

Title (en)

IMPROVED PUMP FOR AN AIRLESS-RESERVOIR DISTRIBUTOR

Title (de)

VERBESSERTE PUMPE FÜR EINEN VERTEILER MIT LUFTLOSEM BEHÄLTER

Title (fr)

AMELIORATION D'UNE POMPE POUR DISTRIBUTEUR A RESERVOIR SANS AIR

Publication

EP 2300171 A1 20110330 (FR)

Application

EP 08874377 A 20080520

Priority

FR 2008000693 W 20080520

Abstract (en)

[origin: WO2009141511A1] The invention relates to an improved pumping device which provides good sealing with a reduced number of components, owing in particular to the use of a valve including at least: a rigid retaining ring (52) clamped in a cylindrical portion (45) extending from a bellows (44); a flexible resilient diaphragm connected at the periphery thereof to the retaining ring and including a domed part (51) curved towards the outside of the pumping chamber (3), said domed part having a slot (F) that divides the domed part into several portions; and a sleeve (534) extending from the ring outside the pumping chamber and coming into sealed contact around a hollow member (65) inside which an outlet duct (61) opens into a distribution port (611), the aforementioned portions of the domed part moving apart during expulsion and moving back together during suction.

IPC 8 full level

B05B 11/02 (2006.01)

CPC (source: EP)

B05B 11/007 (2013.01); **B05B 11/0075** (2013.01); **B05B 11/028** (2023.01); **B05B 11/1035** (2023.01)

Citation (search report)

See references of WO 2009141511A1

Cited by

WO2023012238A1; IT202100020864A1

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

WO 2009141511 A1 20091126; CN 102099122 A 20110615; CN 102099122 B 20130828; EP 2300171 A1 20110330; EP 2300171 B1 20120926; HK 1156564 A1 20120615

DOCDB simple family (application)

FR 2008000693 W 20080520; CN 200880130426 A 20080520; EP 08874377 A 20080520; HK 11110928 A 20111013