

Patented battery cabinet exhaust channel technology

A technology for exhaust devices and battery cabinets, applied in electrical components, secondary batteries, secondary battery testing, etc., can solve problems such as explosion, mixing, and inability to discharge hydrogen, and achieve safety hazards, reasonable design, and suitable for production and promotional effects

The vent exhaust channels may be integrated with an enclosure assembly of the battery pack for purging battery vent byproducts from the battery pack during cell venting events. In some...

patent-pending deflagration prevention system for cabinet-style battery enclosures. Intellivent is designed to intelligently open cabinet doors to vent the cabinet interior at the first sign of explosion risk. This functionality provides passive dilution of accumulated flammable gases, minimizing the

safety technology to ensure compliance with norms and full protection to personnel and property against the potential hazards of storing, handling and charging of Lithium-ion batteries. o Fire tests in compliance with the most stringent international standards, such as EN 14470-1 o Protects in-stored Lithium-ion batteries from overheating due to external res for a period of at least 90 ...

patent-pending deflagration prevention system for cabinet-style battery enclosures. Intellivent is designed to intelligently open cabinet doors to vent the cabinet interior at the first sign of ...

The exhaust channel structure is beneficial to balancing the internal and external pressure difference of the whole battery pack, ensuring smooth exhaust, improving the safety performance...

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The dynamics model of the battery thermal management system is established, and the open-loop characteristics of the lithium-ion battery pack under the influence of the discharge time of the ...

A technology of exhaust device and battery cabinet, applied in the field of electric power, can solve problems such as system damage

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A directional exhaust device includes a first exhaust portion and a second exhaust portion. The first exhaust

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portion is in communication with a case of a battery. The second exhaust portion is in communication with the first exhaust portion and an ambient environment and configured to exhaust gas generated by the battery through the first ...

Scientists at PNNL developed this patent-pending, deflagration-prevention system for cabinet-style battery enclosures. IntelliVent(TM) is designed to intelligently open cabinet doors to vent the cabinet interior at the first sign of explosion risk. This functionality provides passive dilution of accumulated flammable gases, minimizing the ...

The exhaust manifold includes multiple individual gas paths in fluid communication with an exhaust outlet. The gas paths are configured to collect high-temperature gases from each of the plurality of battery cells and guide the high-temperature gases from each of the plurality of battery cells to the exhaust outlet. The exhaust ...

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patent-pending deflagration prevention system for cabinet-style battery enclosures. Intellivent is designed to intelligently open cabinet doors to vent the cabinet interior at the first sign of explosion risk. This functionality provides passive dilution of accumulated flammable gases, minimizing the potential for catastrophic explosion and reducing the risk of personnel injury. SYSTEM ...

When the exhaust device for the battery compartment is in use, the cabinet air conditioner is arranged on the battery compartment for cooling a storage battery in the battery...

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