

Title (en)  
FUEL SUPPLY SYSTEM FOR HEAVY OIL COMMON RAIL INJECTION SYSTEMS

Title (de)  
KRAFTSTOFFVERSORGUNGSANLAGE FÜR COMMON-RAIL SCHWERÖL-EINSPRITZSYSTEME

Title (fr)  
INSTALLATION D'ALIMENTATION EN CARBURANT POUR SYSTÈMES D'INJECTION D'HUILE LOURDE À RAMPE COMMUNE

Publication  
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Application  
**EP 09740623 A 20091008**

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Abstract (en)  
[origin: WO2010040163A2] The invention relates to a fuel supply system for heavy oil common rail injection systems for internal combustion engines, comprising a reservoir (1), a primary feed pump (3) for delivering heavy oil from the reservoir (1) to a high-pressure pump (5), said high-pressure pump (5) being connected to a high-pressure accumulator (rail) (6) via at least one high-pressure line (12), said high-pressure accumulator supplying at least one injector (8), and also to a purge valve (9) which is connected to the high-pressure accumulator via a separate high-pressure line (15) to control at least a partial quantity of the heavy oil to be fed back to the reservoir (1) via a return line. The purge valve (9) comprises a valve element (28) which can be displaced between an open and a closed position, a high-pressure connection for a high-pressure line (15) which communicates with a heavy oil high-pressure accumulator (rail) (6), a low pressure connection for a return line and actuators for actuating the valve element (28), the valve seat (29) of the valve element (28) being designed as a sliding seat.

IPC 8 full level  
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