

Title (en)  
ELECTRICALLY ACTUATED FUEL INJECTION VALVE FOR INTERNAL-COMBUSTION ENGINES

Publication  
**EP 0204068 B1 19880615 (DE)**

Application  
**EP 86102630 A 19860228**

Priority  
DE 3517258 A 19850513

Abstract (en)  
[origin: US4711396A] In an electrically actuatable fuel-injection valve for internal combustion engines, a piezoelectric oscillator (radial oscillator 11) which is provided with electrodes has at least one fuel-receiving chamber (12). The chamber (12) is in communication with the fuel feed path (constant-volume chamber 20) and an ejection opening (bore 17). The oscillator (11) is mounted in a block (18) out of which the fuel feed path (constant-volume chamber 20) is also formed. Furthermore, a high-voltage generator (35) is located, electrically shielded from the outside, within the block (18), which consists of metal. The high-voltage generator is connected to the electrodes of the piezoelectric oscillator (11) via feed lines (14, 15) which are conducted within the block (18).

IPC 1-7  
**F02M 51/06**; **F02M 51/00**

IPC 8 full level  
**F02M 51/00** (2006.01); **F02M 51/06** (2006.01); **H02N 2/04** (2006.01)

CPC (source: EP US)  
**F02M 51/00** (2013.01 - EP US); **F02M 2200/21** (2013.01 - EP US)

Citation (examination)  
• EP 0204070 A1 19861210 - VDO SCHINDLING [DE]  
• EP 0203274 A1 19861203 - VDO SCHINDLING [DE]

Designated contracting state (EPC)  
AT DE FR GB IT NL SE

DOCDB simple family (publication)  
**EP 0204068 A1 19861210**; **EP 0204068 B1 19880615**; AT E35168 T1 19880715; DE 3517258 A1 19870115; DE 3660317 D1 19880721; JP S61261658 A 19861119; US 4711396 A 19871208

DOCDB simple family (application)  
**EP 86102630 A 19860228**; AT 86102630 T 19860228; DE 3517258 A 19850513; DE 3660317 T 19860228; JP 10781386 A 19860513; US 86148386 A 19860509