

Title (en)
PARTICULATE STRUCTURES MADE FROM GOLD NANOPARTICLES, METHODS FOR PREPARING SAME AND USES THEREOF FOR TREATING SOLID TUMOURS

Title (de)
TEILCHENFÖRMIGE STRUKTUREN AUS GOLDNANOPARTIKELN, VERFAHREN ZU IHRER HERSTELLUNG UND IHRE VERWENDUNG ZUR BEHANDLUNG VON FESTEN TUMOREN

Title (fr)
STRUCTURES PARTICULAIRES À BASE DE NANOPARTICULES D'OR, LEURS PROCÉDÉS DE PRÉPARATION ET LEURS UTILISATIONS DANS LE TRAITEMENT DES TUMEURS SOLIDES

Publication
EP 4003431 A1 20220601 (FR)

Application
EP 20757379 A 20200723

Priority

- FR 1908368 A 20190723
- FR 2020051352 W 20200723

Abstract (en)
[origin: WO2021014103A1] The present invention concerns a particulate structure characterised in that it comprises: a/ a biodegradable polymer particle, b/ gold nanoparticles covered on their surface with macrocyclic chelators complexing at least one ion of interest and/or a radionuclide for medical imaging, c/ a polycation having a positive charge over a pH range from 5 to 11, the gold nanoparticles b/ being encapsulated in the polymer particle a/ and/or adsorbed at the surface of the polymer particle a/. The invention also relates to a method for preparing the particulate structures. The invention further concerns the use of the particulate structures for radiotherapy or chemotherapy in the context of cancer treatment.

IPC 8 full level
A61K 49/00 (2006.01); **A61K 49/04** (2006.01); **A61K 49/18** (2006.01); **A61K 51/12** (2006.01); **B82Y 5/00** (2011.01); **B82Y 15/00** (2011.01)

CPC (source: EP US)
A61K 49/0002 (2013.01 - EP); **A61K 49/0428** (2013.01 - EP US); **A61K 49/1881** (2013.01 - EP US); **A61K 51/1251** (2013.01 - EP); **B82Y 5/00** (2013.01 - EP US); **B82Y 15/00** (2013.01 - EP US)

Citation (search report)
See references of WO 2021014103A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
WO 2021014103 A1 20210128; CA 3146881 A1 20210128; EP 4003431 A1 20220601; FR 3099052 A1 20210129; FR 3099052 B1 20220325; JP 2022541073 A 20220921; US 2022257801 A1 20220818

DOCDB simple family (application)
FR 2020051352 W 20200723; CA 3146881 A 20200723; EP 20757379 A 20200723; FR 1908368 A 20190723; JP 2022504211 A 20200723; US 202017625245 A 20200723