

Title (en)
SINTERED MATERIAL FOR ELECTRICAL CONTACTS AND ITS METHOD OF MANUFACTURE

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Application
EP 84101010 A 19840201

Priority
DE 3305270 A 19830216

Abstract (en)
[origin: US4551301A] AgCdO based contact elements are replaced in contactors and small circuit breakers with CdO-less type elements which exhibit little burn-off in the arc, a low welding force and minimal heating when carrying continuous current. However, known AgSnO₂ contact materials do not have optimum values in all operationally important properties. In these contact materials a more firmly adhering oxide layer occurs as compared with AgCdO. The invention relates to a sintered compound material for electrical contacts, consisting of AgSnO₂Bi₂O₃CuO and containing at least one other metal oxide additive which sublimates below the melting temperature of silver. The SnO₂, Bi₂O₃ and CuO are globularly precipitated in silver material structure zones having a maximum diameter of 200 µm, and the metal oxide additive is distributed on the surfaces of the boundary regions of these microscopic silver zones.

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IPC 8 full level
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Cited by
US5486222A; WO9315517A1

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