

Title (en)

System for supplying an automotive internal combustion engine with fuel and method for regulating the fuel pressure of such an engine

Title (de)

System zur Versorgung die Brennkraftmaschine eines Kraftfahrzeuges mit Kraftstoff und Kraftstoffdruckregelverfahren für eine solche Brennkraftmaschine

Title (fr)

Système d'alimentation en carburant d'un moteur thermique automobile et procédé de régulation de la pression du carburant d'un tel moteur

Publication

**EP 1637723 A1 20060322 (FR)**

Application

**EP 05300739 A 20050909**

Priority

FR 0409948 A 20040921

Abstract (en)

The system has a fuel pump driven by an electric motor (34), an electronic circuit board (24) to regulate electric motor supply current, and an electric motor supply current measuring unit (40). The regulating unit regulates rotating speed of the motor by regulating the motor supply current about a desired value of supply current representative of a fuel pressure level downstream the pump. An independent claim is also included for a method to regulate fuel supply pressure of an internal combustion engine.

IPC 8 full level

**F02D 41/30** (2006.01); **F02D 41/38** (2006.01); **F02M 37/08** (2006.01)

CPC (source: EP)

**F02D 41/3082** (2013.01)

Citation (applicant)

- US 4756291 A 19880712 - CUMMINS JAMES M [US], et al
- EP 0644322 A1 19950322 - SIEMENS AUTOMATIVE L P [US]
- WO 9827333 A1 19980625 - SIEMENS AUTOMOTIVE CORP LP [US]
- US 6609501 B2 20030826 - DOANE KIRK D [US], et al
- US 5842454 A 19981201 - MIWA MAKOTO [JP], et al

Citation (search report)

- [X] US 6453878 B1 20020924 - MAZET HENRI [FR]
- [DX] US 6609501 B2 20030826 - DOANE KIRK D [US], et al
- [DXA] US 5842454 A 19981201 - MIWA MAKOTO [JP], et al
- [X] PATENT ABSTRACTS OF JAPAN vol. 006, no. 150 (M - 148) 10 August 1982 (1982-08-10)

Cited by

US10221801B2; CN107532586A; KR20170136622A; CN107002575A; CN108087134A; US10232704B2; WO2014059242A1; US9528519B2; US10794319B2; WO2016173980A1

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**EP 1637723 A1 20060322; EP 1637723 B1 20070822**; AT E371104 T1 20070915; DE 602005002102 D1 20071004; DE 602005002102 T2 20080521; FR 2875544 A1 20060324; FR 2875544 B1 20090515

DOCDB simple family (application)

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