

Title (en)
DEVICE FOR FEEDING FUEL FROM A RESERVOIR TO AN INTERNAL COMBUSTION ENGINE AND METHOD FOR DETECTING PRESSURE

Title (de)
VORRICHTUNG ZUM FÖRDERN VON KRAFTSTOFF AUS EINEM VORRATSBEHÄLTER ZU EINER BRENNKRAFTMASCHINE UND VERFAHREN ZUR DRUCKERFASSUNG

Title (fr)
DISPOSITIF POUR TRANSPORTER DU CARBURANT D'UN RESERVOIR VERS UN MOTEUR A COMBUSTION INTERNE ET PROCEDE POUR DETECTER LA PRESSION

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Application
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Abstract (en)
[origin: WO2005052349A1] Known devices comprise a feed pump, a pressure line leading from said feed pump to the internal combustion engine, a check valve and a pressure sensor linked with the pressure line. The pressure sensor is mounted on a so-called fuel rail and detects the pressure in the fuel rail and in the pressure line. A so-called tank leak diagnosis requires an additional pressure sensor in the reservoir. The aim of the invention is to simplify said device in that a single pressure sensor is provided for detecting the pressure in the pressure line and in the reservoir. According to the invention, the pressure sensor (23) is functionally linked with the pressure line (8) downstream of the feed pump (3) and upstream of the check valve (16). The signal measured by the pressure sensor (23) is used as a regulating variable for regulating the feed pump (3) and/or for leak diagnosis in the pressure line (8) and or for tank leak diagnosis.

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