

Title (en)

PUMPING UNIT, STORAGE DEVICE EQUIPPED WITH THE SAME AND METHOD FOR OPERATING SAID STORAGE DEVICE

Title (de)

PUMPEN-EINHEIT, DAMIT AUSGESTATTETE LAGERVORRICHTUNG SOWIE VERFAHREN ZUM BETREIBEN DER LAGERVORRICHTUNG

Title (fr)

UNITÉ DE POMPE, DISPOSITIF DE STOCKAGE ÉQUIPÉ D'UNE TELLE UNITÉ DE POMPE ET PROCÉDÉ DE FONCTIONNEMENT DUDIT DISPOSITIF DE STOCKAGE

Publication

EP 3441612 B1 20201230 (DE)

Application

EP 18185372 A 20180725

Priority

DE 102017117983 A 20170808

Abstract (en)

[origin: WO2019030001A1] The invention relates to a pump unit (1) for emptying a reservoir container (101) filled with a fluid or paste-like material (111) and in particular under vacuum, which reservoir container is a component of a storage device (100), wherein the pump unit (1) comprises a delivery pump (1.1) which has an elastic pump element (3) that is movable relative to the delivery pump housing (2), a delivery pump drive (8), and a control for controlling at least all movable components of the pump unit (1).

IPC 8 full level

F04B 15/02 (2006.01); **F04B 7/02** (2006.01); **F04B 23/02** (2006.01); **F04B 43/02** (2006.01); **F04B 43/073** (2006.01)

CPC (source: EP US)

F04B 7/02 (2013.01 - EP); **F04B 15/02** (2013.01 - EP US); **F04B 23/025** (2013.01 - EP); **F04B 43/026** (2013.01 - EP US); **F04B 43/073** (2013.01 - EP US)

Citation (examination)

- DE 102012207181 A1 20131031 - BOSCH GMBH ROBERT [DE]
- EP 0959247 A1 19991124 - WAGNER GMBH J [DE]
- DE 102005035502 A1 20070201 - MINGATEC GMBH [DE]
- DE 102016101080 A1 20160811 - SMC CORP [JP]
- US 5279504 A 19940118 - WILLIAMS JAMES F [US]

Cited by

EP3812583A1; WO2022112183A1; WO2021078876A1

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)

EP 3441612 A1 20190213; EP 3441612 B1 20201230; DE 102017117983 A1 20190214; WO 2019030001 A1 20190214

DOCDB simple family (application)

EP 18185372 A 20180725; DE 102017117983 A 20170808; EP 2018070243 W 20180726