

Title (en)

APPARATUS, SYSTEM AND METHOD FOR COMPRESSING CONTAINERS FILLED WITH BULK MATERIAL

Title (de)

VORRICHTUNG, ANLAGE UND VERFAHREN ZUM VERDICHEN VON MIT SCHÜTTGÜTERN GEFÜLLTEN GEBINDEN

Title (fr)

DISPOSITIF, INSTALLATION ET PROCÉDÉ SERVANT À COMPRESSER DES UNITÉS D'EMBALLAGE REMPLIES DE PRODUITS EN VRAC

Publication

EP 3630619 B1 20210414 (DE)

Application

EP 18732257 A 20180530

Priority

- DE 102017111806 A 20170530
- EP 2018064261 W 20180530

Abstract (en)

[origin: WO2018220055A1] The invention relates to a compression device (1) and method for compressing bulk material (3) in an open container (4), wherein the compression device (1) comprises a compression bottle (2) accommodated on a carrier device (10). The compression bottle (2) comprises a gas-permeable outer wall (5) which is connected to a suction channel (6). The compression bottle (2) is suitable for insertion into an open container (4) in order to bring the compression bottle (2) into contact with the bulk material (3) and in order to degas and compress the bulk material (3) in the open container (4). Here, the compression bottle (2) has a longitudinal axis (8) and is accommodated to be pivotable about said axis.

IPC 8 full level

B65B 1/20 (2006.01); **B65B 1/22** (2006.01); **B65B 1/26** (2006.01); **B65B 11/20** (2006.01); **B65B 11/22** (2006.01); **B65B 11/26** (2006.01)

CPC (source: EP US)

B65B 1/20 (2013.01 - EP); **B65B 1/22** (2013.01 - EP US); **B65B 1/24** (2013.01 - US); **B65B 1/26** (2013.01 - EP US); **B65B 1/44** (2013.01 - EP); **B65B 1/48** (2013.01 - EP US); **B65B 1/44** (2013.01 - 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 2018220055 A1 20181206; CA 3065144 A1 20181206; CN 110740937 A 20200131; CN 110740937 B 20210803; DE 102017111806 A1 20181206; EP 3630619 A1 20200408; EP 3630619 B1 20210414; ES 2880784 T3 20211125; US 11059611 B2 20210713; US 2020108956 A1 20200409

DOCDB simple family (application)

EP 2018064261 W 20180530; CA 3065144 A 20180530; CN 201880035846 A 20180530; DE 102017111806 A 20170530; EP 18732257 A 20180530; ES 18732257 T 20180530; US 201816617164 A 20180530