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Augmented Reality (AR) Window Projection and Sensory System -- Patent Granted

Columbia, MO : Today, WINDGO, Inc., a research and development company specializing in smart material and vibrational transfer technologies announced that they were granted US Patent # 9,951,835. WINDGO's latest patent innovation provides affordable options for manufacturing Augmented Reality (AR) projection and sensory window systems. Applications include digital signage projection appliance doors and windows, virtual reality visors, goggles, and helmets just to mention a few. Buildings, vehicles, and handheld devices can all utilize this embedded technology to layer sensors between panes of glass in order to build sensing windows as well as smart-TV windows and doors. By utilizing special embedded insert modules that contain sensors these new smart windows will be able to communicate with the Internet of Things (IoT) network infrastructure of the future. By adding an internal angled projection plane within window structures the patented technology will be able to provide bidirectional video interaction with users seamlessly while being able to see clearly through the window when desired.

Augmented reality interfacing becomes possible through inexpensive projection and sensor module placement inside the window itself. Video cameras, motion detectors, temperature sensors, glass breakage sensors, earthquake seismic detectors, and light touch keypads are all features that can be embedded using this patented technology through the use of interconnecting insert modules called smart intersects. Smart intersects can be self-powered and manufactured between two panes of glass creating a sealed environment for sensitive electronics and invisible to the user. Power sources include battery, low-voltage, solar, and WiFi remote wireless powering methods.

Patented methods allow windows to be constructed of vinyl, metal, or plastic allowing markets to produce high-profile digital kiosk displays as well as low-cost headsets utilizing the same micro-projection acute angle projection technology described within the patent. Additional features of the patented technology include the ability to absorb impacts and avoid glass breakage through the use of micro-Absorbud technology within the smart intersects. The impact dispersing technology can even be used for waveform noise canceling which can dramatically reduce sound transfer through a window. Imagine sound-canceling windows in your home.

WINDGO, Inc. is focused on the IoT End-Node market expansion that is forecasted to exceed one trillion dollars by 2025. Their new patent protects the methods of embedded sensing and acute angle projection within smart windows, doors, kiosks, and helmets. Smart window technology using this patent is scheduled for production in 2019.

This new invention is based on technologies that evolved from the original works of inventor Fielding Staton. His invention of the Absorbud in 2013 has led to industry changing advancements in macro, micro, and nano-based technologies.

Inventor: Fielding Staton of Liberty, MO

About WINDGO, Inc.: WINDGO, Inc. (www.WINDGO.com) is a privately held company based in Columbia, MO. Founded in 2016, WINDGO, Inc. has researched, developed, and produced a variety of smart window products and other intelligent product subsystems in the sensory and digital signage markets. WINDGO, Inc. has several patent holdings including Absorbud, smart damping adhesives, and robot skin membranes within its Intellectual Property holding company – Newtonoid, LLC which has been in the research and development business since 2013.