

Title (en)

Fuel injection device for internal combustion engines

Title (de)

Kraftstoff-Einspritzvorrichtung für Brennkraftmaschinen

Title (fr)

Dispositif d'injection de combustible pour moteurs à combustion interne

Publication

EP 0753659 A1 19970115 (EN)

Application

EP 96305156 A 19960712

Priority

JP 20031395 A 19950714

Abstract (en)

The fuel injection device easily sets the full lift position of the valve assembly and assures stable lift of the control piston(2) without being affected by pulsations of the fuel pressure in the balance chamber(35). In this fuel injection device, the valve assembly comprises a control piston(2) inserted into the control sleeve(7) and a needle valve(3) that opens and closes the nozzle holes(50). The end surface(75) of the control piston(2) is provided with a projecting portion(71) that projects into the balance chamber(35) formed in the control sleeve(7). In an area of the exhaust passage(26) in the control sleeve(7) a projecting portion(70) is provided which is formed with a slit(72) opening to the balance chamber(35) at all times. The end surfaces(77, 76) of these projecting portions(71, 70) engage with each other when the control piston(2) reaches its full lift. <IMAGE> <IMAGE>

IPC 1-7

F02M 47/02

IPC 8 full level

F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 47/06** (2006.01); **F02M 61/16** (2006.01)

CPC (source: EP)

F02M 47/027 (2013.01); **F02M 2547/003** (2013.01); **F02M 2547/008** (2013.01)

Citation (search report)

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