

Title (en)
PROCESS FOR PRODUCING A CuCr CONTACT MATERIAL FOR VACUUM SWITCHES.

Title (de)
VERFAHREN ZUM HERSTELLEN VON CuCr-KONTAKTSTÜCKEN FÜR VAKUUMSCHALTER.

Title (fr)
PROCEDE DE FABRICATION DE CONTACTS AU CuCr POUR DES INTERRUPTEURS A VIDE.

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Application
EP 89906021 A 19890531

Priority
DE 8900343 W 19890531

Abstract (en)
[origin: WO9015424A1] Purely powder-metallurgical or sinter impregnation processes are often used to manufacture CuCr contact materials. Here the aim is to obtain the lowest possible residual porosity, which should be < 1 %. According to the invention, a powder moulding of the components is densified in two stages; the first stage is a sintering process with a densification of the sintered body to a closed porosity and the second stage is a hot isostatic pressing process (HIP) in which the unencased workpieces are taken to a final density amounting to a space occupation of at least 99 %. Thus an economical method of manufacturing high-grade material is obtained. It is possible in particular to produce multi-layer contacts or self-adhesive bonds between the sintered body and a solid substrate, e.g. a copper contact bolt.

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IPC 8 full level
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