



Preconcentration of High Vapor Pressure Explosives

BENEFITS

- Specifically addresses a new threat
- Leverages LVP research and development
- Integrated apparatus and method for HVP and LVP particle detection

APPLICATIONS

- Airport Passenger Screening
- Security
- Explosives Detection

PATENTS PENDING

- SD 10135

LICENSING & PARTNERING

Various licensing and partnering options are available.

Please contact the Intellectual Property Department to discuss.

Technology Summary

The collection and preconcentration of high vapor pressure explosives (HVP) has recently become a challenge in explosives detection. Prior to the London bombings in 2005, low vapor pressure explosives (LVP) were thought to be the main concern from terrorism. The London incidents, however, have demonstrated that high vapor pressure explosives can offer a powerful and damaging level of threat.



Current collection and preconcentration systems were developed for low vapor pressure explosives detection. These systems need changes to handle a new explosives threat. Identification of this new threat has led to the Sandia discovery which addresses

the unique challenges associated with high vapor pressure explosives. Sandia researchers have devised a means to collect and preconcentrate high vapor explosives.

Technology Readiness Level

Sandia estimates this technology at approximately TRL 2. The concept and primary applications have been formulated.

Virginia Cleary | 505.284.8906 | vdclear@sandia.gov



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