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Patent Search

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Abstract:

MEDICINE DELIVERY DRONE AND METHOD THEREOF ABSTRACT A medicine delivery drone (100) is disclosed. The delivery drone (100) comprising: a frame (102) comprising a storage container (108) designed to securely hold and protect the medicines during transport; propellers (104a-104d) attached to the frame (102) and configured to create thrust; motors (106) adapted to drive the propellers (104a-104d) for achieving lift and movement. A processor (118) is configured to: receive Global Positioning System coordinates for autonomous navigation from a base location to a pharmacy and from the pharmacy to a location of a customer; actuate a loading mechanism for automatically loading ordered medicines upon arrival at the pharmacy; navigate the delivery drone (100) based on the received Global Positioning System (GPS) coordinates to the location of the customer; actuate a verification mechanism for ensuring secure delivery by prompting the customer to provide a One Time Password (OTP); and release the medicine. 10, Figures: 6 Figure 1A is selected.

Complete Specification

Description:BACKGROUND

Field of Invention

[001] Embodiments of the present invention generally relate to a drone, particularly to a medicine delivery drone.

Description of Related Art

[002] A drone, also known as an unmanned aerial vehicle (UAV), is a type of an aircraft that operates without a pilot on board. Drones are typically equipped with range of technologies including Global Positioning System (GPS), cameras, and sensors that allow them to navigate autonomously or be controlled remotely. They have been increasingly utilized in various fields such as agriculture, surveillance, and logistics due to their ability to perform tasks efficiently and access hard-to-reach areas.

[003] Dispensing medicines, especially in emergency situations, presents several challenges. The key difficulties include ensuring timely delivery, maintaining the integrity and safety of the medicines during transport, and verifying the recipient's identity to prevent misuse. Medicines often require specific storage conditions and handling procedures to ensure their efficacy. Additionally, the urgency of medical deliveries necessitates a system that can operate swiftly and accurately, minimizing and errors that could impact patient health.

[004] Common methods of delivering medicines include traditional courier services, postal services, and pharmacy delivery personnel. In many cases, medicines transported by ground vehicles which can face traffic congestion, delays, and limitations in reaching remote or hard-to-access locations. Some pharmacies also offer home delivery services using dedicated personnel. While these methods can be effective, they often encounter limitations related to speed, accuracy, and the ability to handle urgent deliveries.

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