

## Title (en)

Silver-iron material for electrical switch contacts and process for its preparation

## Title (de)

Gesinterter Silber-Eisen-Werkstoff für elektrische Kontakte und Verfahren zu seiner Herstellung

## Title (fr)

Matière argent-fer pour contacts interrupteurs électriques et procédé pour sa fabrication

## Publication

**EP 0795367 A1 19970917 (DE)**

## Application

**EP 97101342 A 19970129**

## Priority

DE 19607183 A 19960227

## Abstract (en)

[origin: DE19607183C1] A sintered Ag-Fe material consists of (in wt.%): 0.5-20 Fe; 0-5 Zn, Cu, Mn, Re, Ir, Ru and/or oxides of W, Mo, Zn, Al, In, Si, Zr; balance Ag with the Fe contg. >0.25% C. The amt. of carbon in the Fe is pref. >0.4, esp. 0.6-1.2%. The material is made by mixing together the starting powders in the amts. prescribed, cold isostatic pressing, sintering at 650-940 deg C and then extruding. The sintering is carried out in a hydrogen-free protective atmosphere.

## Abstract (de)

Gesinterte Silber-Eisenwerkstoffe für elektrisch Kontakte, die in ihren Eigenschaften mit Silber-Nickel-Werkstoffen vergleichbar sind, erhält man, wenn man Eisenpulver mit mehr als 0,25 Gew.% Kohlenstoff und Mikrohärtungen von mehr als 200 HV 0,025 einsetzt und das Sintern in einer wasserstofffreien Schutzgasatmosphäre durchführt.

## IPC 1-7

**B22F 1/00**; **H01H 1/02**; **C22C 1/04**

## IPC 8 full level

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## CPC (source: EP US)

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## Citation (search report)

- [X] EP 0144959 A2 19850619 - SCM CORP [US]
- [A] US 4937041 A 19900626 - DEFFEYES ROBERT J [US]
- [A] US 3708283 A 19730102 - HILL F

## Cited by

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