

Title (en)

Fuel pump with capacity control

Title (de)

Kraftstoffhochdruckpumpe mit Fördermengenregelung

Title (fr)

Système de contrôle de capacité d'une pompe à combustible

Publication

EP 1353071 A3 20041103 (DE)

Application

EP 02027253 A 20021206

Priority

DE 10216205 A 20020412

Abstract (en)

[origin: EP1353071A2] The pump has at least two pump elements (3) for delivering fuel into a high-pressure connection (25) and at least one controllable hydraulic connection (29) between two pump elements. The hydraulic connection is controlled by at least one control valve, especially a 2/2-way valve. Several control valves can be arranged in parallel and operated by an actuator, especially an electromagnetic actuator or a piezoelectric actuator.

IPC 1-7

F04B 49/12; **F04B 1/04**

IPC 8 full level

F04B 1/04 (2006.01); **F04B 49/12** (2006.01)

CPC (source: EP US)

F04B 1/0404 (2013.01 - EP US); **F04B 1/063** (2013.01 - EP US); **F04B 49/121** (2013.01 - EP US)

Citation (search report)

- [X] US 3160104 A 19641208 - SEDGWICK BARNARD MARK CARY
- [X] GB 837737 A 19600615 - WM BUTLER & CO BRISTOL LTD, et al
- [A] EP 1101940 A2 20010523 - SIEMENS AUTOMOTIVE CORP LP [US]
- [A] DE 3700997 A1 19870806 - ZAHNRADFABRIK FRIEDRICHSHAFEN [DE]
- [A] DE 1811697 A1 19700611 - VNI K I T I

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR IE IT LI LU MC NL PT SE SI SK TR

DOCDB simple family (publication)

EP 1353071 A2 20031015; **EP 1353071 A3 20041103**; DE 10216205 A1 20031106; DE 10216205 B4 20070405

DOCDB simple family (application)

EP 02027253 A 20021206; DE 10216205 A 20020412