

Title (en)

Method for producing a contact element blank and a contact element as well as contact element blank, contact element and contact element arrangement for applications in an axial magnetic field of a vacuum chamber

Title (de)

Verfahren zur Herstellung eines Kontaktstückrohlings und eines Kontaktstückes sowie ein Kontaktstückrohling, ein Kontaktstück und eine Kontaktstückanordnung für Axialmagnetfeldanwendungen in einer Vakuumkammer

Title (fr)

Procédé pour la production d'une ébauche d'un élément de contact et d'un élément de contact, ébauche d'un élément de contact, élément de contact et ensemble d'élément de contact pour l'utilisation dans un champs magnétique axial d'une chambre sous vide

Publication

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Application

EP 00126172 A 20001130

Priority

DE 19960876 A 19991217

Abstract (en)

[origin: EP1111631A2] The method involves joining at least one pole piece (28,29), a cup-shaped form piece (20), a base body (22) of a first electrically conducting material and a contact layer (24) together in a heating process. The contact layer is made of slightly less conducting material, which does not get burnt by an arc and has a sintered structure. Solder is provided between the pole piece and the form piece. The contact layer is fitted in the form piece over the base body. There is sufficient material in the base body to cover the contact layer and the base of the form piece. A holder device (11) holds the pole piece in position and the form piece above the pole piece. The pole piece, solder, form piece, base body, contact layer and holder device are heated to above the melting temperature of the first material, but not as far as the melting temperature of the second material. The first material melts and penetrates the contact layer. The base of the form piece is perfectly covered, but no longer forms a base body. The solder connects the pole piece to the form piece. Independent claims are included for a contact piece blank manufactured according to the method and a contact piece.

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Cited by

US8302303B2; CN113278963A; EP1466338A4; DE102005003812A1; US2008163476A1; DE202005021749U1; WO2006079495A1; US8845956B2; WO2008145347A1; US8869393B2

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