

Title (en)

CELLULAR MICROCOMPARTMENTS COMPRISING HUMAN CELLS UNDERGOING CARDIAC DIFFERENTIATION, TISSUES OBTAINED FROM SAID MICROCOMPARTMENTS AND USES THEREOF

Title (de)

ZELLMIKROKOMPARTIMENTE MIT MENSCHLICHEN ZELLEN, DIE HERZDIFFERENZIERT WERDEN, AUS DIESEN MIKROKOMPARTIMENTEN ERHALTENE GEWEBE UND VERWENDUNGEN DAVON

Title (fr)

MICROCOMPARTIMENTS CELLULAIRES COMPRENANT DES CELLULES HUMAINES EN COURS DE DIFFERENCIATION CARDIAQUE, TISSUS OBTENUS A PARTIR DE CES MICROCOMPARTIMENTS ET UTILISATIONS

Publication

EP 4214305 A1 20230726 (FR)

Application

EP 21786099 A 20210921

Priority

- FR 2009552 A 20200921
- EP 2021075945 W 20210921

Abstract (en)

[origin: WO2022058615A1] The invention relates to cellular microcompartments, each microcompartment successively comprising the following layers, which are organised around at least one lumen: - at least one inner layer of human cells undergoing cardiac differentiation, expressing at least one gene chosen from PDGFR α , MESP-1, NKX2-5, GATA4, MEF2C, TBX20, ISL1 and TBX5, - at least one intermediate layer of isotonic aqueous solution, and - at least one outer hydrogel layer. The invention also relates to the cardiac tissues obtained from said microcompartments and the use thereof, particularly in the treatment of heart disease.

IPC 8 full level

C12N 5/00 (2006.01); **C12N 5/077** (2010.01)

CPC (source: EP IL KR US)

C12N 5/0012 (2013.01 - EP IL KR); **C12N 5/0657** (2013.01 - EP IL KR US); **G01N 33/5061** (2013.01 - US); **C12N 2501/415** (2013.01 - EP IL US); **C12N 2503/02** (2013.01 - KR); **C12N 2506/45** (2013.01 - EP IL US); **C12N 2513/00** (2013.01 - EP IL KR US); **C12N 2533/74** (2013.01 - EP IL US)

Citation (search report)

See references of WO 2022058615A1

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

Designated validation state (EPC)

KH MA MD TN

DOCDB simple family (publication)

WO 2022058615 A1 20220324; AU 2021346235 A1 20230504; CA 3193385 A1 20220324; CN 116802270 A 20230922; EP 4214305 A1 20230726; FR 3114321 A1 20220325; IL 301518 A 20230501; JP 2023542154 A 20231005; KR 20230117099 A 20230807; US 2023358728 A1 20231109

DOCDB simple family (application)

EP 2021075945 W 20210921; AU 2021346235 A 20210921; CA 3193385 A 20210921; CN 202180073354 A 20210921; EP 21786099 A 20210921; FR 2009552 A 20200921; IL 30151823 A 20230320; JP 2023517372 A 20210921; KR 20237013420 A 20210921; US 202118027203 A 20210921