

Title (en)

Magnet device with superconducting winding to be cooled by enforced cooling

Title (de)

Magneteinrichtung mit forciert zu kühlender supraleitender Wicklung

Title (fr)

Dispositif magnétique avec enroulement supraconducteur à refroidissement forcé

Publication

**EP 0724273 B1 20000524 (DE)**

Application

**EP 96100489 A 19960115**

Priority

DE 19502549 A 19950127

Abstract (en)

[origin: EP0724273A2] The magnet arrangement (20 includes a coil housing (16) containing a superconducting coil (10). The coil is forcibly cooled, and the coil housing is vacuum-sealed. The electrical connection lead (20a,20b) of the winding (3) is separated from the cooling medium inlet and outlet (18a,18b). The coil housing is surrounded by a vacuum chamber (22) for thermal insulation, and the coil is composed of several double-pancake windings. The cooling medium is LN2 or LHe, and the superconductor is made of a high Tc superconducting material. The winding core (7) is made of a synthetic material, e.g. GFK or CFK.

IPC 1-7

**H01F 6/04**

IPC 8 full level

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CPC (source: EP)

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