New Energy Battery Cabinet Testing Patent

Which technologies grew in relevance to battery patenting?
We find that several battery-related technologies and applications, such as energy storage systems, battery management systems, wireless power transmission, electric vehicle charging, and uncrewed aerial vehicles (i.e., drones), grew in relevance both in absolute terms and relative to general battery patenting activity.

Are lithium-ion batteries patentable?
To be very clear: This especially means that the lithium-ion battery category does not contain any patent familiestagged as solid-state battery inventions. The fourth step's purpose was to add patent data related to redox-flow and nickel-hydrogen batteries to the dataset.

Are all patents related to solid-state batteries tagged?
Please note that due to the considerable overlap of the concept of solid-state batteries with other technologies,especially lithium-ion batteries,all patent families that were classified as patents related to solid-state batteries were untaggedin any other category in which they acquired tags through the process described here.

Why is battery patenting a global trend?
We find that global battery patenting activity grew significantly in the 2000-2019 period. This stylized fact means that the comparative advantages of secondary approaches (rechargeable, redeployable, reusable batteries) have been continuously on the rise driven by innovation, making a direct contribution to socio-technical circularity.

Scientists at PNNL developed this patent-pending, deflagration-prevention system for cabinet-style battery enclosures. IntelliVent is designed to intelligently open cabinet doors ...

The battery sector has traditionally not seen as much patent litigation as may be expected in a growing market filled with innovative ...

The Y02E 60/10 international patent classification (IPC) is a specific technology classification indicating climate change mitigation technologies relating to energy storage ...

A battery cabinet and an energy storage system using same. The battery cabinet comprises a cabinet body in which a containing cavity is formed; a plurality of battery units stacked in the ...

New energy battery electric vehicles have attracted a lot of attention in recent years, and in the context of the global implementation of sustainable development and energy ...

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The battery sector has traditionally not seen as much patent litigation as may be expected in a growing market filled with innovative companies and new entrants. Patent ...

On the one hand, the progressive replacement of single-use batteries for rechargeable ones reduces materials consumption. On the other hand, more efficient and ...

In view of this, the present disclosure provides a battery cabinet and an energy storage system using the same, which are configured to solve the problems of mounting, fixation, and heat ...

Upgraded Testing Technology for New Energy Batteries: Zhongkaitong"s Patent Enhances Safety Testing 2025-09-12 13:04 New energy vehicles are becoming increasingly ...

Source: United States Patent and Trademark Office (USPTO). Credit: JinkoSolar Holding Co Ltd A recently granted patent (Publication Number: US12002979B2) discloses an ...

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With the popularization of new energy vehicles (NEVs), new energy batteries have become critical, but they face challenges such as range anxiety, charging speed, and lifespan, ...

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