

Title (en)
NON-RETURN FUEL SUPPLY SYSTEM

Title (de)
RÜCKLAUFFREIES KRAFTSTOFFVERSORGUNGSSYSTEM

Title (fr)
SYSTEME D'ALIMENTATION EN CARBURANT SANS REFLUX

Publication
EP 1576272 A1 20050921 (DE)

Application
EP 03799428 A 20030711

Priority
• DE 0302336 W 20030711
• DE 10257280 A 20021207
• DE 10327562 A 20030618

Abstract (en)
[origin: WO2004053318A1] The invention relates to a non-return fuel supply system (1) for an internal combustion engine, in particular in a motor vehicle, comprising at least one fuel pump (8), by means of which the fuel may be pumped from a first region (2) of a fuel tank into a pressurised region (12), connected to a fuel distributor (18), at least one suction jet pump (38) through which fuel supplied by the fuel pump (8) along a suction jet pump line (34) flows, by means of which fuel may be supplied from a second region (4) of the fuel tank into the first region (2), at least one means (20, 24, 30), for regulating and/or controlling the pressure in the pressurised region (12) and at least one non-return valve (14), by means of which at least a part of the pressurised region (12) may be sealed off from the fuel pump (8). According to the invention, the means (20, 24, 30) for regulation and/or control of the pressure in the pressurised region contains at least one electrically operated solenoid valve (40; 44), arranged downstream of the non-return valve (14) in the suction jet pump line (34).

IPC 1-7
F02D 41/38; **F02M 37/12**

IPC 8 full level
F02D 41/38 (2006.01); **F02M 37/02** (2006.01); **F02M 37/10** (2006.01); **F02M 37/08** (2006.01)

CPC (source: EP US)
F02D 41/3836 (2013.01 - EP US); **F02M 37/025** (2013.01 - EP US); **F02M 37/106** (2013.01 - EP US); **F02M 2037/087** (2013.01 - EP US)

Citation (search report)
See references of WO 2004053318A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
WO 2004053318 A1 20040624; BR 0307288 A 20041228; DE 50305995 D1 20070125; EP 1576272 A1 20050921; EP 1576272 B1 20061213; US 2005175488 A1 20050811; US 7275524 B2 20071002

DOCDB simple family (application)
DE 0302336 W 20030711; BR 0307288 A 20030711; DE 50305995 T 20030711; EP 03799428 A 20030711; US 50959104 A 20040929