

Title (en)

ELECTRICAL LINE WITH CARBON NANOTUBES

Title (de)

ELEKTRISCHE LEISTUNG MIT KOHLENSTOFFNANORÖHREN

Title (fr)

PUISSANCE ÉLECTRIQUE AVEC DES NANOTUBES DE CARBONE

Publication

EP 2193528 A1 20100609 (DE)

Application

EP 07818370 A 20070924

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EP 2007008283 W 20070924

Abstract (en)

[origin: WO2009039872A1] The invention relates to an electrical line of layered construction having a first layer (1) comprising a composite with carbon nanotubes and a second layer (2). In order to reduce the material costs of an electrical conductor of this type, the invention proposes that the second layer (2) comprise a thermally conductive second material and directly adjoin the first layer (1), wherein one of the two layers (1, 2) at least partially surrounds the other layer (1, 2) over its circumference in such a way that substantial portions of the lost heat which is generated in the first layer on account of a current flowing through the first layer (1) is dissipated to the second layer (1).

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