Title (en)

METHOD AND DEVICE FOR THE AUTOMATED PROCESSING OF A SAMPLE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR AUTOMATISIERTEN PROZESSIERUNG EINER PROBE

Title (fr)

PROCÉDÉ ET DISPOSITIF POUR LE TRAITEMENT AUTOMATISÉ D UN ÉCHANTILLON

Publication

EP 2237885 A1 20101013 (DE)

Application

EP 09707162 A 20090113

Priority

- EP 2009050285 W 20090113
- EP 08151152 A 20080207
- EP 09707162 A 20090113

Abstract (en)

[origin: EP2087934A1] The method comprises guiding a lysis buffer into a container (1) and/or chamber through an inlet or outlet (3) and/or a filter element (10), where the lysis buffer is used for decomposing a biological sample present in the container and/or chamber, and pumping the lysis buffer into the container and/or chamber through the filter element over a microfluidic system (2) and/or sucking off the lysis buffer from the container and/or chamber over the microfluidic system. Ethanol, wash buffer and elution liquid are pumped with the sample to be decomposed into the container and/or chamber. The method comprises guiding a lysis buffer into a container (1) and/or chamber through an inlet or outlet (3) and/or a filter element (10), where the lysis buffer is used for decomposing a biological sample present in the container and/or chamber, and pumping the lysis buffer into the container and/or chamber through the filter element over a microfluidic system (2) and/or sucking off the lysis buffer from the container and/or chamber over the microfluidic system. Ethanol, wash buffer and elution liquid are pumped with the sample to be decomposed into the container and/or chamber through the filter element and then subsequently sucked off from the container and/or chamber over the filter element. The ethanol is removed by heating the container and/or chamber and/or by sucking off from the container. The diameter of a channel (4) of the microfluidic system is less than 1 mm. The filling volume of the container is 1 ml. The container is connected with the microfluidic system over a hollow needle. The liquid level of the buffer present in the container and/or chamber is raised and lowered several times. Independent claims are included for: (1) a device for processing a biological sample in a container; and (2) a microfluidic system for a device.

IPC 8 full level

B01L 3/00 (2006.01); **C12M 1/12** (2006.01); **C12M 1/33** (2006.01); **C12N 15/10** (2006.01)

CPC (source: EP US)

B01L 3/502715 (2013.01 - EP US); **C12M 47/06** (2013.01 - EP US); B01J 2219/00335 (2013.01 - EP US); B01J 2219/00373 (2013.01 - EP US); B01J 2219/00423 (2013.01 - EP US); B01J 2219/00605 (2013.01 - EP US); B01J 2219/00641 (2013.01 - EP US); B01J 2219/00722 (2013.01 - EP US); B01L 7/52 (2013.01 - EP US); B01L 2200/025 (2013.01 - EP US); B01L 2200/027 (2013.01 - EP US); B01L 2200/10 (2013.01 - EP US); B01L 2300/0672 (2013.01 - EP US); B01L 2300/0681 (2013.01 - EP US); B01L 2300/0816 (2013.01 - EP US); B01L 2300/1827 (2013.01 - EP US)

Citation (search report)

See references of WO 2009098104A1

Citation (examination)

US 2003134416 A1 20030717 - YAMANISHI DOUGLAS [US], et al

Designated contracting state (EPC)

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 TR

Designated extension state (EPC)

AL BA RS

DOCDB simple family (publication)

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DOCDB simple family (application)

EP 08151152 A 20080207; EP 09707162 A 20090113; EP 2009050285 W 20090113; US 86464109 A 20090113