

Title (en)
ROTATING TRANSFORMER

Title (de)
ROTIERENDER TRANSFORMATOR

Title (fr)
TRANSFORMATEUR TOURNANT

Publication
EP 1941522 B1 20170802 (FR)

Application
EP 06831003 A 20061024

Priority
• FR 2006002387 W 20061024
• FR 0510985 A 20051027

Abstract (en)
[origin: WO2007048920A1] A transformer makes it possible to transmit electric power by electromagnetic induction between first (11) and second coils concentrically arranged on first (7) and second (8) tubular parts, respectively, which are made of a ferromagnetic material and coaxially mounted in such a way that the external surface (13a, 13b, 13c) of one part is rotatable in front of the internal surface (14a, 14b, 14c) of the other part. Each surface consists of two straight cylindrical rotatable surfaces (13a, 13c; 14a, 14c) which have different diameters and extend from one axial end of the part (7; 8) to the intermediate radial flange (13b; 14b) of the connection thereof. Said parts (7; 8) are arranged in a head-to-tail manner one into another in such a way that an annular space is delimited between the flanges (13b; 14b) for receiving the coils (11, 12) between two gaps each of which is delimited by two (13a, 14a; 13b, 14b) cylindrical surfaces positioned in front of the first (7) and second (8) parts. Each coil comprises at least one layer of several tape-shaped threads.

IPC 8 full level
H01F 41/04 (2006.01); **H01F 27/28** (2006.01); **H01F 38/18** (2006.01)

CPC (source: EP US)
H01F 38/18 (2013.01 - EP US); **H01F 41/061** (2016.01 - EP US); **H01F 27/2847** (2013.01 - EP US); **Y10T 29/49073** (2015.01 - EP US)

Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
WO 2007048920 A1 20070503; CA 2627226 A1 20070503; CA 2627226 C 20160216; EP 1941522 A1 20080709; EP 1941522 B1 20170802; FR 2892848 A1 20070504; FR 2892848 B1 20091225; JP 2009514203 A 20090402; JP 4955691 B2 20120620; US 2009295523 A1 20091203; US 8421570 B2 20130416

DOCDB simple family (application)
FR 2006002387 W 20061024; CA 2627226 A 20061024; EP 06831003 A 20061024; FR 0510985 A 20051027; JP 2008537137 A 20061024; US 8403406 A 20061024