

Title (en)
DIAPHRAGM CIRCULATOR

Title (de)
MEMBRANZIRKULATOR

Title (fr)
CIRCULATEUR A MEMBRANE

Publication
EP 1969232 A1 20080917 (FR)

Application
EP 06831180 A 20061128

Priority
• FR 2006002596 W 20061128
• FR 0512182 A 20051130

Abstract (en)
[origin: FR2893991A1] The circulator has an internal circuit with a liquid material intake orifice (2a) and a liquid material discharge orifice (4a). A propulsion chamber has rigid surfaces (9, 10), between which a deformable plane diaphragm (1) is placed. A diaphragm-exciting member is arranged on the side of the orifice (2a) to produce a reciprocating motion on one of edges of the diaphragm to generate a ripple. The diaphragm is associated with generating units generating tension in the diaphragm, where the tension is variable between upper and lower values on the side of the orifices, respectively.

IPC 8 full level
F04B 43/04 (2006.01); **F04B 43/00** (2006.01)

CPC (source: EP US)
F04B 43/0018 (2013.01 - EP US); **F04B 43/0054** (2013.01 - EP); **F04B 43/04** (2013.01 - EP US); **F04B 43/14** (2013.01 - EP US)

Citation (search report)
See references of WO 2007063206A1

Cited by
CN114450221A

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 LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)
FR 2893991 A1 20070601; FR 2893991 B1 20131011; DK 1969232 T3 20160502; EP 1969232 A1 20080917; EP 1969232 B1 20160127; ES 2569358 T3 20160510; JP 2009517594 A 20090430; JP 5335433 B2 20131106; PL 1969232 T3 20160831; WO 2007063206 A1 20070607

DOCDB simple family (application)
FR 0512182 A 20051130; DK 06831180 T 20061128; EP 06831180 A 20061128; ES 06831180 T 20061128; FR 2006002596 W 20061128; JP 2008542792 A 20061128; PL 06831180 T 20061128