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Intellectual Property:

Utility Patent
US 17/374,099 | 4481.2

*Insulation and cooling
system for temperature
sensitive materials*



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Business Description / Company Background:

Insu Health Design is technology research and development firm based out of Puerto Rico. The team comprised of STEM and Business backgrounds with previous industry experiences. The company's Intellectual Property is a Utility Patent for a novel insulation and cooling system that enables precise cooling, heating, and temperature maintenance while using far less energy than competing technologies.

Market Opportunity / Unmet Need:

The biopharma industry loses \$35 billion annually as a result of failures in temperature-controlled logistics, according to IQVIA Institute for Human Data Science. Temperature fluctuations have been shown to cause temperature-sensitive medications (Insulin, Humira, Neupogen, etc.) to gradually lose their potency or completely spoil. This leads to a potential increase in prescription refills both to replace spoiled medication as well as due to patients using more medication than prescribed to achieve the same therapeutic outcomes. The risk of spoilage and degradation is intensified for patients living in areas with unstable power grids, especially those prone to natural disasters. Millions of patients in the US lack peace of mind, as their life-critical medicine is at risk in times of travel, power outage, natural disaster, and even during everyday storage. There are over 200 different temperature sensitive medications that our innovation can support. Moreover, the same technology can be leveraged in additional applications such as the storage and transportation of breast milk, hormones, chemicals, organs, and more.

Product / Services:

Our technology *Insu* enables the creation and operation of hardware devices that can cool and heat volumes very efficiently. The system removes the risk of heat back-flow from the powered cooler to the content volume, and in doing so increases the potential battery life of the device and removes the risk of the contents rapidly heating when the cooler loses power. Compared to similar systems, the active cooling components of *Insu* system only needs to be powered on 10-15% of the time, leaning on the highly insulating properties of the vacuum flask. Because of the additional components, this equates to roughly an 60-80% reduction in power consumption, depending on the ambient temperature and required temperature range. This will allow new product development for users to safely store and transport medicines or sensitive goods in daily home usage, traveling, natural disasters, power outages, or extreme ambient temperatures. Battery-powered system could last over 72 hours with no external electricity.



Competition / Competitive Advantage / Customer Benefits:

The main current market options are Apollo Walker, CGGoldenwall, and Dison. We purchased competitive products, and our testing has shown that our prototype lasts 6 times longer on battery and is the only product accurately reaching and maintaining the required temperature range while still offering portability. Our system only runs 7% of the time as opposed to virtually 100% of the time with current market options. This allows us to serve a bigger market including the travel, active, and outdoors lifestyles, as well as industrial distribution for pharmacies, disaster relief, and military applications. The technology has the potential to become the new standard for refrigerated personal medication storage, with the potential of additional applications for bio-components, cold chain transportation, storage space industries, and vaccine transportation.

Licensing:

Our cutting-edge insulation and cooling technology offer unmatched efficiency, sustainability, and performance. With its unique features and capabilities, it promises to meet the growing demands of today's market while paving the way for a greener and more sustainable future. By acquiring licensing rights to our technology, you'll gain access to a game-changing solution that opens doors to gain a competitive edge in the market, positioning your products as leaders in performance and efficiency.

Whether you're a visionary investor seeking to capitalize on a disruptive technology or a forward-thinking seller looking to enhance your product offerings, this is your opportunity to be at the forefront of innovation. Join us in shaping the future of insulation and cooling. Together, we can drive success, sustainability, and progress.

Contact us today to learn more about how you can secure licensing rights to our revolutionary technology and embark on a journey towards unparalleled success.