

Title (en)
DEVICE FOR CONVEYING VISCOUS MATERIAL

Title (de)
VORRICHTUNG ZUM FÖRDERN VON VISKOSEM MATERIAL

Title (fr)
DISPOSITIF POUR LE TRANSPORT D'UNE MATIÈRE VISQUEUSE

Publication
EP 3558548 A1 20191030 (DE)

Application
EP 17771386 A 20170914

Priority
• DE 102016125207 A 20161221
• EP 2017073123 W 20170914

Abstract (en)
[origin: WO2018114068A1] The invention relates to a device (10, 110) for conveying viscous material out of a barrel-type container (12) which has a container base (14) and a circumferential container wall (18) extending from the container base (14) to a container upper edge (16), and which is open at the container upper edge (16), comprising a follower plate (26) for closing the container (12) and having a material outlet (28) connected to a conveying pump (30), wherein the follower plate (26) can be moved up and down in the container (12) with a sealing contact on an inner surface of the container wall (18) facing towards same, and comprising a lifting device (22) for raising and lowering the follower plate (26), wherein the lifting device (22) has a drive unit. According to the invention, a protection device (32, 132) having a protection element (34, 134) is provided, which is arranged in relation to the follower plate (26) and the container (12) in such a way that, when introducing the follower plate (26) into the container (12), it encircles both the follower plate (26) and the container (12) in the region of the container upper edge (16). The protection device (32, 132) also has at least one switch (52, 152, 154) for deactivating the drive unit in the event that the container upper edge (16) becomes at least partially exposed by the protective element (34, 134) during the introduction of the follower plate (26) into the container (12).

IPC 8 full level
B05C 11/10 (2006.01); **B67D 7/02** (2010.01); **F04B 23/02** (2006.01)

CPC (source: EP KR US)
B05C 11/10 (2013.01 - EP KR US); **B67D 7/02** (2013.01 - KR); **B67D 7/0227** (2013.01 - US); **B67D 7/645** (2013.01 - EP KR US); **F04B 15/02** (2013.01 - EP KR US); **F04B 23/028** (2013.01 - EP KR US); **F04B 53/16** (2013.01 - EP KR)

Citation (search report)
See references of WO 2018114068A1

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

Designated extension state (EPC)
BA ME

DOCDB simple family (publication)
DE 102016125207 A1 20180621; CN 110035836 A 20190719; CN 110035836 B 20211217; EP 3558548 A1 20191030; EP 3558548 B1 20220323; KR 102376106 B1 20220317; KR 20190097046 A 20190820; US 10934154 B2 20210302; US 2019367352 A1 20191205; WO 2018114068 A1 20180628

DOCDB simple family (application)
DE 102016125207 A 20161221; CN 201780074948 A 20170914; EP 17771386 A 20170914; EP 2017073123 W 20170914; KR 20197017635 A 20170914; US 201716462343 A 20170914