

Title (en)

Fuel injection valve for internal combustion engines

Title (de)

Brennstoffeinspritzventil für Verbrennungskraftmaschinen

Title (fr)

Soupape d'injection de combustible pour moteurs à combustion interne

Publication

**EP 0745764 B1 20010321 (DE)**

Application

**EP 96107546 A 19960521**

Priority

CH 162895 A 19950602

Abstract (en)

[origin: EP0745764A2] A control device (15) regulates the adjustment movement of the injection valve component. It has a longitudinally displaceable control piston (30), which is activated by the fuel system pressure from the high pressure feed conduit (40,41) and also by the fuel control pressure in a control chamber (60). The control chamber is connected via first control aperture with the high pressure feed conduit (40). The control pressure in the control chamber is controllable by the opening or closing of at least one second control aperture. For the control device, an electrically controllable operating component (5) is provided.

IPC 1-7

**F02M 47/02**

IPC 8 full level

**F02M 45/00** (2006.01); **F02M 45/08** (2006.01); **F02M 45/12** (2006.01); **F02M 47/00** (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/10** (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

**F02M 45/12** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 61/161** (2013.01 - EP US); **F02M 63/0015** (2013.01 - EP US); **F02M 63/0017** (2013.01 - EP US); **F02M 63/0056** (2013.01 - EP US); **F02M 63/0068** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 2200/04** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US); **F02M 2547/003** (2013.01 - EP US)

Cited by

CN103392064A; EP0949415A3; DE10133682B4; CN107636298A; DE102017207685A1; EP1134405A3; DE19749001A1; DE19738351B4; DE19938921A1; DE19938921B4; DE19636088C2; DE19939939A1; EP0829641A3; US11319913B2; WO2016186822A1; WO2012113587A1; US10754356B2; WO2004005703A1; WO9915779A1; WO03078828A1; WO2019016398A1

Designated contracting state (EPC)

AT CH DE FR GB IT LI SE

DOCDB simple family (publication)

**EP 0745764 A2 19961204**; **EP 0745764 A3 19961227**; **EP 0745764 B1 20010321**; AT E199966 T1 20010415; DE 59606610 D1 20010426; JP H08326619 A 19961210; US 5694903 A 19971209; US 5775301 A 19980707

DOCDB simple family (application)

**EP 96107546 A 19960521**; AT 96107546 T 19960521; DE 59606610 T 19960521; JP 16229596 A 19960603; US 65725296 A 19960603; US 87207797 A 19970610