

Title (en)

Fuel pump, in particular for an internal combustion engine with direct injection

Title (de)

Kraftstoffpumpe, insbesondere für eine Brennkraftmaschine mit Direkteinspritzung

Title (fr)

Pompe à carburant notamment pour un moteur à combustion interne et à injection directe

Publication

EP 1361357 A3 20041215 (DE)

Application

EP 03005033 A 20030306

Priority

DE 10220281 A 20020507

Abstract (en)

[origin: EP1361357A2] Fuel pump comprises a housing containing at least one piston driven backward and forward by drive devices, a working chamber partly delimited by the piston, an inlet channel and outlet channel connected to the working chamber, and a first valve arrangement (64) between the working chamber and the inlet channel and a second valve arrangement (74) between the working chamber and the outlet channel. The valve element (62) of one valve arrangement has a guide section (60) at least partly housed in a guide opening (58) formed in the valve element (72) of the other valve arrangement. The peripheral surface of the guide section and/or the guide opening has at least one recess reducing the contact surface between the guide section and the guide opening. An Independent claim is also included for an alternative fuel pump.

IPC 1-7

F02M 59/06; **F02M 59/46**

IPC 8 full level

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CPC (source: EP US)

F02M 59/34 (2013.01 - EP US); **F02M 59/462** (2013.01 - EP US); **F02M 63/0225** (2013.01 - EP US); **F04B 1/0452** (2013.01 - EP US); **F04B 53/1022** (2013.01 - EP US); **F04B 53/109** (2013.01 - EP US); **F02M 2200/315** (2013.01 - EP US); **Y10T 137/7838** (2015.04 - EP US)

Citation (search report)

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DOCDB simple family (application)

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