

Title (en)
COMMON RAIL SYSTEM, INTERNAL COMBUSTION ENGINE, AND DEVICE AND METHOD FOR CONTROLLING AND/OR REGULATING AN INTERNAL COMBUSTION ENGINE

Title (de)
COMMON-RAIL-SYSTEM, BRENNKRAFTMASCHINE SOWIE EINRICHTUNG UND VERFAHREN ZUR STEUERUNG UND/ODER REGELUNG EINER BRENNKRAFTMASCHINE

Title (fr)
SYSTÈME À RAMPE COMMUNE D'INJECTION DE CARBURANT, MOTEUR À COMBUSTION INTERNE, ET DISPOSITIF ET PROCÉDÉ DE COMMANDE ET/OU DE RÉGULATION D'UN MOTEUR À COMBUSTION INTERNE

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Abstract (en)
[origin: WO2013023758A1] The invention relates to a common rail system (100) for an internal combustion engine (1), comprising: a rail (6) for fuel and an injector (8) that is fluidically connected via a high-pressure guide and used to inject the fuel into a working chamber of the internal combustion engine (1), the high-pressure guide comprising a high-pressure component with a single accumulator (7), and the high-pressure guide and/or the rail (6) comprising a pressure-measuring device (10, 20, 30). According to the invention, the pressure-measuring device is coupled to a local logic and storage unit (AE, ACR, AI) of a decentrally distributed local electronics system (12), which is designed to locally evaluate and store measurement data from the pressure-measurement device, more particularly injector data and/or rail data, and the pressure-measurement device is connected to the central electronics system (9) via the local logic and storage unit (AE, ACR, AI) by means of a bus, and the local logic and storage unit (AE, ACR, AI) is designed, in conjunction with the central electronics system (9), for controlling and/or regulating the common rail system (100) for the internal combustion engine (1).

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