

Title (en)

A fuel injector for internal combustion engines

Title (de)

Kraftstoffinjektor für Verbrennungsmotoren

Title (fr)

Injecteur de carburant pour moteurs à combustion interne

Publication

**EP 2386745 B1 20130213 (EN)**

Application

**EP 10162498 A 20100511**

Priority

EP 10162498 A 20100511

Abstract (en)

[origin: EP2386745A1] A fuel injector for internal combustion engines, comprising: - a valve guide (12) having a longitudinal guide bore (14) and a chamber (16) provided with a valve seat (20), said chamber (26) being connected to a fuel supply duct (18); - an atomizer (26) fixed at a lower end of said valve guide (12), the atomizer (26) having a longitudinal bore (40) in flow connection with said chamber (26) through said valve seat (20), the atomizer having a plurality of nozzle bores (42', 42'') having inner openings (44', 44'') facing into said longitudinal bore (40); and - an axially movable spindle (48) having a valve portion (52) cooperating with said valve seat (20) and a cut-off element (54) extending into said longitudinal bore (40) of the atomizer (26), the cut-off element (54) having a cylindrical sealing portion (56) in sealing contact with a cylindrical sealing surface (58) of said longitudinal bore (40) and a central duct (60) establishing a fluid connection between an upper region (64) and a lower region (70) of said longitudinal bore (40).

IPC 8 full level

**F02M 45/08** (2006.01); **F02M 61/04** (2006.01); **F02M 61/06** (2006.01); **F02M 61/12** (2006.01); **F02M 61/18** (2006.01)

CPC (source: EP KR)

**F02M 45/08** (2013.01 - EP KR); **F02M 61/042** (2013.01 - EP KR); **F02M 61/06** (2013.01 - EP KR); **F02M 61/12** (2013.01 - EP KR); **F02M 61/182** (2013.01 - EP KR); **F02M 61/1873** (2013.01 - EP KR); **F02M 2200/06** (2013.01 - EP KR)

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DOCDB simple family (publication)

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