

Title (en)  
INJECTION VALVE WITH COMPENSATING SURFACE

Title (de)  
EINSPRITZVENTIL MIT EINER AUSGLEICHSFLÄCHE

Title (fr)  
SOUPAPE D'INJECTION COMPORTANT UNE SURFACE DE COMPENSATION

Publication  
**EP 0966603 B1 20031112 (DE)**

Application  
**EP 98964377 A 19981202**

Priority  
• DE 9803555 W 19981202  
• DE 19757659 A 19971223

Abstract (en)  
[origin: DE19757659C1] The injection valve has a housing (6) contg. an actuator (1) guided in a direction of motion and a positioning element (5) guided in a direction of motion. The control element interacts with the actuator via at least one curved surface. A compensation element (3) is movable mounted between the actuator and the positioning element which are both in contact with it. The compensation element has a curve inclined towards the actual (5) is in contact with it so that the contact point is accurately determined and hardly moves if the actuator or positioning element (5) is tilted.

IPC 1-7  
**F02M 51/06**

IPC 8 full level  
**F02M 51/06** (2006.01); **F02M 59/46** (2006.01)

CPC (source: EP US)  
**F02M 51/0603** (2013.01 - EP US); **F02M 59/468** (2013.01 - EP US); **F02M 63/0026** (2013.01 - EP US); **F02M 2200/701** (2013.01 - EP US)

Citation (examination)  
• EP 0484804 A1 19920513 - ELASIS SISTEMA RICERCA FIAT [IT]  
• US 5435286 A 19950725 - CARROLL III JOHN T [US], et al

Designated contracting state (EPC)  
DE FR GB IT

DOCDB simple family (publication)  
**DE 19757659 C1 19990617**; DE 59810163 D1 20031218; EP 0966603 A1 19991229; EP 0966603 B1 20031112; US 6186474 B1 20010213; WO 9934113 A1 19990708

DOCDB simple family (application)  
**DE 19757659 A 19971223**; DE 59810163 T 19981202; DE 9803555 W 19981202; EP 98964377 A 19981202; US 37921699 A 19990823