

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

**EP 0813652 A1 19971229 (DE)**

Application

**EP 96906735 A 19960305**

Priority

- DE 19508445 A 19950309
- EP 9600908 W 19960305

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

**F02M 39/00**; **F02M 55/02**; **F02M 63/02**

IPC 8 full level

**F02M 39/00** (2006.01); **F02M 55/02** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP KR US)

**F02M 39/00** (2013.01 - EP KR US); **F02M 55/025** (2013.01 - EP KR US); **F02M 63/0225** (2013.01 - EP KR US)

Citation (search report)

See references of WO 9628654A1

Designated contracting state (EPC)

DE FR GB IT NL SE

DOCDB simple family (publication)

**DE 19508445 A1 19960912**; **DE 19508445 B4 20040708**; BR 9607633 A 19980526; CN 1065020 C 20010425; CN 1177999 A 19980401; DE 59603676 D1 19991223; EP 0813652 A1 19971229; EP 0813652 B1 19991117; KR 100401139 B1 20031114; KR 19980702875 A 19980805; US 6138641 A 20001031; WO 9628654 A1 19960919

DOCDB simple family (application)

**DE 19508445 A 19950309**; BR 9607633 A 19960305; CN 96192435 A 19960305; DE 59603676 T 19960305; EP 9600908 W 19960305; EP 96906735 A 19960305; KR 19970706283 A 19970909; US 89466097 A 19971208