

Title (en)

Use of a silver-iron material for electric contacts.

Title (de)

Verwendung eines Silber-Eisen-Werkstoffs für elektrische Kontakte.

Title (fr)

Utilisation d'une matière argent-fer pour contacts électriques.

Publication

EP 0294693 A2 19881214 (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.

Abstract (de)

Für elektrische Kontakte wird ein Silber- Eisen- Werkstoff verwendet, der eine geringe Verschweißneigung, einen geringen Kontaktwiderstand und einen breiten Anwendungsbereich besitzt. Er enthält neben Silber 3 - 30 Gew.-% Eisen und einen oder mehrere der Zusätze Mangan, Kupfer, Zink, Antimon, Wismutoxid, Molybdänoxid, Wolframoxid und Chromnitrid in Mengen von insgesamt 0,05 bis 5 Gew.-%.

IPC 1-7

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)

Cited by

DE4117312A1; DE10012250A1; DE10012250B4; WO9222079A1; EP0338401B1

Designated contracting state (EPC)

AT BE CH DE ES FR GB GR IT LI LU NL SE

DOCDB simple family (publication)

EP 0294693 A2 19881214; **EP 0294693 A3 19890315**; **EP 0294693 B1 19921021**; AR 241971 A1 19930129; AT E81734 T1 19921115; AU 1730388 A 19881208; BR 8802712 A 19881227; CA 1309278 C 19921027; CN 1011421 B 19910130; CN 1030098 A 19890104; CS 275704 B6 19920318; CS 8803853 A2 19910411; DE 3875385 D1 19921126; DK 303088 A 19881207; DK 303088 D0 19880603; ES 2035154 T3 19930416; GR 3006495 T3 19930621; HU T50262 A 19891228; IN 167229 B 19900922; JP 2680038 B2 19971119; JP S6452346 A 19890228; MX 170300 B 19930816; NO 882389 D0 19880531; NO 882389 L 19881207; PL 156711 B1 19920430; PL 272879 A1 19890306; PT 87662 A 19880701; PT 87662 B 19921030; RU 1785579 C 19921230; US 4859238 A 19890822; YU 103288 A 19900430; YU 46258 B 19930528; ZA 883891 B 19890222

DOCDB simple family (application)

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