

Title (en)

Injector for large diesel engines operating with heavy fuel oil, controlled by an electronically controlled valve

Title (de)

Injektor für mit schwerem Brennstoff betriebenen Grossdieselmotoren mit einem elektronisch gesteuerten Steuerventil

Title (fr)

Injecteur pour gros moteurs diesel fonctionnants avec du carburant lourd, contrôlé par une vanne électronique

Publication

EP 1793118 B1 20080430 (EN)

Application

EP 05425866 A 20051202

Priority

EP 05425866 A 20051202

Abstract (en)

[origin: EP1793118A1] An injector for diesel engines, in particular for engines supplied with heavy fuel oil, comprising: - a needle valve (25), which includes: a delivery chamber (9), connected to a fuel-supply line (8); an injection chamber (12) communicating with injection holes (13); and an injection needle (10), which can move between an open position and a closed position, in which, in the open position, the delivery chamber (9) and the injection chamber (12) communicate with one another and, in the closed position, the injection chamber (12) is isolated from the delivery chamber (9); and - a control actuator (51) having a control rod (15) that co-operates with the injection needle (25) to push it towards the closed position. The injector comprises an electronically controlled control-valve unit (21) including a two-way valve (23) and a three-way valve (24), in which the two-way valve (23) has a first chamber (35), connected to the control chamber (14) of the control actuator (51), and a second chamber (27), connected to the fuel- supply line (8).

IPC 8 full level

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CPC (source: EP)

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