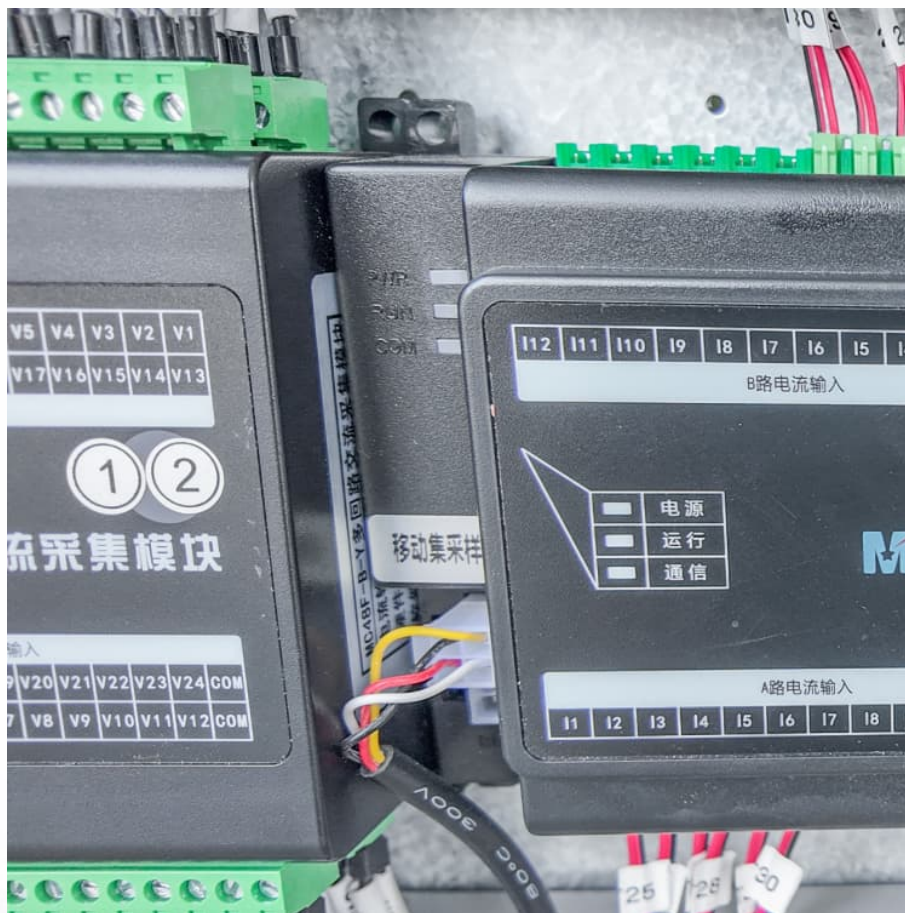


Energy storage thermal management invention patent





Energy storage thermal management invention patent



Thermal energy storage and power generation systems and methods Patent

U.S. patent number 10,107,268 [Application Number 14/846,201] was granted by the patent office on 2018-10-23 for thermal energy storage and power generation systems and methods. This ...

Thermal management of vehicle systems using thermal energy storage ...

According to a second aspect of the invention there is provided a vehicle comprising a thermal management system, the thermal management system comprising a vehicle thermal energy ...



US20190360730A1

FIG. 1 shows a typical thermal management system for a high heat flux load consisting of three cascaded loops consisting of cooling loop, thermal energy storage loop, and thermal lift loop. ...

US20190319249A1

U.S. patent application Ser. No. 14/056,552 describes features of cooling tubes for thermal management as can be used within an energy storage system of the present invention.

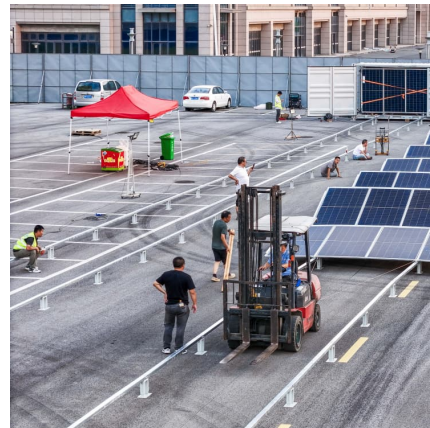


(19) United States (12) Patent Application Publication (10) ...

In order to commercial ize advantages of thermal energy Storage in large and Small commercial buildings, thermal energy Storage Systems must have minimal manufacturing costs, maintain ...

Geothermal Patents (Class 60/641.2)

Abstract: The present invention relates to a vertical relay fluid storage barrel installed with fluid inlet and fluid outlet for whole or in part placement into natural thermal ...



[WO/2024/174472 ENERGY STORAGE THERMAL MANAGEMENT ...](#)

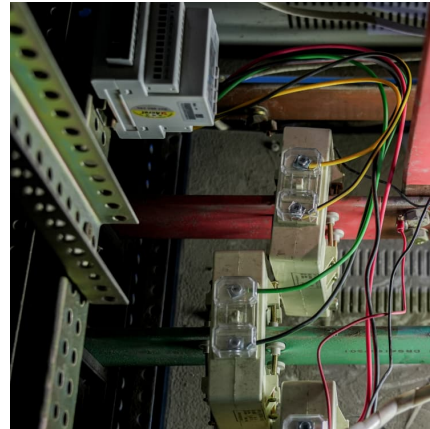
Provided in the present invention are an energy storage thermal management system and method. The energy storage thermal management system comprises a controller, ...

Electric vehicle thermal management



system with battery heat storage

The present inventor has observed a need for an enhanced thermal management system for electric vehicles that may mitigate degradation of the vehicle range due to extremes of ...



[A battery pack with thermal management system](#)

Invention is related with a battery pack with a hybrid thermal management system which is for electric energy storage and to enable the electric energy to be used in electric vehicles, electric ...



US20250137733A1

The present invention relates to a thermal energy storage module comprising a composite phase change material, a thermal energy storage unit comprising one or more of the thermal energy ...



[Devices and Methods for Thermal Energy Storage](#)

This invention relates to the fields of thermal energy storage and evaporative cooling. More specifically, the present invention relates to devices and methods for direct ...





Electric vehicle thermal management system

A method for managing thermal loads within an electric vehicle using an efficient thermal management system (100) that utilizes a single heat exchanger (133) is provided. A ...



Thermal management of energy storage devices via oscillating ...

U.S. patent number 10,693,201 [Application Number 15/840,708] was granted by the patent office on 2020-06-23 for thermal management of energy storage devices via oscillating heat pipes. ...

MODULAR THERMAL ENERGY STORAGE SYSTEM AND ...

Description TECHNICAL FIELD [0001] The present invention relates to modular thermal energy storage systems and their associated methods. PRIOR ART [0002] Modular thermal energy ...



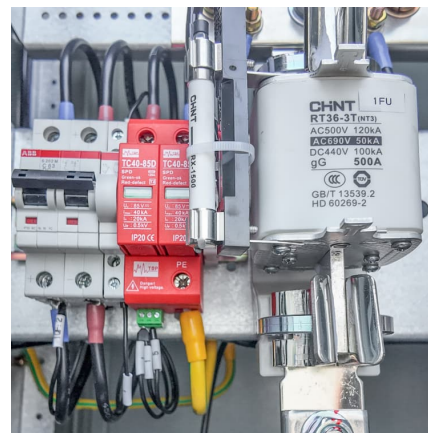
Thermal energy storage system comprising optimal thermocline management

The present invention relates to a thermal energy storage system. More specifically, the invention relates to maintaining and optimizing a thermocline in a thermal energy storage fluid contained ...



THERMAL MANAGEMENT SYSTEM AND METHOD FOR ...

Technical field [0001] The present invention relates to a thermal management system for an electric vehicle. The present invention also relates to use of the thermal management system, ...



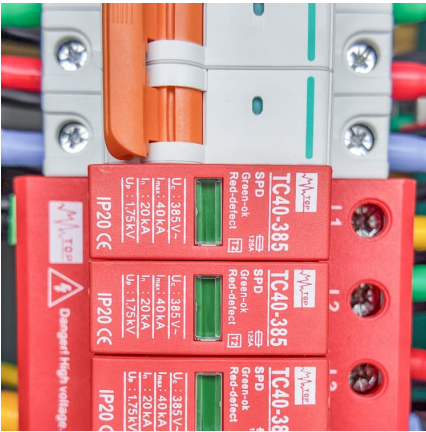
U.S. Patent for Electric vehicle thermal management system Patent

An efficient thermal management system (100) that utilizes a single heat exchanger (133) is provided. A refrigeration subsystem (103) cools the heat exchanger (133). A ...

Thermal energy storage systems

In one aspect, thermal energy storage systems are described herein. In some embodiments, a thermal energy storage system comprises a thermal energy storage system comprising a ...





EP4548032A1

The invention relates to a thermal energy storage system which includes a container with a phase change material (PCM) and a heat exchange coil interacting with the PCM. The coil is easy to ...

Thermal energy storage patented technology retrieval search ...

This page includes the patent name, patent number, legal status, invention/applicant, technical efficacy and accompanying drawings of Thermal energy storage-related invention patents and ...



Anoop Mathur Inventions, Patents and Patent Applications

Abstract: A method of optimizing thermocline zone within a thermal storage system including a plurality of storage tanks fluidly coupled to one another in series, to ...

[WO/2024/131296 ENERGY STORAGE THERMAL ...](#)

This patent search tool allows you not only to search the PCT database of about 2 million International Applications but also the worldwide patent collections. This search facility ...



[Refrigeration, or thermal, energy storage system by](#)

More particularly, the invention relates to a system that allows to maximize the transfer of refrigeration or thermal energy between a material of the PCM type and a refrigeration or ...



US Patent for Thermal energy storage system comprising optimal

Accordingly, it is an objective of the present invention to provide a thermal energy storage tank for optimally managing a thermocline in a thermal energy storage fluid contained within the ...



U.S. Patent for Thermal management device for energy storage ...

The invention provides a thermal management device for energy storage system, a method for controlling the thermal management device for energy storage system, and an energy storage ...





Systems and methods for long-duration thermal energy storage

The invention provides systems and methods for energy storage for providing low temperature, long-duration thermal energy storage. The system provides for subterranean thermal energy ...



SYSTEMS AND METHODS FOR IMPROVED BATTERY ENERGY STORAGE SYSTEM THERMAL

The present disclosure provides systems and methods for managing a temperature of a battery energy storage system ("BESS"). A method may comprise identifying ...

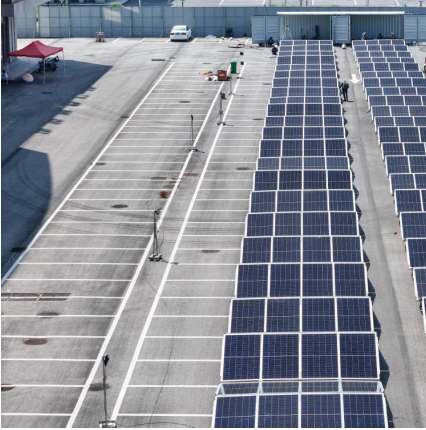
[Thermal management of battery systems](#)

This invention relates generally to battery power supply and, more particularly, to thermal management in such battery power supply systems. The word "battery" here is meant to ...



Thermal Energy Storage And Cooling System With Secondary ...

U.S. patent application number 12/950046 was filed with the patent office on 2011-03-17 for thermal energy storage and cooling system with secondary refrigerant isolation. ...



THERMAL BARRIER MATERIAL FOR A RECHARGEABLE ...

a battery pack. In particular, the present invention relates to electric vehicle battery modules and particularly to blast and thermally resistant barrier articles for managing battery module thermal ...



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