

Title (en)
EMULSION ACTIVATABLE BY ULTRASOUNDS AND METHOD FOR PRODUCING SAME

Title (de)
MITTELS ULTRASCHALL AKTIVIERBARE EMULSION UND HERSTELLUNGSVERFAHREN DAFÜR

Title (fr)
EMULSION ACTIVABLE PAR ULTRASONNS ET SON PROCEDE DE FABRICATION

Publication
EP 2453875 A1 20120523 (FR)

Application
EP 10742223 A 20100707

Priority
• FR 2010051439 W 20100707
• FR 0955001 A 20090717

Abstract (en)
[origin: WO2011007082A1] The invention relates to an emulsion that can be activated by ultrasounds, comprising, in an emulsion in an aqueous solution, microparticles (1) having a diameter (D) of less than 10 µm and containing an active agent and a gaseous precursor (3) in a liquid form, encapsulated by a first emulsifier (4). The microparticles contain nanoparticles (5) smaller than 1 µm, in an emulsion in the gaseous precursor, each nanoparticle comprising an inner liquid (6) that contains the active agent and is encapsulated by second emulsifier (7).

IPC 8 full level
A61K 9/107 (2006.01); **A61B 5/00** (2006.01); **A61J 13/00** (2006.01); **A61K 9/00** (2006.01); **A61K 48/00** (2006.01)

CPC (source: EP US)
A61B 8/0833 (2013.01 - EP US); **A61B 8/481** (2013.01 - EP US); **A61K 9/0009** (2013.01 - EP US); **A61K 9/0019** (2013.01 - EP US); **A61K 9/1075** (2013.01 - EP US); **A61K 41/0028** (2013.01 - EP US); **A61P 35/00** (2017.12 - EP); **A61P 43/00** (2017.12 - EP); **A61J 3/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2011007082A1

Citation (examination)
• US 2007178047 A1 20070802 - KAWABATA KENICHI [JP]
• NICOLAS PANNACCI ET AL: "Equilibrium and Nonequilibrium States in Microfluidic Double Emulsions", PHYSICAL REVIEW LETTERS, vol. 101, no. 16, 1 October 2008 (2008-10-01), US, XP055222047, ISSN: 0031-9007, DOI: 10.1103/PhysRevLett.101.164502

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

DOCDB simple family (publication)
WO 2011007082 A1 20110120; CN 102573797 A 20120711; CN 102573797 B 20141029; EP 2453875 A1 20120523; FR 2948024 A1 20110121; FR 2948024 B1 20200110; IL 217457 A0 20120229; JP 2012533531 A 20121227; JP 5856055 B2 20160209; US 2012121516 A1 20120517

DOCDB simple family (application)
FR 2010051439 W 20100707; CN 201080041846 A 20100707; EP 10742223 A 20100707; FR 0955001 A 20090717; IL 21745712 A 20120110; JP 2012520068 A 20100707; US 201013382745 A 20100707