

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)
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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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