

# Patent for thermal management system of battery cabinet

This patent application relates to batteries and more particularly to methods and systems for battery thermal management field, and more specifically, phase change material based internal ...

The disclosure relates to a battery case, which cools a battery to maintain the durability and performance of the battery and prevent a fire, and a heat management system for a battery module ...

An exemplary embodiment of the present disclosure provides a battery system comprising one or more battery modules, one or more thermal conduits, and one or more thermoelectric coolers.

For instance, battery modules include one or more battery cells that generate thermal energy (e.g., heat), which may increase a temperature within a housing of the battery module.

Provided in the present application are a thermal management method and apparatus for a battery system, and a battery management system and a vehicle.

This invention relates generally to the battery technology field, and more specifically to a new and useful battery thermal management system and method in the battery technology...

To achieve the foregoing and other objects a battery pack thermal management system for use in an electric vehicle is disclosed.

Thermal management systems based on the use of active cooling (e.g., such as based on forced circulation of air, liquid or other selected cooling medium) have been proposed for use in...

Moreover, temperatures above approximately 393 K pose a severe thermal runaway risk. Therefore, developing effective thermal management solutions is paramount for the longevity, safety, ...

In the battery thermal management system of the present utility model, when the external temperature is low, heat of a battery can be dissipated by only the first heat exchange unit, and the ...

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