

Title (en)

MICRODOSING DEVICE FOR THE DEFINED DELIVERY OF SMALL SELF-CONTAINED LIQUID VOLUMES

Title (de)

MIKRODOSIERVORRICHTUNG ZUR DEFINIERTEN ABGABE KLEINER IN SICH GESCHLOSSENER FLÜSSIGKEITSVOLUMINA

Title (fr)

DISPOSITIF DE MICRODOSAGE POUR DISTRIBUTION DEFINIE DE VOLUMES REDUITS DE LIQUIDE, FERMES EN SOI

Publication

**EP 1259325 A1 20021127 (DE)**

Application

**EP 01919276 A 20010213**

Priority

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- EP 0101572 W 20010213

Abstract (en)

[origin: WO0162387A1] The invention relates to a microdosing device for the defined delivery of small self-contained liquid volumes. The aim of the invention is to provide a cost-effective microdosing device (m) which enables a defined delivery of small self-contained liquid volumes with liquid volumes that can be freely selected from part by volume to part by volume in a relatively large range without, as a result, influencing the dwell time of the dispenser that moves in relation to the settling area. To this end, the invention provides that a supporting body (1) comprises at least one first channel (2) which is connected to a pressurization means (d) that permits the channel (2) to be pressurized with a variably predeterminable pneumatic pressure pulse. Said channel (2) is connected to at least one pressure compensating bypass (3), whereby the minimum opening cross-section of the bypass (3) is no greater than twice the opening cross-section of the channel (2), and the channel (2) is provided, on the end (21) opposite the pressurization side, with at least one second channel (5) which accommodates the liquid to be dispensed and whose smallest opening cross-section is smaller than that of the bypass (3).

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**B01L 3/02**

IPC 8 full level

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**B01L 3/0268** (2013.01 - EP US); **G01N 2035/1039** (2013.01 - EP US)

Citation (search report)

See references of WO 0162387A1

Citation (examination)

- US 2001051334 A1 20011213 - BARTH PHILLIP W [US], et al
- US 3203251 A 19650831 - ALEXANDER ROBINSON ROBERT

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