

Title (en)

Determining the piezoelectric element temperature using a model of the energy balance of the piezoelectric element

Title (de)

Bestimmung der Temperatur eines piezoelektrischen Elements unter Verwendung eines Energiebilanzmodells des piezoelektrischen Elements

Title (fr)

Détermination de la température de l'élément piézoélectrique utilisant un modèle du bilan d'énergie d'un élément piézoélectrique

Publication

**EP 1138914 A1 20011004 (EN)**

Application

**EP 00106995 A 20000401**

Priority

EP 00106995 A 20000401

Abstract (en)

The invention describes a method and an apparatus for charging a piezoelectric element, for example, used as an actuator in a fuel injection system of an internal combustion engine. The method and apparatus are characterized in that the piezoelectric element is activated by an activation voltage, which is corrected for the piezoelectric element's temperature. The piezoelectric element's temperature is determined by using an energy balance model. <IMAGE>

IPC 1-7

**F02D 41/20**

IPC 8 full level

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CPC (source: EP)

**F02D 41/2096** (2013.01)

Citation (applicant)

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Citation (search report)

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- [X] PATENT ABSTRACTS OF JAPAN vol. 013, no. 267 (M - 840) 20 June 1989 (1989-06-20)
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