

Title (en)

METHOD FOR CONTROLLING A PIEZOELECTRIC ACTUATOR AND CONTROL UNIT FOR CONTROLLING A PIEZOELECTRIC ACTUATOR

Title (de)

VERFAHREN ZUM STEUERN EINES PIEZOELEKTRISCHEN AKTORS UND STEUEREINHEIT ZUM STEUERN EINES PIEZOELEKTRISCHEN AKTORS

Title (fr)

PROCEDE POUR COMMANDER UN ACTIONNEUR PIEZOELECTRIQUE, ET UNITE DE COMMANDE POUR COMMANDER UN ACTIONNEUR PIEZOELECTRIQUE

Publication

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Application

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Abstract (en)

[origin: WO2006061113A1] The invention relates to a method for controlling a piezoelectric actuator which displaces a control element of an injection valve. Said method consists of charging the actuator until a start voltage is reached. Subsequently, the actuator is discharged until a partial lifting voltage, which is maintained during a holding time, is reached. In the final step, the actuator is discharged until an off-load voltage is reached and a parameter which is dependent on the partial lifting voltage is used as a control variable. A desired value for the control variable is determined and the actuator is controlled in such a manner that the desired value of the control variable is maintained.

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