

Title (en)  
COMMON RAIL SYSTEM

Title (de)  
COMMON-RAIL-SYSTEM

Title (fr)  
SYSTÈME COMMON RAIL

Publication  
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Application  
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Abstract (en)  
[origin: WO2014029676A1] The invention relates to a common rail system (CRS) for an internal combustion engine of a vehicle, comprising a high-pressure pump (HP) which delivers highly pressurized fuel to a high-pressure accumulator (R), from which the fuel is fed to at least one injection valve (Inj) of the internal combustion engine, a low-pressure pump (NP) for conveying fuel from a fuel container (KB) via a conveying line (L2) to the high-pressure pump (HP), a flow control valve as an electromagnetic switching valve which is arranged in the conveying line (L2) for controlling the fuel quantity which is fed by the high-pressure pump (HP) to the high-pressure accumulator (R); it is provided according to the invention that the flow control valve is configured as a ball seat valve (VNO) with an inlet opening (1d) which is connected to the low-pressure pump (NP) and an outlet opening (1e) which is connected to the high-pressure pump (HP), which ball seat valve (VNO) is open in the de-energized state.

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Citation (examination)  
• DE 10251014 A1 20040519 - BOSCH GMBH ROBERT [DE]  
• DE 4041377 A1 19910704 - AISIN AW CO [JP]  
• DE 69917552 T2 20050616 - EATON MONACO [MC]

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