

# Dielectric Strength Enhancement of Polymers with Nano-particle Inclusions

**Applications:**

- Power Systems Applications
- Implantable Medical Devices

**Advantages:**

- High Dielectric Strength
- Easily Adaptable Process



Nanocomposite sample with low concentration of  $\text{TiO}_2$  with Ag contacts

**Summary:***Technology Description*

A method for fabricating composites of different polymer / nanoparticle components.

*Technology Application*

Fabrication of a composite of  $\text{TiO}_2$  (nanoparticles) + Polyvinyl Alcohol (PVA). This nanocomposite can be used in various power systems applications.

**Stage of Development:** Proof of Principle

**Patent Status:** Patent pending

**Licensing Status:** Available for licensing

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