

Title (en)  
MAGNETIC FIELD-GENERATING DEVICE

Publication  
**EP 0191392 A3 19861210 (DE)**

Application  
**EP 86101356 A 19860203**

Priority  
DE 3505281 A 19850215

Abstract (en)  
[origin: US4740758A] Apparatus for generating a magnetic field having a spatially predetermined field pattern in a useful volume, where bodies of ferro-magnetic material influencing the field pattern are disposed in the useful volume. To assure a spatially predetermined field pattern in the useful volume with only small field errors, outside and on opposite sides of the useful volume at least one thin plate-shaped body of predetermined geometric extent comprising a material having high permeability is provided, of which the surfaces facing the useful volume are shaped and arranged so that the surfaces lie on a magnetic equipotential surface of the magnetic field to be generated in the useful volume.

IPC 1-7  
**H01F 7/20**; **H05H 7/04**; **G21K 1/08**

IPC 8 full level  
**B01D 59/48** (2006.01); **G21K 1/08** (2006.01); **G21K 1/093** (2006.01); **H01F 6/00** (2006.01); **H01F 7/20** (2006.01); **H05H 7/04** (2006.01)

CPC (source: EP US)  
**G21K 1/093** (2013.01 - EP US); **H01F 7/20** (2013.01 - EP US); **H05H 7/04** (2013.01 - EP US)

Citation (search report)

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- [A] DE 2045978 A1 19710325 - SCIENCE RES COUNCIL
- [A] NUCLEAR INSTRUMENTS AND METHODS, Band 157, Nr.1, November 1978, Seiten 71-73, Amsterdam, NL; D. KRAMARCZYK et al.: "Shielding a high magnetic field with a superconducting tube"
- [A] NUCLEAR INSTRUMENTS AND METHODS, Band 204, 1982, Seiten 1-20, Amsterdam, NL; S. ROSANDER et al.: "The 50 MeV racetrack microtron at the royal institute of technology Stockholm"

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Designated contracting state (EPC)  
CH DE FR GB IT LI

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**EP 0191392 A2 19860820**; **EP 0191392 A3 19861210**; **EP 0191392 B1 19890517**; DE 3505281 A1 19860821; DE 3663412 D1 19890622; JP S61188907 A 19860822; US 4740758 A 19880426

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**EP 86101356 A 19860203**; DE 3505281 A 19850215; DE 3663412 T 19860203; JP 2874086 A 19860212; US 82610586 A 19860205