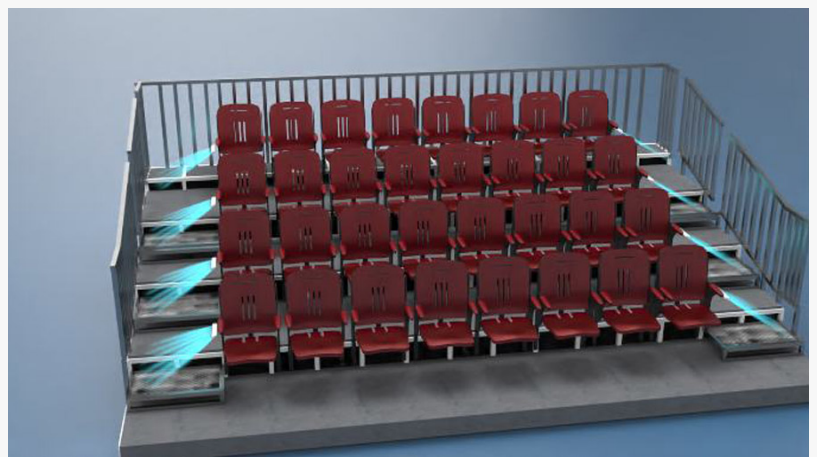


Germinator Combines Multi-Stage Air and Surface Disinfection with Environmental Monitoring

PITTSBURGH, PA, UNITED STATES, September 1, 2026 /EINPresswire.com/ -- Jo E. of Bells, TN is the creator of the Germinator, an automated air and surface disinfection system designed to help reduce the transmission of contagious viruses in high-traffic indoor environments. The system is intended for installation at critical transition points, including doorways, corridors, building entrances, and access gates, where individuals frequently pass through and where airborne particles and contaminated surfaces can contribute to pathogen transmission.

The compact unit measures approximately 12 inches in length and 5 inches in width, with a slanted front profile designed to integrate with over-the-door or side-door architectural configurations. An internal compartment houses a disinfectant delivery system containing up to six spray nozzles or nodules. A sensor bar positioned below the spray outlets can detect individuals as they pass through the designated area that triggers the release of a fine disinfectant mist intended to treat surrounding air and surfaces within an approximately 5.5-foot radius. The automated approach

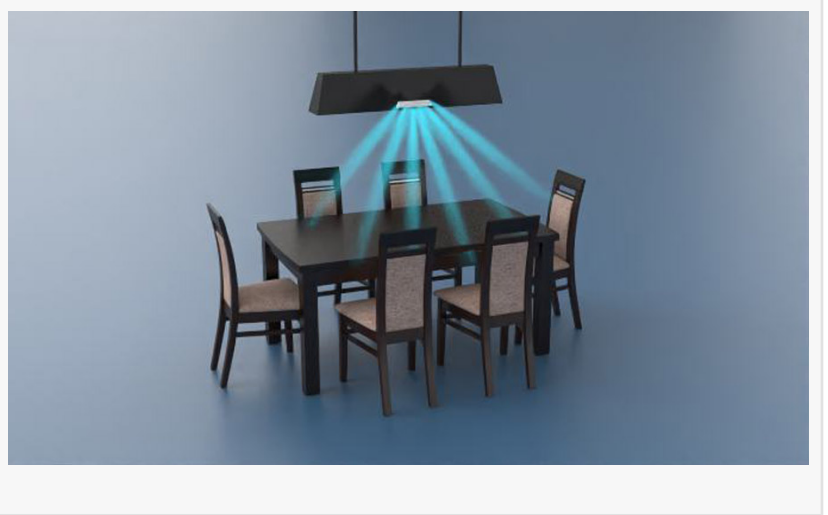


reduces reliance on manually applied disinfectants and allows treatment to occur as people move through designated transition areas.

Germinator can also incorporate multiple supplemental sanitization technologies within the same housing. Snap-in HEPA and activated-carbon filters can provide particulate and contaminant removal, while a UV-C LED chamber can be used for pathogen inactivation within the device. A bipolar

ionization grid can provide an additional mechanism for treating aerosolized particles.

Environmental sensors can monitor factors including particulate concentration and humidity, while system connectivity can enable centralized monitoring, operational control, and data collection across multiple installed units. These capabilities allow the system to function as both a localized disinfection device and a networked environmental monitoring platform.



Key features and benefits include:

- Automated detection: Sensors identify when individuals pass through designated areas and can initiate the disinfection cycle without requiring manual activation.
- Air and surface treatment: A fine disinfectant mist is designed to address both airborne particles and nearby surface contamination.
- Multi-stage filtration: Optional HEPA and activated-carbon filters provide additional particulate and contaminant removal.
- Data and network connectivity: Connected units can provide centralized monitoring, operational control, and collection of environmental data across multiple locations.
- Scalable deployment: The system can be configured for residential, commercial, educational, entertainment, and transportation environments.
- Continuous preventive operation: Automated treatment at high-traffic transition points provides an additional layer of infection-control support between conventional cleaning cycles.

High-traffic indoor environments can present challenges for infection-control programs because individuals continuously introduce and redistribute airborne particles and potentially contaminated material. Conventional cleaning procedures generally depend on scheduled or manually performed disinfection and create periods between treatments in which environmental conditions can change. In addition, traditional surface-cleaning practices do not directly address continuously circulating aerosolized particles.

The Germinator is designed to complement established cleaning and infection-control procedures by placing automated treatment and environmental monitoring directly at points of

frequent human movement. Rather than relying exclusively on periodic manual intervention, the system combines sensing, controlled disinfectant delivery, filtration, UV-C treatment, ionization, and environmental data collection within a compact installation. The architecture provides facility operators with an additional technical layer for managing environmental contamination and monitoring conditions in areas where large numbers of people routinely pass through.

Jo filed her Utility Patent with the United States Patent and Trademark Office (USPTO) and is working closely with [InventionHome](#), a leading invention licensing firm, to sell or license the patent rights to her Germinator product. Ideal licensing candidates would be U.S. based product manufacturers or distributors looking to further develop and distribute this product innovation.

Companies interested in the Germinator can contact InventionHome at member@inventionhome.com. Inventors currently looking for assistance in patenting, marketing, or licensing their invention can request information from InventionHome at info@inventionhome.com or by calling 1-866-844-6512.

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