

Title (en)
FUEL INJECTION VALVE

Title (de)
KRAFTSTOFFEINSPRITZVENTIL

Title (fr)
SOUPAPE D'INJECTION DE CARBURANT

Publication
EP 0923671 B1 20020619 (DE)

Application
EP 98924009 A 19980314

Priority
• DE 9800764 W 19980314
• DE 19727896 A 19970701

Abstract (en)
[origin: DE19727896A1] The invention relates to a fuel injection valve having a valve element (14) which is controlled by the pressure in a control pressure chamber (23), and whose opening movement is influenced via a compensation pressure surface (21) of the valve element (14). The compensation pressure surface is contiguous to a hydraulic chamber (20) whose pressure is controlled by means of a piston (33). This piston keeps the hydraulic prestress of the hydraulic chamber (20) reduced to a substantially constant value, and can compensate volume changes of the hydraulic chamber by being displaced against a reference pressure (39).

IPC 1-7
F02M 47/02

IPC 8 full level
F02M 47/00 (2006.01); **F02M 47/02** (2006.01); **F02M 61/20** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP KR US)
F02M 47/02 (2013.01 - KR); **F02M 47/027** (2013.01 - EP US); **F02M 61/205** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US); **F02M 2200/40** (2013.01 - EP US)

Cited by
FR2816366A1

Designated contracting state (EPC)
DE FR GB IT SE

DOCDB simple family (publication)
DE 19727896 A1 19990107; CN 1089855 C 20020828; CN 1231019 A 19991006; DE 59804494 D1 20020725; EP 0923671 A1 19990623; EP 0923671 B1 20020619; JP 2001500215 A 20010109; KR 20000068338 A 20001125; US 2001050316 A1 20011213; US 6367709 B2 20020409; WO 9901660 A1 19990114

DOCDB simple family (application)
DE 19727896 A 19970701; CN 98800914 A 19980314; DE 59804494 T 19980314; DE 9800764 W 19980314; EP 98924009 A 19980314; JP 50606299 A 19980314; KR 19997001515 A 19990225; US 25404999 A 19990301