

Title (en)

SELF-ASSEMBLED, MICROPATTERNED, AND RADIO FREQUENCY (RF) SHIELDED BIOCONTAINERS AND THEIR USES FOR REMOTE SPATIALLY CONTROLLED CHEMICAL DELIVERY

Title (de)

SELBSTANORDNENDE MIKROSTRUKTURIERTE UND FUNKFREQUENZABGESCHIRMTE BIOBEHÄLTER SOWIE IHRE ANWENDUNG FÜR FERNRÄUMLICH GESTEUERTE CHEMISCHE ZUFUHR

Title (fr)

BIOCONTENANTS AUTO-ASSEMBLÉS, À MICRO-MOTIFS ET PROTÉGÉS DES FRÉQUENCES RADIO (RF) ET LEURS UTILISATIONS POUR UNE DISTRIBUTION À DISTANCE DE COMPOSÉS CHIMIQUES CONTRÔLÉE SPATIALEMENT

Publication

EP 2037809 A4 20121121 (EN)

Application

EP 07870998 A 20070625

Priority

- US 2007072029 W 20070625
- US 81606306 P 20060623
- US 49182906 A 20060724

Abstract (en)

[origin: WO2008108862A2] The present invention relates to a nanoscale or microscale particle for encapsulation and delivery of materials or substances, including, but not limited to, cells, drugs, tissue, gels and polymers contained within the particle, with subsequent release of the therapeutic materials in situ, methods of fabricating the particle by folding a 2D precursor into the 3D particle, and the use of the particle in in-vivo or in-vitro applications The particle can be in any polyhedral shape and its surfaces can have either no perforations or nano/microscale perforations The particle is coated with a biocompatible metal, e g gold, or polymer. e g parvlene, layer and the surfaces and hinges of the particle are made of any metal or polymer combinations.

IPC 8 full level

A61B 5/055 (2006.01); **C12N 5/07** (2010.01); **C12N 5/071** (2010.01)

CPC (source: EP)

A61K 9/0024 (2013.01); **A61K 9/0097** (2013.01); **A61P 3/10** (2017.12); **B82Y 5/00** (2013.01); **B82Y 30/00** (2013.01)

Citation (search report)

- [XP] WO 2007014113 A2 20070201 - UNIV JOHNS HOPKINS [US], et al
- See references of WO 2008108862A2

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)

WO 2008108862 A2 20080912; **WO 2008108862 A3 20081106**; CA 2656648 A1 20080912; EP 2037809 A2 20090325; EP 2037809 A4 20121121; JP 2009541490 A 20091126; JP 5451385 B2 20140326

DOCDB simple family (application)

US 2007072029 W 20070625; CA 2656648 A 20070625; EP 07870998 A 20070625; JP 2009518492 A 20070625