

Title (en)
VAPOURIZER APPARATUS.

Title (de)
VERDAMPFUNGSVORRICHTUNG.

Title (fr)
APPAREIL DE VAPORISATION.

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Application
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Priority
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Abstract (en)
[origin: WO9404813A1] A vaporizer apparatus having a housing assembly (10) including a fuel inlet chamber (11) fed by an inlet solenoid valve (13). A valve member (16) closes a delivery passage (15) from the fuel inlet chamber (11) to a heat exchange chamber (20) comprising a primary heat exchange portion (21) and a delivery portion (22), divided by a gas/liquid separation portion (23). A coolant jacket (26) having a coolant inlet (27) and a coolant outlet (28) is in circuit with the engine coolant circuit for the purposes of delivering heat to the heat exchange chamber (20). Operation of the valve member (16) is achieved by means of a primary diaphragm (31) operable in response to heat exchanger pressure by means of aperture (34). A delivery passage (36) feeds gas into a demand regulator chamber (37) which in turn supplies a line outlet (40) to the engine. A demand regulator diaphragm (41) responsive to demand in the supply line is characterised by being adjustable by means of a variable length spring (47) supported in the housing assembly (10) and adjusted by means of a threaded plug (50). The demand regulator diaphragm (41) operates a delivery valve (46) to regulate the flow through the delivery passage (36). A start up/idling assembly (51) comprises a solenoid valve (52) interposed in a passage (53) directly linking the delivery portion (22) of the heat exchange chamber (20) and the demand regulator chamber (37).

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