



## **Anisotropic Multiphysics Sensing Systems for Layered Materials**

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**Summary:** A method to detect physical properties of layered materials

**Description:** The anisotropic (i.e., direction dependent) multi-physics behaviors of layered materials may be utilized to measure other physical properties of objects that are produced using a variety of manufacturing techniques in a non-destructive manner. In particular, researchers at the Colorado School of Mines have developed a methodology by which the properties of layered material objects may be readily determined by simple electrical measurements.

### **Main Advantages of this Invention**

- Cost-effective
- Non-destructive
- Easy test to administer

### **Potential Areas of Application**

- Quality assurance for objects constructed via 3D printing
- Process qualification for low-run layered manufacturing production
- Prognostic health management for in-service layer-manufactured components

**ID number:** 14039

**Intellectual Property Status:** US utility patent pending (application #14/747,695)

**Opportunity:** We are seeking an exclusive or non-exclusive licensee for marketing, manufacturing, and sale of this technology.

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### **For more information contact:**

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