Title (en)

PROCESS FOR PRODUCING A GRAPHENE FILM

Title (de)

VERFAHREN ZUR HERSTELLUNG EINER GRAPHENFOLIE

Title (fr)

PROCEDE D'ELABORATION D'UN FILM DE GRAPHENE

Publication

EP 3129518 A1 20170215 (FR)

Application

EP 15714579 A 20150306

Priority

- FR 1400560 A 20140307
- FR 2015050551 W 20150306

Abstract (en)

[origin: WO2015132537A1] A process for producing a graphene film, comprising the following successive steps: - placing a substrate (1) and a solid carbon source (2) in a reaction chamber (3), which has a gas inlet (4), - heating the solid carbon source (2) by passing a current through said source, under a gas stream, the gas being free of hydrocarbon, so as to convert at least one part of the solid carbon source (2) into a graphene film on the substrate (1).

IPC 8 full level

C23C 14/06 (2006.01); **C01B 32/182** (2017.01); **C23C 14/26** (2006.01)

CPC (source: EP KR US)

C01B 32/186 (2017.07 - EP KR US); **C23C 14/0605** (2013.01 - EP KR US); **C23C 14/26** (2013.01 - EP KR US); **C23C 16/26** (2013.01 - US); **C23C 16/455** (2013.01 - US); **C23C 16/46** (2013.01 - US)

Citation (search report)

See references of WO 2015132537A1

Citation (examination)

- CN 102400109 A 20120404 - UNIV NANJING AERONAUTICS
- WO 2014137985 A1 20140912 - LOCKHEED CORP [US]
- HENGXING JI ET AL: "Graphene Growth Using a Solid Carbon Feedstock and Hydrogen", ACS NANO, vol. 5, no. 9, 27 September 2011 (2011-09-27), US, pages 7656 - 7661, XP055560163, ISSN: 1936-0851, DOI: 10.1021/nn202802x

Designated contracting state (EPC)

AL 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 RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

WO 2015132537 A1 20150911; EP 3129518 A1 20170215; FR 3018282 A1 20150911; KR 20160130485 A 20161111; US 10337102 B2 20190702; US 2017016111 A1 20170119

DOCDB simple family (application)

FR 2015050551 W 20150306; EP 15714579 A 20150306; FR 1400560 A 20140307; KR 20167027843 A 20150306; US 201515124158 A 20150306