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1. DMEA15B-001: Optimized Scintillator for High Resolution X-ray Imaging at 9keV

Release Date: 04-24-2015Open Date: 05-26-2015Due Date: 06-24-2015Close Date: 06-24-2015

Rapid Integrated Circuit (IC) inspection using x-ray microscopy requires novel x-ray scintillating materials with high efficiency and high spatial resolution. Current scintillator materials, such as Cesium Iodide (CsI), suffer from a trade-off between efficiency and spatial resolution. Novel materials with higher stopping power and light yields are necessary to address the stringent requirements o ...

STTR Defense Microelectronics ActivityDepartment of Defense

2. H-SB015.1-001: DNA and Latent Fingerprint Collection from Same Sample

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a method for latent print work and DNA analysis from the same sample while optimizing DNA extraction protocol for fingerprints deposited on evidentiary materials used for human identification. DESCRIPTION: Forensic evidence collection is an essential tool for acquiring information for law enforcement investigations and latent fingerprints are the main piece of evidence to inve ...

SBIR Department of Homeland Security

3. H-SB015.1-002: Low-cost, Disposable, Tamper-Proof Bolt Seal

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop, prototype, and demonstrate a low-cost electronic reusable and/or disposable, tamper-proof cargo container/conveyance bolt seal for the maritime and air cargo environments. DESCRIPTION: The current generation of bolt seals, despite being ISO-17712-2013 compliant, provides only limited protection from tampering and illicit entry into the container or conveyance. They can be def ...

SBIR Department of Homeland Security

4. H-SB015.1-003: Enhanced Distributed Denial of Service Defense

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop tools, techniques, and polices that mitigate the impact of distributed denial of service (DDoS) attacks. DESCRIPTION: Distributed Denial of Service (DDoS) attacks are used to render key resources unavailable. For example, a classic DDoS attack might disturb a financial institution’s website, and temporarily block a consumer’s ability to conduct online banking. A mo ...

SBIR Department of Homeland Security

5. H-SB015.1-004: Privacy Protecting Analytics for the Internet of Things

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop and commercialize analytic capabilities and systems to characterize information from large collections of static and mobile sensors while protecting the privacy of individuals. DESCRIPTION: With the rapid proliferation of sensors, embedded systems, and big data analytics come a host of opportunities for improving safety and security services for the public, critical infrastruc ...

SBIR Department of Homeland Security

6. H-SB015.1-005: A Wearable Communications Hub Designed to Streamline and Improve First Responder Communication Capabilities

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a high-level, scalable next-generation architecture and prototype for an intelligent communications interface device (also referred to as a communications hub) that serves to interconnect wearable technologies (e.g., video camera, sensors, heads-up displays) and voice communication tools to an array of radio communication devices carried by a first responder. DESCRIPTION: Toda ...

SBIR Department of Homeland Security

7. H-SB015.1-006: Total Vehicle Mobile X-Ray Scanner

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Develop a real time mobile X-Ray scanning and diagnostics device that can quickly scan an entire vehicle in near real time in order to determine if any explosive devices are present. DESCRIPTION: Vehicle Borne Improvised Explosives Devices (VBIEDs) are the choice weapons of terrorists that threaten the security of a society. To counter this threat, the First Responders and other law e ...

SBIR Department of Homeland Security

8. H-SB015.1-007: Canine Mounted Track and Transmit Device

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: Demonstrate canine carried low profile GPS with stabilized integrated camera, to real-time track, record and transmit canine's path of movement. DESCRIPTION: Develop a tracking device that will attach to a canine for the purpose of documenting the movements of the canine for court/evidence purposes or verification of area(s) that have or have not been searched by a canine during ...

SBIR Department of Homeland Security

9. H-SB015.1-008: Mass/Shielding Anomaly Passive Detector Module

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE : Develop an innovative system to detect highly shielded special nuclear material (SNM) contained within Personally Owned Vehicles (POVs) through measurements of total mass, mass distribution, density, or whether it is high-Z material. DESCRIPTION: Technology is sought to detect highly shielded special nuclear material within Personally Owned Vehicles (POV) at checkpoints, entry points ...

SBIR Department of Homeland Security

10. H-SB015.1-009: Stable Semiconductor Modules as Core Component in Pager Radiation Detectors

Release Date: 12-03-2014Open Date: 12-17-2014Due Date: 01-21-2015Close Date: 01-21-2015

OBJECTIVE: To develop a semiconductor-based module for enhanced radiation detectors in pager applications. The selected semiconductor materials shall have neutron or gamma detection capability. Design and performance objectives shall satisfy or exceed the requirements set forth in the ANSI standards N42.32. DESCRIPTION: Advances in radiation detection materials will greatly impact our present nu ...

SBIR Department of Homeland Security

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