

Title (en)

Pressure pump with suction nut

Title (de)

Verdrängerpumpe mit Absaugnut

Title (fr)

Pompe volumétrique avec rainure d'aspiration

Publication

EP 2412979 A2 20120201 (DE)

Application

EP 11173969 A 20110714

Priority

DE 102010038430 A 20100726

Abstract (en)

The pump has a pumping chamber (1) and a regulating chamber (2) that are separated from each other by a piston (3). Fluid flowing from the pumping chamber toward the regulating chamber is drained through a channel (4) and a fluid-guiding section. The fluid-guiding section leads into the channel and to a suction side, so that the fluid is guided on the suction side of the pump. The channel is placed in a region in which the piston forms a sealing gap (8) with a piston guide that surrounds the piston. The sealing gap extends from the channel toward the pumping and regulating chambers.

Abstract (de)

Verdrängerpumpe, insbesondere Zahnradpumpe, umfassend eine Pumpenkammer 1 und eine Regelkammer 2, die voneinander über einen Kolben 3 getrennt sind, wobei die Pumpe eine Einrichtung 4, 5 aufweist, mit der aus der Pumpenkammer 1 in Richtung Regelkammer 2 fließendes Fluid abführbar ist.

IPC 8 full level

F04C 18/18 (2006.01); **F04C 2/18** (2006.01); **F04C 14/18** (2006.01); **F04C 14/26** (2006.01); **F04C 28/18** (2006.01)

CPC (source: EP US)

F04C 2/18 (2013.01 - EP US); **F04C 14/185** (2013.01 - EP US); **F04C 14/26** (2013.01 - EP US)

Cited by

EP2479434A3

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)

EP 2412979 A2 20120201; **EP 2412979 A3 20130529**; **EP 2412979 B1 20170830**; CN 102345600 A 20120208; CN 102345600 B 20160803; DE 102010038430 A1 20120126; DE 102010038430 A8 20120329; DE 102010038430 B4 20121206; HU E036123 T2 20180628; PL 2412979 T3 20180131; US 2012020825 A1 20120126; US 8899951 B2 20141202

DOCDB simple family (application)

EP 11173969 A 20110714; CN 201110205851 A 20110722; DE 102010038430 A 20100726; HU E11173969 A 20110714; PL 11173969 T 20110714; US 201113190518 A 20110726