

Title (en)

A fuel injector for internal combustion engines.

Title (de)

Kraftstoffeinspritzventil für Brennkraftmaschinen.

Title (fr)

Injecteur de carburant pour moteurs à combustion interne.

Publication

EP 0052937 A1 19820602 (EN)

Application

EP 81304858 A 19811019

Priority

DK 495880 A 19801120

Abstract (en)

A fuel injector comprising an axially displaceable slide (10) and an annular chamber (26) between a section (11) of the slide (10) and a surrounding valve guide (5). In the closed position that chamber (26) is isolated from the forward part (27-29) of the fuel duct (19-24) by means of a valve consisting of a conical face (38) on the slide (10) and an opposed seat face (39) on the valve guide (5). The valve remains closed until the fuel pressure exceeds a predetermined percentage of that pressure at which the slide (10) has moved so far backward that it uncovers the atomizer holes (9) and, correspondingly, the valve closes, at decreasing fuel pressure, only some time after the slide (10) has obturated the atomizer holes (9).

IPC 1-7

F02M 61/06; **F02M 61/10**

IPC 8 full level

F02M 61/04 (2006.01); **F02M 61/06** (2006.01); **F02M 61/10** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP)

F02M 61/06 (2013.01); **F02M 61/10** (2013.01)

Citation (search report)

- GB 1569100 A 19800611 - BOSCH GMBH ROBERT
- GB 950252 A 19640226 - BOSCH GMBH ROBERT
- FR 2408043 A1 19790601 - BOSCH GMBH ROBERT [DE]
- GB 1051842 A

Cited by

EP2239451A1; CN103742778A; GB2147950A; JP2012017732A; EP2365206A1; EP2390027A1; EP2405127A1; EP2365206B1

Designated contracting state (EPC)

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EP 81304858 A 19811019; BR 8107535 A 19811119; DK 495880 A 19801120; FI 813417 A 19811030; JP 17024681 A 19811026; NO 813857 A 19811113; PL 23380881 A 19811113; YU 273281 A 19811120