

Title (en)

MAGNETICALLY RESPONSIVE MEMBRANE STRUCTURES

Title (de)

MAGNETISCH REAKTIVE MEMBRANSTRUKTUREN

Title (fr)

STRUCTURES DE MEMBRANES RÉACTIVES AUX CHAMPS MAGNÉTIQUES

Publication

**EP 2575896 A2 20130410 (EN)**

Application

**EP 11723036 A 20110526**

Priority

- EP 10163865 A 20100526
- EP 2011058654 W 20110526
- EP 11723036 A 20110526

Abstract (en)

[origin: WO2011147926A2] The present invention is directed towards magnetically responsive vesicular compositions comprising (a) a vesicular structure having a membrane enclosing a cavity and (b) at least one stabilized magnetic nanoparticle embedded in said membrane, and in particular towards lipid and/or polymeric vesicular compositions comprising stabilized superparamagnetic iron oxide nanoparticles. The vesicular compositions may further be functionalized with reactive groups for attachment of active agents or tethers for attachment to surfaces. Methods of preparation and their use in (targeted) delivery of an active agent, as a nanoreactor, for imaging purposes and combinations thereof are also disclosed.

IPC 8 full level

**A61K 49/18** (2006.01); **A61K 9/00** (2006.01); **A61K 9/127** (2006.01); **A61K 9/50** (2006.01); **A61K 41/00** (2006.01); **A61P 43/00** (2006.01); **B82Y 5/00** (2011.01)

CPC (source: EP)

**A61K 9/0009** (2013.01); **A61K 9/127** (2013.01); **A61K 9/1273** (2013.01); **A61K 9/5094** (2013.01); **A61K 41/0028** (2013.01); **A61K 49/1806** (2013.01); **A61K 49/1812** (2013.01); **A61K 49/1833** (2013.01); **A61K 49/1839** (2013.01); **A61K 49/186** (2013.01); **A61P 43/00** (2017.12); **B82Y 5/00** (2013.01)

Citation (search report)

See references of WO 2011147926A2

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 2011147926 A2 20111201**; **WO 2011147926 A3 20120531**; EP 2575896 A2 20130410

DOCDB simple family (application)

**EP 2011058654 W 20110526**; EP 11723036 A 20110526