

Title (en)
SUPERCONDUCTIVE ARMATURE WINDING FOR AN ELECTRICAL MACHINE

Title (de)
SUPRALEITENDE ANKERWICKLUNG FÜR EINE ELEKTRISCHE MASCHINE

Title (fr)
ENROULEMENT D'INDUIT SUPRACONDUCTEUR POUR MACHINE ELECTRIQUE

Publication
EP 1348251 A1 20031001 (EN)

Application
EP 01994222 A 20011212

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Abstract (en)
[origin: WO02063751A1] An armature winding (10) for an electrical machine is formed of superconductive cable (16). To shield the superconducting wire from large AC magnetic fields and to minimize the mechanical forces and torques on the conductor components, the superconducting armature winding is placed in a slotted stator core (22). The superconductive cable is formed of multi-filamentary superconducting wire tape with an aspect ratio close to unity or is alternatively formed of continuous cables of superconducting wire. Magnetic wedges (26) disposed in openings of the slots shield the slot-embedded SC winding from AC field components.

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