

Title (en)

A fuel injector for internal combustion engines

Title (de)

Kraftstoffeinspritzdüse für Verbrennungsmotoren

Title (fr)

Injecteur de carburant pour moteurs à combustion interne

Publication

**EP 2405127 A1 20120111 (EN)**

Application

**EP 10168684 A 20100707**

Priority

EP 10168684 A 20100707

Abstract (en)

A fuel injector for internal combustion engines, comprising: - an atomizer (10) having a longitudinal bore (14) and a plurality of nozzle bores (16) having inlet openings (18) facing into said longitudinal bore (14), said inlet openings (18) being divided into an upper group and a lower group, spaced apart from each other in a longitudinal direction (A), and - a cut-off element (22) extending into said longitudinal bore (14) of the atomizer (10), the cut-off element (22) being movable in said longitudinal direction (A) between an open and a closed position, wherein the longitudinal bore (14) and the cut-off element (22) have respective upper and lower sealing portions (24, 28, 26, 30) cooperating with each other in said closed position of the cut-off element (22) to define an upper and a lower cut-off section (32, 34) which extend, respectively, above the upper group of inlet openings (18) and below the lower group of inlet openings (18).

IPC 8 full level

**F02M 61/18** (2006.01); **F02M 61/04** (2006.01); **F02M 61/10** (2006.01); **F02M 61/12** (2006.01)

CPC (source: EP KR)

**F02M 61/042** (2013.01 - EP KR); **F02M 61/12** (2013.01 - EP KR); **F02M 61/182** (2013.01 - EP KR)

Citation (applicant)

- EP 0052937 A1 19820602 - B & W DIESEL AS [DK]
- WO 2008071187 A1 20080619 - MAN DIESEL AS [DK], et al

Citation (search report)

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- [A] DE 102006033878 A1 20080131 - SIEMENS AG [DE]
- [A] WO 8706650 A1 19871105 - VOEST ALPINE AUTOMOTIVE [AT]

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Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO SE SI SK SM TR

Designated extension state (EPC)

BA ME RS

DOCDB simple family (publication)

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DOCDB simple family (application)

**EP 10168684 A 20100707**; CN 201110189157 A 20110707; DK 10168684 T 20100707; JP 2011039839 A 20110225; KR 20110016811 A 20110225