

Energy storage patent direction



Energy storage patent direction



EP0003980B1

A thermal energy store of the type according to the invention can be used in a wide range of energy energy supply, in particular as an alternative to pumped storage plants and battery ...

US20190319249A1

An energy storage system includes a module housing and multiple battery cells with insulating material and discharge directing material positioned inside the module housing. Each of the ...



Impact of the network location of energy storage cooperative patents ...

The hypothesis testing method can verify whether there is a significant correlation or causality between the network position of an energy storage cooperation patent ...

Battery innovation and the Circular Economy: What are patents ...

A report about electricity storage developments published by the International Energy Agency (IEA) in association with the European Patent Office (EPO), asserts that "the ...

Commercial and Industrial ESS

Air Cooling / Liquid Cooling

- Budget Friendly Solution
- Renewable Energy Integration
- Modular Design for Flexible Expansion



- ✓ IP65/IP55 OUTDOOR CABINET
- ✓ WATERPROOF OUTDOOR CABINET
- ✓ 42U/27U
- ✓ OUTDOOR BATTERY CABINET

[WO2019058170A1](#)

A thermal energy storage unit is disclosed. The system comprising: a tube having at least one inlet and at least one outlet for a first fluid; a plurality of plate- shaped or box-shaped capsules ...

[Energy storage system and method](#)

The invention is directed to an energy storage system, and more particularly to an energy storage system that stores and releases energy via the stacking of blocks.



[Integrated energy storage system](#)

In certain applications, energy storage systems may also be configured or manufactured to provide additional non-cell performance functionalities by engaging the inherent materials & ...



WO2023229972A1

A geothermal energy storage/converting system utilizes hot water and pressure, such as steam, generated by the geothermal heat/ground water to store energy and/or generate electricity. ...



WO/2025/213658 ENERGY STORAGE APPARATUS, ENERGY

...

Provided in the present application are an energy storage apparatus, an energy storage system, and a charging network. The energy storage apparatus comprises an energy ...

ENERGY STORAGE SYSTEM

Here, the length direction (l+, l-) of the battery module may be set as a column direction, and the width direction (w+, w-) of the battery module may be set as a row direction.



Apparatus and method for electrical energy storage based on the

An energy storage system comprising a plurality of cables, a weight attached to respective end regions of the plurality of cables so that the weight can be raised and lowered through a ...



ENERGY STORAGE SYSTEM

An energy storage system of the present disclosure includes: a first battery module in which a plurality of battery cells are disposed; a second battery module in which a ...



Energy storage system and applications

the present disclosure relates to thermal energy storage and utilization systems. More particularly, the present disclosure relates to an energy storage system that stores electrical energy in form ...



Energy-Storage.news Guest Blog picks from 2024

Patent lawyer Ben Lincoln from Potter Clarkson returns to the Energy-Storage.news Guest Blog, this time looking at gravity energy storage ...



- LiFePO₄ Battery, safety**
- Wide temperature: -20~55°C**
- Modular design, easy to expand**
- The heating function is optional**
- Intelligent BMS**
- Cycle Life: > 6000**
- Warranty: 10 years**



Energy storage system and applications

the example implementations advance the art of thermal energy storage and enable the practical construction and operation of high-temperature thermal energy storage systems which are ...

Foxconn to Launch New Energy Storage Products Soon

1 ??· On October 13, Foxconn's energy storage subsidiary, Foxconn New Energy Battery (Zhengzhou) Co., Ltd., announced a brand transition from "Furui Xinneng" to "Fuchu Kenen", ...



Solid-State Battery Developments: A Cross-Sectional ...

Solid-state batteries (SSBs) hold the potential to revolutionize energy storage systems by offering enhanced safety, higher energy density, ...

The intellectual property enabling gigafactory battery cell ...

Abstract Driven by the increasing demand for energy storage solutions in various applications, including electric vehicles and renewable energy systems, the lithium-ion battery ...



[US20180212222A1](#)

U.S. patent application Ser. No. 14/189,219 describes additional features of heat pipes for thermal management within an energy storage system, the disclosure of which is incorporated



[US20060053959A1](#)

Energy storage systems using a flywheel, as is well known in the art, operates a motor using a redundant electric power and store inertia energy of a rotating member that rotates together ...



U.S. Patent for Energy chain and storage unit for an energy chain

The invention relates to an energy chain for receiving and guiding cables, having pivotal chain links which adjoin one another in the longitudinal direction and each of ...



Elevator cage for energy storage and delivery system

The invention is directed to an energy storage and delivery system, and more particularly to an elevator cage for use in an energy storage and delivery system that stores and releases ...



Materials For Energy Storage

Also published as JP2025064964A on April 17, 2025. "Advanced synergistic magneto-electrically active current collector for electrochemical energy storage devices and a ...

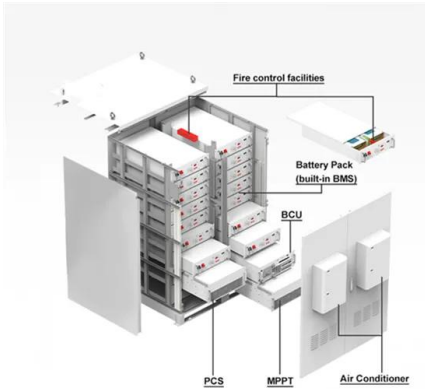
Mechanical energy storage system

This invention relates to a mechanical energy storage system, incorporating upper and lower reservoirs supported in a rigid frame. Metal balls are initially stored in the upper reservoir, a ...



WO/2025/213661 ENERGY STORAGE APPARATUS, ENERGY STORAGE ...

The energy storage apparatus comprises a container, a control module and a thermal management module, wherein the container comprises a container body and a plurality of ...



Green building energy: Patents analysis and analytical hierarchy

The table showcases the number of patents filed by each country in various energy technology groups, including renewable energy, energy storage, energy management, energy efficiency, ...



U.S. Patent for Underwater compressed fluid energy storage ...

Concrete and tube hot thermal exchange and energy store (TXES) including temperature gradient control techniques Underwater energy storage using compressed fluid ...

Innovation trends in electricity storage: What drives global ...

Using patent data from 1978 to 2019 across 1881 regions, we estimate the main determinants of innovation in energy storage. Our results highlight the role of energy prices and past innovation ...



WO/2025/213949 BATTERY CELL, BATTERY, ENERGY STORAGE ...

Disclosed in the present application are a battery cell, a battery, an energy storage device and an electrical device. The battery cell comprises a casing, a first electrode terminal and a first ...

WO2022061300A1

Energy storage cell Abstract A system for incorporating one or more individual energy cells is provided. Individual energy cells include a top surface having a center terminal and an outer ...



ENERGY STORAGE APPARATUS

Yet still further an object of the present invention is to provide an energy storage apparatus storing potential energy in a compressible spring that can be simultaneously compressed and ...



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<https://solar.j-net.com.cn>