Title (en)

VAPOR-GROWN CARBON FIBER AND PRODUCTION PROCESS THEREOF

Title (de)

VGCF-CARBONFASER UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)

FIBRES DE CARBONE OBTENUES PAR CROISSANCE EN PHASE VAPEUR ET LEUR PROCEDE DE PRODUCTION

Publication

EP 1966420 A4 20090610 (EN)

Application

EP 06715701 A 20060314

Priority

- JP 2006305473 W 20060314
- JP 2005369933 A 20051222

Abstract (en)

[origin: WO2007072584A1] The present invention provides a process for producing a vapor-grown carbon fiber by supplying a raw material at least containing a carbon source and a catalyst and/or catalyst precursor compound into a heating zone, wherein the raw material further containing an oxygen-containing carbon source compound which is selected from the group consisting of ketones and ethers. The process for producing a vapor-grown carbon fiber according to the present invention does not leave a residue in a reaction device because a raw material used contains a particular oxygen-containing carbon source compound and, thereby, can continuously produce a vapor-grown carbon fiber.

IPC 8 full level

D01F 9/127 (2006.01); **C01B 31/02** (2006.01)

CPC (source: EP KR US)

B82Y 30/00 (2013.01 - EP US); **B82Y 40/00** (2013.01 - EP US); **C01B 32/162** (2017.07 - EP KR US); **D01F 9/127** (2013.01 - EP KR US); **D01F 9/1272** (2013.01 - EP US); **D01F 9/1277** (2013.01 - EP US); B82Y 30/00 (2013.01 - KR); B82Y 40/00 (2013.01 - KR); C01B 2202/34 (2013.01 - EP KR US); C01B 2202/36 (2013.01 - EP KR US); Y10T 428/30 (2015.01 - EP US)

Citation (search report)

- [AX] WO 2005040453 A2 20050506 - IBM [US], et al
- [AX] WO 2005065100 A2 20050721 - RESASCO DANIEL E [US], et al
- [X] WO 03002789 A1 20030109 - SHOWA DENKO KK [JP], et al
- [PX] WO 2005121420 A1 20051222 - SHOWA DENKO KK [JP], et al
- [X] DATABASE WPI Week 200382, Derwent World Patents Index; AN 2003-882252, XP002526099
- See references of WO 2007072584A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2007072584 A1 20070628; EP 1966420 A1 20080910; EP 1966420 A4 20090610; KR 20080069705 A 20080728; US 2009176100 A1 20090709

DOCDB simple family (application)

JP 2006305473 W 20060314; EP 06715701 A 20060314; KR 20087015096 A 20080620; US 15856106 A 20060314