

Title (en)
SILVER-BASED CONTACT MATERIAL FOR USE IN POWER-ENGINEERING SWITCHGEAR, AND A METHOD OF MANUFACTURING CONTACTS MADE OF THIS MATERIAL

Title (de)
KONTAKTWERKSTOFF AUF SILBERBASIS ZUR VERWENDUNG IN SCHALTGERÄTEN DER ENERGIETECHNIK SOWIE VERFAHREN ZUR HERSTELLUNG VON KONTAKTSTÜCKEN AUS DIESEM WERKSTOFF

Title (fr)
MATERIAU DE CONTACT A BASE D'ARGENT POUR L'UTILISATION DANS DES APPAREILS DE COMMUTATION EN TECHNOLOGIE DES COURANTS FORTS, AINSI QUE PROCEDE POUR LA FABRICATION DE PIECES DE CONTACT EN CE MATERIAU

Publication
EP 0586410 B1 19961030 (DE)

Application
EP 92909652 A 19920514

Priority
• DE 9200388 W 19920514
• DE 4117311 A 19910527

Abstract (en)
[origin: US5429656A] PCT No. PCT/DE92/00388 Sec. 371 Date Nov. 24, 1993 Sec. 102(e) Date Nov. 24, 1993 PCT Filed May 14, 1992 PCT Pub. No. WO92/22080 PCT Pub. Date Dec. 10, 1992. In particular for contacts in low-voltage switches, the contact material consists of silver and further active components. In accordance with the invention, there are present as active components, in combination, iron oxide (Fe₂O₃/Fe₃O₄) in a proportion of between 1 and 50% by weight and at least one oxide of a further chemical element in a proportion of between 0.01 and 5% by weight. In particular, contact materials of the constitution AgFe₂O₃ReO₂ and AgFe₂O₃ZrO₂ have proven suitable in practice. The manufacture of the material and fabricating of the contacts can be effected by methods of powder metallurgy with the inclusion of molding or extrusion technique.

IPC 1-7
H01H 1/02

IPC 8 full level
C22C 1/05 (2006.01); **C22C 5/06** (2006.01); **C22C 32/00** (2006.01); **H01H 1/02** (2006.01); **H01H 1/023** (2006.01); **H01H 1/0237** (2006.01); **H01H 11/04** (2006.01)

CPC (source: EP US)
C22C 32/0021 (2013.01 - EP US); **H01H 1/0237** (2013.01 - EP US); **H01H 2001/02378** (2013.01 - EP US)

Designated contracting state (EPC)
AT CH DE DK ES FR GB IT LI SE

DOCDB simple family (publication)
US 5429656 A 19950704; AT E144857 T1 19961115; BR 9206065 A 19941129; DE 4117311 A1 19921203; DE 59207467 D1 19961205; DK 0586410 T3 19970414; EP 0586410 A1 19940316; EP 0586410 B1 19961030; ES 2094354 T3 19970116; JP 3280968 B2 20020513; JP H06507447 A 19940825; WO 9222080 A1 19921210

DOCDB simple family (application)
US 14244193 A 19931124; AT 92909652 T 19920514; BR 9206065 A 19920514; DE 4117311 A 19910527; DE 59207467 T 19920514; DE 9200388 W 19920514; DK 92909652 T 19920514; EP 92909652 A 19920514; ES 92909652 T 19920514; JP 50896092 A 19920514