

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 B1 20080326 (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 8 full level

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

JP S60162021 A 19850823 - KAWASAKI HEAVY IND LTD

Cited by

KR100743208B1; EP2410168A1; CN104879258A; DE19939422A1; US7588012B2; WO02055871A3; US10344686B2; US10400683B2; US10400682B2; EP3252291B1

Designated contracting state (EPC)

DE DK FR

DOCDB simple family (publication)

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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