

Title (en)

Method of manufacturing oxide superconducting magnet system, oxide superconducting magnet system, and superconductive magnetic field generating apparatus

Title (de)

Verfahren zur Herstellung eines oxidsupraleitenden Magnetsystems, ein oxidsupraleitendes Magnetsystem, und Vorrichtung zur Erzeugung eines supraleitenden Magnetfeldes

Title (fr)

Procédé de fabrication d'un système à aimant d'oxyde supraconducteur, système à aimant d'oxyde supraconducteur, et dispositif générateur d'un champ magnétique supraconducteur

Publication

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Application

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Priority

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Abstract (en)

There is provided a method of manufacturing an oxide superconducting magnet system suitable to use an oxide superconductor in which parts of an oxide superconducting persistent current magnet comprising a superconducting magnet 1, a persistent current switch 4, and current leads 6 for superconductively connecting the superconducting magnet 1 and the persistent current switch 4 which are made of oxide superconducting materials are preliminarily formed in predetermined shapes and arrangement, connecting ends of the parts are come into contact with each other in connecting parts 7 and are simultaneously subjected to heat treatment for a partial melting followed by solidification to thereby make the parts including the connecting parts 7 superconductors, and after that, a cooling system of a predetermined construction necessary to operate the persistent current magnet is formed. <IMAGE>

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Cited by

CN110581381A; DE102011013577A1; DE102011013577B4; GB2420910A; DE102004058006B3; GB2420910B; GB2447183B; GB2496287A; CN103091653A; GB2496287B; US8922308B2; US7383688B2; US9704630B2

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