

Title (en)

FUEL SYSTEM FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFSYSTEM FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

SYSTEME DE CARBURANT POUR UN MOTEUR A COMBUSTION INTERNE

Publication

**EP 1799999 A1 20070627 (DE)**

Application

**EP 05791897 A 20050824**

Priority

- EP 2005054148 W 20050824
- DE 102004048598 A 20041006
- DE 102005033636 A 20050719

Abstract (en)

[origin: WO2006037693A1] The invention relates to fuel system (100) for an internal combustion engine, which is provided with a fuel pump (7) that delivers fuel from a low pressure zone (4, 6) to a high pressure zone (8, 9). A metering device (102) varies the volume flow arriving at the fuel pump (7). A pressure control device (24) limits the pressure in the high pressure zone (8, 9) and is provided with a valve element (42) which is impinged upon at one end by a spring and at the other end by the pressure prevalent in the high pressure zone (8, 9). The system is also provided with a coupling device (106) which mechanically couples an actuator (21) of the metering device (102) at least temporarily and at least indirectly to the pressure control device (24). The invention is characterized in that the coupling device (106) impinges, at least indirectly, the valve element (42) of the pressure control device (24) with a force effective in the direction of opening of the pressure control device (24) when the metering device (102) is closed or almost closed.

IPC 8 full level

**F02M 63/02** (2006.01); **F02M 59/34** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

**F02M 59/34** (2013.01); **F02M 63/0017** (2013.01); **F02M 63/004** (2013.01); **F02M 63/0049** (2013.01); **F02M 63/005** (2013.01); **F02M 63/0052** (2013.01); **F02M 63/0225** (2013.01)

Citation (search report)

See references of WO 2006037693A1

Designated contracting state (EPC)

DE FR IT

DOCDB simple family (publication)

**WO 2006037693 A1 20060413**; DE 102005033636 A1 20060420; DE 502005008841 D1 20100225; EP 1799999 A1 20070627; EP 1799999 B1 20100106

DOCDB simple family (application)

**EP 2005054148 W 20050824**; DE 102005033636 A 20050719; DE 502005008841 T 20050824; EP 05791897 A 20050824