

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)

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Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

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DOCDB simple family (application)

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