

Title (en)  
ASSEMBLY METHOD FOR ASSEMBLING A FLUID PRODUCT DISPENSER

Title (de)  
VERFAHREN ZUM ZUSAMMENBAU EINER FLÜSSIGPRODUKTSPENDER

Title (fr)  
PROCÉDÉ DE MONTAGE D'UN DISTRIBUTEUR DE PRODUIT FLUIDE

Publication  
**EP 3743210 B1 20221228 (FR)**

Application  
**EP 19710021 A 20190125**

Priority  
• FR 1850642 A 20180126  
• FR 2019050166 W 20190125

Abstract (en)  
[origin: WO2019145650A1] Fluid product dispenser comprising: - a reservoir (R) containing a fluid product (P) and air (A), the reservoir (R) forming a mounting opening (11), - a cannula (12) for dispensing fluid product that is in communication with the reservoir (R), and - an actuating member (2) engaged in the mounting opening (11) for supplying the dispensing cannula (13) with fluid product (P), characterized in that the actuating member (2) comprises a deformable membrane (23) defining an outer side (231) forming a plunger (24) and an inner side (232) in contact with the air (A) of the reservoir (R), when the dispensing cannula (12) is in contact with the fluid product (P) of the reservoir (R).

IPC 8 full level  
**B01L 3/02** (2006.01); **B65D 83/00** (2006.01); **B05B 11/00** (2006.01); **B05B 11/04** (2006.01); **B05B 11/06** (2006.01)

CPC (source: EP KR US)  
**B01L 3/0241** (2013.01 - EP KR US); **B01L 3/0282** (2013.01 - EP KR US); **B05B 11/0035** (2013.01 - US); **B05B 11/048** (2013.01 - US); **B65D 83/0094** (2013.01 - EP KR US); **B01L 2300/042** (2013.01 - EP KR US); **B01L 2300/044** (2013.01 - US); **B01L 2300/0832** (2013.01 - EP KR US); **B01L 2300/168** (2013.01 - US); **B01L 2400/0481** (2013.01 - EP KR US); **B01L 2400/0487** (2013.01 - EP KR US); **B05B 11/0032** (2013.01 - EP US); **B05B 11/0035** (2013.01 - EP); **B05B 11/04** (2013.01 - EP); **B05B 11/06** (2013.01 - EP)

Citation (examination)  
• US 2281738 A 19420505 - WOLCOTT FRANK E  
• US 3145879 A 19640825 - WILLIAMS HAROLD W

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

DOCDB simple family (publication)  
**WO 2019145650 A1 20190801**; CN 111655376 A 20200911; CN 111655376 B 20220701; EP 3743210 A1 20201202; EP 3743210 B1 20221228; FR 3077222 A1 20190802; FR 3077222 B1 20231201; KR 20200115592 A 20201007; US 11833506 B2 20231205; US 2020346202 A1 20201105

DOCDB simple family (application)  
**FR 2019050166 W 20190125**; CN 201980008504 A 20190125; EP 19710021 A 20190125; FR 1850642 A 20180126; KR 20207024662 A 20190125; US 201916964737 A 20190125