

# TechBriefs

## Savannah River National Laboratory

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### At a glance

- > U.S. patent 6,808,148
- > Canadian patent 2,526,020
- > Enables mobile use of plasma screens
- > Protects expensive equipment
- > Prolongs equipment life

### Contact Information

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## Plasma Screen Floating Mount

Engineers at the Savannah River National Laboratory (SRNL) have invented a new mounting system for flat panel video technology. The plasma screen floating mount is a mounting system proven to eliminate vibration and dampen shock for mobile uses of plasma screens, thereby eliminating interference to the picture on the screen or damage to costly equipment.

### Mounting system eliminates vibration and dampens shock

Manufacturers recommend against mounting large screen displays in environments where shock and vibration occur. SRNL devised the floating mount for use in a mobile laboratory van. This high-tech lab on wheels performs a wide variety of monitoring and detection activities, often while driving down the highway. The large 42-inch screen using this mounting system provides stable, interference-free pictures even while traveling at 65-70 mph. The mount supports a plasma display screen weighting about 60 pounds.



### How it works

The lightweight frame wraps around the periphery of the plasma display screen. The frame is designed to allow the display to “float” within a three-dimensional space. This floating eliminates vibration and dampens shock to the display in the event of external impacts such as pot holes or rough terrain. The floating mount also provides added protection to your equipment investment during transit or for shipping between various locations.

### Adaptable for many applications

The plasma screen floating mount should be useful for applications such as medical, defense, environmental mobile laboratories, mobile command centers or broadcast vehicles.



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### Technology transfer

The Savannah River National Laboratory (SRNL) is the U.S. Department of Energy's (DOE) applied research and development laboratory at the Savannah River Site (SRS).

With its wide spectrum and expertise in areas such as homeland security, hydrogen technology, materials, sensors, and environmental science, SRNL's cutting edge technology delivers high dividends to its customers.

The management and operating contractor for SRS and SRNL is Savannah River Nuclear Solutions, LLC. SRNS is responsible for transferring its technologies to the private sector so that these technologies may have the collateral benefit of enhancing U.S. economic competitiveness.

### Showcased at international forum

This technology has been selected for presentation at the World's Best Technologies Showcase. The World's Best Technologies Showcase is an international competition showcasing seed-stage technologies and licensing opportunities from top universities, federal laboratories and agencies, research institutions, and private companies. Each year, up to 75 exhibitors are selected on the basis of having the greatest potential for high growth commercial enterprises. The Plasma Screen Floating Mount was chosen as one of the top 25 exhibitors. World's Best Technologies is produced in cooperation with the Federal Laboratory Consortium for Technology Transfer and the National Association of Seed and Venture Funds.

### Partnering opportunities

The U.S. Patent and Trademark Office has issued Patent No. 6,808,148 on this invention. Canada has also issued patent No. 2,526,020.

SRNS invites interested companies with proven capabilities in this area of expertise to enter into a licensing agreement with SRNS to market this nuclear material detection system. Interested companies will be requested to submit a business plan setting forth company qualifications, strategies, activities, and milestones for commercializing this invention.

Qualifications should include past experience at bringing similar products to market, reasonable schedule for product launch, sufficient manufacturing capacity, established distribution networks, and evidence of sufficient financial resources for product development and launch.

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