

Title (en)

PROCESS FOR PRODUCING A CU-CR MATERIAL BY POWDER METALLURGY

Title (de)

VERFAHREN ZUM PULVERMETALLURGISCHEN HERSTELLEN EINES CU-CR-WERKSTOFFS

Title (fr)

PROCÉDÉ DE FABRICATION SELON LA TECHNIQUE DE LA MÉTALLURGIE DES POUDRES D'UN MATÉRIAU CU-CR

Publication

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Application

EP 11751787 A 20110801

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Abstract (en)

[origin: WO2012016257A2] The invention provides a process for producing a Cu-Cr material for a switching contact, in particular for vacuum switches, by powder metallurgy, said process comprising the following steps: (S2) a Cu-Cr powder mixture formed from Cu powder and Cr powder is pressed, (S3) the pressed Cu-Cr powder mixture is sintered to form the material of the Cu-Cr switching contact. The sintering or a subsequent heat treatment process is carried out with an alternating temperature profile in which the Cu-Cr powder mixture, or the Cu-Cr material, is heated at least twice alternately above an upper temperature limit value (S4) and is cooled again below a lower temperature limit value (S5). All of the steps are carried out at temperatures at which no molten phase forms.

IPC 8 full level

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