

Title (en)
CURRENT SUPPLY DEVICE FOR A SUPER-CONDUCTIVE MAGNETIC COIL

Publication
EP 0014766 B1 19830518 (DE)

Application
EP 79105293 A 19791220

Priority
DE 2901892 A 19790118

Abstract (en)
[origin: US4314123A] In a current feed for a superconducting magnet coil that can be short circuited, with a disconnecting device for separating a movable from a stationary cooled contact element, the mass ratio of the cooled contact element to the movable contact element is at least 5:1 and the cooled contact element is of elongated shape in the direction of the current flow, has a thermal resistance of at least 0.2 K/W for each 1000 amperes of current to be transmitted, has its end facing away from the contact region provided with cooling fins and is connected to the end of the coil, thereby keeping the amount of heat transmitted from the warm to the cold contact element relatively small and preventing undue warming of the coil end.

IPC 1-7
H01H 1/00; **H01F 5/08**; **H01F 7/22**

IPC 8 full level
H01H 1/02 (2006.01); **H01H 1/62** (2006.01)

CPC (source: EP US)
H01H 1/02 (2013.01 - EP US); **H01H 1/62** (2013.01 - EP US)

Cited by
DE3844053A1; DE102004058006B3; DE102004057204A1; DE102004057204B4; US7509815B2; US7383688B2

Designated contracting state (EPC)
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EP 79105293 A 19791220; DE 2901892 A 19790118; US 10771379 A 19791227