

Title (en)
BARREL PUMP HAVING A FOLLOWER PLATE WITH AN ADJUSTABLE SEALING RING

Title (de)
FASSPUMPE MIT ANPASSBAREM DICHTRING DER FOLGEPLATTE

Title (fr)
POMPE ÉLECTRIQUE PORTATIVE À BAGUE D'ÉTANCHÉITÉ ADAPTABLE DE LA PLAQUE SUIVEUSE

Publication
EP 3507236 B1 20201014 (DE)

Application
EP 17754694 A 20170815

Priority

- DE 102016010622 A 20160905
- DE 102017100712 A 20170116
- EP 2017070672 W 20170815

Abstract (en)
[origin: WO2018041628A1] The invention relates to a method for conveying viscous material out of a barrel-like container (12), which has a container bottom (14) and a circumferential container wall (18), which extends from the container bottom (14) to a container top (16), and is open towards the container top (16), using a device (10) which has a follower plate (20) for closing the container (12). The follower plate (20) has a circumferential wiper ring (28), and the wiper ring (28) has a radially outwardly protruding contact portion (34) for contact with an inner face (36), facing the follower plate (20), of the container wall (18). A variable pressing force can be applied to the contact portion (34) to press it against the inner face (36) of the container wall (18). The follower plate (20), following a decreasing material level and resting on a surface of the material, is moved in the direction towards the container bottom (14) and, after the container (12) is emptied, is moved away from the container bottom (14), and the contact portion (34) of the wiper ring (28) is pressed sealingly against the inner face (36) of the container wall (18) during the movement of the follower plate (20) towards the container bottom (14). According to the invention, the sealing effect between the wiper ring (28) and the container wall (18) is suspended during the movement of the follower plate (20) away from the container bottom (14) by reducing the pressing force.

IPC 8 full level
B67D 7/64 (2010.01); **B05C 17/015** (2006.01)

CPC (source: EP KR US)
B05C 11/10 (2013.01 - EP KR US); **B67D 7/645** (2013.01 - EP KR US)

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 2018041628 A1 20180308; CN 109641735 A 20190416; CN 109641735 B 20210430; EP 3507236 A1 20190710; EP 3507236 B1 20201014; KR 102409581 B1 20220615; KR 20190042019 A 20190423; US 11034575 B2 20210615; US 2019210865 A1 20190711

DOCDB simple family (application)
EP 2017070672 W 20170815; CN 201780053973 A 20170815; EP 17754694 A 20170815; KR 20197006318 A 20170815; US 201716325459 A 20170815