

Title (en)
METHOD OF MAKING A CEMENTED CARBIDE POWDER WITH LOW SINTERING SHRINKAGE AND THE POWDER OBTAINED

Title (de)
VERFAHREN ZUR HERSTELLUNG EINES ZEMENTKARBIDPULVERS MIT GERINGER SINTERUNGSSCHRUMPUNG UND IN DEM VERFAHREN HERGESTELLTES PULVER

Title (fr)
PROCÉDÉ DE FABRICATION D'UNE POUDRE DE CARBURE CÉMENTÉ AVEC UN RETRAIT AU FRITTAGE FAIBLE, ET POUDRE OBTENUE

Publication
EP 2205382 A1 20100714 (EN)

Application
EP 08833090 A 20080924

Priority
• SE 2008051069 W 20080924
• SE 0702172 A 20070928

Abstract (en)
[origin: WO2009041901A1] 6 Abstract The present invention relates to a method of making cemented carbide powder with low sintering shrinkage comprising WC and 4- 15 wt-% Co and up to 20 wt-% cubic carbide forming elements from the Groups 4b and 5b of the Periodic Table of the Elements by 5 means of the powder metallurgical techniques wet milling, press- ing and sintering. According to the method wet milling is performed in a rotating ball mill with a ratio between the weight of milling bodies and powder of 2-5. The milling bodies are shaped either as spheres or cylinders with semi-spherical end 10 surfaces. The spherical bodies have a diameter of 10 to 15 mm and the cylindrical bodies have a diameter and height of 10 to 15 mm. The composition of the milling bodies is WC with 6 to 10 wt-% Co. The present invention also relates to a powder made according 15 to the method.

IPC 8 full level
B22F 1/10 (2022.01); **B22F 1/14** (2022.01); **C22C 29/08** (2006.01)

CPC (source: EP SE US)
B22F 1/10 (2022.01 - SE); **B22F 1/14** (2022.01 - SE); **C22C 29/08** (2013.01 - EP SE US); **B22F 2009/043** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)
B22F 2999/00 + B22F 9/04 + B22F 3/10 + B22F 2203/05

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 MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA MK RS

DOCDB simple family (publication)
WO 2009041901 A1 20090402; EP 2205382 A1 20100714; SE 0702172 L 20090224; SE 531330 C2 20090224; US 2010260641 A1 20101014

DOCDB simple family (application)
SE 2008051069 W 20080924; EP 08833090 A 20080924; SE 0702172 A 20070928; US 68026408 A 20080924