

Title (en)

Fuel injection system for an internal combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Système d'injection de carburant pour un moteur à combustion interne

Publication

EP 1296060 A3 20040512 (DE)

Application

EP 02018834 A 20020823

Priority

DE 10146740 A 20010922

Abstract (en)

[origin: EP1296060A2] The device has a fuel tank (16), a high pressure fuel pump (14), a feed pump (12) for feeding fuel from the tank to the suction side of the high pressure pump, a fuel dosing device (44) for setting the quantity of fuel fed into the tank by the high pressure pump and at least one injector (20) for injecting fuel into the engine. The dosing device is arranged between the fuel tank and the suction side of the feed pump.

IPC 1-7

F04B 49/22; F02M 59/34; F02M 63/02; F02D 41/32

IPC 8 full level

F02M 37/00 (2006.01); **F02D 41/32** (2006.01); **F02M 59/34** (2006.01); **F02M 63/02** (2006.01); **F04B 23/04** (2006.01); **F04B 49/22** (2006.01)

CPC (source: EP US)

F04B 23/04 (2013.01 - EP US); **F04B 49/225** (2013.01 - EP US)

Citation (search report)

- [AD] DE 19853103 A1 20000525 - BOSCH GMBH ROBERT [DE]
- [A] WO 9851921 A1 19981119 - MAGNETI MARELLI FRANCE [FR], et al
- [A] US 6024064 A 20000215 - KATO MASAOKI [JP], et al
- [A] EP 0299337 A2 19890118 - IVECO FIAT [IT], et al
- [A] EP 0270720 A1 19880615 - RENAULT [FR]

Cited by

US7861693B2; DE102007039893B4; DE102006039882B3; EP1408388A1; DE102007004605B4; DE102006018164B3; DE102005059830B3; EP1798409A3; DE102009037407A1; DE102007004605A1; DE102009009618A1; US8371267B2; DE102007039893A1; WO2008023031A1; WO2006134002A1; WO2007093554A1; DE102008055935A1; US8651089B2; EP1798409A2; DE102009058841A1; DE102007039892A1; US8312862B2; DE102008055747A1; US8635989B2; DE102009057403A1; DE102007056418A1

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DOCDB simple family (application)

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