

Title (en)

Microdevice and method for treating liquid specimens

Title (de)

Mikrovorrichtung und Verfahren zur Behandlung von flüssigen Proben

Title (fr)

Micro-dispositif et procédé de traitement d'échantillons liquides

Publication

EP 2097160 B1 20130403 (FR)

Application

EP 07847689 A 20071203

Priority

- EP 2007063178 W 20071203
- FR 0655327 A 20061205

Abstract (en)

[origin: FR2909293A1] The device has electrodes (4, 6) forming a plane and including two edges which are opposite to each other, so that a line of contact (20) of a liquid drop or inclusion (2) has a tangent to form an angle which ranges between zero degree and 90 degrees with the edges in projection in the plane of the electrodes. The line of contact of the drop is arranged on the device and is fixed with respect to the device. Independent claims are also included for the following: (1) a method for forming a flow or vortex in a liquid drop (2) a method for microfluidically concentrating of a liquid drop (3) a method for forming a micro-emulsion (4) a method for pumping a secondary fluid (5) a method extracting an analyte of a liquid drop (6) a method for extracting a particle.

IPC 8 full level

B01F 3/08 (2006.01); **B01D 43/00** (2006.01); **B01F 13/00** (2006.01); **F04B 17/00** (2006.01); **G01N 1/28** (2006.01); **G01N 9/32** (2006.01); **G01N 33/487** (2006.01)

CPC (source: EP US)

B01F 23/41 (2022.01 - EP US); **B01F 33/3021** (2022.01 - EP US); **B01F 33/3031** (2022.01 - EP US); **B01L 3/5088** (2013.01 - EP US); **F04B 19/006** (2013.01 - EP US); **B01L 3/5027** (2013.01 - EP US); **B01L 3/5085** (2013.01 - EP US); **B01L 2200/0647** (2013.01 - EP US); **B01L 2400/0415** (2013.01 - EP US)

Cited by

CN105435664A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

FR 2909293 A1 20080606; FR 2909293 B1 20110422; EP 2097160 A1 20090909; EP 2097160 B1 20130403; JP 2010511506 A 20100415; JP 5166436 B2 20130321; US 2010320088 A1 20101223; US 8444836 B2 20130521; WO 2008068229 A1 20080612

DOCDB simple family (application)

FR 0655327 A 20061205; EP 07847689 A 20071203; EP 2007063178 W 20071203; JP 2009539723 A 20071203; US 51800707 A 20071203