

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

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Application

EP 11796116 A 20110426

Priority

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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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