

A patent for household energy storage system



Overview

So essentially, Rivian has a patent on its own branded energy storage system, which can include battery cells to store excess energy from a vehicle, the grid, or solar panels, and power a home at a homeowner's request, similar to technology already rolled out by competitors like . So essentially, Rivian has a patent on its own branded energy storage system, which can include battery cells to store excess energy from a vehicle, the grid, or solar panels, and power a home at a homeowner's request, similar to technology already rolled out by competitors like . Disclosed in the embodiments of the present invention is a household energy storage system. The household energy storage system comprises: a case shell, wherein the case shell comprises a bottom plate and a back plate. Copies of this patent or patent application publication with color drawing (s) will be provided by the Office upon request and payment of the necessary fee. The name of this design . Turbo Energy's patented technology is designed specifically for this shift. The system uses predictive analytics and optimization algorithms to intelligently coordinate solar generation, household demand, battery storage and EV charging based on historical consumption patterns, weather forecasts . (57) A household energy storage system and a mod-ule fixing structure thereof are provided. Innovative Technology: The platform aims to enhance energy efficiency and sustainability in residential settings through advanced AI integration.

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[Turbo Energy secures strategic patent for AI-driven solar, battery and](#)

Rather than treating solar, storage and EV charging as separate assets, the patented system allows them to function as an integrated home energy platform. "This patent grant reinforces

[Turbo Energy Secures Strategic Patent for AI-Driven Solar, Battery](#)

The system uses predictive analytics and optimization algorithms to intelligently coordinate solar generation, household demand, battery storage and EV charging based on historical



TURBO ENERGY SA

Patent Acquisition: TurboEnergy has secured a patent for an AI-driven platform focused on solar energy, battery technology, and home energy management. Innovative Technology: The platform aims to

[Rivian patents detail headlamp, energy storage system with V2X](#)

Filings from Rivian, published today, detail an ornamental headlamp design, as well as a home energy storage system similar to Tesla's Powerwall.





WO/2025/014653 ENERGY STORAGE SYSTEMS

Heat energy storage systems described herein can be used for long-term storage of large amounts of thermal energy. In some cases, such systems receive electrical energy from renewable

Household energy storage system

Embodiments of the present invention relate to the technical field of energy storage, and in particular to a household energy storage system. At present, home energy storage



Household energy storage system

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[Turbo Energy wins U.S. patent for EV home charging , TURB Stock](#)

Turbo Energy received U.S. Patent No. 12,503,000 B2 for an AI-driven home energy optimization system. According to the company, the patent protects algorithms that coordinate solar,



Energy storage and other enabling technologies , epo

Electrochemical, heat and mechanical energy storage technologies are available in many forms, and future scenarios may incorporate any of the diverse technologies explored below, each

favouring

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