (24, 26, 40, 42, 108, 110, 112) are foreseen inbetween the spacer elements (16, 18, 74, 76, 92, 94, 96, 98), which are leading directly or indirectly to an area around the inner opening (14, 80, 114). The ground-plate (12, 72, 164) and the rib-like spacer elements (16, 18, 74, 76, 92, 94, 96, 98) are manufactured as one monolithic part.. The invention also relates to an oil transformer, comprising a transformer vessel and a transformer core (52) with at least one transformer coil (32, 58) mounted therein, whereas the transformer coil is clamped inbetween two coil fixtures (10, 36, 38, 60, 62, 70, 90) whereas at least one coil fixture is built according to the invention.

IPC 8 full level  
**H01F 27/30** (2006.01)

CPC (source: EP)  
**H01F 27/306** (2013.01)

Citation (search report)  
• [XII] US 2011267161 A1 20111103 - MACLENNAN GRANT A [US], et al  
• [XII] US 4983859 A 19910108 - NAKAJIMA SHIN [JP], et al  
• [A] JP 2009283757 A 20091203 - TOSHIBA IND PRODUCTS MFG CORP  
• [A] JP S51127500 A 19761106 - NITTO ELECTRIC IND CO

Cited by  
CN110060855A; CN112599338A; CN106356186A; CN112951556A; US2023395314A1; US2024013963A1; US11881349B2

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 2602799 A1 20130612; EP 2602799 B1 20151202**

DOCDB simple family (application)  
**EP 11009669 A 20111208**