

Title (en)

SILVER-BASED CONTACT MATERIAL FOR SWITCHGEARS USED IN POWER ENGINEERING

Title (de)

KONTAKTWERKSTOFF AUF SILBERBASIS ZUR VERWENDUNG IN SCHALTGERÄTEN DER ENERGIETECHNIK

Title (fr)

MATERIAU DE CONTACT A BASE D'ARGENT POUR APPAREILS DE COMMUTATION UTILISES EN GENIE EN MATIERE D'ENERGIE

Publication

EP 0736216 B1 19970903 (DE)

Application

EP 95902764 A 19941214

Priority

- DE 9401488 W 19941214
- DE 4343550 A 19931220

Abstract (en)

[origin: US5663500A] PCT No. PCT/DE94/01488 Sec. 371 Date Jun. 20, 1996 Sec. 102(e) Date Jun. 20, 1996 PCT Filed Dec. 14, 1994 PCT Pub. No. WO95/17758 PCT Pub. Date Jun. 29, 1995Substitute materials are increasingly proposed for contact pieces in low-voltage switches, which until now frequently consisted of silver-nickel. In the case of such a substitute material which, besides silver, contains at least iron oxide (Fe₂O₃/Fe₃O₄) and zirconium oxide (ZrO₂) as active components, the making capacity with regard to the critical welding current is improved by an addition of a further oxide of the sixth subgroup of the Periodic System and/or of a mixed oxide that consists of iron oxide and the oxide of an element of the sixth subgroup of the Periodic System. In this connection, the further additive is, in particular, ferro-wolframate (FeWO₄).

IPC 1-7

H01H 1/02

IPC 8 full level

H01H 1/02 (2006.01); **H01H 1/0237** (2006.01)

CPC (source: EP US)

H01H 1/0237 (2013.01 - EP US); **H01H 2001/02378** (2013.01 - EP US)

Designated contracting state (EPC)

CH DE FR LI

DOCDB simple family (publication)

US 5663500 A 19970902; DE 4343550 A1 19950622; DE 59403995 D1 19971009; EP 0736216 A1 19961009; EP 0736216 B1 19970903; WO 9517758 A1 19950629

DOCDB simple family (application)

US 66946396 A 19960620; DE 4343550 A 19931220; DE 59403995 T 19941214; DE 9401488 W 19941214; EP 95902764 A 19941214