

Title (en)
Fuel injection pump.

Title (de)
Kraftstoffeinspritzpumpe.

Title (fr)
Pompe à injection de combustible.

Publication
EP 0406592 B1 19940302 (DE)

Application
EP 90111160 A 19900613

Priority
DE 3922231 A 19890706

Abstract (en)
[origin: US5005548A] A fuel injection pump is proposed in which over a first portion of the supply stroke of the pump piston fuel for the main injection is pumped via a distributor line and a distributor groove into one at a time of a plurality of fuel injection lines. In a second, remaining portion of the pump piston supply stroke, on the same cam flank, fuel is then pre-stored in a reservoir, controlled by a first electrically controlled valve and a second electrically controlled valve and by one of a plurality of longitudinal control grooves, which fuel subsequently, before the beginning of the next main injection determined by the closure of the first electrically controlled valve, is pumped via a second distributor line into the next succeeding injection line.

IPC 1-7
F02M 45/06; **F02M 41/06**

IPC 8 full level
F02M 41/14 (2006.01); **F02D 1/18** (2006.01); **F02M 41/06** (2006.01); **F02M 45/06** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP US)
F02D 1/183 (2013.01 - EP US); **F02M 41/06** (2013.01 - EP US); **F02M 41/063** (2013.01 - EP US); **F02M 45/066** (2013.01 - EP US);
F02M 59/366 (2013.01 - EP US); **F02M 2200/24** (2013.01 - EP US)

Cited by
US6733597B2; EP0643220A1; EP0652394A1

Designated contracting state (EPC)
DE FR GB

DOCDB simple family (publication)
EP 0406592 A2 19910109; **EP 0406592 A3 19910904**; **EP 0406592 B1 19940302**; DE 3922231 A1 19910117; DE 59004733 D1 19940407;
JP 3051138 B2 20000612; JP H03115772 A 19910516; US 5005548 A 19910409

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EP 90111160 A 19900613; DE 3922231 A 19890706; DE 59004733 T 19900613; JP 17762590 A 19900706; US 54212590 A 19900622