

Title (en)  
METHOD FOR PRODUCING HARD METAL GRANULATED MATERIAL

Title (de)  
VERFAHREN ZUR HERSTELLUNG VON HARTMETALLGRANULAT

Title (fr)  
PROCEDE DE PRODUCTION D'UN GRANULAT EN METAL DUR

Publication  
**EP 1373586 A2 20040102 (DE)**

Application  
**EP 02703390 A 20020308**

Priority  
• AT 0200077 W 20020308  
• AT 2312001 U 20010329

Abstract (en)  
[origin: WO02079532A2] The invention relates to a method for producing a hard metal granulated material by carrying out wet milling and spray drying inside a spray tower -1- while using pure water as the liquid phase. According to the invention, the spray tower -1- is configured and operated in such a manner that the ratio of the amount of water, which is supplied over the wet slurry, in liters per hour ranges from 0.5 to 1.8 with regard to the tower volume in m<3>, and that a maximum of 0.17 kg wet slurry is supplied per m<3> drying gas, whereby the wet slurry has a solids content ranging from 65 to 85 wt. %. Under these conditions, the usually necessary addition of a water-soluble, long-chain polyglycol to the wet slurry before spraying in order to prevent the hard metal granulated material from oxidizing is eliminated.

IPC 1-7  
**C22C 1/05; B22F 9/02**

IPC 8 full level  
**B22F 1/00** (2006.01); **B22F 9/02** (2006.01); **B22F 9/04** (2006.01); **C22C 1/05** (2006.01); **C22C 29/08** (2006.01)

CPC (source: EP KR US)  
**B22F 9/026** (2013.01 - EP US); **B22F 9/06** (2013.01 - KR); **C22C 29/08** (2013.01 - EP US); **B22F 2998/10** (2013.01 - EP US); **B22F 2999/00** (2013.01 - EP US)

C-Set (source: EP US)  
1. **B22F 2998/10 + B22F 9/04 + B22F 9/026**  
2. **B22F 2999/00 + C22C 1/051 + B22F 9/04 + B22F 9/026**

Citation (search report)  
See references of WO 02079532A2

Cited by  
CN102601378A; EP2860274A2; US10538829B2; EP2857124A1; US9475945B2; US9796633B2

Designated contracting state (EPC)  
AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)  
**WO 02079532 A2 20021010; WO 02079532 A3 20030227**; AT 4929 U1 20020125; AT E477342 T1 20100815; CA 2406372 A1 20021016; CA 2406372 C 20100914; CZ 304422 B6 20140430; DE 50214577 D1 20100923; EP 1373586 A2 20040102; EP 1373586 B1 20100811; ES 2346190 T3 20101013; IL 152968 A0 20030624; IL 152968 A 20071031; JP 2004518825 A 20040624; JP 3697242 B2 20050921; KR 100898842 B1 20090521; KR 20030007549 A 20030123; RU 2003131683 A 20050210; RU 2281835 C2 20060820; US 2003061906 A1 20030403; US 6852274 B2 20050208

DOCDB simple family (application)  
**AT 0200077 W 20020308**; AT 02703390 T 20020308; AT 2312001 U 20010329; CA 2406372 A 20020308; CZ 20023932 A 20020308; DE 50214577 T 20020308; EP 02703390 A 20020308; ES 02703390 T 20020308; IL 15296802 A 20020308; JP 2002577936 A 20020308; KR 20027014282 A 20020308; RU 2003131683 A 20020308; US 30220402 A 20021122