



TECHNOLOGY

Magnetolectric Composite

OVERVIEW

This invention consists of a Magnetolectric composite (MEC) that has been synthesized by spinodal decomposition in a magnetic field containing the elements needed to form the MEC. The ensuing structure, consisting of periodic ferromagnetic and ferroelectric nano-lamellae displays strong magnetoelectric coupling. MECs are useful for sensors and novel circuit components. The significance of this invention consists of:

- 1) It is all oxide
- 2) It is of small size suitable for micro-circuit and components
- 3) As a sensor it has a high magneto-electric sensitivity
- 4) Its method of synthesis is easily adapted to mass production.
- 5) The structure is potentially useful for telecommunication tunable filters etc.

For additional information, please contact George Letscher at the Office of Technology Commercialization, University of Maryland College Park, via e-mail at letscher@umd.edu or phone at 301-405-3899.

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Additional Information

INSTITUTION

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PATENT STATUS

Patent(s) pending

LICENSE STATUS

Contact OTC for licensing information

CATEGORIES

- Materials
- Microelectronics
- Power Electronics

EXTERNAL RESOURCES

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