

Title (en)
DIAPHRAGM CARTRIDGE AND PUMP HAVING A DIAPHRAGM CARTRIDGE

Title (de)
MEMBRANKARTUSCHE UND PUMPE MIT EINER MEMBRANKARTUSCHE

Title (fr)
CARTOUCHE À MEMBRANE ET POMPE COMPRENANT UNE CARTOUCHE À MEMBRANE

Publication
EP 3063409 A2 20160907 (EN)

Application
EP 14799620 A 20141030

Priority
• US 201361898366 P 20131031
• US 2014063200 W 20141030

Abstract (en)
[origin: US2015118078A1] A diaphragm pump includes a diaphragm cartridge assembly. The diaphragm cartridge is a self-contained unit having a diaphragm defining a pumped fluid side and a hydraulic fluid side and a seat receiving the hydraulic fluid side of the diaphragm and having a center opening. A biasing rod mounts to the diaphragm on the hydraulic fluid side and extending through the opening of the seat. A valve guide at an extended end of the biasing rod and a valve spool slidably mounts on the valve guide. A biasing element engages the seat and the valve guide. The pump may also include valve cartridges including a combined inlet check valve and discharge check valve.

IPC 8 full level
F04B 43/067 (2006.01); **F04B 53/22** (2006.01)

CPC (source: CN EP KR US)
F04B 43/067 (2013.01 - CN EP KR US); **F04B 53/006** (2013.01 - KR); **F04B 53/06** (2013.01 - KR); **F04B 53/10** (2013.01 - KR); **F04B 53/22** (2013.01 - CN EP KR US); **F05B 2210/11** (2013.01 - KR)

Citation (search report)
See references of WO 2015066349A2

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

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BA ME

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US 2015118078 A1 20150430; CN 106232989 A 20161214; EP 3063409 A2 20160907; JP 2016537563 A 20161201; KR 20160082519 A 20160708; WO 2015066349 A2 20150507; WO 2015066349 A3 20150820

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