

Title (en)

PISTON PUMP AND HIGH-PRESSURE CLEANING DEVICE HAVING SUCH A PISTON PUMP

Title (de)

KOLBENPUMPE UND HOCHDRUCKREINIGUNGSGERÄT MIT EINER SOLCHEN KOLBENPUMPE

Title (fr)

POMPE À PISTON ET APPAREIL DE NETTOYAGE À HAUTE PRESSION ÉQUIPÉ D'UNE TELLE POMPE À PISTON

Publication

**EP 3175113 A1 20170607 (DE)**

Application

**EP 14744857 A 20140730**

Priority

EP 2014066409 W 20140730

Abstract (en)

[origin: WO2016015763A1] The invention relates to a piston pump (22) for a high-pressure cleaning device (10), having a pump block (34) and a pump head (42), wherein the pump head (42) has a main body (44) which with a rear face (46) bears against the pump block (34) and has a suction line (68), a pressure line (72) as well as a plurality of pump chambers (64), which are each connected by means of a suction valve (66) to the suction line (68) and by means of a pressure valve (70) to the pressure line (72). The pump head also has an overflow line (104), by means of which the pressure line (72) is connected to the suction line (68) and on which an overflow valve (106) is arranged which opens and closes as a function of the pressure of the liquid, and has an pressure control valve chamber (166) connected to the pressure line (72) for housing an pressure control valve (168). In order to modify the piston pump (22) in such a way that it can be produced more cost-effectively and has a more compact design, according to the invention the pressure control valve chamber (166) is arranged offset with respect to the pressure line (72) in the direction of the rear face (46) of the main body (44).

IPC 8 full level

**F04B 17/06** (2006.01)

CPC (source: EP)

**F04B 17/06** (2013.01)

Citation (search report)

See references of WO 2016015763A1

Citation (examination)

WO 2013123969 A1 20130829 - KAERCHER GMBH & CO KG ALFRED [DE], et al

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)

**WO 2016015763 A1 20160204**; CN 106662086 A 20170510; CN 106662086 B 20190913; EP 3175113 A1 20170607

DOCDB simple family (application)

**EP 2014066409 W 20140730**; CN 201480080946 A 20140730; EP 14744857 A 20140730