

Title (en)

Injection device to inject fuel in a reciprocating internal combustion engine

Title (de)

Einspritzvorrichtung zum Einspritzen von Brennstoff bei einer Hubkolbenbrennkraftmaschine

Title (fr)

Dispositif d'injection pour injecter du combustible dans un moteur à piston à combustion interne

Publication

**EP 0690222 B1 19990804 (DE)**

Application

**EP 94810381 A 19940627**

Priority

EP 94810381 A 19940627

Abstract (en)

[origin: EP0690222A1] The fuel injection device has a difference dosing piston (3) coupled to a drive medium which is under a pressure of 2000 bar and more and a control piston (4), displaced between two end positions by an electrically-operated hydraulic drive. The control piston has guide elements (41,42) for the drive medium, via which the fuel is transferred from the fuel pump (8) to the dosing space (33) and from the dosing space to the engine cylinder (52,53). Pref. the guide elements are provided by channels or bores providing a simultaneous connection with the fuel pump and with the injection jets in a given position. <IMAGE>

IPC 1-7

**F02M 59/32**; **F02M 59/20**

IPC 8 full level

**F02M 47/00** (2006.01); **F02M 57/02** (2006.01); **F02M 59/20** (2006.01); **F02M 59/32** (2006.01)

CPC (source: EP KR)

**F02D 45/00** (2013.01 - KR); **F02M 59/205** (2013.01 - EP); **F02M 59/32** (2013.01 - EP)

Cited by

EP0982492A3; CN110748447A

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DE DK FR IT NL

DOCDB simple family (publication)

**EP 0690222 A1 19960103**; **EP 0690222 B1 19990804**; CN 1057818 C 20001025; CN 1118411 A 19960313; DE 59408588 D1 19990909; DK 0690222 T3 19991206; FI 106973 B 20010515; FI 953161 A0 19950626; FI 953161 A 19951228; JP 3597910 B2 20041208; JP H0842423 A 19960213; KR 100364070 B1 20030226; KR 960001449 A 19960125

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