

Title (en)

SUPERCONDUCTING COIL DEVICE COMPRISING A COIL WINDING AND PRODUCTION METHOD

Title (de)

SUPRALEITENDE SPULENEINRICHTUNG MIT SPULENWICKLUNG UND HERSTELLUNGSVERFAHREN

Title (fr)

SYSTÈME DE BOBINE SUPRACONDUCTRICE COMPRENANT UN BOBINAGE ET SON PROCÉDÉ DE FABRICATION

Publication

**EP 2987173 A1 20160224 (DE)**

Application

**EP 14729237 A 20140520**

Priority

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- EP 2014060284 W 20140520

Abstract (en)

[origin: WO2014191252A1] What is specified is: a superconducting coil device comprising a plurality of turns of a superconducting flat conductor. The flat conductor has a first conductor surface which is formed as contact side and is provided with a contact layer. The flat conductor is twisted within at least one of the turns in a torsion region through approximately 180 degrees about a longitudinal axis of the flat conductor, and the contact side of the flat conductor faces a center of the winding on an inner side of the winding and faces away from the center of the winding on an outer side of the winding. What is further specified is: a production method for a superconducting coil device in which a superconducting flat conductor is wound in a plurality of turns onto a coil former. The flat conductor has a first conductor surface which is formed as contact side and is provided with a contact layer. In this case, the contact side of the flat conductor faces the coil former and thus a center of the winding at the beginning of the winding. The flat conductor is twisted within at least one of the turns in a torsion region through approximately 180 degrees about a longitudinal axis of the flat conductor, and the contact side of the flat conductor faces away from the center of the winding on an outer side of the winding.

IPC 8 full level

**H01F 6/06** (2006.01); **H01F 41/04** (2006.01); **H01F 41/06** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2014191252A1

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