

Title (en)  
PIEZOELECTRIC ACTUATOR WITH AN IMPROVED STROKE CAPABILITY

Title (de)  
PIEZOAKTOR MIT GESTEIGERTEM HUBVERMÖGEN

Title (fr)  
PIEZOACTIONNEUR A CAPACITE DE LEVAGE AMELIOREE

Publication  
**EP 1894259 A1 20080305 (DE)**

Application  
**EP 06763555 A 20060607**

Priority  
• EP 2006062961 W 20060607  
• DE 102005028970 A 20050622

Abstract (en)  
[origin: DE102005028970A1] The actuator (1) has a piezoelectric layer (10) with a bulge (20) arranged between two opposite electrode layers (30) for generating electric field in the layer. A prestressing device (40) adjusts mechanical prestressing of the layer over the bulge such that the prestressing supports an expansion behavior of the actuator during generation of the field in the prestressed layer. The device has two plates (42, 44) with which the bulge of the layer is compressible. An independent claim is also included for a method for manufacturing a piezoelectric actuator.

IPC 8 full level  
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CPC (source: EP US)  
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Citation (search report)  
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