

Title (en)
PUMP FOR A HIGH-PRESSURE CLEANING DEVICE

Title (de)
PUMPE FÜR EIN HOCHDRUCKREINIGUNGSGERÄT

Title (fr)
POMPE POR UNE APPAREIL DE NETTOYAGE HAUTE PRESSION

Publication
EP 2483558 A1 20120808 (DE)

Application
EP 10759871 A 20100924

Priority
• DE 102009049095 A 20091001
• EP 2010064157 W 20100924

Abstract (en)
[origin: WO2011039115A1] The invention relates to a pump for a high-pressure cleaning unit for delivering a cleaning liquid having at least one pump chamber, into which at least one piston which can be moved to and fro dips and which is connected to a suction line via at least one inlet valve and to a pressure line via at least one outlet valve, and having a bypass line which leads from the pressure line to the suction line and in which a crossflow valve is arranged, the valve body of which is connected to a control piston which is held displaceably in a control chamber with the interposition of a sealing element and displaces the valve body into a closed position or an open position as a function of the flow rate of the cleaning liquid in the pressure line. In order to develop the pump in such a way that it can be produced in a manner which is less expensive and less susceptible to faults, it is proposed according to the invention that a sliding element which bears sealingly against the wall of the control chamber is arranged in the control chamber, and that the control piston is held displaceably in the sliding element with the interposition of the sealing element.

IPC 8 full level
F04B 1/14 (2006.01); **F04B 49/24** (2006.01)

CPC (source: EP US)
F04B 1/143 (2013.01 - EP US); **F04B 49/24** (2013.01 - EP US)

Citation (search report)
See references of WO 2011039115A1

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 SE SI SK SM TR

DOCDB simple family (publication)
DE 102009049095 A1 20110407; CN 102510949 A 20120620; CN 102510949 B 20141022; DK 2483558 T3 20140922;
EP 2483558 A1 20120808; EP 2483558 B1 20140716; US 2012213652 A1 20120823; US 8568109 B2 20131029; WO 2011039115 A1 20110407

DOCDB simple family (application)
DE 102009049095 A 20091001; CN 201080041347 A 20100924; DK 10759871 T 20100924; EP 10759871 A 20100924;
EP 2010064157 W 20100924; US 201213425495 A 20120321