

Title (en)
Directly actuated fuel injector

Title (de)
Direkt betätigter Kraftstoffinjektor

Title (fr)
Injecteur de carburant actionné directement

Publication
EP 2138709 A1 20091230 (DE)

Application
EP 09100250 A 20090424

Priority
DE 102008002605 A 20080624

Abstract (en)
The injector (10) has a valve piece (20) fastened to an injector body (12), and a valve sleeve (42) guided in the valve piece. A magnetic actuator (38) is attached at an end (36) of the sleeve, and a valve seat (24) is limited at another end of the sleeve, where the sleeve is directly actuated by the magnetic actuator. The end (36) of the sleeve is formed as an armature plate. The valve piece is engaged at the injector body by an adjusting disk (40) and has a transverse borehole (26), which is connected with a supply borehole (28) in the valve piece above the valve seat.

Abstract (de)
Die Erfindung bezieht sich auf einen Kraftstoffinjektor (10) mit einem Injektorkörper (12), in dem ein Ventilstück (20) befestigt ist. Am Ventilstück (20) ist eine Ventilhülse (42) geführt. Die Ventilhülse (42) weist an einem Ende (36) einem Magnetaktor (38) zu und begrenzt am anderen Ende einen Ventilsitz (24). Der Ventilsitz (24) ist durch die Ventilhülse (42) direkt betätigt.

IPC 8 full level
F02M 51/06 (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)
F02M 51/061 (2013.01); **F02M 61/10** (2013.01); **F02M 61/205** (2013.01)

Citation (applicant)
DE 102006050810 A1 20080430 - BOSCH GMBH ROBERT [DE]

Citation (search report)

- [DX] DE 102006050810 A1 20080430 - BOSCH GMBH ROBERT [DE]
- [X] DE 19754112 A1 19980610 - HYUNDAI MOTOR CO LTD [KR]
- [A] DE 10111293 A1 20020919 - BOSCH GMBH ROBERT [DE]
- [A] US 5645226 A 19970708 - BRIGHT JOHN S [US]

Cited by
EP2395227A3; SE1951116A1; SE545024C2

Designated contracting state (EPC)
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 TR

DOCDB simple family (publication)
EP 2138709 A1 20091230; EP 2138709 B1 20111026; AT E530760 T1 20111115; DE 102008002605 A1 20091231

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EP 09100250 A 20090424; AT 09100250 T 20090424; DE 102008002605 A 20080624