

Title (en)  
PROCESS FOR PRODUCING A CONNECTING STRUCTURE BETWEEN TWO SUPERCONDUCTORS AND STRUCTURE FOR CONNECTING TWO SUPERCONDUCTORS

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINER VERBINDUNGSSTRUKTUR ZWISCHEN ZWEI SUPRALEITERN UND STRUKTUR ZUR VERBINDUNG ZWEIER SUPRALEITER

Title (fr)  
PROCÉDÉ DE FABRICATION D'UNE STRUCTURE DE LIAISON ENTRE DEUX SUPRACONDUCTEURS ET STRUCTURE PERMETTANT DE RELIER DEUX SUPRACONDUCTEURS

Publication  
**EP 2483968 A1 20120808 (DE)**

Application  
**EP 10760332 A 20100929**

Priority  
• DE 102009043580 A 20090930  
• EP 2010064415 W 20100929

Abstract (en)  
[origin: WO2011039223A1] A process for producing a connecting structure between two superconductors, in particular magnesium diboride superconductors which comprise a superconducting core wire surrounded by normally conducting metal, wherein a substance which reduces the melting point of magnesium is admixed to a substance mixture comprising magnesium and boron, and the exposed ends of the core wires are brought into contact with the substance mixture, which is caused to react in situ at a reaction temperature corresponding to the lower melting point to give magnesium diboride.

IPC 8 full level  
**H01R 4/68** (2006.01)

CPC (source: EP KR US)  
**H01B 12/00** (2013.01 - KR); **H01R 4/68** (2013.01 - EP KR US); **H10N 60/0856** (2023.02 - EP US); **H10N 60/80** (2023.02 - EP)

Citation (search report)  
See references of WO 2011039223A1

Citation (examination)  
• US 2008236869 A1 20081002 - MARTE JUDSON SLOAN [US], et al  
• US 2005090403 A1 20050428 - RABER THOMAS R [US], et al  
• US 2009101325 A1 20090423 - BELTON NEIL JOHN [GB], et al  
• WO 2009012513 A1 20090129 - UNIV WOLLONGONG [AU], et al  
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• EP 1394112 A1 20040303 - INT SUPERCONDUCTIVITY TECH [JP]  
• LI X H ET AL: "High critical current joint of MgB<sub>2</sub> tapes using Mg and B powder mixture as flux", SUPERCONDUCTOR SCIENCE AND TECHNOLOGY, IOP PUBLISHING, TECHNO HOUSE, BRISTOL, GB, vol. 21, no. 2, 1 February 2008 (2008-02-01), pages 25017, XP020128600, ISSN: 0953-2048

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2011039223 A1 20110407**; CA 2775830 A1 20110407; CA 2775830 C 20150113; CN 102598417 A 20120718; CN 102598417 B 20151125; DE 102009043580 A1 20110414; DE 102009043580 B4 20170112; EP 2483968 A1 20120808; JP 2013506946 A 20130228; JP 5518203 B2 20140611; KR 101370146 B1 20140304; KR 20120050503 A 20120518; US 2012184446 A1 20120719; US 8897846 B2 20141125

DOCDB simple family (application)  
**EP 2010064415 W 20100929**; CA 2775830 A 20100929; CN 201080043899 A 20100929; DE 102009043580 A 20090930; EP 10760332 A 20100929; JP 2012531389 A 20100929; KR 20127008169 A 20100929; US 201013499372 A 20100929