

Title (en)
Pump

Title (de)
Pumpe

Title (fr)
Pompe

Publication
EP 2058517 A1 20090513 (EN)

Application
EP 07120132 A 20071107

Priority
EP 07120132 A 20071107

Abstract (en)
A pump comprises a containing body (2) and a closing flange (3) which define an inner chamber (4) containing a lubricant; at least one main chamber (5) communicating with the inner chamber (4) and comprising an intake mouth (6) and a delivery mouth (8) for a fluid; the main chamber (5) comprising a flexible membrane (10) isolating the main chamber (5) and inner chamber (4) from each other and movable between a first operative position further away from the inner chamber (4) and a second operative position closer to the inner chamber (4); and movement means (12) contained at least partly inside the inner chamber (4) and acting on the movable membrane (10) so as to move the movable membrane (10). The pump also comprises sealing means (24) defining in association with said membrane (10) a cavity (25) situated between the inner chamber (4) and the main chamber (5) and able to isolate said cavity (25) from said inner chamber (4); and at least one hole (27) formed in the containing body (2) opposite the cavity (25) for favouring the fluid communication between the cavity (25) and the exterior of the pump.

IPC 8 full level
F04B 43/02 (2006.01)

CPC (source: EP US)
F04B 15/00 (2013.01 - EP); **F04B 39/041** (2013.01 - EP); **F04B 43/02** (2013.01 - EP US)

Citation (applicant)
• US 2007140878 A1 20070621 - SPUDE GAETAN [FR]
• US 3680981 A 19720801 - WAGNER JOSEF

Citation (search report)
• [X] US 2007140878 A1 20070621 - SPUDE GAETAN [FR]
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• [X] US 5165869 A 19921124 - REYNOLDS STEVEN M [US]
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EP2381107A1; CN103688055A; ITPD20100126A1; ITPD20100127A1; DE102015205060A1; WO2013004516A1

Designated contracting state (EPC)
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