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Two-way charging protocol for foldable containers used in drone stations

Ultra-fast & cross-platform battery charging system ready for integration with any docking system.

Accordingly, a need exists for an improved drone landing, charging, and data transfer system. In one embodiment of the present invention, a system is provided that facilitates the autonomous...

Dai has developed a guidance, navigation and control (GNC) system that allows drones to dock autonomously in the air. She has paired this with the idea for a larger network of charging ...

Its safe and smart charging protocol, coupled with multiple protections, guarantees the security of operations, while the container"s aluminum alloy and steel composition fortify its durability.

Modern world moving towards drones for delivery, the necessity to develop suitable charging solution for these drones is imminent. Charging stations are require.

In addition to traditional battery exchange services and stationary charging stations, researchers have proposed wireless charging technology, such as decentralized laser charging or drone-to-drone ...

In this paper, a novel foldable coil and charge station design is proposed for the wireless charging of UAVs. IPT is provided by receiver and transmitter coils placed on the drone legs and the ...

A deep analysis into state-of-the-art docking systems for drones and unmanned aerial vehicles (UAVs) that provide reliable and consistent docking/undocking in all conditions.

We propose the creation of an automated charging station characterized by its cost-effectiveness, portability, and user-friendliness, facilitating seamless battery replenishment for drones.

Drone docking methods and battery swapping techniques are proposed. The different wireless power transfer (WPT) methods used for drone charging is studied and analysed. The circuit ...

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