

Title (en)

Powder-metallurgical process for the production of a semi-finished product for electrical contacts made from a composite material based on silver and iron.

Title (de)

Pulvermetallurgisches Verfahren zum Herstellen eines Halbzeugs für elektrische Kontakte aus einem Verbundwerkstoff auf Silberbasis mit Eisen.

Title (fr)

Procédé de métallurgie des poudres pour obtenir un produit semi-fini utilisable pour des contacts électriques à partir d'un matériau composite à base d'argent et de fer.

Publication

EP 0338401 B1 19950927 (DE)

Application

EP 89106490 A 19890412

Priority

DE 3812686 A 19880416

Abstract (en)

[origin: EP0338401A1] A powder metallurgical process for producing a semifinished product for electrical contacts, consisting of a composite material based on silver together with iron, is described. The composite material consists of 5 to 50% by weight of iron as a first secondary component and of 0 to 5% by weight of a second secondary component consisting of one or more of the metals titanium, zirconium, niobium, tantalum, molybdenum, tungsten, manganese and zinc and/or their oxides and/or their carbides, the remainder being silver as the main component. First, a composite powder or - if possible - an alloy powder is produced from at least two different components of the composite material, of which one is silver or iron, in particular by the spray pyrolysis method, and, if required, this powder is then mixed with the remaining components of the composite material in powder form, compression-moulded and sintered.

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