

Title (en)  
PLUG-IN PUMP

Title (de)  
STECKPUMPE

Title (fr)  
POMPE ENFICHABLE

Publication  
**EP 2825773 A1 20150121 (DE)**

Application  
**EP 13819023 A 20131219**

Priority  
• DE 102012224317 A 20121221  
• EP 2013077331 W 20131219

Abstract (en)  
[origin: WO2014096162A1] A plug-in pump (1) having a cylinder (2) and having a pump housing (3), wherein the cylinder (2) has a cavity (4) in which a movable piston (5) is accommodated, wherein a first end (5a) of the piston (5) delimits a pump chamber (6), and a second end (5b) of the piston (5) is connected to a drive device for the piston (5), and wherein an inlet valve (7) is arranged in the cylinder (2), which inlet valve connects the pump chamber (6) to a feed line (12) for a first fluid, and an outlet valve (8) which connects the pump chamber (6) to an outlet (8a), wherein the pump housing (3) has a cavity (10) which forms a first chamber (11) which is connected to a feed line (12) for the first fluid, and at least one second chamber (13) which is separated from the first chamber (11) and which is connected to a fluid system of a second fluid, wherein the first chamber (11) is fluidically sealed off with respect to the second chamber (13).

IPC 8 full level  
**F04B 1/04** (2006.01); **F02M 59/02** (2006.01); **F02M 59/44** (2006.01); **F04B 1/053** (2006.01); **F04B 9/04** (2006.01); **F04B 53/16** (2006.01); **F04B 53/18** (2006.01)

CPC (source: EP US)  
**F02M 59/027** (2013.01 - US); **F02M 59/102** (2013.01 - EP US); **F02M 59/442** (2013.01 - EP US); **F04B 1/0421** (2013.01 - EP US); **F04B 1/0439** (2013.01 - EP US); **F04B 1/0448** (2013.01 - EP US); **F04B 1/053** (2013.01 - EP US); **F04B 9/042** (2013.01 - EP US); **F04B 17/05** (2013.01 - US); **F04B 19/22** (2013.01 - US); **F04B 53/10** (2013.01 - US); **F04B 53/14** (2013.01 - US); **F04B 53/16** (2013.01 - EP US); **F04B 53/18** (2013.01 - EP US)

Citation (search report)  
See references of WO 2014096162A1

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)  
**DE 102012224317 A1 20140626**; **DE 102012224317 B4 20150723**; EP 2825773 A1 20150121; EP 2825773 B1 20200617; US 2015345447 A1 20151203; US 9951733 B2 20180424; WO 2014096162 A1 20140626

DOCDB simple family (application)  
**DE 102012224317 A 20121221**; EP 13819023 A 20131219; EP 2013077331 W 20131219; US 201314403649 A 20131219