

Title (en)

METHOD FOR PRODUCING A BILIPID LAYER, AND MICROSTRUCTURE AND MEASURING ASSEMBLY

Title (de)

VERFAHREN ZUM HERSTELLEN EINER BILIPIDSCHICHT SOWIE MIKROSTRUKTUR UND MESSANORDNUNG

Title (fr)

PROCÉDÉ DE PRODUCTION D'UNE COUCHE BILIPIDIQUE AINSI QUE MICROSTRUCTURE ET DISPOSITIF DE MESURE

Publication

EP 2577301 A2 20130410 (DE)

Application

EP 11727916 A 20110601

Priority

- DE 102010022929 A 20100607
- EP 2011002738 W 20110601

Abstract (en)

[origin: WO2011154114A2] The invention relates to a method for producing a bilipid layer above a microcavity that is open on one side, to a microstructure for examining lipid double layers and to a measuring assembly for use in this respect. The method for producing a bilipid layer above a microcavity that is open on one side comprises the following steps: filling the microcavity with an electrolyte solution; moving a fluid containing dissolved lipids in a first direction toward the microcavity; moving the fluid in a second direction away from the microcavity; monitoring the formation of the bilipid layer above the microcavity by detecting an impedance between a counter-electrode connected to the fluid and a measuring electrode which is disposed in the interior of the microcavity. The microstructure has a substrate in which at least one microcavity is formed, wherein at least one measuring electrode is disposed in the interior of the microcavity and wherein the at least one microcavity can be connected to a fluid duct such that a laminar fluid stream can flow over the microcavity in at least two different flow directions.

IPC 8 full level

G01N 33/487 (2006.01)

CPC (source: EP US)

B01L 3/502707 (2013.01 - EP US); **B01L 3/502715** (2013.01 - EP US); **G01N 27/22** (2013.01 - US); **G01N 33/48728** (2013.01 - EP US); **B01L 2200/0673** (2013.01 - EP US); **B01L 2200/12** (2013.01 - EP US); **B01L 2300/0645** (2013.01 - EP US); **B01L 2300/0809** (2013.01 - EP US); **B01L 2300/0819** (2013.01 - EP US); **B01L 2300/0877** (2013.01 - EP US); **B01L 2300/16** (2013.01 - EP US); **B01L 2300/165** (2013.01 - EP US)

Citation (search report)

See references of WO 2011154114A2

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)

DE 102010022929 A1 20111208; **DE 102010022929 B4 20130718**; EP 2577301 A2 20130410; JP 2013534619 A 20130905; US 2013140192 A1 20130606; WO 2011154114 A2 20111215; WO 2011154114 A3 20120308

DOCDB simple family (application)

DE 102010022929 A 20100607; EP 11727916 A 20110601; EP 2011002738 W 20110601; JP 2013513573 A 20110601; US 201113702802 A 20110601