

Title (en)
DEVICE FOR CONVEYING VISCOUS MATERIAL

Title (de)
VORRICHTUNG ZUM FÖRDERN VON VISKOSEM MATERIAL

Title (fr)
DISPOSITIF DE TRANSPORT DE MATÉRIAU VISQUEUX

Publication
EP 3325174 A1 20180530 (DE)

Application
EP 16723985 A 20160510

Priority
• DE 102015009130 A 20150720
• EP 2016060394 W 20160510

Abstract (en)
[origin: WO2017012729A1] The invention relates to a device (10, 110, 210) for conveying viscous material (26) out of a barrel-like container (12) which has a container base (14) and a container shell (16) which extends upward from the container base (14), having a follower plate (18) for closing off the container (12), which follower plate, bearing against the inner surface (20), facing toward the container interior (24), of the container shell (16), is movable in a direction toward the container base (14) and away from the container base (14), and which follower plate has a material outlet opening and a ventilation opening (48), having a pump for conveying the viscous material (26) through the material outlet opening, and having a ventilation device (50) for introducing compressed air through the ventilation opening (48) and having a lowering device (30) for lowering the follower plate (18) in the container (12), which lowering device has at least one double-acting cylinder (34) with two pressure chambers (38, 40) which are delimited in pressure-tight fashion with respect to one another by a piston (36) and has a supporting device (32) which supports the follower plate (18), wherein the piston (36) is connected, by way of a piston rod (42) which runs through a first of the pressure chambers (38) and which is led axially out of the cylinder (34), to the supporting device (32) in such a way that the first pressure chamber (38) is reduced in size when the follower plate (18) is lifted in the direction away from the container base (14). According to the invention, a discharge valve (58) is provided which, in a first switching position, blocks a line (60) which leads out of the first pressure chamber (38), and which, in a second switching position, opens the line (60) for the purposes of discharging pressure medium out of the first pressure chamber (38).

IPC 8 full level
B05C 11/10 (2006.01); **B05B 9/047** (2006.01); **B05C 11/11** (2006.01); **B67C 9/00** (2006.01)

CPC (source: EP KR US)
B05B 9/047 (2013.01 - EP US); **B05C 5/0225** (2013.01 - US); **B05C 11/10** (2013.01 - EP US); **B05C 11/1002** (2013.01 - KR); **B05C 11/11** (2013.01 - KR); **B05B 9/0409** (2013.01 - EP); **B05C 11/1002** (2013.01 - EP US); **B05C 11/1013** (2013.01 - KR); **B05C 11/11** (2013.01 - EP US)

Citation (search report)
See references of WO 2017012729A1

Cited by
CN112718382A

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 102015009130 A1 20170126; CN 107921466 A 20180417; CN 107921466 B 20200428; EP 3325174 A1 20180530; EP 3325174 B1 20190724; KR 102440654 B1 20220905; KR 20180030527 A 20180323; US 2018193871 A1 20180712; WO 2017012729 A1 20170126

DOCDB simple family (application)
DE 102015009130 A 20150720; CN 201680042027 A 20160510; EP 16723985 A 20160510; EP 2016060394 W 20160510; KR 20187001155 A 20160510; US 201615744185 A 20160510