

Title (en)

Fuel injection system for internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für Brennkraftmaschinen

Title (fr)

Système d'injection pour moteur à combustion interne

Publication

EP 1491757 B1 20070822 (DE)

Application

EP 04010157 A 20040429

Priority

DE 10328245 A 20030624

Abstract (en)

[origin: EP1491757A1] The device (1) has a fuel injection valve (10) connected to a high-pressure line and a control valve (30) with a valve body (31) with a piston longitudinally movable in a bore. In a first valve position the piston separates a valve chamber from a return or leakage oil system. In a second valve position the valve pressure chamber is relieved of pressure to the return pressure and actuation of the fuel injection valve is initiated. The piston has at least two individual, longitudinally movable control pistons (71,72), each with a control edge (73,74) for both valve settings.

IPC 8 full level

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CPC (source: EP)

F02M 47/025 (2013.01); **F02M 47/027** (2013.01); **F02M 57/025** (2013.01); **F02M 59/105** (2013.01); **F02M 59/46** (2013.01); **F02M 59/466** (2013.01); **F02M 63/0029** (2013.01); **F02M 63/0049** (2013.01); **F02M 63/0225** (2013.01)

Cited by

DE102004040437A1; EP1555427A3; EP1593840A3; US7182070B2

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EP 1491757 A1 20041229; **EP 1491757 B1 20070822**; DE 10328245 A1 20050113; DE 502004004701 D1 20071004

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