

Title (en)

METHOD AND SYSTEM FOR CONTROLLING PRESSURE IN A HIGH PRESSURE FUEL PUMP SUPPLYING AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND SYSTEM ZUR DRUCKREGELUNG EINER HOCHDRUCKKRAFTSTOFFPUMPE FÜR DIE KRAFTSTOFFVERSORGUNG EINES VERBRENNUNGSMOTORS

Title (fr)

PROCEDE ET SYSTEME DE CONTROLE DE LA PRESSION D'UNE POMPE A CARBURANT A HAUTE PRESSION POUR L'ALIMENTATION D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Abstract (en)

[origin: FR2790283A1] The invention concerns a method and a system for controlling pressure in the high pressure circuit (22) downstream of the pump (11) which consists in monitoring the solenoid (18) on the pump intake (11) so that the fuel mass discharged by the pump (11) into the circuit (22) is equal to the algebraic sum of a fuel volume to be injected into the engine (1) and a fuel volume required to compensate at least partially a pressure difference between the fuel pressure measured by the sensor (4) in the circuit (22) and an objective pressure desired by the control unit (5) in said circuit (22). The invention is useful for controlling pressure for direct fuel injection into engines, in particular with spark ignition.

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