

Title (en)

Fuel system for supplying fuel for an internal combustion engine

Title (de)

Kraftstoffsystem zum Zuliefern von Kraftstoff für eine Brennkraftmaschine

Title (fr)

Système de combustible pour amener du combustible pour un moteur à combustion interne

Publication

**EP 1262658 A3 20030409 (DE)**

Application

**EP 02011015 A 20020517**

Priority

DE 10125942 A 20010529

Abstract (en)

[origin: EP1262658A2] The fuel injection system has a low pressure fuel pump (20) coupled to the fuel tank (16). There is a high pressure fuel pump (40) supplying at least one fuel injection device (52). A non-return valve (26) is incorporated in the fuel line (24) between the low pressure and high pressure fuel pumps, with a leakage line (64) between the high pressure fuel pump and the fuel tank containing a hydraulically-operated blocking valve (66), controlled by the pressure in the latter fuel line in front of the non-return valve. An Independent claim for an engine for an automobile provided with a fuel injection system is also included.

IPC 1-7

**F02M 63/02**; **F02M 69/46**; **F02D 41/06**; **F02M 37/20**

IPC 8 full level

**F02M 37/00** (2006.01); **F02D 41/06** (2006.01); **F02M 37/04** (2006.01); **F02M 37/10** (2006.01); **F02M 37/20** (2006.01); **F02M 55/02** (2006.01); **F02M 55/04** (2006.01); **F02M 63/02** (2006.01); **F02M 69/00** (2006.01); **F02M 69/46** (2006.01)

CPC (source: EP)

**F02M 55/025** (2013.01); **F02M 55/04** (2013.01); **F02M 63/0225** (2013.01); **F02M 37/20** (2013.01)

Citation (search report)

- [A] US 5558068 A 19960924 - KUNISHIMA AKIRA [JP], et al
- [A] US 6209522 B1 20010403 - ONISHI YOSHIHIKO [JP], et al
- [A] US 4318379 A 19820309 - KNORRECK PETER
- [A] PATENT ABSTRACTS OF JAPAN vol. 1997, no. 10 31 October 1997 (1997-10-31)

Cited by

DE102010027789A1; GB2507747A; GB2507747B; DE10305372B4; EP1990531A4; US8960161B2; WO2007068521A1; US7370519B2; US7527035B2; WO2007009829A1; WO2004070183A1

Designated contracting state (EPC)

AT BE CH CY DE DK ES FI FR GB GR IE IT LI LU MC NL PT SE TR

DOCDB simple family (publication)

**EP 1262658 A2 20021204**; **EP 1262658 A3 20030409**; **EP 1262658 B1 20040804**; DE 10125942 A1 20021212; DE 50200730 D1 20040909; JP 2002364474 A 20021218

DOCDB simple family (application)

**EP 02011015 A 20020517**; DE 10125942 A 20010529; DE 50200730 T 20020517; JP 2002154233 A 20020528