

Title (en)

AIRLESS DEVICE FOR WITHDRAWING AND DISPENSING A VISCOUS PRODUCT

Title (de)

LUFTLOSE VORRICHTUNG ZUR ENTNAHME UND ABGABE EINES VISKOSEN PRODUKTS

Title (fr)

DISPOSITIF DE PRÉLÈVEMENT ET DE DISTRIBUTION D'UN PRODUIT VISQUEUX, SANS REPRISE D'AIR

Publication

EP 3022129 A1 20160525 (FR)

Application

EP 14744792 A 20140714

Priority

- FR 1357085 A 20130718
- EP 2014065007 W 20140714

Abstract (en)

[origin: WO2015007671A1] The invention relates to a device (1) for withdrawing and dispensing a viscous product (3) without taking in air, said device on the one hand comprising a pumping member (3) positioned, by its base (8), at the open end (4) of a rigid container (5) associated with a retractable flexible inner pouch (6), intended to receive the product (2), and on the other hand a plunger tube (7) connected by its upper end (7a) to a corresponding part (3a) of the pumping member, such that the upper end (7a) is partially submerged in the product (2) and the free lower end (7b) is completely submerged in the product (2), characterized in that the plunger tube (7) is made up of: - a first upper part (7A), with a closed circumference, defining a reference section (S1) of the tube (7), - a second lower part (7B) submerging the first (7A), with a circumference open by at least one longitudinal slot (9), made along a generatrix and defining a C- or U-shaped section on that part of the tube (7).

IPC 8 full level

B05B 11/00 (2006.01); **B05B 15/00** (2006.01); **B05B 15/30** (2018.01)

CPC (source: EP US)

B05B 11/026 (2023.01 - EP US); **B05B 15/30** (2018.01 - EP US); **B05B 11/10** (2023.01 - EP US)

Citation (search report)

See references of WO 2015007671A1

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)

WO 2015007671 A1 20150122; EP 3022129 A1 20160525; EP 3022129 B1 20180418; ES 2674422 T3 20180629; FR 3008629 A1 20150123; FR 3008629 B1 20180309; US 2016144388 A1 20160526

DOCDB simple family (application)

EP 2014065007 W 20140714; EP 14744792 A 20140714; ES 14744792 T 20140714; FR 1357085 A 20130718; US 201414900247 A 20140714