

Title (en)

Fuel injection pump

Title (de)

Kraftstoffeinspritzpumpe

Title (fr)

Pompe d'injection de carburant

Publication

EP 0971123 B1 20030507 (DE)

Application

EP 99113205 A 19990708

Priority

DE 19831078 A 19980710

Abstract (en)

[origin: EP0971123A2] A high pressure fuel pump for an IC engine, e.g. for a diesel engine, has a piston (2) driven by a camshaft and with its upper end (5) bounded by the high pressure chamber (3). A duct through the piston links input control ducts (4a,4b) to control the timing of the fuel pulses. The duct has an upper edge (6) and a sloping lower edge (7a) to define the start and closing points of the fuel timing. The rotational setting of the piston varies the closing setting of the pump. A bypass duct (20) provides a controlled bypass flow at the bottom of the sloping duct to provide a controlled termination of the fuel pulse, and hence a reduction in cavitation.

IPC 1-7

F02M 59/26; **F02M 55/00**

IPC 8 full level

F02M 55/00 (2006.01); **F02M 59/26** (2006.01)

CPC (source: EP)

F02M 55/001 (2013.01); **F02M 59/265** (2013.01)

Cited by

EP1598548A1; EP2525076A4; US6991179B2; US7198034B2; WO03054376A1; EP1505294B1

Designated contracting state (EPC)

AT CH DE GB IT LI

DOCDB simple family (publication)

EP 0971123 A2 20000112; **EP 0971123 A3 20010418**; **EP 0971123 B1 20030507**; AT E239868 T1 20030515; DE 19831078 A1 20000113; DE 59905415 D1 20030612

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