

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

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Application

**EP 07729100 A 20070514**

Priority

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- FR 0651734 A 20060515

Abstract (en)

[origin: CA2652005A1] The present invention relates to a method for the ~in situ~ manufacture, in a pressurised CO<sub>2</sub> 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 CO<sub>2</sub> environment at least until the coating. The device comprises a reactor for synthesising particles in a pressurised CO<sub>2</sub> environment; a means of injecting the coating material and its precursor into said reactor; a means of feeding said reactor with a pressurised CO<sub>2</sub> 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 CO<sub>2</sub> environment of the particles in said reactor.

IPC 8 full level

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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

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**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