

Title (en)
METHOD FOR THE CONTROL AND REGULATION OF AN INTERNAL COMBUSTION ENGINE

Title (de)
VERFAHREN ZUR STEUERUNG UND REGELUNG EINER BRENNKRAFTMASCHINE

Title (fr)
PROCÉDÉ POUR COMMANDER ET RÉGULER UN MOTEUR À COMBUSTION INTERNE

Publication
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Application
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Abstract (en)
[origin: WO2011050920A1] Disclosed is a method for the control and regulation of an internal combustion engine (1), comprising an independent common rail system on the A-side and an independent common rail system on the B-side. During normal operation, the rail pressure (pCR(A), pCR(B)) is controlled in each common rail system via a low pressure-side suction throttle (4A, 4B) as the first pressure-adjusting element in a rail pressure control loop and, at the same time, the rail pressure (pCR(A), pCR(B)) is subjected to a rail pressure disturbance variable via a high pressure-side pressure control valve (11A, 11B) as a second pressure-adjusting element, by means of which a pressure control valve volume flow is redirected via the high pressure-side pressure control valve (11A, 11B) from the rail (6A, 6B) into a fuel tank (2). The method is characterized in that a first emergency operation is implemented for the common rail system in question when a defective rail pressure sensor (8A, 8B) and a non-defective pressure control valve (11A, 11B) have been detected in said common rail system, while a second emergency operation is implemented for the common rail system in question when a defective rail pressure sensor (8A, 8B) and simultaneously a defective pressure control valve (11A, 11B) have been detected in said common rail system, and wherein the normal operation is implemented for the other, non-defective common rail system.

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