

Title (en)

MICROFLUIDIC DEVICE AND METHOD FOR OPERATING A MICROFLUIDIC DEVICE

Title (de)

MIKROFLUIDISCHE VORRICHTUNG UND VERFAHREN ZUM BETREIBEN EINER MIKROFLUIDISCHEN VORRICHTUNG

Title (fr)

DISPOSITIF MICROFLUIDIQUE ET PROCÉDÉ DE FONCTIONNEMENT D'UN DISPOSITIF MICROFLUIDIQUE

Publication

**EP 3393661 A1 20181031 (DE)**

Application

**EP 16808605 A 20161206**

Priority

- DE 102015226417 A 20151222
- EP 2016079866 W 20161206

Abstract (en)

[origin: WO2017108387A1] The invention relates to a microfluidic device (100). The device (100) comprises a chamber substrate (105) with a fluid chamber (110) for receiving a fluid, a cover substrate (115) with a punch opening (125), said punch opening (125) lying opposite a fluid chamber opening (130) of the fluid chamber (110), a flexible membrane (135) which is arranged between the chamber substrate (105) and the cover substrate (115) and which spans the punch opening (125) and the fluid chamber opening (130), and a punch unit (120) which is designed to be brought into the fluid chamber (110) through the punch opening (125) in order to deflect the membrane (135) into the fluid chamber (110) in order to allow the fluid to flow out of the fluid chamber (110) when the fluid is received in the fluid chamber (110).

IPC 8 full level

**B01L 3/00** (2006.01)

CPC (source: EP KR US)

**B01L 3/502723** (2013.01 - US); **B01L 3/50273** (2013.01 - EP KR US); **B01L 2200/0684** (2013.01 - EP KR US); **B01L 2200/12** (2013.01 - US); **B01L 2200/16** (2013.01 - EP KR US); **B01L 2300/044** (2013.01 - US); **B01L 2300/0672** (2013.01 - EP KR US); **B01L 2300/0816** (2013.01 - EP KR); **B01L 2300/0887** (2013.01 - EP KR); **B01L 2300/123** (2013.01 - EP KR US); **B01L 2400/0481** (2013.01 - EP); **B01L 2400/0655** (2013.01 - EP KR); **B01L 2400/0683** (2013.01 - EP KR)

Citation (search report)

See references of WO 2017108387A1

Cited by

EP4129481A1; WO2023012024A1

Designated contracting state (EPC)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

**DE 102015226417 A1 20170622**; CN 108472648 A 20180831; CN 108472648 B 20201222; EP 3393661 A1 20181031; EP 3393661 B1 20191106; ES 2766528 T3 20200612; KR 20180093254 A 20180821; US 11065621 B2 20210720; US 2021162403 A1 20210603; WO 2017108387 A1 20170629

DOCDB simple family (application)

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