

Title (en)

METERING DEVICE SUITED FOR METERING VERY SMALL METERING VOLUMES AND METERING METHOD

Title (de)

FÜR DIE DOSIERUNG VON SEHR KLEINEN DOSIERVOLUMINA GEEIGNETE DOSIEREINRICHTUNG UND DOSIERVERFAHREN

Title (fr)

DISPOSITIF ET PROCÉDÉ DE DOSAGE APPROPRIÉS POUR LE DOSAGE DE TRÈS PETITS VOLUMES DE DOSAGE

Publication

**EP 2365883 A1 20110921 (DE)**

Application

**EP 08875049 A 20081128**

Priority

EP 2008010126 W 20081128

Abstract (en)

[origin: WO2010060448A1] A metering device for the aspiration and dispensing of a metered medium (26) by means of a working substance through a metering opening (22a) into a metering chamber (24), and out of the same, comprises a working chamber (12) filled at least partially with a compressible working substance, a pressure change apparatus (14, 16) which is designed to change the pressure of the working substance in the working chamber, and a metering chamber (24) comprising the metering opening (22a), wherein the working chamber (12) and the metering chamber (24) are connected by a valve (28) which can be switched between a blocking position, in which pressure transmission, in particular a working substance flow, from the working chamber (12) into the metering chamber (24) by way of the valve (28) is prevented, and a passage position, in which pressure transmission from the working chamber (12) into the metering chamber (24) by way of the valve (28) is permitted.

IPC 8 full level

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

CPC (source: EP US)

**B01L 3/0268** (2013.01 - EP US); **G01F 11/021** (2013.01 - EP US); **G01F 11/022** (2013.01 - EP US); **G01F 11/029** (2013.01 - EP US); **B01L 3/021** (2013.01 - EP US); **B01L 2200/146** (2013.01 - EP US); **B01L 2300/14** (2013.01 - EP US); **B01L 2400/0633** (2013.01 - EP US)

Citation (search report)

See references of WO 2010060448A1

Citation (examination)

- US 2006051252 A1 20060309 - YUAN BOB [US], et al
- US 5976470 A 19991102 - MAIEFSKI ROMAINE [US], et al
- JP H09145720 A 19970606 - NOERU KK, et al
- EP 0438136 A2 19910724 - MOCHIDA PHARM CO LTD [JP]

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 MT NL NO PL PT RO SE SI SK TR

DOCDB simple family (publication)

**WO 2010060448 A1 20100603**; CN 102264475 A 20111130; EP 2365883 A1 20110921; JP 2012510065 A 20120426; US 2011318242 A1 20111229

DOCDB simple family (application)

**EP 2008010126 W 20081128**; CN 200880132127 A 20081128; EP 08875049 A 20081128; JP 2011537850 A 20081128; US 200813131897 A 20081128