



(54) DC-DC CONVERTERS BASED ON PIEZOELECTRIC TRANSFORMERS	Publication Classification
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(73) Assignee: Massachusetts Institute of Technology , Cambridge, MA (US)	(57) ABSTRACT
(21) Appl. No.: 18/557,172	According to one aspect of the disclosure, a converter having a first port and a second port, the converter comprises: a piezoelectric transformer (PT) having a first port and a second port; one or more first switches configured to operate in accordance with a first switching sub-sequence to transfer energy from the first port of the converter to the first port of the PT, the first switching sub-sequence having at least six (6) stages; and one or more second switches configured to operate in accordance with a second switching sub-sequence to transfer energy from the second port of the PT to the second port of the converter.
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