

Title (en)

DEVICE FOR RECEIVING, DISPENSING, AND MOVING LIQUIDS

Title (de)

VORRICHTUNG ZUR AUFNAHME, ABGABE UND BEWEGUNG VON FLÜSSIGKEITEN

Title (fr)

DISPOSITIF DE PRÉLÈVEMENT, D'EXPULSION ET DE DÉPLACEMENT DE LIQUIDES

Publication

**EP 3541516 B1 20230823 (DE)**

Application

**EP 17808819 A 20171116**

Priority

- DE 102016122056 A 20161116
- EP 2017079510 W 20171116

Abstract (en)

[origin: WO2018091608A1] The invention relates to a fluid system comprising a chamber which is closed by movable elements and which is connected to at least one channel. The entire system has at least one structured component, at least one component which is attached to the structured component, and a component for storing liquids. The invention additionally relates to a closure option for at least one fluidic interface. The closure option can be designed as a cap or a valve. The invention has at least two fluidic interfaces. The chamber is used such that the movable element can be moved into the chamber as well as out of the chamber by a movement of the movable element. Liquids or gases can be moved via one or more channels connected to the chamber by means of the movement and dispensed or received out of the structured component via a connection of the channel. A liquid reagent reservoir is connected to the pump chamber via the sample supply channel. Thus, the system can be used to receive, pump, dilute, mix, and dispense liquids or gases. The system can be operated both manually as well as by means of simple devices or tools. By using integrated liquid reservoirs, diluting processes as well as the supply of reaction components or washing liquids can be carried out.

IPC 8 full level

**B01L 3/00** (2006.01)

CPC (source: EP KR US)

**B01L 3/502715** (2013.01 - US); **B01L 3/502723** (2013.01 - KR US); **B01L 3/50273** (2013.01 - EP KR); **B01L 3/502738** (2013.01 - KR US); **B01L 3/52** (2013.01 - KR); **B01L 3/502723** (2013.01 - EP); **B01L 3/502738** (2013.01 - EP); **B01L 3/52** (2013.01 - EP); **B01L 2200/0684** (2013.01 - EP KR US); **B01L 2200/16** (2013.01 - US); **B01L 2300/042** (2013.01 - US); **B01L 2300/0654** (2013.01 - US); **B01L 2300/123** (2013.01 - US); **B01L 2400/0481** (2013.01 - EP KR); **B01L 2400/06** (2013.01 - US); **B01L 2400/0638** (2013.01 - US); **B01L 2400/0644** (2013.01 - US); **B01L 2400/0688** (2013.01 - EP KR)

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

DOCDB simple family (publication)

**DE 102016122056 A1 20180517**; **DE 102016122056 B4 20210218**; CN 110177620 A 20190827; EP 3541516 A1 20190925; EP 3541516 B1 20230823; EP 3541516 C0 20230823; ES 2959736 T3 20240228; KR 102450612 B1 20221006; KR 20190085043 A 20190717; KR 20210135648 A 20211115; US 11446657 B2 20220920; US 2020038862 A1 20200206; WO 2018091608 A1 20180524

DOCDB simple family (application)

**DE 102016122056 A 20161116**; CN 201780083517 A 20171116; EP 17808819 A 20171116; EP 2017079510 W 20171116; ES 17808819 T 20171116; KR 20197017097 A 20171116; KR 20217036220 A 20171116; US 201716461453 A 20171116