

Title (en)  
USE OF A SILVER-IRON MATERIAL FOR ELECTRIC CONTACTS

Publication  
**EP 0294693 B1 19921021 (DE)**

Application  
**EP 88108735 A 19880601**

Priority  
DE 3719052 A 19870606

Abstract (en)  
[origin: JPS6452346A] PURPOSE: To improve the contact resistance and contact heating by composing the material for electrical contact of iron, one or several kinds of specified additive, and silver as residual. CONSTITUTION: Silver-iron material, which is composed of iron at 3-30wt.%, additive, namely, one or several kinds of manganese, lead, antimony, bismuth oxide, molybdenum oxide, tungsten oxide, chrome nitride at 0.05-5wt. % as a total and silver as residual, is used. An oxide layer is influenced by the additive so as to have excellent stability in relation to melting and a low contact resistance. Contact heating is thereby restricted as small as possible, and long lifetime and wide use range can be obtained in relation to intensity of the contact current.

IPC 1-7  
**C22C 5/06; H01H 1/02**

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

CPC (source: EP US)  
**C22C 1/0466** (2013.01 - EP US); **C22C 32/0021** (2013.01 - EP US); **H01H 1/023** (2013.01 - EP US)

Citation (examination)  
PATENT ABSTRACTS OF JAPAN, Band nr. 6, Nr. 11 (C-88)(889), 22 January 1982; & JP-A-56133438

Cited by  
DE4117312A1; DE10012250A1; DE10012250B4; WO9222079A1; EP0338401B1

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**EP 88108735 A 19880601**; AR 31103088 A 19880603; AT 88108735 T 19880601; AU 1730388 A 19880602; BR 8802712 A 19880603; CA 568602 A 19880603; CN 88103378 A 19880606; CS 385388 A 19880603; DE 3875385 T 19880601; DK 303088 A 19880603; ES 88108735 T 19880601; GR 920402851 T 19921209; HU 290888 A 19880603; IN 440CA1988 A 19880530; JP 13762888 A 19880606; MX 1174688 A 19880602; NO 882389 A 19880531; PL 27287988 A 19880606; PT 8766288 A 19880606; SU 4355886 A 19880603; US 20172688 A 19880603; YU 103288 A 19880527; ZA 883891 A 19880601