

Title (en)  
METHOD FOR THE PRODUCTION OF A PIEZOELECTRIC ACTUATOR

Title (de)  
VERFAHREN ZUR HERSTELLUNG EINES PIEZOELEKTRISCHEN AKTORS

Title (fr)  
PROCEDE PERMETTANT DE PRODUIRE UN ACTIONNEUR PIEZOELECTRIQUE

Publication  
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Application  
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Abstract (en)  
[origin: WO2007003655A1] Disclosed is a method for producing a piezo actuator (1) comprising a plurality of actuator layers (4) made of a ceramic material and one respective metallic layer electrode (2, 2') that is disposed between the actuator layers (4) and is alternately electrically connected to one respective terminal electrode (15; 15') via which a voltage can be applied to the layer electrodes (2; 2'). At least one terminal electrode (15; 15') extends within the piezo actuator (1). The piezo actuator (1) has a face (5) and an opposite base (7). According to the inventive production method, at least one longitudinal bore (10; 10') is introduced into a green member forming the piezo actuator. A tubular terminal electrode (15, 15') is then introduced into said longitudinal bore (10, 10') such that the terminal electrode (15; 15') protrudes from the face (5) of the green member. The green member is finally heated until the sintering process has been completed, the end of the terminal electrode (15, 15') that protrudes from the face (5) being supported such that the green member is not deformed during the sintering process. A piezo actuator (1) produced according to said method encompasses at least one terminal electrode (15; 15') which is configured in a tubular manner and extends inside the piezo actuator (1).

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