

Title (en)

Injection valve for a fuel injection system of an internal combustion engine, particularly of a diesel engine

Title (de)

Einspritzventil für eine Kraftstoffeinspritzanlage einer Brennkraftmaschine, insbesondere eines Dieselmotors

Title (fr)

Soupape d'injection pour un système d'injection de combustible d'un moteur à combustion interne, en particulier d'un moteur diesel

Publication

EP 0685645 B1 20010606 (DE)

Application

EP 95103560 A 19950313

Priority

CH 135894 A 19940502

Abstract (en)

[origin: EP0685645A2] The valve has a valve housing, a multi-part valve body displaceably arranged in the housing and at least one entry aperture issuing into a work cylinder. A fuel feed from a pressure chamber occurs via the aperture by control of the valve body. Between the nozzle needle (15a) controlled by the injection aperture (4) and at least one superimposed valve body part (15b) of the multi-part valve body (15) a vapour chamber (43) filled with fuel is formed. The vapour chamber is enclosed directly by the valve housing (47) or by a ring member axially displaceable or stationary in the valve housing. <IMAGE>

IPC 1-7

F02M 61/16; **F02M 47/02**

IPC 8 full level

F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 59/46** (2006.01); **F02M 61/16** (2006.01); **F02M 61/20** (2006.01); **F02B 3/06** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP US)

F02M 47/027 (2013.01 - EP US); **F02M 61/16** (2013.01 - EP US); **F02M 61/205** (2013.01 - EP US); **F02B 3/06** (2013.01 - EP US); **F02M 2200/304** (2013.01 - EP US)

Cited by

WO2012130452A1; FR2871876A1; WO2006008389A1; DE102011015753A1

Designated contracting state (EPC)

AT DE FR GB IT SE

DOCDB simple family (publication)

EP 0685645 A2 19951206; **EP 0685645 A3 19970326**; **EP 0685645 B1 20010606**; AT E201920 T1 20010615; CH 689267 A5 19990115; DE 59509315 D1 20010712; JP 3710163 B2 20051026; JP H0842422 A 19960213; US 5692683 A 19971202

DOCDB simple family (application)

EP 95103560 A 19950313; AT 95103560 T 19950313; CH 135894 A 19940502; DE 59509315 T 19950313; JP 10423695 A 19950427; US 43211095 A 19950501