

Title (en)

Fuel valve actuator

Title (de)

Aktuator für Brennstoffventil

Title (fr)

Actionneur pour soupape à combustible

Publication

EP 1837516 A1 20070926 (EN)

Application

EP 06270035 A 20060323

Priority

EP 06270035 A 20060323

Abstract (en)

The invention relates to a fuel valve actuator for an engine. The actuator has an armature (26) movable to open and close the valve, a permanent magnet (28) which urges the armature (26) toward the closed position, biasing means which urges the armature (24) toward the open position, and an electromagnet (24) which produces a magnetic field that interferes with the magnetic field of the permanent magnet (28) in order to produce a resultant magnetic field which at least reduces the force provided by the permanent magnet on the armature (26). This provides a fast fuel valve actuator with a fast response time. A method of actuating a fuel valve is also provided.

IPC 8 full level

F02M 51/06 (2006.01)

CPC (source: EP)

F02M 51/0692 (2013.01)

Citation (search report)

[X] DE 3332822 A1 19850328 - BOSCH GMBH ROBERT [DE]

Cited by

CN103119282A; CN103764995A; US9376994B2; WO2014146800A1; WO2011058344A1; EP2822004A1; US9530551B2

Designated contracting state (EPC)

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