

Title (en)

FUEL INJECTION DEVICE FOR AUTO-IGNITION INTERNAL COMBUSTION ENGINES

Title (de)

KRAFTSTOFFEINSPRITZVORRICHTUNG FÜR EINE SELBSTZÜNDENDE BRENNKRAFTMASCHINE

Title (fr)

DISPOSITIF D'INJECTION DE CARBURANT POUR MOTEURS A COMBUSTION INTERNE A ALLUMAGE SPONTANE

Publication

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Application

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Abstract (en)

[origin: DE19508445A1] A fuel injection device for auto-ignited internal combustion engines is disclosed. In a known fuel injection device designed for use with a ship's two-stroke Diesel engine, fuel is fed into a pressurised fuel tank under a pressure of approximately 700 bars, and is then supplied from said pressurised fuel tank to an injection valve through apportioning valves. This fuel injection device, as a whole, has costly electrohydraulically controlled safety arrangements and control valves. The disclosed fuel injection device is characterised in that it has a very compact structure and in that it may be mounted on existing internal combustion engines to replace conventional fuel injection devices. For that purpose, the fuel injection device has high-pressure pumps (10) that feed fuel into a supply tank (11) from which the fuel may be supplied through apportioning valves (16) to injection valves (15, 15'). The high-pressure pumps (10) are controlled by a control rod (13) that adjusts a plunger (18) of the high-pressure pumps (10) provided with a slanting edge (17).

IPC 1-7

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IPC 8 full level

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