

Title (en)
DEVICE FOR PROVIDING PIPETTE TIPS

Title (de)
VORRICHTUNG ZUM BEREITSTELLEN VON PIPETTENSPIZTEN

Title (fr)
DISPOSITIF DE MISE EN PLACE D'EMBOUITS DE PIPETTE

Publication
EP 3320975 A1 20180516 (DE)

Application
EP 16198650 A 20161114

Priority
EP 16198650 A 20161114

Abstract (en)

[origin: WO2018086850A1] The invention relates to a device for supplying pipette tips, comprising: - a refill pack that has - a perforated plate with a plurality of perforations, - pipette tips which are inserted into said perforations, - a shell that covers said pipette tips underneath the perforated plate, - an inner cover which is made of an elastic material and covers the pipette tips above the perforated plate and has a first cover base and first cover lateral walls which project downward from the edges of said first cover base, and - at least one first detent element on the outer side of a first cover lateral wall; as well as - a retainer that has - a lower part with a receiving portion for the shell, into which the refill pack with said shell can be inserted through an upper insertion opening into an insertion position, - an outer cover that has a second cover base and second cover lateral walls which project downwards from the edges of said second cover base, - a first articulated connection between the outer cover and the retainer, designed to pivot the outer cover into an open position which clears the insertion opening, allowing insertion of the refill pack, and into a closed position which covers the insertion opening, receiving the inner cover of a refill pack in the insertion position, - at least one support element that projects from the inner side of at least one second cover lateral wall and, when in the closed position, that engages, from below, with the lower edge of at least one first cover lateral wall of a refill pack in the insertion position - at least one second detent element, on the inner side of a second cover lateral wall lying opposite the second cover lateral wall with the support element, which, in the closed position, is locked to the first detent element of a refill pack in the insertion position, - an unlocking button that passes through a passage that extends from the outer side to the inner side of the second cover lateral wall with the second detent element, said unlocking button comprising an externally actuatable actuation element on the outer side of the second cover lateral wall, and comprising a pressing element on the inner side of the second cover lateral wall which can be pressed by actuating said actuation element against the outer side of the first cover lateral wall, which comprises said first detent element, of an inner cover that is locked to the outer cover, in order to elastically deform this first cover lateral wall and to release the lock between the first and second detent elements.

Abstract (de)

Vorrichtung zum Bereitstellen von Pipettenspitzen mit #c einer Nachfüllpackung umfassend ## eine Lochplatte mit einer Vielzahl Löcher, ## in die Löcher eingesetzte Pipettenspitzen, ## eine die Pipettenspitzen unterhalb der Lochplatte abdeckende Schale, ## einen die Pipettenspitzen oberhalb der Lochplatte abdeckenden Innendeckel aus einem elastischen Material, der einen ersten Deckelboden und von den Rändern des ersten Deckelbodens nach unten vorstehende erste Deckelseitenwände aufweist und ## mindestens ein erstes Rastelement an der Außenseite einer ersten Deckelseitenwand und #c einem Halter umfassend ## ein Unterteil mit einer Aufnahme für die Schale, in die durch eine obere Einsetzöffnung die Nachfüllpackung mit der Schale in eine Einsetzposition einsetzbar ist, ## einen Außendeckel, der einen zweiten Deckelboden und von den Rändern des zweiten Deckelbodens nach unten vorstehende, zweite Deckelseitenwände aufweist, ## eine erste Gelenkverbindung zwischen Außendeckel und Halter, die ausgebildet ist, den Außendeckel in eine die Einsetzöffnung freigebende Öffnungsposition zum Einsetzen der Nachfüllpackung und in eine die Einsetzöffnung überdeckende und den Innendeckel einer Nachfüllpackung in Einsetzposition aufnehmende Schließposition zu schwenken,

IPC 8 full level
B01L 9/00 (2006.01); **B01L 3/02** (2006.01); **B65D 25/10** (2006.01)

CPC (source: EP US)
B01L 3/0275 (2013.01 - EP US); **B01L 9/543** (2013.01 - EP US); **B65D 25/108** (2013.01 - EP US); **B01L 2200/02** (2013.01 - EP US); **B01L 2200/04** (2013.01 - EP US); **B01L 2200/141** (2013.01 - EP US); **B01L 2300/043** (2013.01 - EP US); **B01L 2300/0858** (2013.01 - EP US)

Citation (applicant)

- WO 9201514 A1 19920206 - SCHIEDEL GERT [DE]
- US 5366088 A 19941122 - HILL BOB [US], et al
- WO 0051899 A1 20000908 - RAININ INSTR CO INC [US]
- EP 2535109 A2 20121219 - EPPENDORF AG [DE]

Citation (search report)

- [AD] EP 2535109 A2 20121219 - EPPENDORF AG [DE]
- [A] EP 2789389 A1 20141015 - EPPENDORF AG [DE]
- [A] US 2012328489 A1 20121227 - BEESE JOCHEN [DE], et al

Cited by

EP4019137A1; EP4087792A4; CN112249482A; US11878304B2

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

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

EP 3320975 A1 20180516; **EP 3320975 B1 20190717**; CN 109952155 A 20190628; CN 109952155 B 20210914; JP 2019536619 A 20191219; JP 6857727 B2 20210414; US 10654042 B2 20200519; US 2019275528 A1 20190912; WO 2018086850 A1 20180517

DOCDB simple family (application)

EP 16198650 A 20161114; CN 201780070565 A 20171023; EP 2017076998 W 20171023; JP 2019524975 A 20171023; US 201716348920 A 20171023