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## Phase Transformation in Ferroelectric Piezocrystals

Tech ID: 24586 / UC Case 2014-519-0

### INNOVATION

Professor Christopher Lynch and colleagues have developed an efficient energy harvesting apparatus based on a single crystal ferroelectric material to convert external changes in force and temperature to electrical energy. This technology utilizes the phase transitioning behavior of ferroelectric piezocrystals to achieve high energy density. The technology has various applications in sensing and transduction.

### PATENT STATUS

Country	Type	Number	Dated	Case
United States Of America	Issued Patent	9,048,762	06/02/2015	2014-519

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### INVENTORS

▶ Lynch, Christopher S.

### OTHER INFORMATION

#### KEYWORDS

Energy harvesting, ferroelectrics, piezocrystals

#### CATEGORIZED AS

- ▶ **Energy**
  - ▶ Other
  - ▶ Transmission
- ▶ **Environment**
  - ▶ Other
- ▶ **Sensors & Instrumentation**
  - ▶ Other

#### RELATED CASES

2014-519-0

### ADDITIONAL TECHNOLOGIES BY THESE INVENTORS

- ▶ [Controlling Magnetization Using Patterned Electrodes on Piezoelectrics](#)
- ▶ [Self-Latching Piezocomposite Actuator](#)

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