

Title (en)

PIEZO-ELECTRIC TRANSFORMER CIRCUIT

Title (de)

PIEZOELEKTRISCHE TRANSFORMATOR-SCHALTUNG

Title (fr)

CIRCUIT TRANSFORMATEUR PIEZO-ELECTRIQUE

Publication

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Application

**EP 00940592 A 20000622**

Priority

- GB 0002418 W 20000622
- GB 9914516 A 19990623

Abstract (en)

[origin: GB2351389A] The invention relates to a piezo-electric transformer circuit (200) incorporating a piezo-electric transformer (10) comprising a multi-element primary region (12) and a single element secondary region (14) mutually joined together. In operation, the circuit (200) applies a drive signal to the primary region (12) to excite the primary and secondary regions (12, 14) into longitudinal resonance, thereby generating a high potential signal at the secondary region (14). The drive signal is derived from the signal at the secondary region (14) in a self oscillating feedback loop configuration. The configuration provides the advantage that the transformer (10) is driven more accurately at its resonant frequency, thereby improving efficiency of the circuit (200) when the secondary region (14) is electrically loaded.

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**H01L 41/107**

IPC 8 full level

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