

RFID-ENABLED CONTAINER SEAL HOLDER - ABSTRACT

A reusable device for ensuring and monitoring integrity of the mechanical seal for cargo containers. The device has a housing that aligns and allows the bolt and mating receptacle of the mechanical seal to be locked together, a base with an embedded radio frequency identification (RFID) tag, and a micro-switch that detects and monitors the status of the seal in operation. Once the seal is broken, the micro-switch is activated, the RFID tag can record this occurrence and wirelessly indicate to a nearby RFID reader that the container door has been tampered with. The individually tagged holder can also contain information such as container number, location, status as relates to supply chain visibility for the real-time tracking of goods.

See Figure 2 in the drawings.



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