

Title (en)

PISTON PUMP FOR A HIGH-PRESSURE CLEANING DEVICE

Title (de)

KOLBENPUMPE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)

POMPE À PISTONS POUR APPAREIL DE NETTOYAGE À HAUTE PRESSION

Publication

**EP 2805051 B1 20191211 (DE)**

Application

**EP 12702458 A 20120120**

Priority

EP 2012050867 W 20120120

Abstract (en)

[origin: WO2013107519A1] The invention relates to a piston pump (10) for a high-pressure cleaning device, having a plurality of pump chambers (22), into which in each case one piston (24) which can move to and fro dips and which are flow-connected in each case via an upstroke valve (26) to a suction inlet (14) and via a delivery valve (28) to a pressure outlet (16), wherein the pistons (24) are surrounded in each case by a seal ring (46) which is supported in the radial direction by a ring wall (50) and in the axial direction by a supporting ring (56). In order to develop the piston pump in such a way that it can be produced and assembled less expensively, it is proposed according to the invention that the piston pump (10) comprises a single-piece supporting plate (54) which forms the supporting rings (56) and surrounds the ring walls (50) in the circumferential direction.

IPC 8 full level

**F04B 1/20** (2006.01); **F04B 1/14** (2006.01); **F04B 53/02** (2006.01); **F04B 53/16** (2006.01)

CPC (source: EP US)

**F04B 1/143** (2013.01 - EP US); **F04B 1/2078** (2013.01 - US); **F04B 53/02** (2013.01 - EP US); **F04B 53/164** (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 RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2013107519 A1 20130725**; BR 112014012998 A2 20170613; CN 103998778 A 20140820; CN 103998778 B 20170531; EP 2805051 A1 20141126; EP 2805051 B1 20191211; US 2014328698 A1 20141106

DOCDB simple family (application)

**EP 2012050867 W 20120120**; BR 112014012998 A 20120120; CN 201280062667 A 20120120; EP 12702458 A 20120120; US 201414334068 A 20140717