

Title (en)

MICROFLUIDIC DEVICE FOR HANDLING IMMISCIBLE FLUIDS

Title (de)

MIKROFLUIDISCHE VORRICHTUNG ZUR HANDHABUNG UNMISCHBARER FLÜSSIGKEITEN

Title (fr)

DISPOSITIF MICROFLUIDIQUE DE MANIPULATION DES FLUIDES NON MISCIBLE

Publication

EP 3086879 A1 20161102 (FR)

Application

EP 14824016 A 20141224

Priority

- FR 1363551 A 20131224
- EP 2014079337 W 20141224

Abstract (en)

[origin: WO2015097300A1] The process (1200) for handling an element consisting of a first fluid transported by a second fluid that is immiscible with the first fluid in a cavity, at least one wall of which is made of a deformable material, characterized in that it comprises: a step (1205) of introducing the second fluid and the element of the first fluid into the cavity, - a step (1210) of ordering a local deformation of the deformable material of the cavity, at least one other portion of the deformable material of the cavity not being deformed, - a step (1215) of locally deforming a portion of the deformable material forming the cavity in order to at least partially obstruct the passage of the element introduced into the cavity without obstructing the passage of the second fluid and - a step (1220) of moving the element in the cavity to the outside of the deformed portion of the cavity.

IPC 8 full level

B01L 3/00 (2006.01); **B81B 3/00** (2006.01); **F04B 19/24** (2006.01); **F04B 43/04** (2006.01); **F16K 99/00** (2006.01)

CPC (source: EP US)

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Citation (search report)

See references of WO 2015097300A1

Citation (examination)

- DE 102004062893 A1 20060629 - UNIV DRESDEN TECH [DE]
- DE 10157317 A1 20030605 - GESIM GES FUER SILIZIUM MIKROS [DE]

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)

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DOCDB simple family (application)

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