

Title (en)

COMPOSITE MEMBER MADE OF COPPER OR A COPPER ALLOY WITH EMBEDDED CARBON NANOTUBES, METHOD FOR THE PRODUCTION OF SUCH A MEMBER, AND USE OF THE COMPOSITE MEMBER

Title (de)

VERBUNDKÖRPER AUS KUPFER ODER EINER KUPFERLEGIERUNG MIT EINGELAGERTEM CARBON NANOTUBES UND VERFAHREN ZUR HERSTELLUNG EINES SOLCHEN KÖRPERS SOWIE VERWENDUNG DES VERBUNDKÖRPERS

Title (fr)

CORPS COMPOSITE EN CUIVRE OU EN UN ALLIAGE DE CUIVRE AVEC DES NANOTUBES DE CARBONE INCRUSTÉS ET PROCÉDÉ DE FABRICATION D'UN TEL CORPS COMPOSITE AINSI QU'UTILISATION DU CORPS COMPOSITE

Publication

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Application

**EP 09801134 A 20091028**

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Abstract (en)

[origin: WO2010054619A2] The invention relates to a composite member made of copper or a copper alloy with embedded carbon nanotubes (CNTs), a method for producing such a member, and the use of said member. According to the invention, the percentage of CNTs ranges from 0.1 to 1.5 percent by weight. The composite member can be produced by sintering or cooling a metal bath containing CNTs in an at least largely homogeneous distribution. The composite member is preferably used as a component for electric connections or in high-temperature or high-pressure systems.

IPC 8 full level

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