

Title (en)

LOW-LOSS HIGH Q SUPERCONDUCTING COIL

Title (de)

SUPRALEITENDE SPULE MIT GERINGEN VERLUSTEN UND HOHEM Q-FAKTOR

Title (fr)

BOBINE SUPRACONDUCTRICE A CARACTERISTIQUE Q ELEVEE ET A FAIBLES PERTES

Publication

EP 1018126 A4 20000712 (EN)

Application

EP 97906900 A 19970210

Priority

- US 9702093 W 19970210
- US 59906796 A 19960209

Abstract (en)

[origin: WO9729493A1] The invention is directed to a low-loss superconducting magnetic coil having a relatively high Q characteristic. The coil (12) includes a superconductor tape (14), wound about the longitudinal axis of the coil, the tape including a multi-filament composite superconductor having individual superconducting filaments surrounded or supported by a matrix-forming material. The superconducting coil has a Q characteristic greater than 250, at a frequency less than 1,000 Hz, with the Q defined as the ratio of the stored inductive energy in the coil with respect to the dissipation of the coil per cycle.

IPC 1-7

H01F 6/06

IPC 8 full level

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CPC (source: EP)

H01F 6/06 (2013.01)

Citation (search report)

- [A] WO 9520228 A1 19950727 - AMERICAN SUPERCONDUCTOR CORP [US]
- [A] US 3638154 A 19720125 - SAMPSON WILLIAM B, et al

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