

Title (en)

FORMATION OF BORON CARBIDE-BORON NITRIDE CARBON COMPOSITIONS

Title (de)

BILDUNG VON BORCARBID-BORNITRID-KOHLENSTOFFZUSAMMENSETZUNGEN

Title (fr)

FORMATION DE COMPOSITIONS CARBONÉES DE CARBURE DE BORE-NITRURE DE BORE

Publication

**EP 2852552 A1 20150401 (EN)**

Application

**EP 13784805 A 20130228**

Priority

- US 201261640744 P 20120501
- US 201261669201 P 20120709
- US 201261693930 P 20120828
- US 201313749794 A 20130125
- US 201313768219 A 20130215
- US 2013028122 W 20130228

Abstract (en)

[origin: WO2013165538A1] A composition having nanoparticles of a boron carbide and a carbonaceous matrix. The composition is not in the form of a powder. A composition comprising boron and an organic component, The organic component is an organic compound having a char yield of at least 60% by weight or a thermoset made from the organic compound. A method of combining boron and an organic compound having a char yield of at least 60% by weight, and heating to form boron carbide or boron nitride nanoparticles.

IPC 8 full level

**B82B 1/00** (2006.01); **B82Y 30/00** (2011.01); **C01B 32/949** (2017.01); **C01B 35/02** (2006.01); **C01B 35/08** (2006.01); **C04B 35/52** (2006.01); **C04B 35/524** (2006.01); **C04B 35/563** (2006.01); **C04B 35/591** (2006.01); **C04B 35/626** (2006.01); **C04B 35/628** (2006.01); **C04B 35/76** (2006.01); **C04B 35/80** (2006.01); **C04B 35/83** (2006.01)

CPC (source: EP US)

**B82Y 30/00** (2013.01 - EP); **C04B 35/522** (2013.01 - EP US); **C04B 35/524** (2013.01 - EP US); **C04B 35/563** (2013.01 - EP US); **C04B 35/6267** (2013.01 - EP US); **C04B 35/62836** (2013.01 - EP); **C04B 35/62839** (2013.01 - EP); **C04B 35/76** (2013.01 - EP); **C04B 35/80** (2013.01 - EP US); **C04B 35/83** (2013.01 - EP); **C04B 2235/3821** (2013.01 - EP); **C04B 2235/386** (2013.01 - EP); **C04B 2235/421** (2013.01 - EP); **C04B 2235/46** (2013.01 - EP); **C04B 2235/48** (2013.01 - EP); **C04B 2235/5288** (2013.01 - EP); **C04B 2235/5454** (2013.01 - EP); **C04B 2235/6562** (2013.01 - EP); **C04B 2235/6581** (2013.01 - EP); **C04B 2235/6586** (2013.01 - EP); **C04B 2235/781** (2013.01 - EP); **C04B 2235/80** (2013.01 - EP); **C04B 2235/95** (2013.01 - EP); **C04B 2235/9661** (2013.01 - EP)

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 2013165538 A1 20131107**; EP 2844627 A2 20150311; EP 2844627 A4 20160706; EP 2852552 A1 20150401; EP 2852552 A4 20160309; JP 2015521150 A 20150727; JP 6236195 B2 20171122; KR 20150013173 A 20150204; WO 2013191804 A2 20131227; WO 2013191804 A3 20140313; WO 2013191804 A9 20140703

DOCDB simple family (application)

**US 2013028122 W 20130228**; EP 13784805 A 20130228; EP 13806734 A 20130422; JP 2015510315 A 20130422; KR 20147032251 A 20130422; US 2013037559 W 20130422