

Title (en)  
BORON NITRIDE NANOTUBE FIBRILS AND YARNS

Title (de)  
BORNITRID-NANORÖHRCHENFIBRILLEN UND GARNE

Title (fr)  
FIBRILLES ET FILS DE NANOTUBES DE NITRURE DE BORE

Publication  
**EP 2393966 A4 20180418 (EN)**

Application  
**EP 09839785 A 20090508**

Priority

- US 2009002861 W 20090508
- US 32259109 A 20090204
- US 38770309 A 20090506

Abstract (en)  
[origin: US2010192535A1] A method for the production of long, high aspect ratio boron nitride nanotubes and boron nitride nanotube fibrils composed of single or few walled boron nitride nanotubes aligned in bundles of nanotubes 20 µm and longer at a rate of above about 1 meter per second. Nanotube yarns comprised of twisted bundles of such nanotube fibrils are also described.

IPC 8 full level  
**D01C 5/00** (2006.01); **B01J 19/12** (2006.01)

CPC (source: EP KR US)  
**B82B 1/00** (2013.01 - KR); **B82B 3/00** (2013.01 - KR); **B82Y 30/00** (2013.01 - EP US); **C01B 21/0641** (2013.01 - EP US); **C01B 21/0648** (2013.01 - EP US); **C04B 35/6229** (2013.01 - EP US); **D02G 3/02** (2013.01 - EP KR US); **B82Y 40/00** (2013.01 - KR); **C01P 2004/13** (2013.01 - EP US); **C01P 2004/133** (2013.01 - EP US); **C01P 2004/16** (2013.01 - EP US); **C04B 2235/526** (2013.01 - EP US); **C04B 2235/5284** (2013.01 - EP US); **D10B 2101/14** (2013.01 - EP US); **Y10T 428/2916** (2015.01 - EP US)

Citation (search report)

- [XA] US 6586093 B1 20030701 - LAUDE THOMAS [FR], et al
- [X] JP 2006240942 A 20060914 - NAT INST FOR MATERIALS SCIENCE
- [X] CN 1899956 A 20070124 - SOUTCH CHINA UNIV OF SCIENCE A [CN]
- [X] THOMAS LAUDE ET AL: "Long ropes of boron nitride nanotubes grown by a continuous laser heating", APPLIED PHYSICS LETTERS, vol. 76, no. 22, 29 May 2000 (2000-05-29), US, pages 3239 - 3241, XP055456136, ISSN: 0003-6951, DOI: 10.1063/1.126593
- [X] T. LAUDE ET AL: "Fine modulations in the diffraction pattern of boron nitride nanotubes synthesised by non-ablative laser heating", EUROPEAN PHYSICAL JOURNAL APPLIED PHYSICS, vol. 28, no. 3, 30 August 2004 (2004-08-30), FR, pages 293 - 300, XP055456146, ISSN: 1286-0042, DOI: 10.1051/epjap:2004183
- See references of WO 2010090624A1

Cited by  
WO2018236312A2

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

DOCDB simple family (publication)  
**US 2010192535 A1 20100805**; CA 2750847 A1 20100812; EP 2393966 A1 20111214; EP 2393966 A4 20180418; JP 2012516827 A 20120726; KR 20110113201 A 20111014; WO 2010090624 A1 20100812

DOCDB simple family (application)  
**US 38770309 A 20090506**; CA 2750847 A 20090508; EP 09839785 A 20090508; JP 2011547879 A 20090508; KR 20117020370 A 20090508; US 2009002861 W 20090508