

Title (en)

METHOD FOR FEEDING PASTY MASSES AND PUMP DEVICE FOR FEEDING PASTY MASSES

Title (de)

VERFAHREN ZUR FÖRDERUNG BREIIGER MASSEN UND PUMPVORRICHTUNG ZUR FÖRDERUNG BREIIGER MASSEN

Title (fr)

PROCÉDÉ DE TRANSPORT DE PRODUITS PÂTEUX, ET DISPOSITIF DE POMPAGE POUR LE TRANSPORT DE PRODUITS PÂTEUX

Publication

EP 2387667 B1 20130320 (DE)

Application

EP 10704309 A 20100114

Priority

- EP 2010000161 W 20100114
- DE 102009005318 A 20090116

Abstract (en)

[origin: WO2010081695A1] The invention relates to a method for feeding pasty masses using a pump device which has a piston pump with at least two cylinders with in each case one piston, in which pump device each cylinder is connected via an inlet opening, which can be closed by an inlet slide assigned thereto, to a pre-fill container, and in which pump device each cylinder is connected via an outlet opening, which can be closed by an outlet slide assigned thereto, to a feed line, - in which method pasty mass is fed from the pre-fill container into the respective cylinder during a suction stroke of a cylinder with the inlet opening open and the outlet opening closed and pasty mass is fed into the feed line during a pumping stroke of a cylinder with the outlet opening open and the inlet opening closed, in which method the piston speed is greater during the suction stroke than during the pumping stroke, in which method at the end, toward the end or shortly after the end of the suction stroke, the inlet opening is closed by the inlet slide and thereafter a compression of the pasty mass takes place in the cylinder before the outlet opening is opened.

IPC 8 full level

F04B 7/00 (2006.01); **F04B 11/00** (2006.01); **F04B 15/02** (2006.01)

CPC (source: EP KR US)

F04B 1/02 (2013.01 - US); **F04B 7/00** (2013.01 - KR); **F04B 7/0023** (2013.01 - EP US); **F04B 7/0026** (2013.01 - EP US); **F04B 7/0053** (2013.01 - US); **F04B 7/0069** (2013.01 - US); **F04B 11/00** (2013.01 - KR); **F04B 11/0058** (2013.01 - EP US); **F04B 15/02** (2013.01 - EP KR US); **F04B 15/023** (2013.01 - EP US); **F04B 19/22** (2013.01 - US); **F04B 23/025** (2013.01 - US); **F04B 53/10** (2013.01 - US); **F04B 53/14** (2013.01 - US); **F04B 53/16** (2013.01 - US)

Cited by

DE102018132309A1; DE102018132270A1; DE102018126374A1; WO2020083605A1; WO2020120234A1; US11891987B2; EP3282124A1; EP3497329B1

Designated contracting state (EPC)

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 2010081695 A1 20100722; CA 2749386 A1 20100722; CN 102282370 A 20111214; DE 102009005318 B3 20100930; EP 2387667 A1 20111123; EP 2387667 B1 20130320; ES 2414866 T3 20130723; JP 2012515294 A 20120705; KR 20110123243 A 20111114; MX 2011007516 A 20110909; PL 2387667 T3 20130830; RU 2011134273 A 20130227; RU 2477813 C1 20130320; US 2011274572 A1 20111110; US 2016040659 A1 20160211; US 9046086 B2 20150602; ZA 201104288 B 20120229

DOCDB simple family (application)

EP 2010000161 W 20100114; CA 2749386 A 20100114; CN 201080004488 A 20100114; DE 102009005318 A 20090116; EP 10704309 A 20100114; ES 10704309 T 20100114; JP 2011545679 A 20100114; KR 20117018832 A 20100114; MX 2011007516 A 20100114; PL 10704309 T 20100114; RU 2011134273 A 20100114; US 201013144791 A 20100114; US 201514626480 A 20150219; ZA 201104288 A 20110609