

Title (en)

Silver-base metal oxide material for electrical contacts

Title (de)

Metalloxidmaterial auf Silberbasis für elektrische Kontakte

Title (fr)

Matériau pour contacts électriques formé d'oxides métalliques à base d'argent

Publication

EP 0508055 B1 19970502 (EN)

Application

EP 92101915 A 19920205

Priority

- CA 2080201 A 19921008
- JP 12202491 A 19910412
- JP 27679091 A 19910927

Abstract (en)

[origin: EP0508055A1] A silver-oxide based material for electric contacts, which has excellent deposition resistance and consumption resistance. The material is formed by subjecting to an internal oxidation treatment an Ag based alloy consisting essentially of: Sn: 4 - 11%; In: 1 - 5%; Te: 0.05 - 4%; and Ag and inevitable impurities: the balance. If required, at least one of the following elements may be added: (a) at least one element selected from the group consisting of Fe, Ni, and Co: 0.01 - 1%; and (b) Cd: 0.05 - 3%.

IPC 1-7

H01H 1/02; **C22C 32/00**

IPC 8 full level

C22C 1/10 (2006.01); **C22C 32/00** (2006.01); **H01H 1/0237** (2006.01)

CPC (source: EP KR)

C22C 1/1078 (2013.01 - EP); **C22C 32/00** (2013.01 - KR); **C22C 32/0021** (2013.01 - EP); **H01H 1/02** (2013.01 - KR); **H01H 1/02376** (2013.01 - EP)

Citation (examination)

- CONFERENCE ON ELECTRICAL CONTACTS 20 September 1989, CHICAGO, US pages 69 - 78; LAMBERT ET AL: 'A NEW DOPED SILVER TIN OXIDE MATERIAL WITH IMPROVED ELECTRICAL BEHAVIOUR'
- Metals Handbook, 9th edition, vol.1, 1990, page 857

Cited by

DE102009059690A1; DE102010014745A1; US5451272A; DE102010014745B4; EP1584696A4; CN111868864A; US7189656B2; US9028586B2; EP2447379A1; EP2634273A1; WO2011086167A1; US8749330B2; EP2644723A1; WO2013144112A1; US9928931B2

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