

Title (en)
LIQUID-METERING DEVICE FOR BALLISTICALLY DISCHARGING METERED AMOUNTS IN THE NANOLITER RANGE, LIQUID-METERING METHOD AND PIPETTING TIP THEREFOR

Title (de)
FLÜSSIGKEITSDOSIERVORRICHTUNG ZUR BALLISTISCHEN ABGABE VON DOSIERMENGEN IM NANOLITERBEREICH, FLÜSSIGKEITSDOSIERVERFAHREN UND PIPETTIERSPITZE HIERFÜR

Title (fr)
DISPOSITIF DE DOSAGE DE LIQUIDES POUR L'ÉMISSION BALLISTIQUE DE QUANTITÉS DE DOSAGE DANS LA PLAGE DE NANOLITRES, PROCÉDÉ DE DOSAGE DE LIQUIDES ET POINTE DE PIPETTE POUR CELUI-CI

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Application
EP 19813503 A 20191202

Priority
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Abstract (en)
[origin: WO2020114954A2] The invention relates to a liquid-metering device (10) for ballistically discharging a discrete metered amount of metered liquid in a metering volume range of 0.3 nl to 900 nl from a metered-liquid reservoir, said device comprising: - a pipetting-tip receiving device (14), which defines, at least in a metering-ready operating position of the liquid-metering device (10), a receiving space (40) that runs along a virtual receiving axis (A) and is designed to receive a portion of a pipetting tip (42); - a triggering plunger (26), which is movable relative to the pipetting-tip receiving device (14) and can be moved between a standby position in which it is further retracted from the receiving space (40) and a triggering position in which it protrudes further into the receiving space (40); - a movement drive (30), which is coupled to the triggering plunger (26) so as to transmit motion; and - a control device (28) for controlling the operation of the movement drive (30). According to the invention, the liquid-metering device (10) has a first deformation formation (46) and a second deformation formation (48), the first deformation formation (46) and the second deformation formation (48) defining therebetween an axial longitudinal region of the receiving space (40) as a deformation region (44), in which region the first deformation formation (46) and the second deformation formation (48) can be brought closer to one another and moved away from one another, the triggering plunger (26) being located in the deformation region (44) of the receiving space (40) when the triggering plunger is in the triggering position.

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Citation (search report)
See references of WO 2020114954A2

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