

Title (en)

CIRCUIT AND METHOD FOR CONTROLLING A PIEZOELECTRIC OR ELECTROSTRICTIVE ACTUATOR

Title (de)

SCHALTUNG UND VERFAHREN ZUR ANSTEUERUNG EINES PIEZOELEKTRISCHEN ODER ELEKTROSTRIKTIVEN AKTORS

Title (fr)

CIRCUIT ET PROCEDE POUR COMMANDER UN ACTIONNEUR PIEZO-ELECTRIQUE OU ELECTROSTRICTIF

Publication

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Application

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Abstract (en)

[origin: WO2007028784A1] The invention relates to a circuit and/or a corresponding method for controlling a piezoelectric or electrostrictive actuator (P) having a series-connected driver stage (G) which provides a control signal which is used to drive the piezoelectric actuator (P). A reference capacitor (M), which is used to measure a charge (qP) of the actuator (P), is serially connected to the actuator (P). The reference capacitor (M) is used as a series capacitor in order to measure the actuator charge ( $q_{\text{SUB>A</SUB>}(T) = q_{\text{SUB>P</SUB>}(t)$ ) of the piezoelectric actuator. The output variable is a voltage which is proportional to the actuator charge. Said voltage is guided to an A/D-converter and is processed further in a digital manner or guided directly to a analogue controller.

IPC 8 full level

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