

Title (en)
PREPARATION OF MINERAL PARTICLES IN A SUPERCRITICAL CO₂-MEDIUM

Title (de)
HERSTELLUNG VON MINERALPARTIKELN IN EINEM ÜBERKRITISCHEN CO₂-MEDIUM

Title (fr)
PRÉPARATION DE PARTICULES MINÉRALES EN MILIEU CO₂ SUPERCRITIQUE

Publication
EP 2158030 A2 20100303 (FR)

Application
EP 08805692 A 20080423

Priority
• FR 2008050738 W 20080423
• FR 0754800 A 20070430

Abstract (en)
[origin: WO2008145928A2] The invention relates to a method for preparing mineral particles (p) from mineral particle precursors, said method comprising a step (E) that comprises injecting a fluid medium (F) containing said precursors in solution and/or dispersed in a solvent in a reactor containing CO₂ at a supercritical state using an injection nozzle giving into an area where the supercritical CO₂ is at a temperature higher than or equal to the conversion temperature of the precursors into corresponding mineral species, the invention also relates to particles (p) obtained according to the method and to the use thereof.

IPC 8 full level
B01J 3/00 (2006.01); **B01J 2/02** (2006.01); **B01J 3/02** (2006.01); **B01J 19/26** (2006.01); **B01J 35/02** (2006.01); **B01J 35/08** (2006.01); **C01B 33/18** (2006.01); **C01G 25/02** (2006.01); **C01G 43/025** (2006.01); **C01G 56/00** (2006.01); **C04B 35/482** (2006.01); **C04B 35/622** (2006.01); **G21C 3/62** (2006.01)

CPC (source: EP US)
B01J 2/02 (2013.01 - EP US); **B01J 3/008** (2013.01 - EP US); **B01J 4/002** (2013.01 - EP US); **B01J 19/26** (2013.01 - EP US); **B01J 21/066** (2013.01 - EP US); **B01J 35/51** (2024.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **C01B 33/18** (2013.01 - EP US); **C01G 9/02** (2013.01 - EP US); **C01G 23/047** (2013.01 - EP US); **C01G 25/02** (2013.01 - EP US); **C01G 27/02** (2013.01 - EP US); **C01G 43/01** (2013.01 - EP US); **C01G 56/00** (2013.01 - EP US); **C04B 35/486** (2013.01 - EP US); **C04B 35/62655** (2013.01 - EP US); **C04B 35/62823** (2013.01 - EP US); **B01J 2208/00672** (2013.01 - EP US); **B01J 2219/00119** (2013.01 - EP US); **B01J 2219/00173** (2013.01 - EP US); **B01J 2219/185** (2013.01 - EP US); **C01P 2004/02** (2013.01 - EP US); **C01P 2006/12** (2013.01 - EP US); **C04B 2235/3826** (2013.01 - EP US); **C04B 2235/441** (2013.01 - EP US); **C04B 2235/449** (2013.01 - EP US); **C04B 2235/528** (2013.01 - EP US); **C04B 2235/5409** (2013.01 - EP US); **C04B 2235/5427** (2013.01 - EP US); **C04B 2235/5454** (2013.01 - EP US); **Y02P 20/54** (2015.11 - EP US); **Y10T 428/2982** (2015.01 - EP US)

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)
FR 2915405 A1 20081031; **FR 2915405 B1 20110909**; CN 101754800 A 20100623; CN 101754800 B 20140723; EP 2158030 A2 20100303; JP 2010525934 A 20100729; JP 5743058 B2 20150701; US 2010197484 A1 20100805; WO 2008145928 A2 20081204; WO 2008145928 A3 20090212

DOCDB simple family (application)
FR 0754800 A 20070430; CN 200880019641 A 20080423; EP 08805692 A 20080423; FR 2008050738 W 20080423; JP 2010504803 A 20080423; US 59821208 A 20080423