

Title (en)

DEVICE FOR REMOVING AND DEPOSITING DROPLETS OF AT LEAST ONE LIQUID, METHOD OF USING THE DEVICE AND SERVO SYSTEM FOR SAID METHOD

Title (de)

VORRICHTUNG ZUM ENTFERNEN UND ABSCHIEDEN VON TROPFEN MINDESTENS EINER FLÜSSIGKEIT, VERFAHREN ZUR VERWENDUNG DER VORRICHTUNG UND SERVOSYSTEM FÜR DAS VERFAHREN

Title (fr)

DISPOSITIF DE PRELEVEMENT ET DE DEPOT DE GOUTTELETTES D'AU MOINS UN LIQUIDE, PROCEDE DE MISE EN OEUVRE DE CE DISPOSITIF, AINSI QUE SYSTEME D'ASSERVISSEMENT POUR CE PROCEDE

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Application

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Abstract (en)

[origin: WO2005007292A1] The invention relates to a device for removing and depositing droplets of at least one liquid, a method of using the device and a servo system for said method. The inventive method can be used to remove and deposit droplets of liquid while preventing any contact with the ambient air before the liquid is deposited, using a device which can be closed and which can be supplied to the user in the form of a prefilled cartridge. In the preferred embodiment of the invention, the device for removing and depositing droplets (100) of at least one liquid (32) comprises: an outer tube (101) with an opening (107) at one of the ends thereof, a flange (109) defining the opening (107); a rod (111, 211, 221) which can slide inside the outer tube (101); an inner volume (117) between the rod (111, 211, 221) and the outer tube (101); a capillary-dimensioned open hole (119) in the wall of the outer tube (101); and a closure element (113, 213) which seals the above-mentioned opening (107) and which is connected to the rod (111, 211, 221). According to the invention, when the rod (111, 211, 221) is in the forward end position, the closure element (113, 213) rests on the flange (109) and, in this way, hermetically seals the opening (107), and, when the rod is not in the aforementioned end position, a capillary-dimensioned passage (115) communicates the inner volume (117) with the exterior.

IPC 8 full level

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