

Title (en)
METHOD FOR SUPPLYING A HIGH-PRESSURE PUMP IN A FUEL INJECTION SYSTEM OF AN INTERNAL COMBUSTION ENGINE WITH FUEL AND FUEL INJECTION SYSTEM

Title (de)
VERFAHREN ZUR VERSORGUNG EINER HOCHDRUCKPUMPE IN EINEM KRAFTSTOFFEINSPRITZSYSTEM EINER BRENNKRAFTMASCHINE MIT KRAFTSTOFF SOWIE KRAFTSTOFFEINSPRITZSYSTEM

Title (fr)
PROCÉDÉ D'ALIMENTATION D'UNE POMPE HAUTE PRESSION EN CARBURANT DANS UN SYSTÈME D'INJECTION DE CARBURANT D'UN MOTEUR À COMBUSTION INTERNE ET SYSTÈME D'INJECTION DE CARBURANT

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Application
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Abstract (en)
[origin: WO2011098305A1] The invention relates to a method for supplying a high-pressure pump (1) in a fuel injection system of an internal combustion engine with fuel, wherein for delivery and for controlling the delivered quantity a delivery pump (3) is used, wherein said delivery pump is arranged in a low-pressure circuit (2) and operated by an electric motor and by means of which, depending on the respective selected engine speed, a certain quantity of fuel is fed to the high-pressure pump (1), in which the fuel is first compressed and then fed to a fuel high-pressure accumulator (4). According to the invention, the fuel pressure on the intake side of the high-pressure pump (1) is controlled by means of a pressure control valve (5), wherein a supply of the high-pressure pump (1) with fuel for lubrication and/or cooling via the low-pressure circuit (2) and the delivery pump (3) is assured when the pressure control valve (5) is in the closed position. The invention further relates to a fuel injection system.

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