

Title (en)
PUMP FOR A HIGH PRESSURE CLEANER AND A HIGH PRESSURE CLEANER

Title (de)
PUMPE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT UND HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
POMPE POUR UN NETTOYEUR HAUTE PRESSION ET UN NETTOYEUR HAUTE PRESSION

Publication
EP 2817516 A1 20141231 (DE)

Application
EP 12705138 A 20120220

Priority
EP 2012052884 W 20120220

Abstract (en)
[origin: WO2013123969A1] The invention relates to a pump for a high-pressure cleaning apparatus (10) for conveying a cleaning liquid, wherein the pump (14) comprises a pump head (16) having a base body (26) in which a suction line (27) and a pressure line (32) connected to said suction line by at least one pump chamber (29) are formed, a bypass line (33) which connects the pressure line (32) to the suction line (27), is oriented transversely to the pressure line (32), and defines a pump plane with said pressure line, and a delivery line (18) connected to the pressure line (32) for connecting an external liquid line, wherein the pump head (16) comprises an overflow valve (35) arranged on the bypass line (33), the valve body (36) of which is connected to a piston (34) that is immersed from the side facing the bypass line (33) into the pressure line (32), delimits in sections a pressure chamber (40) that is connected to the delivery line (18) in the flow direction via a pressure channel (41), and moves the valve body (36) depending on the fluid pressure in the pressure chamber (40) for opening and closing the bypass line (33). According to the invention, in order to further develop such a pump, by means of which pump variants that comprise an overpressure valve or a plunger for actuating an electric switch element can be designed in a simple manner, a projection (44) is formed on the base body (26), which projection comprises a first projection section (45) that defines a first axis (47) intersecting with the pressure line (32) and a second projection section (46) that defines a second axis (48) intersecting with the pressure chamber (40), wherein the first axis (47) and the second axis (48) intersect at an intersection point (49) located outside the pressure line (32) and the pressure chamber (40). The invention further relates to a high-pressure cleaning apparatus.

IPC 8 full level
B08B 3/02 (2006.01); **F04B 17/06** (2006.01); **F04B 53/16** (2006.01); **F04B 53/22** (2006.01); **F16K 17/04** (2006.01)

CPC (source: EP)
F04B 17/06 (2013.01); **F04B 53/16** (2013.01); **F04B 53/22** (2013.01); **B08B 3/026** (2013.01); **B08B 2203/0205** (2013.01)

Citation (search report)
See references of WO 2013123969A1

Cited by
CN105435986A; CN110603109A; WO2022117240A1

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 2013123969 A1 20130829; DK 2817516 T3 20160801; EP 2817516 A1 20141231; EP 2817516 B1 20160420

DOCDB simple family (application)
EP 2012052884 W 20120220; DK 12705138 T 20120220; EP 12705138 A 20120220