

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

Publication  
**EP 2748450 B1 20160622 (DE)**

Application  
**EP 12746284 A 20120808**

Priority  
• DE 102011080990 A 20110816  
• EP 2012003379 W 20120808

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).

IPC 8 full level  
**F02D 41/26** (2006.01); **F02D 41/38** (2006.01)

CPC (source: EP US)  
**F02D 41/26** (2013.01 - EP US); **F02D 41/3809** (2013.01 - EP US); **F02M 55/025** (2013.01 - US)

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**DE 102011080990 B3 20130124**; CN 103946524 A 20140723; CN 103946524 B 20170215; EP 2748450 A1 20140702;  
EP 2748450 B1 20160622; HK 1200201 A1 20150731; US 2014209065 A1 20140731; US 9617962 B2 20170411; WO 2013023758 A1 20130221

DOCDB simple family (application)  
**DE 102011080990 A 20110816**; CN 201280040111 A 20120808; EP 12746284 A 20120808; EP 2012003379 W 20120808;  
HK 15100602 A 20150120; US 201214238990 A 20120808