

Title (en)
Diaphragm pump

Title (de)
Membranpumpe

Title (fr)
Pompe à membrane

Publication
EP 1712796 A1 20061018 (DE)

Application
EP 05008040 A 20050412

Priority
EP 05008040 A 20050412

Abstract (en)
The pump (1) has two membranes (19,20) with curvatures facing towards or away from each other with their outer edges fixed in the pump housing (11) and their inner edge regions clamped to displaceable piston rods. Two reaction chambers (27,28) formed between the membranes and a cylinder holding the piston (22) are filled with hydraulic medium and are connected by a hydraulic rod.

IPC 8 full level
F04B 43/073 (2006.01); **F04B 9/105** (2006.01)

CPC (source: EP KR US)
F04B 9/113 (2013.01 - EP US); **F04B 43/025** (2013.01 - KR); **F04B 43/073** (2013.01 - KR); **F04B 43/0736** (2013.01 - EP US);
F04B 53/02 (2013.01 - KR); **F04B 53/10** (2013.01 - KR); **F04B 53/14** (2013.01 - KR); **F04B 53/16** (2013.01 - KR); **F05B 2210/11** (2013.01 - KR)

Citation (search report)
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Designated contracting state (EPC)
AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU MC NL PL PT RO SE SI SK TR

Designated extension state (EPC)
AL BA HR LV MK YU

DOCDB simple family (publication)
EP 1712796 A1 20061018; EP 1712796 B1 20070613; AT E364790 T1 20070715; DE 502005000867 D1 20070726; ES 2288711 T3 20080116;
JP 2006291957 A 20061026; JP 3151123 U 20090611; KR 101291316 B1 20130730; KR 20060108217 A 20061017;
US 2006257271 A1 20061116; US 8123500 B2 20120228

DOCDB simple family (application)
EP 05008040 A 20050412; AT 05008040 T 20050412; DE 502005000867 T 20050412; ES 05008040 T 20050412; JP 2006108637 A 20060411;
JP 2009001922 U 20090330; KR 20060031229 A 20060406; US 40058106 A 20060407