

Container Security Device

Door status monitor systems arranged to detect tampering events for a shipping container

Researchers at Georgia Tech have created an invention that provides improved shipping container status monitoring systems and methods. In general terms, the invention includes door status monitor systems arranged to detect tampering events for a shipping container. The door status monitor system includes an array of sensors operatively disposed to communicate with a controller. The controller can continually monitor sensors to determine possible tampering events. If tampering events occur, the controller can log the event or transmit tamper signals. This system can be used on various types of containers.

Summary Bullets

- **Versatile:** can be used on various types of containers
- **Facilitated communication:** the door sensors are able to communicate with a controller
- **Efficient:** does not require reduction or intrusion of cargo space

Solution Advantages

- **Versatile:** can be used on various types of containers
- **Facilitated communication:** the door sensors are able to communicate with a controller
- **Efficient:** does not require reduction or intrusion of cargo space

Potential Commercial Applications

- Monitoring systems
- Door status monitoring

Background and More Information

Security threats stemming from containers is an area where technology can aid in preventing or thwarting security breaches. As one example, international shipping containers carrying goods into a country may be tampered with or contain unauthorized or harmful material. Vulnerability to tampering is a shortcoming in conventional container security devices. Current container security technologies do not fully address the full array of shipping container security concerns. These concerns include harsh environmental conditions, extreme operating conditions, and high false-alarm rates. As a result there is a need for improved container status monitoring systems and methods.

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IP Status

<p>Patent has issued</p>: US8810398B2

Publications

[GTRI Develops New Technologies to Secure Cargo Containers: The Systems Were Demonstrated for the Dept. of Homeland Security](#), - September 7, 2009

Images

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<https://s3.sandbox.research.gatech.edu//index.php/print/pdf/node/3547>