

Title (en)

ALTERNATIVE FUEL INJECTOR FOR DUAL FUEL SYSTEMS

Title (de)

ALTERNATIVES BRENNSTOFFEINSPRITZVENTIL FÜR ZWEISTOFFSYSTEME

Title (fr)

VARIANTE D'INJECTEUR DE CARBURANT POUR SYSTÈMES À BICARBURANT

Publication

EP 2069635 B1 20100127 (EN)

Application

EP 07787979 A 20070727

Priority

- EP 2007057764 W 20070727
- IT PR20060086 A 20061004

Abstract (en)

[origin: WO2008040581A1] The present invention finds application in fuel systems for internal combustion engines using gaseous fuel and relates to an alternative fuel injector for dual fuel systems in which a coil bobbin (5) adapted to generate an electromagnetic field for actuating a movable member has a cavity (55) with a cylindrical extension (10a) of said movable member or shutter (10) directly fitted therein; a disk part (10b) of said movable member being adapted to abut either against the fuel hole (100) or against the bobbin (5) depending on whether the electromagnetic field is imparted or not. The disk part (10b) of said shutter (10) abuts against said bobbin (5) while leaving a gap with the support (15) of the bobbin (5) for preventing magnetic bonding.

IPC 8 full level

F02M 51/06 (2006.01); **F02M 43/04** (2006.01); **F02M 69/14** (2006.01)

CPC (source: EP)

F02M 43/04 (2013.01); **F02M 51/0667** (2013.01); **F02M 69/145** (2013.01)

Designated contracting state (EPC)

AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HU IE IS IT LI LT LU LV MC MT NL PL PT RO SE SI SK TR

DOCDB simple family (publication)

WO 2008040581 A1 20080410; AT E456741 T1 20100215; AU 2007304380 A1 20080410; AU 2007304380 B2 20130815; BR PI0719851 A2 20140603; CN 101542104 A 20090923; CN 101542104 B 20121107; DE 602007004639 D1 20100318; EP 2069635 A1 20090617; EP 2069635 B1 20100127; ES 2340434 T3 20100602; IT PR20060086 A1 20080405; PL 2069635 T3 20100730

DOCDB simple family (application)

EP 2007057764 W 20070727; AT 07787979 T 20070727; AU 2007304380 A 20070727; BR PI0719851 A 20070727; CN 200780037266 A 20070727; DE 602007004639 T 20070727; EP 07787979 A 20070727; ES 07787979 T 20070727; IT PR20060086 A 20061004; PL 07787979 T 20070727