

Title (en)

STRAND-LIKE MATERIAL COMPOSITE WITH CNT YARNS AND METHOD FOR THE MANUFACTURE THEREOF

Title (de)

STRANGFÖRMIGER MATERIALVERBUND MIT CNT-GARNEN UND VERFAHREN ZU DESSEN HERSTELLUNG

Title (fr)

MATÉRIAU COMPOSITE EN FORME DE BARRE CONTENANT DES FILS CNT ET PROCÉDÉ DE FABRICATION

Publication

**EP 2252732 A1 20101124 (DE)**

Application

**EP 09717586 A 20090224**

Priority

- EP 2009052173 W 20090224
- DE 102008013518 A 20080307

Abstract (en)

[origin: WO2009109485A1] The object of the invention is a strand-like material composite (21) comprising CNT yarns (23) that are embedded in a metal matrix (25). The embedding in a common matrix (25) has the advantage in that the material composite exhibits an improved electrical conductivity. This lies in the ability for electrons to switch from the CNT (23) to the matrix (25) and back again. The strand-like material composite is therefore suitable for use as an electrical conductor. Further claimed for patent protection is a method for producing the strand-like material composite.

IPC 8 full level

**C23C 14/14** (2006.01); **C23C 14/56** (2006.01); **D02G 3/44** (2006.01); **D06M 11/83** (2006.01)

CPC (source: EP US)

**B82Y 30/00** (2013.01 - EP US); **C22C 26/00** (2013.01 - EP US); **C22C 47/025** (2013.01 - EP US); **C22C 47/04** (2013.01 - EP US); **C23C 14/046** (2013.01 - EP US); **C23C 14/185** (2013.01 - EP US); **C23C 14/562** (2013.01 - EP US); **C25D 5/54** (2013.01 - EP US); **C25D 7/006** (2013.01 - EP US); **C25D 7/0607** (2013.01 - EP US); **D02G 3/16** (2013.01 - EP US); **D02G 3/441** (2013.01 - EP US); **D06M 11/83** (2013.01 - EP US); **C22C 2026/002** (2013.01 - EP US); **D10B 2101/122** (2013.01 - EP US); **Y10T 428/2918** (2015.01 - EP US)

Citation (search report)

See references of WO 2009109485A1

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 MK MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

**WO 2009109485 A1 20090911**; CN 101960061 A 20110126; CN 101960061 B 20130306; DE 102008013518 A1 20090917; EP 2252732 A1 20101124; US 2010330365 A1 20101230

DOCDB simple family (application)

**EP 2009052173 W 20090224**; CN 200980107998 A 20090224; DE 102008013518 A 20080307; EP 09717586 A 20090224; US 73606809 A 20090224