

Title (en)
CONTACT MATERIAL AND PRODUCTION OF ELECTRIC CONTACTS

Publication
EP 0152606 B1 19870909 (DE)

Application
EP 84115754 A 19841218

Priority
• DE 3403115 A 19840130
• DE 3428070 A 19840730

Abstract (en)
[origin: US4565590A] The invention relates to a material for electrical contacts, in particular for contact studs in low-voltage switchgear. The material consists of silver, tin oxide and other additives. A material is sought where the overtemperature is lowered as compared with known AgSnO₂ material. According to the invention, the further additives are in combination oxides of the metals tantalum (Ta₂O₅), copper (CuO) and bismuth (Bi₂O₃). Further the material may contain also tungsten or oxygen containing tungsten compounds. Preferably the material contains 5 to 20 mass % SnO₂, 0.1 to 5 mass % Ta₂O₅ 5 mass % CuO, 0.1 to 5 mass % Bi₂O₃, optionally 0.05 to 3 mass % tungsten and silver as balance. In the method for producing contact studs, the powder metallurgical production of the material is followed by extrusion to a ribbon, from which contact studs can be separated which have an edge-parallel directional structure.

IPC 1-7
H01H 1/02

IPC 8 full level
C22C 32/00 (2006.01); **H01H 1/02** (2006.01); **H01H 1/0237** (2006.01)

CPC (source: EP US)
C22C 32/0021 (2013.01 - EP US); **H01H 1/02376** (2013.01 - EP US)

Cited by
CN110643847A; CN112760513A

Designated contracting state (EPC)
DE FR GB SE

DOCDB simple family (publication)
EP 0152606 A2 19850828; EP 0152606 A3 19850925; EP 0152606 B1 19870909; DE 3466122 D1 19871015; US 4565590 A 19860121

DOCDB simple family (application)
EP 84115754 A 19841218; DE 3466122 T 19841218; US 69371785 A 19850123