

Title (en)  
NANOSCALE CUBIC BORON NITRIDE

Title (de)  
KUBISCHES NANO-BORNITRID

Title (fr)  
NANONITRURE DE BORE CUBIQUE

Publication  
**EP 2318310 A2 20110511 (FR)**

Application  
**EP 09784260 A 20090709**

Priority  
• FR 2009000852 W 20090709  
• FR 0803976 A 20080711

Abstract (en)  
[origin: WO2010004142A2] The invention relates to a method of manufacturing nanoscale cubic boron nitride and to the nanoscale cubic boron nitride thus obtained. The method according to the invention of manufacturing nanoscale boron nitride of cubic structure is characterized in that it comprises the following steps: a) compression of a pyrolytic boron nitride powder having a structure of the monomodal turbostratic graphite type at a pressure of between 19 and 21 GPa and at room temperature; and b) heating of the powder under a pressure of between 19 and 21 GPa and at a temperature of between 1447°C (1720 K) and 1547°C (1820 K) for less than 2 minutes. The invention is applicable in particular in the field of abrasives.

IPC 8 full level  
**C01B 21/064** (2006.01); **C04B 35/5831** (2006.01)

CPC (source: EP US)  
**B82Y 30/00** (2013.01 - EP US); **C01B 21/064** (2013.01 - EP US); **C04B 35/5831** (2013.01 - EP US); **C04B 35/645** (2013.01 - EP US); **C09K 3/1418** (2013.01 - EP US); **C01P 2002/72** (2013.01 - EP US); **C01P 2002/76** (2013.01 - EP US); **C01P 2002/82** (2013.01 - EP US); **C01P 2004/04** (2013.01 - EP US); **C01P 2004/60** (2013.01 - EP US); **C01P 2004/64** (2013.01 - EP US); **C04B 2235/386** (2013.01 - EP US); **C04B 2235/6567** (2013.01 - EP US); **C04B 2235/781** (2013.01 - EP US); **C04B 2235/95** (2013.01 - EP US); **C04B 2235/96** (2013.01 - EP US); **Y10T 428/2982** (2015.01 - EP US)

Citation (search report)  
See references of WO 2010004142A2

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 SM TR

Designated extension state (EPC)  
AL BA RS

DOCDB simple family (publication)  
**WO 2010004142 A2 20100114; WO 2010004142 A3 20100304**; EP 2318310 A2 20110511; FR 2933690 A1 20100115; FR 2933690 B1 20100910; US 2011230122 A1 20110922

DOCDB simple family (application)  
**FR 2009000852 W 20090709**; EP 09784260 A 20090709; FR 0803976 A 20080711; US 200913003651 A 20090709