

Title (en)

Pipette device with throttle position in the pipette channel

Title (de)

Pipettiervorrichtung mit Drosselstelle im Pipettierkanal

Title (fr)

Dispositif de pipetage doté d'un poste d'étranglement dans le canal de pipetage

Publication

EP 2412439 B1 20200304 (DE)

Application

EP 11172869 A 20110706

Priority

DE 102010038414 A 20100726

Abstract (en)

[origin: EP2412439A1] The device (10) has a pipette duct (12) whose throttle point (42) is arranged fluid-mechanically between a metering liquid receptacle (38) and a pressure change device (40). The point is being dimensioned in such a way that ratio of flow resistance (R1) of a pipette opening (36) for dispensed metering liquid to flow resistance (R2) of the throttle point for working fluid is less than 0.5. Flow resistances of respective tapering of cross-section of flow are being calculated under consideration of product of viscosity of the working fluid and the metering liquid.

IPC 8 full level

B01L 3/02 (2006.01)

CPC (source: EP US)

B01L 3/021 (2013.01 - EP US); **B01L 2200/14** (2013.01 - EP US); **B01L 2200/148** (2013.01 - EP US); **B01L 2300/14** (2013.01 - EP US); **B01L 2400/0487** (2013.01 - EP US); **B01L 2400/06** (2013.01 - EP US)

Cited by

EP3838411A1; EP3485974A1; WO2019096993A1; EP3485974B1

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)

EP 2412439 A1 20120201; **EP 2412439 B1 20200304**; DE 102010038414 A1 20120126; EP 3663001 A1 20200610; EP 3663001 B1 20221019; JP 2012068231 A 20120405; JP 2017070950 A 20170413; JP 6463386 B2 20190130; US 2012017704 A1 20120126; US 8656792 B2 20140225

DOCDB simple family (application)

EP 11172869 A 20110706; DE 102010038414 A 20100726; EP 20152812 A 20110706; JP 2011161908 A 20110725; JP 2017001365 A 20170106; US 201113190686 A 20110726