

Title (en)

High pressure fuel pump for internal combustion engines

Title (de)

Kraftstoffhochdruckpumpe für Brennkraftmaschinen

Title (fr)

Pompe à combustible haute pression pour moteurs à combustion interne

Publication

EP 0713002 B1 20021023 (DE)

Application

EP 95115120 A 19950926

Priority

DE 4441113 A 19941118

Abstract (en)

[origin: EP0713002A1] The HP fuel pump has a reciprocating piston (9) moving in a cylinder sleeve (3). The pressure face (15) of the piston has a profiled recess (37) with a sloping section. This operates together with a control bore (19) to shut off the connection between the pressure side of the piston (17) and the LP supply side (21) of the pump. The relative rotational position of the piston brings a different part of the sloping section in line with the control bore, at different displacements of the piston, ie. the connection to the supply side is cut off at varying parts of the piston cycle. The pump output duct (25) feeds a pressure manifold (27) which feeds the different fuel injectors (31). The piston can have a second control chamber, at a lower level and linked to the control bore at TDC of the piston cycle to provide a controlled cut-off for the pump action. The rotational setting of the piston is via a control sleeve and a control shaft.

IPC 1-7

F02M 59/26; **F02M 63/00**

IPC 8 full level

F02M 59/26 (2006.01); **F02M 63/00** (2006.01); **F02M 63/02** (2006.01); **F02B 3/06** (2006.01)

CPC (source: EP)

F02M 59/265 (2013.01); **F02M 63/0003** (2013.01); **F02M 63/0225** (2013.01); **F02B 3/06** (2013.01)

Cited by

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