

Title (en)

ELECTRICALLY CONTROLLED FUEL SUPPLY PUMP FOR INTERNAL COMBUSTION ENGINE

Title (de)

ELEKTRISCH GESTEUERTE KRAFTSTOFFEINSPRITZPUMPE FÜR BRENNKRAFTMASCHINEN

Title (fr)

POMPE D'ALIMENTATION EN CARBURANT COMMENDEE ELECTRIQUEMENT, POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 1105633 A1 20010613 (FR)**

Application

**EP 99929467 A 19990709**

Priority

- FR 9901689 W 19990709
- FR 9808992 A 19980713

Abstract (en)

[origin: FR2781012A1] The invention concerns a pump (1) with an electric motor pumping fuel in a fuel tank (3) and supplying a ramp (8) of injectors (9) aided by a fuel pressure regulator (7). The pump (1) motor is controlled by a control unit (4) for adjusting the pump (1) output pressure, evaluated by a relationship between said pressure and at least a mean current of the pump (1) motor, at an objective pressure level determined by the control unit (4) and selected higher than the operating pressure of the regulator (7), such as a pressure-reducing valve, and whereof the pressure characteristic is known to the control unit (4). The invention is useful for supplying fuel to direct or indirect injection engines in motor vehicles.

IPC 1-7

**F02D 41/30**; **F02M 37/10**

IPC 8 full level

**F02M 37/08** (2006.01); **F02D 41/30** (2006.01); **F02D 41/32** (2006.01); **F02M 37/10** (2006.01)

CPC (source: EP US)

**F02D 41/3082** (2013.01 - EP US); **F02M 37/106** (2013.01 - EP US)

Citation (search report)

See references of WO 0003135A1

Cited by

DE10224094A1; DE10224094B4; EP1262410A1

Designated contracting state (EPC)

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

DOCDB simple family (publication)

**FR 2781012 A1 20000114**; **FR 2781012 B1 20010216**; BR 9912063 A 20010403; CN 1096555 C 20021218; CN 1308710 A 20010815; DE 69901190 D1 20020508; DE 69901190 T2 20021128; EP 1105633 A1 20010613; EP 1105633 B1 20020403; ES 2174619 T3 20021101; JP 2002520537 A 20020709; PL 344830 A1 20011119; US 6453878 B1 20020924; WO 0003135 A1 20000120

DOCDB simple family (application)

**FR 9808992 A 19980713**; BR 9912063 A 19990709; CN 99808477 A 19990709; DE 69901190 T 19990709; EP 99929467 A 19990709; ES 99929467 T 19990709; FR 9901689 W 19990709; JP 2000559343 A 19990709; PL 34483099 A 19990709; US 74360101 A 20010111