

Title (en)
SYSTEM AND METHOD FOR MONITORING CARDIOMYOCYTE BEATING, VIABILITY AND MORPHOLOGY AND FOR SCREENING FOR PHARMACOLOGICAL AGENTS WHICH MAY INDUCE CARDIOTOXICITY OR MODULATE CARDIOMYOCYTE FUNCTION

Title (de)
SYSTEM UND VERFAHREN ZUR ÜBERWACHUNG DES SCHLAGES, DER LEBENSFÄHIGKEIT UND MORPHOLOGIE VON HERZMUSKELZELLEN SOWIE ZUM SCRENNING VON WIRKSTOFFEN ALS KARDIOTOXIZITÄTSINDUKTOREN ODER MODULATOREN DER HERZMUSKELZELLFUNKTION

Title (fr)
SYSTÈME ET PROCÉDÉ DESTINÉS À SUIVRE LE BATTEMENT, LA VIABILITÉ ET LA MORPHOLOGIE DES CARDIOMYOCYTES ET À CRIBLER DES MOLÉCULES À LA RECHERCHE D'AGENTS PHARMACOLOGIQUES QUI PEUVENT INDUIRE UNE CARDIOTOXICITÉ OU MODULER LA FONCTION DES CARDIOMYOCYTES

Publication
EP 2427543 A1 20120314 (EN)

Application
EP 10772804 A 20100505

Priority

- US 2010033801 W 20100505
- US 17556609 P 20090505
- US 31055710 P 20100304
- US 32378210 P 20100413

Abstract (en)
[origin: WO2010129725A1] Devices and methods for performing extracellular recording of cells, such as excitable cells, cardiomyocytes, and cardiomyocyte precursor cells is provided. An exemplary device includes a nonconductive substrate forming or provided as a base of one or more wells; a recording electrode positioned on the substrate within the well, wherein the recording electrode is accessible to cells when a cell sample is added to the device; and a reference electrode positioned within the well in a cell-free zone, the cell-free zone characterized as free from contact with cells when the cell sample is added to the device, thereby preventing contact between cells and the reference electrode.

IPC 8 full level
C12M 1/34 (2006.01)

CPC (source: EP)
G01N 33/48728 (2013.01)

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 SE SI SK SM TR

DOCDB simple family (publication)
WO 2010129725 A1 20101111; CA 2760941 A1 20101111; CA 2760941 C 20190723; EP 2427543 A1 20120314; EP 2427543 A4 20171129

DOCDB simple family (application)
US 2010033801 W 20100505; CA 2760941 A 20100505; EP 10772804 A 20100505