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#### (54) CONFIGURABLE FARADAY CAGE

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#### (57) ABSTRACT

A configurable cage of Faraday has a cavity enveloped by a layer of conductive material whose resistance can be modified by an external stimulus. The conductive material may be inside or outside a substrate or may be without a substrate. The layer may be continuous, or applied in a pattern, such as a mesh. The conductive material can be a perovskite or a phase-change memory material, and the external stimulus can be electrical. Various electrical pulses can be used to configure the resistance/conductivity of the material, and therefore the level of shielding from magnetic waves that the Faraday cage provides.



