**Smart Box for Health Logistics**

**Title:** Smart Box for Health Logistics

**Invention:** This invention is a supply chain strategy that incorporates the use of a smart shipping box. The technology also incorporates electronic monitoring panels to control the environment of the conditions during shipment. The innovation stands in stark contrast to traditional shipping methods, which offer refrigerated shipping, but can be costly and less effective. Remote monitoring of the packages allows for tracking of the GPS location, temperature and moisture inside the package, and other sensing data. Furthermore, this smart box allows for pre-processing of samples during shipping. Therefore, by the time a sample has reached the testing facility, it is immediately ready to be run for analysis.

**Background:** In an age of growing technology, there is always a need for new and innovative technology to increase the efficiency of the technology. In this case, there is an expanding market for transportation of critical medical products and there is a need for a cost effective and efficient way to transport the products without spoilage. Although transportation is available, even through large companies such as UPS and FedEx, there is still a need for greater efficiency and decreased cost. The innovation looks to fill this gap by solving the common problems and bringing innovation to a field where life-saving medicine needs to be transported safely to increase their impact on society.

**Applications:**

- Stand alone product that can be sold on online marketplaces or marketed directly to manufacturers of targeted products
- Sold to transportation companies (i.e. FedEx, UPS, etc.) for them to use with their pre-existing services
- Sold to hospital, doctor’s offices, clinics, and more, to allow them to increase their services to patients

**Advantages:**
• Features innovative techniques that allow for specific shipping of medical materials
• Has the capability to be remotely monitored
• Lower cost than conventional shipping methods
• Has already been tested and validated on a cross-country trip

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