Title (en)

CONTROL AND REGULATION METHOD FOR AN INTERNAL COMBUSTION ENGINE HAVING A COMMON RAIL SYSTEM

Title (de)

STEUERUNG- UND REGELUNGSVERFAHREN FÜR EINE BRENNKRAFTMASCHINE MIT EINEM COMMON-RAILSYSTEM

Title (fr)

PROCÉDÉ DE COMMANDE ET DE RÉGULATION D'UN MOTEUR À COMBUSTION INTERNE ÉQUIPÉ D'UN SYSTÈME À RAMPE COMMUNE

Publication

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Application

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Abstract (en)

[origin: WO2010057587A1] The invention relates to a control and regulation method for an internal combustion engine (1) having a common rail system wherein the rail pressure (pCR) is regulated in normal operation in that an offset of the rail pressure (pCR) is calculated and a PWM signal (PWM) is determined for activating the control process via a pressure controller based on the offset, wherein a load rejection when the rail pressure (pCR) exceeds a limit and wherein upon recognition of the load rejection, the rail pressure (pCR) is controlled in that the PWM signal (PWM) is temporarily set to a PWM value that is higher compared to normal operation via a PWM parameter. The invention is characterized in that the threshold for activation of the temporary PWM parameter is calculated in dependence on the gradient of a power-determining signal.

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