

Title (en)

LIQUID SCREENING ASSEMBLY WITH MECHANICAL RELEASE OF VERY SMALL LIQUID QUANTITIES

Title (de)

FLÜSSIGKEIT-SCREENINGBAUGRUPPE MIT MECHANISCHER AUSLÖSUNG KLEINSTER FLÜSSIGKEITSMENGEN

Title (fr)

ENSEMBLE DE TAMISAGE DE LIQUIDE AVEC DÉCLENCHEMENT MÉCANIQUE DE TRÈS PETITES QUANTITÉS DE LIQUIDE

Publication

**EP 3972736 A1 20220330 (DE)**

Application

**EP 20727966 A 20200519**

Priority

- DE 102019113679 A 20190522
- EP 2020064013 W 20200519

Abstract (en)

[origin: WO2020234325A1] The invention relates to a liquid screening assembly (100) comprising: - a pipetting device (60) with at least one pipetting channel (58) which extends along a channel path (K) and is filled with a working fluid (71) and which has a coupling formation (70) at the free longitudinal end thereof for coupling a pipetting tip (42), - a liquid metering device (10) for ballistically dispensing a discrete metered quantity (53) of metered liquid in a metered volume range of 0.3 nl to 500 nl, and - at least one controller (156, 28, 80) for controlling the liquid screening assembly (100) and/or individual components thereof. The invention is characterized in that the the liquid screening assembly (100) has at least one transport device (130, 132, 134, 136) which is designed to move an object (112, 116, 15, 118, 126) towards the channel path (K) along a transport path (T1, T2, T3, T4) and move the object away therefrom and in that the liquid metering device (10) has: - a trigger tappet which can be moved relative to a pipetting tip receiving device (14), - a movement drive which is coupled to the trigger tappet so as to transmit a movement, and - a first and a second deformation structure, between which a pipetting tip deformation region is defined, said trigger tappet being located in the deformation region of the receiving chamber in a triggered position. (Fig. 5)

IPC 8 full level

**B01L 3/02** (2006.01); **G01N 35/02** (2006.01); **G01N 35/04** (2006.01); **G01N 35/10** (2006.01)

CPC (source: EP)

**B01L 3/0268** (2013.01); **G01N 35/028** (2013.01); **G01N 35/1016** (2013.01); **G01N 35/1065** (2013.01); **G01N 35/1083** (2013.01); **B01L 2200/146** (2013.01); **B01L 2300/123** (2013.01); **B01L 2400/0481** (2013.01); **G01N 2035/0424** (2013.01); **G01N 2035/1023** (2013.01); **G01N 2035/103** (2013.01); **G01N 2035/1041** (2013.01)

Citation (search report)

See references of WO 2020234325A1

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 102019113679 A1 20201126**; EP 3972736 A1 20220330; WO 2020234325 A1 20201126

DOCDB simple family (application)

**DE 102019113679 A 20190522**; EP 2020064013 W 20200519; EP 20727966 A 20200519