

Title (en)

MICRODOSING DEVICE AND METHOD FOR THE DOSED DELIVERY OF LIQUIDS

Title (de)

MIKRODOSIERVORRICHTUNG UND VERFAHREN ZUR DOSIERTEN ABGABE VON FLÜSSIGKEITEN

Title (fr)

DISPOSITIF DE MICRODOSAGE ET PROCEDE DE DELIVRANCE DOSEE DE LIQUIDES

Publication

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Application

EP 04764062 A 20040812

Priority

- EP 2004009063 W 20040812
- DE 10337484 A 20030814

Abstract (en)

[origin: WO2005016534A1] The invention relates to a microdosing device comprising a fluid conduit (100) with a flexible tube, said conduit having a first end (102) for connecting to a liquid reservoir and a second end (104), which is provided with an outlet. The inventive device is equipped with an actuating unit comprising a displacement element (108), whose travel is adjustable. Said element enables the volume of a section of the flexible tube to be adjusted in order to deliver liquid (130) in the form of separate drops or a separate jet to the outlet by the displacement of the displacement element (108) between a first end position and a second end position, the tube being partially compressed in the first or second end position. In other words, the invention discloses a microdosing device comprising a fluid conduit (100) with a section, along which a cross-section of said fluid conduit can be adjusted by an actuating device, to produce a modification in the volume of the fluid conduit. A ratio of fluidic impedance between the position of the actuating device and the outlet to a fluidic impedance between a first end of the fluid conduit and the position of the actuating device can be varied by modifying the position of the actuating device, in such a way that a dosed volume that is delivered to the outlet can be varied in this manner by at least 10 %.

IPC 8 full level

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Cited by

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