

Title (en)

METHOD FOR VENTING A FUEL SUPPLY LINE, AND INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN ZUR ENTLÜFTUNG EINER KRAFTSTOFFVERSORGUNGSLEITUNG UND BRENNKRAFTMASCHINE

Title (fr)

PROCÉDÉ DE PURGE D'AIR D'UN CONDUIT D'ALIMENTATION EN CARBURANT ET MOTEUR À COMBUSTION INTERNE

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Application

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Abstract (en)

[origin: WO2014139643A1] The invention relates to a method for venting a fuel supply line (11) of a direct-injection internal combustion engine, wherein the fuel supply line (11) has an injector (3), a high-pressure storage means (15) upstream of the injector (3), a quantity-limiting valve (17) between the high-pressure storage means (15) and the injector (3) for limiting a quantity of fuel flowing from the high-pressure storage means (15) to the injector (3), and a high-pressure pump (19) upstream of the high-pressure storage means (15) for delivering fuel to the high-pressure storage means (15), wherein a pressure in the high-pressure storage means (15) is regulated by means of an intake throttle (21) which is arranged upstream of the high-pressure pump (19). In this case, provision is made for the fuel supply line (11) to be vented downstream of the high-pressure pump (19), wherein a passage cross section, which is smaller than or equal to a predetermined limit passage cross section, for the fuel is set in the intake throttle (21) during a venting operation.

IPC 8 full level

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