

Magneto-Inductive Transmitter With Electrically Modulated Reluctance

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The Invention

A magneto-inductive transmit antenna is provided that includes a shield formed of a magnetic material, a magnetic field source mounted on a first side of the shield, and a coil wrapped around the shield to define a number of turns. The coil is configured to conduct a current therethrough. The magnetic material is configured to exhibit a change in permeability based on the current conducted through the coil when the current is conducted through the coil. The change in permeability is configured to modulate a magnetic field of the magnetic field source. The magnetic field is modulated relative to a second side of the shield opposite the first side when the permeability is changed.

Additional Information

For More Information About the Inventors

• John Booske

Tech Fields

- Information Technology : Hardware
- Information Technology: Networking & telecommunications

For current licensing status, please contact Michael Carey at mcarey@warf.org or 608-960-9867

