

Title (en)

PRODUCTION OF SiO<sub>2</sub>-COATED TITANIUM DIOXIDE PARTICLES WITH AN ADJUSTABLE COATING

Title (de)

HERSTELLUNG VON SiO<sub>2</sub>-BESCHICHTETEN TITANDIOXIDPARTIKELN MIT EINSTELLBARER BESCHICHTUNG

Title (fr)

FABRICATION DE PARTICULES DE DIOXYDE DE TITANE REVÊTUES DE SiO<sub>2</sub>, À REVÊTEMENT RÉGLABLE

Publication

**EP 2185656 A2 20100519 (DE)**

Application

**EP 08787516 A 20080827**

Priority

- EP 2008061221 W 20080827
- EP 07115104 A 20070828
- EP 08787516 A 20080827

Abstract (en)

[origin: WO2009027433A2] The invention relates to a method for producing coated nanoparticles which comprise a core holding at least one first substance and at least one envelope from at least one additional substance that at least partially surrounds the core, in a fluid system. The invention also relates to nanoparticles obtainable by said method, to nanoparticles comprising a non-porous core that holds at least one first substance, and at least one envelope from at least one additional substance that at least partially surrounds the core, the nanoparticles having a narrow particle-size distribution. The invention finally relates to the use of the nanoparticles in photocatalysis and to a device for carrying out the method.

IPC 8 full level

**C09C 1/36** (2006.01); **B01J 19/26** (2006.01); **C09C 3/06** (2006.01)

CPC (source: EP US)

**B01J 2/003** (2013.01 - EP US); **B01J 2/04** (2013.01 - EP US); **B01J 19/24** (2013.01 - EP US); **B01J 19/26** (2013.01 - EP US); **B01J 21/08** (2013.01 - EP US); **B01J 35/23** (2024.01 - EP US); **B01J 35/39** (2024.01 - EP US); **B01J 37/349** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **C01G 23/07** (2013.01 - EP US); **C09C 1/3661** (2013.01 - EP US); **C09C 1/3684** (2013.01 - EP US); **B01J 2219/00123** (2013.01 - EP US); **B01J 2219/00157** (2013.01 - EP US); **B01J 2219/00166** (2013.01 - EP US); **C01P 2002/85** (2013.01 - EP US); **C01P 2004/04** (2013.01 - EP US); **C01P 2004/64** (2013.01 - EP US); **C01P 2004/84** (2013.01 - EP US); **C01P 2004/86** (2013.01 - EP US); **Y10T 428/2991** (2015.01 - EP US); **Y10T 428/2993** (2015.01 - EP US)

Citation (search report)

See references of WO 2009027433A2

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 2009027433 A2 20090305**; **WO 2009027433 A3 20090514**; CN 101784342 A 20100721; EP 2185656 A2 20100519; JP 2010536709 A 20101202; US 2010304143 A1 20101202

DOCDB simple family (application)

**EP 2008061221 W 20080827**; CN 200880103772 A 20080827; EP 08787516 A 20080827; JP 2010522360 A 20080827; US 67543208 A 20080827