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## **SEDS Patents**

- US 7,573,044 B2 Remote Detection Of Explosive Substances GRANTED 8/11/09 - Priority 7/18/06
- US 12/503,300 Remote Detection Of Explosive Substances (Continuation-in-Part of 7,573,044) Filed 7/15/09 PENDING
- PCT/US2009/065706 Background Signal Reduction In Neutron Fluorescence Applications Using Agile Neutron Beam Flux Filed 11/24/09 Priority 11/24/08 PENDING
- PCT/US2009/065680 Thermal, Epithermal And Cold Neutron Beam Forming Using Momentum Transfer Filed 11/24/09 Priority 11/24/08 PENDING
- US 61/167902 Minimizing Detector Noise ... Using Neutron Flux Modulation And Gamma Ray Detector Pulse Gating Synchronized To Neutron Time Of Flight Filed 4/9/09 Priority 4/9/09 PENDING
- US 61/244,570 Low-Cost, Organic-Scintillator Compton Gamma Ray Telescope Filed 9/22/09 Priority 9/22/09 PENDING

## **Adelphi Patents**

### GRANTED

- 7,177,389 X-ray tomography and laminography – 1/7/2005 – Charles Gary
- 6,992,313 X-ray and neutron imaging - 9/17/2002 – Mel Piestrup
- 6,765,197 Methods of imaging, focusing and conditioning neutrons – 9/27/01 – Mel Piestrup, *et al*
- 6,674,583 Fabrication of unit lenses for compound refractive lenses – 6/25/2002 – Mel Piestrup, *et al*
- 6,545,436 Magnetic containment system for the production of radiation from high energy electrons using solid targets – 11/24/2000 – Charles Gary
- 6,269,145 Compound refractive lens for x-rays – 5/7/1999 – Mel Piestrup, *et al*
- 6,201,851 Internal target radiator using a betatron – 9/4/1998 – Mel Piestrup, *et al*
- 5,107,508 X-ray laser – 9/16/1990 – Mel Piestrup
- 5,077,774 X-ray lithography source – 8/21/1990 – Mel Piestrup, *et al*
- 4,951,304 Focused X-ray source – 7/12/1989 – Mel Piestrup, *et al*

### PENDING and PROVISIONAL

- US 60/812,114 Compact Neutron Source and Moderator (with LBL)
- US 61/268,367 Multi-beam, cylindrical, and linear source neutron generators