

Title (en)  
REFRACTORY METAL BORIDE CERAMICS AND METHODS OF MAKING THEREOF

Title (de)  
FEUERFESTE METALLBORIDKERAMIK UND VERFAHREN ZUR HERSTELLUNG DAVON

Title (fr)  
CÉRAMIQUES DE BORURES MÉTALLIQUES RÉFRACTAIRES ET LEURS PROCÉDÉS DE FABRICATION

Publication  
**EP 2844627 A2 20150311 (EN)**

Application  
**EP 13806734 A 20130422**

Priority

- US 201261640744 P 20120501
- US 201261669201 P 20120709
- US 201261693930 P 20120828
- US 201313749794 A 20130125
- US 201313768219 A 20130215
- US 2013037559 W 20130422

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  
**C04B 35/52** (2006.01); **B82Y 30/00** (2011.01); **C01B 32/949** (2017.01); **C04B 35/524** (2006.01); **C04B 35/563** (2006.01); **C04B 35/591** (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)  
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Designated extension state (EPC)  
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