

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

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Application

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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.

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