

Title (en)

Fuel injection system for a combustion engine

Title (de)

Kraftstoffeinspritzeinrichtung für eine Brennkraftmaschine

Title (fr)

Système d'injection de carburant pour un moteur à combustion

Publication

EP 1310668 B1 20060920 (DE)

Application

EP 02022362 A 20021008

Priority

DE 10155406 A 20011110

Abstract (en)

[origin: EP1310668A2] The device has a control piston (50) in a control pressure chamber (52) connected to an injection valve element (28) dividing the control pressure chamber into two sub-volumes connected together via a choke point. With a second control valve (70) closed, if the control pressure chamber is separated from a relief chamber (24) a lower force acts on the control piston in an injection valve element (28) closing direction than if the valve is open.

IPC 8 full level

F02M 57/02 (2006.01); **F02M 45/02** (2006.01); **F02M 45/04** (2006.01); **F02M 45/12** (2006.01); **F02M 47/02** (2006.01); **F02M 59/36** (2006.01)

CPC (source: EP US)

F02M 45/02 (2013.01 - EP US); **F02M 45/04** (2013.01 - EP US); **F02M 45/12** (2013.01 - EP US); **F02M 47/027** (2013.01 - EP US); **F02M 57/02** (2013.01 - EP US); **F02M 59/366** (2013.01 - EP US); **F02M 61/205** (2013.01 - EP US)

Cited by

CN105247200A; US10100795B2

Designated contracting state (EPC)

DE ES FR GB IT

DOCDB simple family (publication)

EP 1310668 A2 20030514; **EP 1310668 A3 20041215**; **EP 1310668 B1 20060920**; DE 10155406 A1 20030522; DE 50208195 D1 20061102; US 2003111051 A1 20030619; US 6779741 B2 20040824

DOCDB simple family (application)

EP 02022362 A 20021008; DE 10155406 A 20011110; DE 50208195 T 20021008; US 29050802 A 20021108