

Licensable Technologies

Security Seals and Intrusion Detectors

Applications:

- Cargo security for all sizes of shipment containers
- Computer network security
- Safe security
- Detection of tampering and intrusion
- Prevention of unauthorized access

Benefits:

- State-of-the-art intrusion detection
- Highly tamper resistant
- Relatively low cost
- Reusable parts
- Easy to use and install

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Summary:

Security is an important consideration for the transmission of any valuable item whether the transmission is done electronically, through courier services, or through commercial cargo lines. Security concerns are not limited to threat of theft or physical destruction. For many corporate and government agencies, the reading or copying of sensitive documents by unauthorized personnel can be equally as devastating as any theft. For this reason, security seals are important not only for preventing a cargo or data shipment from being opened, but also for the detection of any kind of tampering or unauthorized access to the contents of the cargo or transmission.



Beads-in-a-Box Seal

Los Alamos National Laboratory (LANL) has developed a portfolio of security seals and intrusion detection devices that can be applied to cargo, safes, and computers. This portfolio comprises a number of technologies that both prevent unintended access to the shipment and alert the senders and recipients of the transmission to any tampering encountered en route to the final destination. The LANL portfolio was developed by the Laboratory's internationally recognized Vulnerability Assessment Team. This team has tested and defeated over 200 commercially available security seals. Their expertise ensures that the technologies in this portfolio are state-of-the-art.

Development Stage:

The technologies in this portfolio have been tested and proven reliable. They are ready for deployment but will require further development for low-cost manufacture.

Patent Status:

Patent No. 6784796: Magnetic Vector Field Tag and Seal

Patent No. 6553930: Tamper-Indicating Device Having a Glass Body

Disclosure: Method for Detecting Use of the Mas-Hamilton X-07 and Other Electronic Safe Locks

Disclosure: Hasp-less (plug) Lock and Seal

Disclosure: "Beads-in-a-Box" Seal

Disclosure: Multi-Layer Wire Loops Seal

Disclosure: One-time Keypad Seal

Disclosure: RJ Computer Lock and Seal

Disclosure: Magic Slate Seal

Disclosure: Tamper and Intrusion Detection Using an Aeolipile

Licensing Status:

Available for exclusive and non-exclusive licensing.