

Title (en)

GEAR PUMP AND METHOD OF DELIVERING FLUID USING SUCH A PUMP

Title (de)

GETRIEBEPUMPE UND VERFAHREN ZUR FLÜSSIGKEITSAUSGABE MITTELS EINER SOLCHEN PUMPE

Title (fr)

POMPE A ENGRENAGE ET PROCEDE DE DISTRIBUTION DE FLUIDE UTILISANT UNE TELLE POMPE

Publication

EP 2179181 A2 20100428 (FR)

Application

EP 08828028 A 20080623

Priority

- FR 2008000879 W 20080623
- FR 0705544 A 20070730

Abstract (en)

[origin: WO2009024663A2] The present invention relates to a gear pump capable of delivering a fluid alternately into two separate use circuits without a switch. The gear pump (1) is characterized in that it includes two fluid outlet orifices (5, 6) connected to two fluid use circuits and communicating with the delivery chamber (C) of the pump via integrated switching means (7). These switching means (7) comprise two distribution circuits (50, 60) provided in a fixed plate (70) and two buffer channels (30, 40) provided in the rotary toothed wheels (3), which are designed to open and close said distribution circuits alternately, in a switching cycle corresponding approximately to the rotation of the toothed wheels over a half-turn.

IPC 8 full level

F04C 2/18 (2006.01); **F04C 14/10** (2006.01)

CPC (source: EP US)

F04C 2/084 (2013.01 - EP US); **F04C 14/10** (2013.01 - EP US); **F04C 2/18** (2013.01 - EP US); **Y10T 137/0318** (2015.04 - EP US)

Citation (search report)

See references of WO 2009024663A2

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MT NL NO PL PT RO SE SI SK TR

Designated extension state (EPC)

AL BA MK RS

DOCDB simple family (publication)

FR 2919687 A1 20090206; **FR 2919687 B1 20090925**; AR 067622 A1 20091014; AT E500422 T1 20110315; DE 602008005317 D1 20110414; EP 2179181 A2 20100428; EP 2179181 B1 20110302; JP 2010535307 A 20101118; TW 200928104 A 20090701; US 2010200072 A1 20100812; US 8348637 B2 20130108; WO 2009024663 A2 20090226; WO 2009024663 A3 20090716

DOCDB simple family (application)

FR 0705544 A 20070730; AR P080103144 A 20080721; AT 08828028 T 20080623; DE 602008005317 T 20080623; EP 08828028 A 20080623; FR 2008000879 W 20080623; JP 2010518704 A 20080623; TW 97125164 A 20080704; US 67093308 A 20080623