

Title (en)
Gear pump with flow control

Title (de)
Zahnradpumpe mit Fördermengenregelung

Title (fr)
Pompe à engrenages avec contrôle de débit

Publication
EP 1555436 A3 20060201 (DE)

Application
EP 04030757 A 20041224

Priority
DE 102004002062 A 20040115

Abstract (en)
[origin: EP1555436A2] The pump has a shifting unit changing the delivery between two pressure chambers where a second pressure chamber has a shifting unit having compression spring. The first pressure chamber (10) is connected by a regulating valve (12) and second pressure chamber (11) has a pressure converter (13) connected with the first pressure chamber. The pressure chamber has a maximum pressure-limit defined by a relief valve which is connected with the suction face (E) of the gear pump.

IPC 1-7
F04C 15/04

IPC 8 full level
F04C 2/18 (2006.01); **F04C 14/18** (2006.01)

CPC (source: EP)
F04C 14/185 (2013.01); **F04C 2/18** (2013.01)

Citation (search report)

- [AD] DE 10043842 A1 20010906 - VOLKSWAGEN AG [DE]
- [A] DE 3347015 A1 19850704 - TEVES GMBH ALFRED [DE]
- [AD] DE 10144693 A1 20030327 - VOLKSWAGEN AG [DE]
- [A] DE 1553234 A1 19700319 - TUCHENHAGEN OTTO

Cited by
EP1906020A3; EP2014919A3; DE102007033146B4; EP3173624A3; DE102007033146A1; US8523535B2; EP2154373B1

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

DOCDB simple family (publication)
EP 1555436 A2 20050720; EP 1555436 A3 20060201; EP 1555436 B1 20070815; AT E370330 T1 20070915; DE 102004002062 A1 20050804; DE 502004004632 D1 20070927

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