

Title (en)

A FUEL INJECTOR FOR AN INTERNAL COMBUSTION ENGINE

Title (de)

KRAFTSTOFFEINSPRITZVENTIL FÜR EINE BRENNKRAFTMASCHINE

Title (fr)

INJECTEUR DE CARBURANT POUR MOTEUR A COMBUSTION INTERNE

Publication

**EP 0733163 A1 19960925 (EN)**

Application

**EP 95927656 A 19950711**

Priority

- DK 92794 A 19940809
- DK 9500300 W 19950711

Abstract (en)

[origin: WO9605425A1] A fuel injector (1) has a through-going fuel passage (6) opening out into a nozzle (7). A compression spring (17) acts on a longitudinally displaceable valve slider (13) in the closing direction. A first piston (21) at one end of the compression spring delimits, together with a stationary component (9), a first pressure chamber (28) which communicates with the fuel passage (6) through a channel (24). A second pressure chamber (34) is delimited by the first piston and a second piston (29). When the first piston is pressed away from an extreme position with a minimum volume in the chamber by the fuel pressure in the first pressure chamber, a flow connection (35) is opened between the two chambers so that pressure is built up in the second pressure chamber. The pressure build-up in the chambers generates an automatic loading of the compression spring. The oil confined in the second chamber keeps the compression spring loaded while the fuel injector is in its closed position.

IPC 1-7

**F02M 61/20; F02M 47/00**

IPC 8 full level

**F02M 47/00** (2006.01); **F02M 61/10** (2006.01); **F02M 61/20** (2006.01)

CPC (source: EP KR)

**F02M 61/08** (2013.01 - KR); **F02M 61/10** (2013.01 - EP); **F02M 61/205** (2013.01 - EP)

Citation (search report)

See references of WO 9605425A1

Designated contracting state (EPC)

CH DE ES GB IT LI NL

DOCDB simple family (publication)

**WO 9605425 A1 19960222**; AU 3161295 A 19960307; CN 1060250 C 20010103; CN 1155324 A 19970723; DE 69500259 D1 19970528; DE 69500259 T2 19971106; DK 171216 B1 19960729; DK 92794 A 19960210; EP 0733163 A1 19960925; EP 0733163 B1 19970423; ES 2101609 T3 19970701; FI 107470 B 20010815; FI 962931 A0 19960722; FI 962931 A 19960722; HR P950445 A2 19970430; HR P950445 B1 20000831; JP 3090473 B2 20000918; JP H10503820 A 19980407; KR 970703488 A 19970703; NO 306793 B1 19991220; NO 970494 D0 19970204; NO 970494 L 19970204; PL 176852 B1 19990831; PL 315571 A1 19961112; RU 2126095 C1 19990210

DOCDB simple family (application)

**DK 9500300 W 19950711**; AU 3161295 A 19950711; CN 95194557 A 19950711; DE 69500259 T 19950711; DK 92794 A 19940809; EP 95927656 A 19950711; ES 95927656 T 19950711; FI 962931 A 19960722; HR P950445 A 19950809; JP 50693196 A 19950711; KR 19960706534 A 19961119; NO 970494 A 19970204; PL 31557195 A 19950711; RU 96118505 A 19950711