

Title (en)

Apparatus for injecting fuel in a reciprocating internal combustion engine

Title (de)

Vorrichtung zum Einspritzen von Brennstoff für eine Hubkolbenbrennkraftmaschine

Title (fr)

Dispositif d'injection de combustible dans un moteur à combustion interne à piston alternatif

Publication

**EP 0982492 A3 20021120 (DE)**

Application

**EP 99810617 A 19990712**

Priority

- EP 99810617 A 19990712
- EP 98810854 A 19980828

Abstract (en)

[origin: EP0982492A2] The fuel injection device has a dosing piston (1), an associated control device (2) and a control valve (3) for feeding the fuel to at least one fuel injection jet (5). The dosing piston is provided as a pressure amplifier with a stepped piston, with an electrically regulated hydraulic system controlling the pressure amplifier and the control valve. An independent claim for a reciprocating piston engine with a fuel injection device is also included.

IPC 1-7

**F02M 59/10**; **F02M 63/00**

IPC 8 full level

**F02M 59/32** (2006.01); **F02M 47/00** (2006.01); **F02M 59/10** (2006.01); **F02M 59/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR)

**F02M 59/105** (2013.01 - EP); **F02M 59/32** (2013.01 - KR); **F02M 63/0005** (2013.01 - EP)

Citation (search report)

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- [A] US 3941282 A 19760302 - FENNE IVOR
- [Y] GB 1522954 A 19780831 - CAV LTD
- [A] US 4541385 A 19850917 - EHEIM FRANZ [DE], et al
- [Y] PATENT ABSTRACTS OF JAPAN vol. 010, no. 130 (M - 478) 14 May 1986 (1986-05-14)

Cited by

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**EP 99810617 A 19990712**; CN 99118325 A 19990827; DE 59914703 T 19990712; DK 99810617 T 19990712; JP 18533599 A 19990630; KR 19990035806 A 19990827; PL 33458699 A 19990723