

Title (en)

PIEZOELECTRIC FUEL INJECTOR HAVING A TEMPERATURE COMPENSATING UNIT

Title (de)

PIEZOELEKTRISCHER BRENNSTOFFEINSPRITZER MIT EINER TEMPERATURAUSGLEICHSEINHEIT

Title (fr)

INJECTEUR DE CARBURANT PIÉZOÉLECTRIQUE DOTÉ D'UNE UNITÉ DE COMPENSATION DE TEMPÉRATURE

Publication

EP 2582469 A4 20170125 (EN)

Application

EP 11796116 A 20110426

Priority

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- US 2011033872 W 20110426

Abstract (en)

[origin: CN103415350A] The present invention provides a fuel injector, comprising a housing having a scalable injector seat; a fuel injector pin disposed within the housing proximate to the injector seat such that the injector seat may be sealed and unsealed by displacing the fuel injector pin; a resilient element biasing the fuel injector pin in an unsealed direction; a piezoelectric actuator disposed within the housing proximal to the fuel injector pin configured to actuate to force the injector pin towards the injector seat to seal the injector seat; and a thermal compensating unit disposed within the housing proximal to the actuator and configured to compensate for thermal expansion or contraction of a component of the fuel injector.

IPC 8 full level

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CPC (source: EP)

F02M 51/0603 (2013.01); **F02M 2200/705** (2013.01)

Citation (search report)

- [X] US 2010024776 A1 20100204 - FRICK MICHAEL J [US], et al
- [A] US 6739528 B2 20040525 - LORRAINE JACK [US], et al
- [A] US 6213414 B1 20010410 - STIER HUBERT [DE], et al
- See references of WO 2011159395A2

Designated contracting state (EPC)

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DOCDB simple family (publication)

CN 103415350 A 20131127; CN 103415350 B 20160120; EP 2582469 A2 20130424; EP 2582469 A4 20170125

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