

Title (en)

DEVICE AND METHOD FOR STORING AND EMPTYING CONTAINERS FILLED WITH FLUID IN MICROFLUIDIC DEVICES

Title (de)

VORRICHTUNG UND VERFAHREN ZUR LAGERUNG UND ENTLEERUNG VON MIT FLUID GEFÜLLTEN BEHÄLTERN IN MIKROFLUIDISCHEN VORRICHTUNGEN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE STOCKAGE ET DE VIDAGE DE CONTENANTS REMPLIS DE FLUIDE DANS DES DISPOSITIFS MICROFLUIDIQUES

Publication

EP 3356041 A1 20180808 (DE)

Application

EP 16760753 A 20160907

Priority

- DE 102015218665 A 20150929
- EP 2016071049 W 20160907

Abstract (en)

[origin: WO2017055039A1] The invention relates to a device (100), in particular a microfluidic device (100), for receiving and fluidically contacting a container (10) for a fluid. The device (100) comprises a receiving unit (200) for receiving the container (10), and the receiving unit (200) has at least one first hollow needle (211) and at least one fixing element (220) for fixing the received container (10) at a specified distance (250) from the first hollow needle (211). The first hollow needle (211) extends in the direction of the received container (10), and the fixing element (220) is designed such that the container (10) is released by the fixing element (220) when a force which exceeds a specified threshold is exerted onto the container (10) in the direction of the first hollow needle (211) or onto the receiving unit (200) in the direction of the container (10), thereby allowing a specified movement of the receiving unit (200) and the container (10) relative to each other such that the first hollow needle (211) penetrates a shell (11) of the container (10) in order to fluidically contact the container (10).

IPC 8 full level

B01L 3/00 (2006.01)

CPC (source: EP US)

B01L 3/502715 (2013.01 - EP US); **B01L 3/523** (2013.01 - EP US); **B01L 2200/025** (2013.01 - EP US); **B01L 2200/027** (2013.01 - EP US); **B01L 2200/16** (2013.01 - EP US); **B01L 2300/0672** (2013.01 - EP US); **B01L 2300/123** (2013.01 - EP US); **B01L 2400/0683** (2013.01 - EP US)

Citation (search report)

See references of WO 2017055039A1

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 102015218665 A1 20170330; EP 3356041 A1 20180808; EP 3356041 B1 20191218; ES 2770876 T3 20200703; US 11007522 B2 20210518; US 2018272344 A1 20180927; WO 2017055039 A1 20170406

DOCDB simple family (application)

DE 102015218665 A 20150929; EP 16760753 A 20160907; EP 2016071049 W 20160907; ES 16760753 T 20160907; US 201615764027 A 20160907