

Title (en)

METHOD FOR CONTROLLING A FUEL SUPPLYING DEVICE OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUM STEuern EINER KRAFTSTOFFZUFÜHREINRICHTUNG EINER BRENNKRAFTMASCHINE

Title (fr)

PROCEDE DE REGULATION DU DISPOSITIF D'ALIMENTATION EN CARBURANT D'UN MOTEUR A COMBUSTION INTERNE

Publication

EP 1733129 B1 20091014 (DE)

Application

EP 05716772 A 20050223

Priority

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Abstract (en)

[origin: WO2005098221A2] Disclosed is a fuel supplying device of an internal combustion engine, comprising a low-pressure circuit, a high-pressure pump whose input end is coupled to the low-pressure circuit and which conveys fuel into a fuel reservoir, a volume flow control valve that is assigned to the high-pressure pump, and an electromechanical pressure regulator which is effectively connected to the fuel reservoir and the low pressure circuit and can direct fuel from the fuel reservoir into the low-pressure circuit. Said fuel supplying device further comprises a regulating mechanism which generates an actuation signal for the volume flow control valve by means of a first controller in a first mode of operation (VC) while generating an actuation signal for the electromechanical pressure regulator with the aid of a second controller in a second mode of operation (PC). The mode of operation of the fuel supplying mechanism is switched in accordance with a fuel pressure error value (FUP ERR) resulting from a detected fuel pressure and a predefined fuel pressure. The mode of operation of the fuel supplying device can additionally be switched according to the throughput (MFF PUMP) of the high-pressure pump.

IPC 8 full level

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