

Title (en)

Fuel injection system for combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für Brennkraftmaschinen

Title (fr)

Système d'injection de carburant pour moteur à combustion

Publication

**EP 1507082 B1 20080730 (DE)**

Application

**EP 04015171 A 20040629**

Priority

DE 10337574 A 20030814

Abstract (en)

[origin: EP1507082A1] The high-pressure fuel supply (5) is connected (3) to a valve body (31) of a control valve (30). A control piston (70) moves up and down in the valve body and may be controlled by a switching valve (40). It may control a connection (58) to a chamber (26) under a spring-loaded (18) piston (22). The piston acts as a hydraulic amplifier (21) with a smaller diameter piston (23) pressurizing a second chamber (25) connected (51) to the nozzle pressure chamber (14).

IPC 8 full level

**F02M 47/02** (2006.01); **F02M 57/02** (2006.01); **F02M 59/10** (2006.01); **F02M 59/46** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

**F02M 47/025** (2013.01 - EP US); **F02M 57/025** (2013.01 - EP US); **F02M 59/105** (2013.01 - EP US); **F02M 59/46** (2013.01 - EP US); **F02M 63/0005** (2013.01 - EP US); **F02M 63/0029** (2013.01 - EP US)

Cited by

EP1584814A1; WO2008048566A1; US7694891B2; US7568632B2

Designated contracting state (EPC)

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DOCDB simple family (publication)

**EP 1507082 A1 20050216**; **EP 1507082 B1 20080730**; DE 10337574 A1 20050310; DE 502004007716 D1 20080911; US 2005035212 A1 20050217; US 6915785 B2 20050712

DOCDB simple family (application)

**EP 04015171 A 20040629**; DE 10337574 A 20030814; DE 502004007716 T 20040629; US 91034604 A 20040804