

Title (en)
VARIABLE PROFILE SUPERCONDUCTING MAGNETIC COIL

Title (de)
SUPRALEITENDE MAGNETSPULE MIT VARIABLEM PROFIL

Title (fr)
BOBINE MAGNETIQUE SUPRACONDUCTRICE A PROFIL VARIABLE

Publication
EP 0786141 B2 20131023 (EN)

Application
EP 95939529 A 19951013

Priority

- US 9513359 W 19951013
- US 32349494 A 19941013
- US 32282594 A 19941013
- US 54163995 A 19951010

Abstract (en)
[origin: WO9612288A1] Double pancake coils include a pair of pancake coils of different dimensions, and are wound from the same continuous length of superconducting wire. The double pancake coils are coaxially positioned and electrically interconnected along a longitudinal axis to provide a multi-coil superconducting magnetic coil assembly. Each of the double pancakes has at least one of its pancake coils electrically connected to at least another pancake coil of an adjacent double pancake coil having substantially the same outer dimension. The electrical connections between adjacent pancake coils are provided with relatively straight or "unbent" segments (81) of superconducting wire even through the inner and/or outer dimension profile of the superconducting magnetic coil assembly along its longitudinal axis varies.

IPC 8 full level
H01F 6/00 (2006.01); **H01F 7/00** (2006.01); **H01F 6/06** (2006.01)

CPC (source: EP)
H01F 6/06 (2013.01)

Citation (opposition)
Opponent :

- JP H065414 A 19940114 - TOSHIBA CORP
- EP 0472197 A1 19920226 - SUMITOMO ELECTRIC INDUSTRIES [JP]
- DE 3613682 A1 19871029 - BRUKER ANALYTISCHE MESSTECHNIK [DE]
- DE 2557527 A1 19770623 - SIEMENS AG
- DE 2217718 A1 19721102
- JP H0428208 A 19920130 - JAPAN ATOMIC ENERGY RES INST
- US 5318948 A 19940607 - OKADA MICHIIYA [JP], et al
- JP H06284691 A 19941007 - CHODENDO HATSUDEN KANREN KIKI
- DE 3705294 A1 19880901 - KERNFORSCHUNGSZ KARLSRUHE [DE]
- EP 0397943 A1 19901122 - FUJIKURA LTD [JP]
- JP H03108704 A 19910508 - FURUKAWA ELECTRIC CO LTD
- US 4906960 A 19900306 - ALEXANDROV NICOLAI [CA]

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WO 9612288 A1 19960425; AU 4131496 A 19960506; AU 694296 B2 19980716; CA 2201715 A1 19960425; CN 1088246 C 20020724; CN 1160454 A 19970924; DE 69531693 D1 20031009; DE 69531693 T2 20040715; DE 69531693 T3 20140410; EP 0786141 A1 19970730; EP 0786141 A4 19971217; EP 0786141 B1 20030903; EP 0786141 B2 20131023; JP H10507589 A 19980721; NZ 296653 A 19990128

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