Title (en)

Composite contact, vacuum switch and method for manufacturing composite contact

Title (de)

Kontakt aus Verbundwerkstoff, Vakuumschalter und Herstellungsverfahren des Kontaktes

Title (fr)

Conact en matériaux composites, disjoncteur à vide et procédé de fabrication du contact

Publication

EP 1580779 A1 20050928 (EN)

Application

EP 05102282 A 20050322

Priority

- JP 2004082961 A 20040322
- JP 2004258155 A 20040906

Abstract (en)

A composite contact including a first layer composed of a Cu-Cr mixture wherein powder or granular Cr with an average particle diameter of 0.1 to 150 µm and powder or granular Cu with an average particle diameter of 0.1 to 150 µm are mixed at a rate of 15 to 60 wt% of Cr and the remainder of Cu, and a second layer composed of Cu. The first layer and the second layer are united with each other, while Cu of the first layer enters the second layer within a range from 20 µm to 100 µm from a boundary surface between the first layer and the second layer and Cu in the second layer enters the first layer within a range from 20 µm to 100 µm from the boundary surface.

IPC 1-7

H01H 1/02

IPC 8 full level

H01H 1/02 (2006.01)

CPC (source: EP)

H01H 1/0206 (2013.01)

Citation (search report)

- [A] DE 19822469 A1 19981126 - HITACHI LTD [JP]
- [A] EP 0846515 A1 19980610 - LOUIS RENNER GMBH [DE]
- [A] EP 0469578 A2 19920205 - MEIDENSHA ELECTRIC MFG CO LTD [JP], et al

Designated contracting state (EPC)

DE FR

DOCDB simple family (publication)

EP 1580779 A1 20050928; **EP 1580779 B1 20100505**; CN 100358063 C 20071226; CN 1674180 A 20050928; DE 602005021009 D1 20100617

DOCDB simple family (application)

EP 05102282 A 20050322; CN 200510056186 A 20050322; DE 602005021009 T 20050322