

Title (en)

Method of insulating an elongated conductor comprised of high-temperature-super-conductive, substantially ceramic material and an apparatus for the implementation of the method

Title (de)

Verfahren zum Isolieren eines längeren Leiters aus hochtemperatur-supraleitendem, hauptsächlich keramischem Werkstoff und Apparat zur Durchführung dieses Verfahrens

Title (fr)

Méthode pour isoler un conducteur allongé en matière supraconductrice à haute température, substantiellement céramique et appareil pour la mise en oeuvre du procédé

Publication

**EP 1089300 A1 20010404 (EN)**

Application

**EP 00203389 A 20000929**

Priority

NL 1013165 A 19990929

Abstract (en)

A method of insulating an elongated conductor comprised of high-temperature-superconductive, substantially ceramic material having a rectangular cross section with substantially flat main surfaces and adjoining lateral surfaces. The method comprises the steps of providing a film strip provided at one side with a previously applied adhesive layer bonding under pressure at room temperature, bonding to the adhesive layer a main surface of the conductor to a central portion of the film strip parallel to its longitudinal direction, folding over the portions of the film strip at both sides of the conductor (to form an angle of substantially 90 degrees) and applying the adhesive layer bonded to the film strip to the lateral surfaces of the conductor, and successively again folding the portions of the film strip at both sides of the conductor (to form an angle of substantially 90 degrees), and applying the adhesive layer bonded to the film strip to the other main surface of the conductor. While the method is being carried out, bending forces, pressure forces and tensile stresses exerted on the conductor are outside the range of values that have a negative effect on the superconductive properties of the conductor material and that the adhesive is of a type that adheres both to the film strip and to the conductor at the temperature of superconduction without having a negative effect on the superconductive properties of the conductor material. <IMAGE>

IPC 1-7

**H01B 13/10**

IPC 8 full level

**H01B 13/10** (2006.01)

CPC (source: EP)

**H01B 13/106** (2013.01)

Citation (search report)

- [A] US 3989561 A 19761102 - COTTON DALE L
- [A] US 4259141 A 19810331 - ANDERSSON GUNNAR, et al

Cited by

DE102011107313A1; CN110444349A; CN103208338A; US10176905B2; WO2018106383A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE

DOCDB simple family (publication)

**EP 1089300 A1 20010404**; **EP 1089300 B1 20041124**; AT E283539 T1 20041215; DE 60016135 D1 20041230; NL 1013165 A1 20010402; NL 1013165 C2 20010423

DOCDB simple family (application)

**EP 00203389 A 20000929**; AT 00203389 T 20000929; DE 60016135 T 20000929; NL 1013165 A 19990929