

Title (en)

SYSTEM FOR CLOSING A DEVICE FOR THE LOW-PRESSURE DISPENSING OF A PASTY LIQUID MATERIAL

Title (de)

SYSTEM ZUM VERSCHLIESSEN EINER VORRICHTUNG ZUR AUSGABE EINES PASTÖSEN FLÜSSIGSTOFFES BEI NIEDRIGEM DRUCK

Title (fr)

SYSTÈME DE FERMETURE D'UN DISPOSITIF DE DISTRIBUTION À BASSE PRESSION D'UN PRODUIT LIQUIDE À PÂTEUX

Publication

EP 2723504 A1 20140430 (FR)

Application

EP 12731063 A 20120525

Priority

- FR 1155686 A 20110627
- FR 2012051176 W 20120525

Abstract (en)

[origin: WO2013001193A1] The invention relates to a device (1) for dispensing a pasty liquid material (2) by means of a low-pressure manual metering pump (5), which is provided with an system for closing an end (32), and which is intended for a rigid or flexible container (4), the operation of said pump being ensured by: a lower check valve (11) and a metering chamber (10) which consists of a resiliently deformable bellows (9) and which is in communication with an upper valve (14) consisting of, in series: a stopper (16) for the channel (13) of the spout (8), which ensures that the end (32) is closed; a resiliently deformable diaphragm (15) enabling the stopper (16) to be opened; an auxiliary return member (17) suitable for the low pressures causing the closing of the stopper (16); and a sealed vessel (18), characterized in that the resiliently deformable diaphragm (15) is combined with the vessel (18) that said diaphragm seals, wherein the auxiliary return member (17) is arranged inside said vessel so as to be permanently linked to the diaphragm (15), and said vessel includes two levels (19, 20) that are resiliently deformable according to various characteristics.

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: CN EP KR US)

B05B 11/0067 (2013.01 - CN EP KR US); **B05B 11/0072** (2013.01 - CN KR); **B05B 11/1035** (2023.01 - CN EP US); **B05B 11/1036** (2023.01 - CN KR); **B05B 11/1061** (2023.01 - CN EP US); **B05B 11/1069** (2023.01 - KR); **B05B 11/0072** (2013.01 - EP US); **B05B 11/1036** (2023.01 - EP US); **B05B 11/1069** (2023.01 - EP US)

Citation (search report)

See references of WO 2013001193A1

Cited by

CN108057150A

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)

FR 2976981 A1 20121228; FR 2976981 B1 20130705; AU 2012277671 A1 20140116; AU 2012277671 B2 20151210; BR 112013031771 A2 20161206; BR 112013031771 B1 20201208; CA 2838167 A1 20130103; CA 2838167 C 20181023; CN 103608123 A 20140226; CN 103608123 B 20160601; EP 2723504 A1 20140430; EP 2723504 B1 20150624; ES 2544841 T3 20150904; HK 1190664 A1 20140711; JP 2014525877 A 20141002; JP 6028024 B2 20161116; KR 101702556 B1 20170203; KR 20140045943 A 20140417; MX 2013015038 A 20140327; PL 2723504 T3 20151130; PT 2723504 E 20151019; RU 2013156359 A 20150810; RU 2580133 C2 20160410; US 2014346195 A1 20141127; US 9079206 B2 20150714; WO 2013001193 A1 20130103

DOCDB simple family (application)

FR 1155686 A 20110627; AU 2012277671 A 20120525; BR 112013031771 A 20120525; CA 2838167 A 20120525; CN 201280029516 A 20120525; EP 12731063 A 20120525; ES 12731063 T 20120525; FR 2012051176 W 20120525; HK 14103782 A 20140422; JP 2014517876 A 20120525; KR 20137033219 A 20120525; MX 2013015038 A 20120525; PL 12731063 T 20120525; PT 12731063 T 20120525; RU 2013156359 A 20120525; US 201214122342 A 20120525