

Title (en)

RECIPROCATING PUMP HAVING A FORCE CONTROL ELEMENT

Title (de)

KOLBENPUMPE MIT ZWANGSSTEUERUNGSELEMENT

Title (fr)

POMPE À PISTONS COMPORTANT UN ÉLÉMENT DE COMMANDE FORCÉE

Publication

EP 3695119 B1 20211215 (DE)

Application

EP 18789048 A 20181012

Priority

- CH 12552017 A 20171013
- EP 2018077961 W 20181012

Abstract (en)

[origin: WO2019073067A1] The invention relates to a reciprocating pump (1) for pumping pump material. The reciprocating pump (1) comprises a main body (2), a first chamber (3), a second chamber (4) and a piston (5) which is moveable relative to the main body (2) and to the first chamber (3). The first chamber (3) comprises a first chamber opening (10) for filling the first chamber (3) with pump material from outside the reciprocating pump (1) and the second chamber (4) comprises a second chamber opening (12) for filling the second chamber (4) with pump material from the first chamber (3). The reciprocating pump (1) comprises a pump outlet (8) through which the pump material can exit the second chamber (4). The reciprocating pump (1) comprises a force control element (14, 15) for forced control of the second chamber opening (12) by means of the piston (5), wherein in a first pump configuration the second chamber opening (12) is configured to be impenetrable to the pump material as a result of the force control element (14, 15), and wherein in a second pump configuration the second chamber opening (12) is configured to be penetrable to the pump material as a result of the force control element (14, 15).

IPC 8 full level

F04B 7/04 (2006.01); **F04B 15/02** (2006.01)

CPC (source: CH EP)

F04B 7/0073 (2013.01 - CH); **F04B 7/04** (2013.01 - CH EP); **F04B 15/02** (2013.01 - CH EP)

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)

CH 714237 A1 20190415; EP 3695119 A1 20200819; EP 3695119 B1 20211215; WO 2019073067 A1 20190418

DOCDB simple family (application)

CH 12552017 A 20171013; EP 18789048 A 20181012; EP 2018077961 W 20181012