

Title (en)
Fuel injection system

Title (de)
Kraftstoffeinspritzsystem

Title (fr)
Système d'injection de combustible

Publication
EP 0757173 A3 19971203 (DE)

Application
EP 96111819 A 19960723

Priority
DE 19527719 A 19950731

Abstract (en)
[origin: EP0757173A2] The system has a pump work chamber arranged above the pump piston in the top dead centre position and is connected to a fuel chamber via holes and at least one injection pressure conduit and at least one injection valve with injector to the combustion chamber of the engine. A spring space is located above the camshaft chamber and at least one lubricating oil chamber in the pump cylinder which is connected to lubricating oil inlet and outlet conduits. Between the pump piston (8) and the pump cylinder (7) in the upward movement direction of the pump piston, one or more, successively arranged ring chambers (20, 21, 22) are arranged. In the bottom dead centre position of the pump piston, the inflow hole of each ring chamber is opened and during the upward movement of the piston the inflow hole is closable. In the individual ring chambers a pressure build-up occurs. The height of each ring chamber is greater than the max stroke of the pump piston.

IPC 1-7
F02M 45/06

IPC 8 full level
F02M 59/26 (2006.01); **F02M 45/06** (2006.01); **F02M 59/44** (2006.01)

CPC (source: EP)
F02M 45/06 (2013.01); **F02M 59/442** (2013.01)

Citation (search report)

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- [A] DE 4029159 A1 19910704 - BOSCH GMBH ROBERT [DE]
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- [A] PATENT ABSTRACTS OF JAPAN vol. 009, no. 098 (M - 375) 27 April 1985 (1985-04-27)

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EP3001023A1; CN112648121A

Designated contracting state (EPC)
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