

Title (en)

Actuator Arrangement for use in a Fuel Injector

Title (de)

Aktuatoranordnung zur Verwendung mit einem Kraftstoffinjektor

Title (fr)

Agencement d'actionneur à utiliser dans un injecteur de carburant

Publication

EP 2372139 A1 20111005 (EN)

Application

EP 10157760 A 20100325

Priority

EP 10157760 A 20100325

Abstract (en)

The present invention relates an actuator arrangement for use in a fuel injector, comprising: a piezoelectric actuator having a body section, said body section having a first end piece and a second end piece; a sleeve which enshrouds at least part of the body section of the actuator; and at least one constrictive member, disposed externally with respect to the sleeve wherein the constrictive member applies a constrictive force to the sleeve to maintain a seal between the sleeve and the underlying body section of the actuator. The underlying body section comprises an alternation of smooth sections and rough sections; said rough sections comprising superficial markings.

IPC 8 full level

F02M 51/06 (2006.01); **F02M 61/16** (2006.01); **F02M 63/00** (2006.01)

CPC (source: EP)

F02M 51/0603 (2013.01); **F02M 61/168** (2013.01); **F02M 63/0026** (2013.01)

Citation (applicant)

- EP 0995901 A1 20000426 - LUCAS INDUSTRIES LTD [GB]
- WO 02061856 A1 20020808 - DELPHI TECH INC [US], et al
- EP 1356529 A1 20031029 - DELPHI TECH INC [US]
- WO 2007093921 A2 20070823 - DELPHI TECH INC [US], et al
- EP 05256852 A 20051104
- EP 1783842 A1 20070509 - DELPHI TECH INC [US]
- WO 2007128948 A1 20071115 - DELPHI TECH INC [US], et al

Citation (search report)

- [YD] EP 1783842 A1 20070509 - DELPHI TECH INC [US]
- [Y] US 2007057095 A1 20070315 - BAYER JOHANN [DE], et al
- [Y] EP 1901360 A2 20080319 - BOSCH GMBH ROBERT [DE]
- [Y] EP 2014966 A2 20090114 - DELPHI TECH INC [US]

Cited by

CN104812682A

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 SM TR

Designated extension state (EPC)

AL BA ME RS

DOCDB simple family (publication)

EP 2372139 A1 20111005; EP 2372139 B1 20121031

DOCDB simple family (application)

EP 10157760 A 20100325