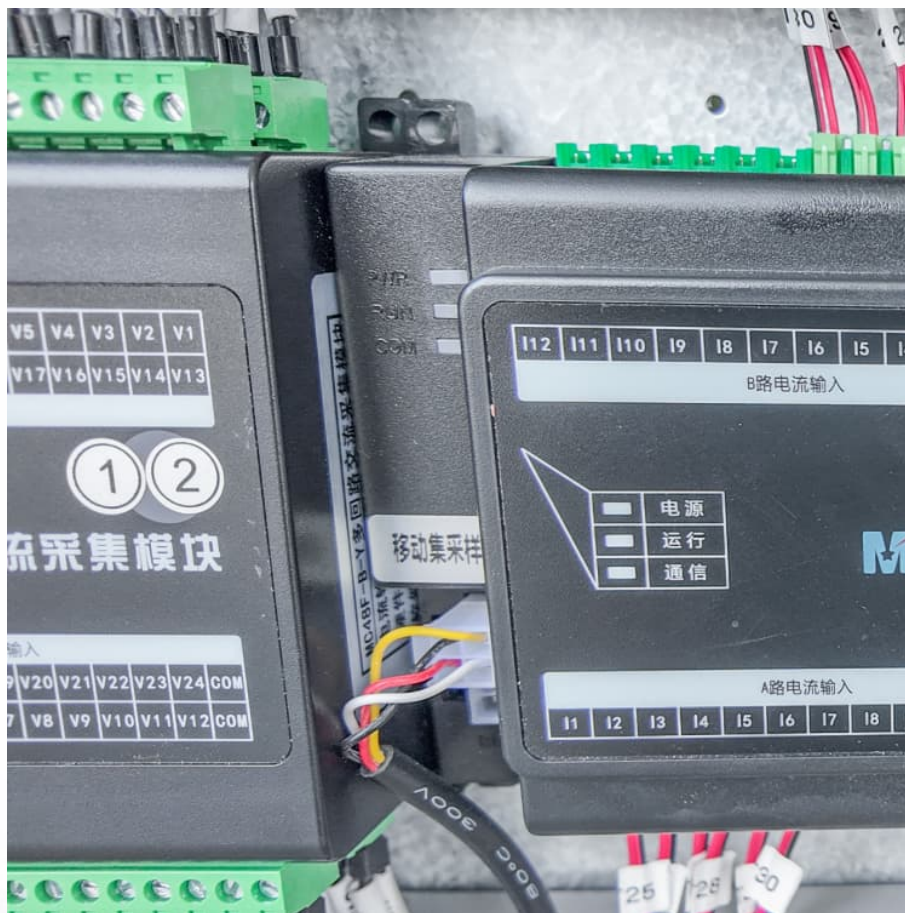


# Energy storage thermal management invention patent





## 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.

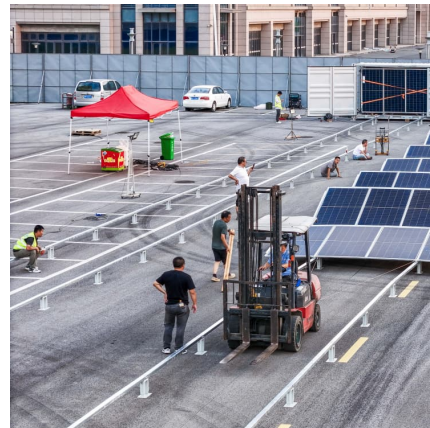


**(19) United States (12) Patent Application Publication (10) ...**

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 ...](#)

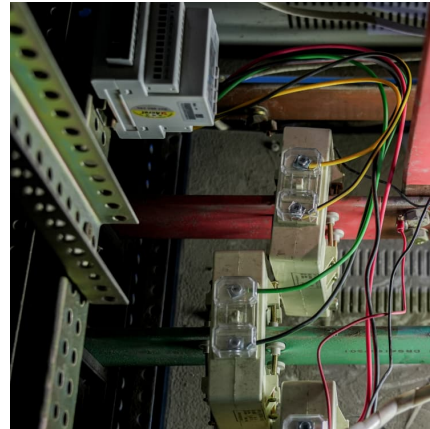
Provided in the present invention are an energy storage thermal management system and method. The energy storage thermal management system comprises a controller, ...

**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 ...



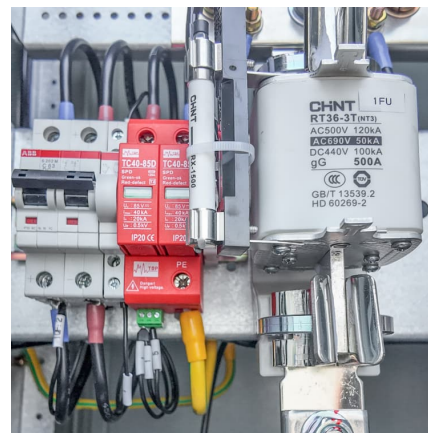
### **Thermal energy storage system comprising optimal thermocline management**

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, ...



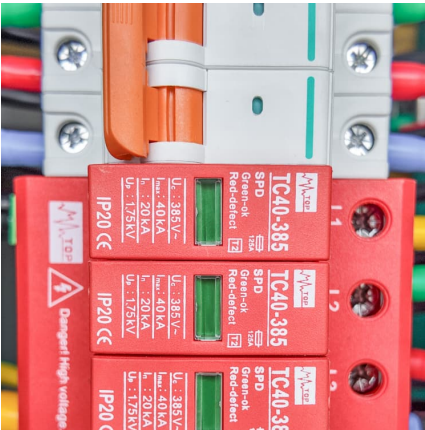
**U.S. Patent for Electric vehicle thermal management system Patent**

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 m 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 ...

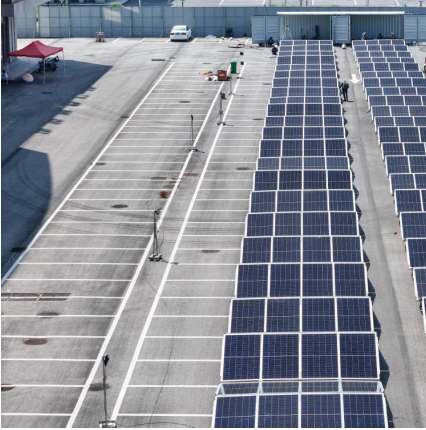
### [Thermal management of battery systems](#)

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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