

Title (en)

Fuel injector valve for an internal combustion piston engine

Title (de)

Brennstoffeinspritzventil für eine Hubkolbenbrennkraftmaschine

Title (fr)

Soupape-injecteur à combustible pour un moteur à combustion interne

Publication

EP 0611885 B1 19970604 (DE)

Application

EP 93810093 A 19930217

Priority

EP 93810093 A 19930217

Abstract (en)

[origin: EP0611885A1] The fuel injector valve has a valve housing which projects into the combustion chamber of a cylinder of the internal combustion engine and is provided with a seating surface (18) on its end face facing the combustion chamber. Extending through the valve housing is a movable closing piece (20) which is provided at its end facing the combustion chamber, with a mushroom-shaped valve plug (20') projecting from the valve housing and having a sealing surface (19) that interacts with the seating surface (18). The fuel flowing through the valve housing opens the valve, fuel being injected into the combustion chamber under elevated pressure. Arranged on the valve housing is a cap that overlaps the mushroom-shaped valve plug (20') and, in the region of the seating surface (18), has at least one nozzle passage (21) for the formation of a fuel jet. <IMAGE>

IPC 1-7

F02M 61/08; **F02M 61/18**

IPC 8 full level

F02M 61/08 (2006.01); **F02M 61/16** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR)

F02M 61/00 (2013.01 - KR); **F02M 61/08** (2013.01 - EP); **F02M 61/18** (2013.01 - EP)

Cited by

EP1201915A3; FR2726863A1; DE19929473B4; EP2397683A1; EP3404235A1; US6811101B2

Designated contracting state (EPC)

DE DK FR IT NL

DOCDB simple family (publication)

EP 0611885 A1 19940824; **EP 0611885 B1 19970604**; CN 1050877 C 20000329; CN 1092504 A 19940921; DE 59306670 D1 19970710; DK 0611885 T3 19970630; FI 106739 B 20010330; FI 940718 A0 19940216; FI 940718 A 19940818; JP H06317235 A 19941115; KR 100323937 B1 20020620; KR 940019986 A 19940915

DOCDB simple family (application)

EP 93810093 A 19930217; CN 94101587 A 19940216; DE 59306670 T 19930217; DK 93810093 T 19930217; FI 940718 A 19940216; JP 1870794 A 19940215; KR 19940002524 A 19940214