

Title (en)
SUPERCONDUCTING MAGNET COIL WITH A PLURALITY OF WINDINGS

Publication
EP 0014915 B1 19840822 (DE)

Application
EP 80100644 A 19800207

Priority
DE 2907083 A 19790223

Abstract (en)
[origin: EP0014915A1] 1. A superconductive magnet coil having a plurality of windings made of a stabilized superconductor, wherein each winding consists of a plurality of turns of the superconductor which are arranged one beside another, wherein the turns of adjacent windings are respectively separated by a layer insulation (11, 12) made of an electrically non-conductive material, wherein the superconductor comprises one or more mutually uninsulated individual conductors (4) having one or more filament wires and a normally conductive stabilizing material and wherein adjacent turns are completely insulated from one another by at least one winding insulation (17), having a core (18) which contains an electrically highly-conductive material and is surrounded by an electrically nonconductive material (19), characterised in that at least the greater part of the stabilizing material of the superconductor (16) is located in the core (18) made of the electrically highly-conductive material of a winding insulation (17) which is adjacent thereto.

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H01F 7/22

IPC 8 full level
H01F 6/06 (2006.01)

CPC (source: EP)
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Cited by
EP0048880A1; EP0209134A1; EP0350264A1; EP0125856A1; US4595898A

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EP 0014915 A1 19800903; EP 0014915 B1 19840822; DE 2907083 A1 19800828; DE 2907083 C2 19830825

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