

Title (en)

METHOD OF SYNTHESISING COATED ORGANIC OR INORGANIC PARTICLES

Title (de)

VERFAHREN ZUR SYNTHESE VON BESCHICHTETEN ORGANISCHEN ODER ANORGANISCHEN TEILCHEN

Title (fr)

PROCEDE DE SYNTHESE DE PARTICULES ORGANIQUES OU INORGANIQUES ENROBEES

Publication

EP 2035134 A1 20090318 (FR)

Application

EP 07729100 A 20070514

Priority

- EP 2007054648 W 20070514
- FR 0651734 A 20060515

Abstract (en)

[origin: CA2652005A1] The present invention relates to a method for the ~in situ~ manufacture, in a pressurised CO₂ environment, of coated particles. The manufacturing method is characterised in that the steps of synthesising the particles and coating these particles are coupled so that the synthesised particles remain dispersed in a pressurised CO₂ environment at least until the coating. The device comprises a reactor for synthesising particles in a pressurised CO₂ environment; a means of injecting the coating material and its precursor into said reactor; a means of feeding said reactor with a pressurised CO₂ environment, in which the means of injecting the coating material or its precursor is coupled to the synthesis reactor so that the injection of the coating material or its precursor into said reactor does not suppress the dispersion in the pressurised CO₂ environment of the particles in said reactor.

IPC 8 full level

B01J 13/02 (2006.01); **B01J 3/00** (2006.01); **B01J 13/14** (2006.01); **B01J 19/26** (2006.01)

CPC (source: EP KR US)

B01J 3/00 (2013.01 - KR); **B01J 3/008** (2013.01 - EP US); **B01J 13/02** (2013.01 - EP KR US); **B01J 13/14** (2013.01 - EP KR US); **B01J 13/22** (2013.01 - KR); **B01J 19/26** (2013.01 - EP US); **B01J 2219/00006** (2013.01 - EP US); **B01J 2219/0004** (2013.01 - EP US); **B01J 2219/00768** (2013.01 - EP US)

Citation (search report)

See references of WO 2007131990A1

Citation (examination)

- WO 0059622 A1 20001012 - CENTRE NAT RECH SCIENT [FR], et al
- RAGHU VISWANATHAN ET AL: "Formation of Zinc Oxide-Titanium Dioxide Composite Nanoparticles in Supercritical Water", INDUSTRIAL & ENGINEERING CHEMISTRY RESEARCH, vol. 42, no. 22, 1 October 2003 (2003-10-01), pages 5535 - 5540, XP055047267, ISSN: 0888-5885, DOI: 10.1021/ie0302701

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

FR 2900845 A1 20071116; **FR 2900845 B1 20090306**; CA 2652005 A1 20071122; CA 2652005 C 20141125; CN 101443109 A 20090527; CN 101443109 B 20120523; EP 2035134 A1 20090318; JP 2009537301 A 20091029; JP 5737839 B2 20150617; KR 101390915 B1 20140430; KR 20090017600 A 20090218; US 2009186153 A1 20090723; WO 2007131990 A1 20071122

DOCDB simple family (application)

FR 0651734 A 20060515; CA 2652005 A 20070514; CN 200780017712 A 20070514; EP 07729100 A 20070514; EP 2007054648 W 20070514; JP 2009510440 A 20070514; KR 20087030450 A 20070514; US 30078507 A 20070514