

Title (en)

METHOD AND DEVICE FOR OFFSETTING BOUNCE EFFECTS IN A PIEZO-ACTUATED INJECTION SYSTEM OF AN INTERNAL COMBUSTION ENGINE

Title (de)

VERFAHREN UND VORRICHTUNG ZUR KOMPENSATION VON PRELLEFFekten IN EINEM PIEZOGESTEUERTEN EINSPRITZSYSTEM EINER VERBRENNUNGSKRAFTMASCHINE

Title (fr)

PROCEDE ET DISPOSITIF DE COMPENSATION DES EFFETS DE REBOND DANS UN SYSTEME D'INJECTION A COMMANDE PIEZO-ELECTRIQUE D'UN MOTEUR A COMBUSTION INTERNE

Publication

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Application

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Priority

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Abstract (en)

[origin: WO2006069750A1] The invention relates to a method and a device for offsetting bounce effects in a piezo-actuated injection system of an internal combustion engine using a control valve actuated by a piezoelectric actuator. The inventive method comprises the following steps: detecting an actual bounce behavior of the control valve, and determining and offsetting a deviation between the actual bounce behavior and a desired bounce behavior of the control valve, thereby generating an actuation information for the control valve which influences a speed characteristic of a needle of the control valve. The invention also relates to a device for carrying out the inventive method.

IPC 8 full level

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