

Title (en)

CONTROL AND REGULATION METHOD OF THE FUEL PRESSURE OF A COMMON-RAIL OF A COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR STEUERUNG UND REGELUNG DES KRAFTSTOFFSDRUCKES EINES COMMON-RAILS EINER BRENNKRAFTMASCHINE

Title (fr)

MÉTHODE DE CONTRÔLE ET DE RÉGULATION DE LA PRESSION DU CARBURANT D'UN RAIL COMMUN D'UN MOTEUR À COMBUSTION

Publication

**EP 2449242 B1 20200729 (DE)**

Application

**EP 10732642 A 20100617**

Priority

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Abstract (en)

[origin: WO2011000478A1] Proposed is a method for controlling and regulating an internal combustion engine (1), in which the rail pressure (pCR) is controlled via a suction throttle (4) on the low pressure side as a first pressure-adjusting element in a rail pressure control loop. The invention is characterized in that a rail pressure disturbance variable (VDRV) is generated in order to influence the rail pressure (pCR) via a pressure control valve (12) on the high pressure side as a second pressure-adjusting element, by means of which fuel is redirected in a controlled manner from the rail (6) into a fuel tank (2), the rail pressure disturbance variable (VDRV) being calculated using a corrected target volume flow (V<sub>k</sub>(SL)) of the pressure control valve (12).

IPC 8 full level

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