

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)
H10N 30/08 (2023.02 - EP US); **H10N 30/097** (2023.02 - EP US); **H10N 30/2048** (2023.02 - EP US); **Y10T 29/42** (2015.01 - EP US)

Citation (search report)
See references of WO 2006136492A1

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