Title (en)

ELECTRICAL WINDING

Publication

EP 0122133 B1 19870708 (EN)

Application

EP 84302366 A 19840406

Priority

GB 8309558 A 19830408

Abstract (en)

[origin: EP0122133A1] A solenoid, more especially for use in nuclear magnetic resonance spectroscopy where the coil windings need to be very accurately located, has a multiplicity of elongate elements spaced around and accurately positioned on the outside of a cylindrical former, the elements having locating means, conveniently in the form of slots, which together define a helix and these serve to locate a respective coil winding. The elongate elements support a further layer of elements, also having locating means which serve to locate a further winding, and these elements support further elements and so on to provide required number of winding layers. Means are also described for maintaining the solenoid at a substantially uniform temperature.

IPC 1-7

H01F 5/02; H01F 7/20; H01F 27/08; H01F 15/02

IPC 8 full level

A61B 10/00 (2006.01); **A61B 5/055** (2006.01); **G01R 33/381** (2006.01); **H01F 5/02** (2006.01); **H01F 7/20** (2006.01); **H01F 27/02** (2006.01); **H01F 27/08** (2006.01)

CPC (source: EP)

H01F 5/02 (2013.01); **H01F 7/20** (2013.01); **H01F 27/027** (2013.01); **H01F 27/08** (2013.01)

Cited by

DE112006003946B4; CN106024261A; EP0242734A3; EP3818955A1; EP1744330A1; FR2616005A1; EP0167128A3; EP2196605A1; FR2939827A1; US4884409A; CH675791A5; DE4017260A1; US5409558A; FR2618016A1; EP0167129A3; GB2493467A; CN102906587A; GB2493467B; DE19640981A1; US5852395A; US2021368591A1; CN113708737A; US11985752B2; US11096605B2; US9536659B2; WO2011117714A3; WO2011148163A1; WO2014176072A1; WO8900766A1; US9480415B2; US10806521B2; US11950853B2

Designated contracting state (EPC)

CH DE FR LI NL SE

DOCDB simple family (publication)

EP 0122133 A1 19841017; **EP 0122133 B1 19870708**; CA 1236526 A 19880510; DE 3464667 D1 19870813; GB 2139003 A 19841031; GB 2139003 B 19870715; GB 8309558 D0 19830511; GB 8408916 D0 19840516; JP S59206750 A 19841122

DOCDB simple family (application)

EP 84302366 A 19840406; CA 451477 A 19840406; DE 3464667 T 19840406; GB 8309558 A 19830408; GB 8408916 A 19840406; JP 7071484 A 19840409