

Title (en)

PUMP HEAD FOR A METERING DEVICE, METERING DEVICE, AND APPLICATIONS

Title (de)

PUMPKOPF FÜR EINE DOSIERVORRICHTUNG, DOSIERVORRICHTUNG SOWIE VERWENDUNGSMÖGLICHKEITEN

Title (fr)

TÊTE DE POMPE POUR DISPOSITIF DE DOSAGE, DISPOSITIF DE DOSAGE ET LEURS UTILISATIONS POSSIBLES

Publication

EP 3209427 B1 20220316 (DE)

Application

EP 15778637 A 20151007

Priority

- DE 102014221393 A 20141021
- EP 2015073198 W 20151007

Abstract (en)

[origin: CA2965191A1] The invention relates to a pump head for a metering device for dispensing a fluid in a metered manner. The pump head can be attached to a storage container, for example a bottle, which is designed to store the fluid to be dispensed. The pump head and the storage vessel together form the metering device according to the invention. The pump head is characterized by comprising an air passage, by means of which air from the outside can be transferred into the storage vessel during the pumping process in order to equalize the pressure. The invention additionally relates to applications of the pump head and the metering device.

IPC 8 full level

B05B 11/00 (2006.01)

CPC (source: CN EP KR RU US)

B05B 11/0005 (2013.01 - CN EP KR RU US); **B05B 11/0044** (2018.08 - CN EP KR RU US); **B05B 11/1001** (2023.01 - CN EP KR RU US);
B05B 11/1047 (2023.01 - CN EP KR RU US); **B05B 11/105** (2023.01 - CN EP KR RU US); **B05B 11/1074** (2023.01 - EP KR RU US);
B05B 11/1074 (2023.01 - CN)

Citation (examination)

EP 1380351 A1 20040114 - AERO PUMP GMBH [DE]

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)

DE 102014221393 A1 20160421; AU 2015335223 A1 20170518; AU 2015335223 B2 20201224; CA 2965191 A1 20160428;
CN 107107084 A 20170829; CN 107107084 B 20191126; DK 3209427 T3 20220411; EP 3209427 A1 20170830; EP 3209427 B1 20220316;
ES 2909965 T3 20220511; HR P20220719 T1 20220722; KR 102402934 B1 20220527; KR 20170088340 A 20170801; LT 3209427 T 20220425;
MX 2017005309 A 20180706; PL 3209427 T3 20220704; PT 3209427 T 20220329; RS 63268 B1 20220630; RU 2017113382 A 20181122;
RU 2017113382 A3 20181129; RU 2694760 C2 20190716; SI 3209427 T1 20220630; US 10384221 B2 20190820; US 2017291183 A1 20171012;
WO 2016062541 A1 20160428

DOCDB simple family (application)

DE 102014221393 A 20141021; AU 2015335223 A 20151007; CA 2965191 A 20151007; CN 201580057191 A 20151007;
DK 15778637 T 20151007; EP 15778637 A 20151007; EP 2015073198 W 20151007; ES 15778637 T 20151007; HR P20220719 T 20151007;
KR 20177013016 A 20151007; LT 15073198 T 20151007; MX 2017005309 A 20151007; PL 15778637 T 20151007; PT 15778637 T 20151007;
RS P20220524 A 20151007; RU 2017113382 A 20151007; SI 201531840 T 20151007; US 201515520116 A 20151007