

Title (en)  
MICROFLUIDIC CIRCUIT

Title (de)  
MIKROFLUIDISCHER SCHALTKREIS

Title (fr)  
CIRCUIT MICROFLUIDIQUE

Publication  
**EP 2482983 B1 20200429 (FR)**

Application  
**EP 10778686 A 20100929**

Priority  
• FR 0904639 A 20090929  
• FR 2010052051 W 20100929

Abstract (en)  
[origin: WO2011039475A1] The invention relates to a microfluidic circuit (1) including at least one microchannel (2) for the flow of a first fluid conveying drops (5) or bubbles of at least one second fluid, characterised in that the height (h) of the microchannel (2) is sized so as to crush the drops (5) or bubbles during the movement thereof, and in that the microchannel (2) comprises at least one trough (3), extending at least partially in the direction of flow (F) of the first fluid or an area for trapping drops or bubbles, said area (28) or the trough (3) having a height (hc) that is greater than the height (h) of the microchannel (2), such that at least some of the drops (5) or bubbles of the second fluid in the microchannel are drawn and guided into the trough (3) or into the trapping area.

IPC 8 full level  
**B01L 3/00** (2006.01)

CPC (source: EP KR US)  
**B01L 3/502784** (2013.01 - EP KR US); **B01L 2200/027** (2013.01 - KR); **B01L 2200/0652** (2013.01 - EP KR US);  
**B01L 2300/0864** (2013.01 - EP KR US); **B01L 2300/089** (2013.01 - EP KR US); **B01L 2400/0406** (2013.01 - EP KR US);  
**B01L 2400/086** (2013.01 - EP KR US)

Cited by  
US10792659B2; US11344890B2; US10953404B1

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)  
**FR 2950544 A1 20110401**; **FR 2950544 B1 20111209**; DE 10778686 T1 20191219; EP 2482983 A1 20120808; EP 2482983 B1 20200429;  
EP 3632566 A1 20200408; EP 3632566 B1 20211110; ES 2803402 T3 20210126; ES 2906718 T3 20220420; JP 2013505827 A 20130221;  
JP 5752694 B2 20150722; KR 101720683 B1 20170328; KR 20120082015 A 20120720; US 2012315203 A1 20121213;  
US 9452432 B2 20160927; WO 2011039475 A1 20110407

DOCDB simple family (application)  
**FR 0904639 A 20090929**; DE 10778686 T 20100929; EP 10778686 A 20100929; EP 19201464 A 20100929; ES 10778686 T 20100929;  
ES 19201464 T 20100929; FR 2010052051 W 20100929; JP 2012531479 A 20100929; KR 20127011313 A 20100929;  
US 201013498927 A 20100929