

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

**F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 63/02** (2006.01)

CPC (source: EP)

**F02M 47/027** (2013.01); **F02M 63/0045** (2013.01); **F02M 63/0047** (2013.01); **F02M 63/0061** (2013.01); **F02M 63/0225** (2013.01)

Cited by

CN114992021A; JP2017075532A

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

**EP 1793118 A1 20070606**; **EP 1793118 B1 20080430**; AT E393876 T1 20080515; DE 602005006430 D1 20080612; DE 602005006430 T2 20090604; DK 1793118 T3 20080901

DOCDB simple family (application)

**EP 05425866 A 20051202**; AT 05425866 T 20051202; DE 602005006430 T 20051202; DK 05425866 T 20051202