Title (en)

DEVICE AND METHOD FOR PUMPING FLOWABLE MASSES

Title (de)

VORRICHTUNG UND VERFAHREN ZUM PUMPEN FLIESSFÄHIGER MASSEN

Title (fr)

DISPOSITIF ET PROCÉDÉ POUR POMPER UNE MASSE COULANTE

Publication

EP 2449263 B1 20130424 (DE)

Application

EP 10744721 A 20100701

Priority

- IB 2010001606 W 20100701
- US 22254109 P 20090702

Abstract (en)

[origin: WO2011001267A2] The invention relates to a device for pumping a flowable mass, in particular a consumable item. The device comprises a main body (3) having a hollow space (7), which is in fluid connection with a mass source (6) by way of an inlet opening (7a) and with a mass destination by way of an outlet opening (7b) in the surroundings of the main body (3). The inlet opening (7a) and the outlet opening (7b) are disposed along a direction (L) at a distance from each other on the main body (3). The device further comprises a first body (1; 1') and a second body (2; 2'), both of which can be moved in the main body hollow space (7) relative to the main body (3) and relative to each other along the direction (L), wherein both the first body (1; 1') and the second body (2; 2') rest sealingly against an inside wall and slidingly against said inside wall and delimit a chamber (8; 8'). By moving the first body (1; 1') and/or the second body (2; 2'), both the volume of the chamber (8; 8') and the position thereof relative to be main body (3) can be varied.

IPC 8 full level

F04B 15/02 (2006.01)

CPC (source: EP KR US)

F04B 3/00 (2013.01 - KR); **F04B 7/045** (2013.01 - EP KR US); **F04B 15/02** (2013.01 - EP KR US); **F04B 15/023** (2013.01 - EP KR US); **F04B 23/026** (2013.01 - EP KR US); F04B 3/00 (2013.01 - EP 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 SE SI SK SM TR

DOCDB simple family (publication)

WO 2011001267 A2 20110106; **WO 2011001267 A3 20110324**; **WO 2011001267 A8 20110603**; BR 112012000028 A2 20160315; BR 112012000028 A8 20171205; CN 102753825 A 20121024; CN 102753825 B 20150715; DK 2449263 T3 20130722; EP 2449263 A2 20120509; EP 2449263 B1 20130424; HK 1170285 A1 20130222; JP 2012532271 A 20121213; JP 5914330 B2 20160511; KR 20120085714 A 20120801; PL 2449263 T3 20130930; RU 2012103485 A 20130810; RU 2540025 C2 20150127; US 2012189475 A1 20120726; US 9194383 B2 20151124

DOCDB simple family (application)

IB 2010001606 W 20100701; BR 112012000028 A 20100701; CN 201080039724 A 20100701; DK 10744721 T 20100701; EP 10744721 A 20100701; HK 12111111 A 20121105; JP 2012518138 A 20100701; KR 20127003015 A 20100701; PL 10744721 T 20100701; RU 2012103485 A 20100701; US 201013382004 A 20100701