

Title (en)
PIEZOELECTRIC ELECTRO-MOTIONAL DEVICES

Title (de)
PIEZOELEKTRISCHE ELEKTROBEWEGLICHE BAUELEMENTE

Title (fr)
DISPOSITIFS PIEZO-ELECTRIQUES ELECTROMOTEURS

Publication
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Application
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IB 9801321 W 19980608

Abstract (en)
[origin: WO9965088A1] The present invention is directed to electro-motional devices, especially piezoelectric pumps (50). More specifically, the present invention is directed to the method of fabrication of piezoelectric bender-elements; specifically, using multilayers of piezoelectric material by bonding the layers in a press and heating the layers to form a bender element with a mechanical bias or curve. A piezoelectric unit cell (40) of the present invention is fabricated using two mechanically biased bender-elements, each mechanically and electrically biased in opposite direction. Any number of piezoelectric unit cells of the present invention may be employed in making an electromotional device. A drive circuit of the present invention provides the electrical source to sequentially in an alternating mode activate the unit cells.

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