

Title (en)
ENCAPSULATED NANOPARTICLES, ESPECIALLY THOSE HAVING A CORE/SHELL STRUCTURE

Title (de)
VERKAPSELTE NANOTEILCHEN, INSBESONDERE JENE MIT EINER KERN-/SCHALENSTRUKTUR

Title (fr)
NANOPARTICULES NOTAMMENT A STRUCTURE COEUR COQUILLE, ENROBEES

Publication
EP 1996319 A2 20081203 (FR)

Application
EP 07727131 A 20070320

Priority
• EP 2007052654 W 20070320
• FR 0650950 A 20060320

Abstract (en)
[origin: WO2007107574A2] Bead comprising at least two non-agglomerated solid nanoparticles having a core structure, comprising only a solid core, or having a core/shell structure, comprising a solid core surrounded by a solid shell consisting of an inorganic material, said nanoparticles being encapsulated by a non-porous metal oxide. Method of preparing said bead. Material, such as glass, a crystal, a ceramic or a polymer comprising said beads.

IPC 8 full level
B01J 13/02 (2006.01); **B01J 13/22** (2006.01)

CPC (source: EP US)
B01J 13/02 (2013.01 - EP US); **B01J 13/22** (2013.01 - EP US); **B82Y 30/00** (2013.01 - EP US); **C03C 14/004** (2013.01 - EP US); **C09C 1/62** (2013.01 - EP US); **C01P 2004/64** (2013.01 - EP US); **C03C 2214/05** (2013.01 - EP US); **C03C 2214/08** (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 2007107574A2

Citation (examination)
• US 2006019098 A1 20060126 - CHAN YINTHAI [US], et al
• US 3928057 A 19751223 - DECOLIBUS RAYMOND LEW
• US 6582763 B1 20030624 - NISHIMURA KEIICHI [JP], et al
• US 2004067503 A1 20040408 - TAN WEIHONG [US], et al
• POWELL Q H ET AL: "SYNTHESIS OF ALUMINA- AND ALUMINA/SILICA-COATED TITANIA PARTICLES IN AN AEROSOL FLOW REACTOR", CHEMISTRY OF MATERIALS, AMERICAN CHEMICAL SOCIETY, WASHINGTON, US, vol. 9, no. 3, 1 March 1997 (1997-03-01), pages 685 - 693, XP000686524, ISSN: 0897-4756, DOI: 10.1021/CM960334G

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

DOCDB simple family (publication)
FR 2898519 A1 20070921; **FR 2898519 B1 20090109**; EP 1996319 A2 20081203; JP 2009530497 A 20090827; JP 2015110783 A 20150618; JP 5707038 B2 20150422; US 2009169892 A1 20090702; WO 2007107574 A2 20070927; WO 2007107574 A3 20071108

DOCDB simple family (application)
FR 0650950 A 20060320; EP 07727131 A 20070320; EP 2007052654 W 20070320; JP 2009500857 A 20070320; JP 2014263035 A 20141225; US 29348607 A 20070320