

Title (en)
INORGANIC CONTROLLED RELEASE PARTICLES WITH FAST DRUG LOADING

Title (de)
ANORGANISCHE RETARD-PARTIKEL MIT SCHNELLER WIRKSTOFFBELADUNG

Title (fr)
PARTICULES INORGANIKES À LIBÉRATION PROLONGÉE À CHARGE RAPIDE EN SUBSTANCE MÉDICAMENTEUSE

Publication
EP 3310342 A4 20190306 (EN)

Application
EP 16812105 A 20160513

Priority
• US 201562180345 P 20150616
• US 2016032408 W 20160513

Abstract (en)
[origin: WO2016204896A1] Disclosed herein are nanoparticles comprising an inorganic material having pores that can quickly absorb pharmaceutical moieties and then release such moieties in a controlled fashion for an extended period of time. The nanoparticles can be aggregated in order to form microaggregates that provide the same advantages of quick absorption and controlled release of pharmaceutical moieties. Quick absorption permits the preparation of drug-loaded nanoparticles and microaggregates essentially contemporaneously with the time of treatment, such as during a surgical process. Methods of preparing such nanoparticles and microaggregates are also provided, as are methods for administering a pharmaceutical moiety using the nanoparticles and microaggregates.

IPC 8 full level
A61K 47/69 (2017.01); **A61K 9/14** (2006.01); **A61K 9/50** (2006.01); **A61P 31/04** (2006.01)

CPC (source: EP)
A61K 9/0019 (2013.01); **A61K 9/5115** (2013.01); **A61K 47/6923** (2017.07); **A61P 31/04** (2017.12)

Citation (search report)
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• [Y] EP 2259798 B1 20131211 - BAXTER INT [US], et al
• [Y] US 2004076681 A1 20040422 - DENNIS DONN M [US], et al
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• See references of WO 2016204896A1

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 RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2016204896 A1 20161222; CA 2989795 A1 20161222; CA 2989795 C 20231212; EP 3310342 A1 20180425; EP 3310342 A4 20190306

DOCDB simple family (application)
US 2016032408 W 20160513; CA 2989795 A 20160513; EP 16812105 A 20160513