

Title (en)

A DEVICE FOR DISPENSING A FLUID SUBSTANCE

Title (de)

VORRICHTUNG ZUR ABGABE EINER FLÜSSIGEN SUBSTANZ

Title (fr)

DISPOSITIF DE DISTRIBUTION D'UNE SUBSTANCE FLUIDE

Publication

EP 4417322 A1 20240821 (EN)

Application

EP 24157122 A 20240212

Priority

IT 202300002598 A 20230215

Abstract (en)

A fluid substance dispensing device comprising a manually operated pump (1) equipped with a cup-shaped body (2), inside which a communicating compression chamber (3) is formed at least during a filling step achieved by means of a first filling valve element (4) and a stem (5A) which is coupled with a dispensing button (6) so that the movement of the stem (5A) towards the cup-shaped body (2) reduces the volume of the compression chamber by pushing any substance present in the compression chamber through a cavity (5B) in the said stem (5A) - and a ring nut (7) for fastening at least the cup-shaped body (2) to a container (20) to which the pump (1) can be coupled and which can contain said substance (S), the dispensing button (6) being configured to rotate at least between a first unlocked position in which it is allowed a free stroke, and a second locked position in which at least one part thereof (9, 6A) encounters a stop (10, 12A) on the pump (1) and travel of the dispensing button (6) towards the cup-shaped body is prevented; between the dispensing button (6) and the ring nut (7) or between the dispensing button (6) and the cup-shaped body (2), there is a safety system (13) formed of at least a base (11) and a mobile ring (12) which translates telescopically with respect to the base (11) so that, when the dispensing button (6) is rotated to the locked position, the mobile ring (12) is extended with respect to the base (11) and at least a first part of the base (11A) encounters a portion (12A) of the mobile ring (12) so as to prevent the mobile ring (12) lowering towards the base (11), a second part of the mobile ring (12) encountering a flange (6A) or a step on the dispensing button (6) and thereby preventing the dispensing button (6) from lowering, and when the dispensing button (6) is rotated to the unlocked position the mobile ring (12) is lowered telescopically with respect to the base (11), leaving the dispensing button (6) free to travel.

IPC 8 full level

B05B 11/00 (2023.01)

CPC (source: EP)

B05B 11/0089 (2013.01); **B05B 11/106** (2023.01); **B05B 11/1047** (2023.01)

Citation (applicant)

JP 2013095462 A 20130520 - YOSHINO KOGYOSHO CO LTD

Citation (search report)

- [A] US 4871092 A 19891003 - MAERTE LEO [DE]
- [A] WO 2017050834 A1 20170330 - RPC BRAMLAGE GMBH [DE]
- [A] WO 2009030428 A1 20090312 - SANTO WILFRIED [DE]

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 ME MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

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Designated validation state (EPC)

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