

Title (en)
COIL FOR PRODUCING A MAGNETIC FIELD

Title (de)
SPULE ZUM ERZEUGEN EINES MAGNETFELDES

Title (fr)
BOBINE POUR CREER UN CHAMP MAGNETIQUE

Publication
EP 1829062 A1 20070905 (DE)

Application
EP 06792434 A 20061018

Priority
• EP 2006010038 W 20061018
• DE 102005052602 A 20051102

Abstract (en)
[origin: US2009140831A1] The invention relates to a coil for producing a magnetic field having at least one winding (12), which is manufactured from a superconductor, is cast into a plastic and whose winding end (19) which is arranged at the circumference (13) of the winding (12) is used for making contact with an electrical conductor (15). In order to provide coils with windings (12) consisting of superconductors which make robust contact-making possible given simple production, an electrically conductive connection piece (30) with a base region (31), which is connected to the winding end (19), and a top region (32) for connecting the conductor (15) is provided for contact-making purposes, the base region (31) of said connection piece (30) being covered partially in the radial direction by a reinforcing insert (14), which is cast into the plastic (20) and at least partially surrounds the winding (12).

IPC 8 full level
H01F 6/06 (2006.01); **H10N 60/01** (2023.01)

CPC (source: EP KR US)
H01F 6/06 (2013.01 - KR); **H01F 6/065** (2013.01 - EP US); **H01F 27/327** (2013.01 - EP US); **Y10S 336/01** (2013.01 - EP US); **Y10S 505/739** (2013.01 - EP US); **Y10S 505/924** (2013.01 - EP US)

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

Designated extension state (EPC)
AL BA HR MK YU

DOCDB simple family (publication)
US 2009140831 A1 20090604; **US 7843292 B2 20101130**; AT E498185 T1 20110215; AU 2006310844 A1 20070510; AU 2006310844 B2 20091119; CA 2625952 A1 20070510; CN 101300647 A 20081105; CN 101300647 B 20110608; DE 102005052602 B3 20070308; EP 1829062 A1 20070905; EP 1829062 B1 20110209; JP 2009515325 A 20090409; KR 101050210 B1 20110719; KR 20080066698 A 20080716; NZ 568752 A 20100129; WO 2007051525 A1 20070510

DOCDB simple family (application)
US 8451106 A 20061018; AT 06792434 T 20061018; AU 2006310844 A 20061018; CA 2625952 A 20061018; CN 200680040607 A 20061018; DE 102005052602 A 20051102; EP 06792434 A 20061018; EP 2006010038 W 20061018; JP 2008538275 A 20061018; KR 20087009944 A 20061018; NZ 56875206 A 20061018