

Title (en)
ASSEMBLY FOR DISPENSING A FLUID PRODUCT

Title (de)
ANORDNUNG FÜR DIE AUSGABE EINES FLÜSSIGPRODUKTS

Title (fr)
ENSEMBLE DE DISTRIBUTION DE PRODUIT FLUIDE

Publication
EP 3439791 A1 20190213 (FR)

Application
EP 17721770 A 20170404

Priority
• FR 1653134 A 20160408
• FR 2017050784 W 20170404

Abstract (en)
[origin: WO2017174918A1] An assembly for dispensing a fluid product comprising a fluid product reservoir (R), a dispensing member (5) and a dispensing port (62), the fluid product reservoir (R) comprising a piston (42) that can slide in a sealed manner in a slide barrel (41) over a maximum stroke defined between a start position corresponding to a substantially full state of the reservoir and an end position corresponding to a substantially empty state of the reservoir, characterised in that it further comprises detection means (35) arranged on the outside of the fluid product reservoir (R) and capable of remotely detecting a predefined physical property that enters a restricted detection field covering a warning position of the piston that is closer to the end position than to the start position, the piston (42) bearing said detectable predefined physical property, the detection means (35) delivering, in response to the detection of the physical property, at least one warning signal perceptible to a user.

IPC 8 full level
B05B 11/00 (2006.01); **B05C 17/01** (2006.01); **B65D 25/56** (2006.01); **G05D 9/00** (2006.01)

CPC (source: EP KR US)
A45D 34/00 (2013.01 - EP US); **A45D 34/04** (2013.01 - KR); **B05B 11/0035** (2013.01 - EP KR US); **B05B 11/028** (2023.01 - EP KR US); **B05B 11/1032** (2023.01 - EP KR US); **B05B 11/109** (2023.01 - EP KR US); **B05C 17/0136** (2013.01 - EP KR US); **B65D 25/56** (2013.01 - EP KR US); **A45D 2200/052** (2013.01 - EP KR US); **A45D 2200/055** (2013.01 - EP KR US); **B65D 2203/12** (2013.01 - KR)

Citation (search report)
See references of WO 2017174918A1

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 2017174918 A1 20171012; CA 3020206 A1 20171012; CN 109070117 A 20181221; CN 109070117 B 20210713; EP 3439791 A1 20190213; EP 3439791 B1 20200513; FR 3049880 A1 20171013; FR 3049880 B1 20201023; JP 2019520189 A 20190718; JP 6936248 B2 20210915; KR 20180134371 A 20181218; US 10980330 B2 20210420; US 2019116960 A1 20190425

DOCDB simple family (application)
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