

Title (en)

REFILLABLE FLUID PRODUCT DISPENSER.

Title (de)

NACHFÜLLBARER FLÜSSIGPRODUKTSPENDER

Title (fr)

DISTRIBUTEUR DE PRODUIT FLUIDE RECHARGEABLE.

Publication

EP 3408034 A1 20181205 (FR)

Application

EP 17708850 A 20170123

Priority

- FR 1650566 A 20160125
- FR 2017050130 W 20170123

Abstract (en)

[origin: WO2017129883A1] The invention relates to a refillable fluid product dispenser comprising a dispensing head (T) comprising a dispensing member (D), a variable-volume reservoir (R) and a filling valve (7) connected to the reservoir (R), characterized in that the dispensing member (D) is provided with a dip tube (23) which passes through the reservoir, a sliding member (3) comprising a movable piston (35) sliding in leaktight contact around the dip tube (23) so as to vary the volume of the reservoir (R), the sliding member (3) being movable between a depressed position and an extended position, the reservoir (R) defining a maximum volume in the depressed position and a minimum volume in the extended position, such that the volume of the reservoir (R) increases when the sliding member (3) is depressed around the dip tube (23) towards the dispensing member (D).

IPC 8 full level

B05B 9/08 (2006.01); **B05B 11/00** (2006.01); **B05B 15/00** (2018.01); **B65D 83/00** (2006.01)

CPC (source: EP US)

B05B 9/0838 (2013.01 - EP); **B05B 9/0883** (2013.01 - EP); **B05B 11/0056** (2013.01 - EP US); **B05B 11/029** (2023.01 - EP); **B05B 15/30** (2018.01 - EP US)

Citation (search report)

See references of WO 2017129883A1

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)

FR 3046945 A1 20170728; **FR 3046945 B1 20220715**; BR 112018013056 A2 20181204; BR 112018013056 B1 20220920; EP 3408034 A1 20181205; EP 3408034 B1 20201028; ES 2837020 T3 20210629; WO 2017129883 A1 20170803

DOCDB simple family (application)

FR 1650566 A 20160125; BR 112018013056 A 20170123; EP 17708850 A 20170123; ES 17708850 T 20170123; FR 2017050130 W 20170123