

Title (en)

TUBULAR COMPONENT USABLE AS A SHIELD IN A VACUUM SWITCH TUBE AND METHOD FOR PRODUCING A TUBULAR COMPONENT USABLE AS A SHIELD IN A VACUUM SWITCH TUBE

Title (de)

ALS ABSCHIRMUNG IN EINER VAKUUMSCHALTRÖHRE EINSETZBARES ROHRFÖRMIGES BAUTEIL SOWIE VERFAHREN ZUR HERSTELLUNG EINES ALS ABSCHIRMUNG IN EINER VAKUUMSCHALTRÖHRE EINSETZBAREN ROHRFÖRMIGEN BAUTEILS

Title (fr)

COMPOSANT TUBULAIRE POUVANT ÊTRE INSÉRÉ DANS UN TUBE D'INTERRUPTEUR À VIDE EN TANT QUE BLINDAGE ET PROCÉDÉ DE FABRICATION D'UN COMPOSANT TUBULAIRE POUVANT ÊTRE INSÉRÉ DANS UN TUBE D'INTERRUPTEUR À VIDE EN TANT QUE BLINDAGE

Publication

EP 2191486 A1 20100602 (DE)

Application

EP 08804652 A 20080924

Priority

- EP 2008062742 W 20080924
- DE 102007047473 A 20070927

Abstract (en)

[origin: DE102007047473B3] The procedure for the production of tube shaped component useful as shielding in a vacuum interrupter (1), comprises filling a first section of a tubular cavity of molten form in axial direction with a low melting metal, and subjecting a tubular porous blank produced by powder of highly melting metal in the section of the cavity adjacent itself in axial direction. The low melting metal is subjected in the section of the cavity before the contents of the molten form are subjected in vacuum for a time sufficient to the partial melt diffusion in the porous blank at high temperature. The procedure for the production of tube shaped component useful as shielding in a vacuum interrupter (1), comprises filling a first section of a tubular cavity of molten form in axial direction with a low melting metal, and subjecting a tubular porous blank produced by powder of highly melting metal in the section of the cavity adjacent itself in axial direction. The low melting metal is subjected in the section of the cavity before the contents of the molten form are subjected in vacuum for a time sufficient to the partial melt diffusion in the porous blank at high temperature. The tube shaped component for the fabrication is taken after cooling off the molten form. The low melting metal is copper in powder form. The porous blank is produced from a power consisting of copper with a grain size of 40-300 μm and chromium with a grain size of 50-300 μm through compression in a compression mold at high pressure or produced by glowing the chromium powder in a sinter form at 1250[deg] C for 60 minutes in a vacuum oven. The molten form in the vacuum chamber is heated at 1150-1250[deg] C with a retaining time of 20-60 min.

IPC 8 full level

H01H 33/66 (2006.01)

CPC (source: EP)

B22F 3/26 (2013.01); **B22F 5/106** (2013.01); **C22C 1/0425** (2013.01); **H01H 33/66261** (2013.01); **H01H 2033/66269** (2013.01)

Citation (search report)

See references of WO 2009043769A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

DE 102007047473 B3 20081120; CN 101809701 A 20100818; EP 2191486 A1 20100602; WO 2009043769 A1 20090409

DOCDB simple family (application)

DE 102007047473 A 20070927; CN 200880109241 A 20080924; EP 08804652 A 20080924; EP 2008062742 W 20080924