

Current status of energy storage patent protection

The applications of energy storage systems have been reviewed in the last section of this paper including general applications, energy utility applications, renewable ...

Based on the data of invention patents, this paper analyzes the innovation situation of global energy storage safety technology, providing a reference basis for future ...

What is a patent? A patent is an exclusive right granted for an invention. Patents benefit inventors by providing them with legal protection of their inventions. However, patents also benefit the society by providing public access to ...

The patents for buoyancy energy storage include a variety of innovative technologies designed to leverage the principles of buoyancy for energy retention and release. 1. Patents focus on mechanisms to utilize ...

The present challenges and future directions for LH2 storage include minimizing and utilizing boil-off losses, improving insulation schemes, and ensuring cost-effective large-scale LH2 storage. This review study can be ...

Assess the current state of the national energy storage workforce, and identify gaps including R& D, manufacturing, and the installation sectors of the energy storage workforce.

This study systematically analyzes patents to categorize innovations addressing key challenges in SSB design and manufacturing, focusing on performance, safety, and scalability. The methodology focuses on ...

Overview of Patent Landscape in Battery Technology for Green Innovation The patent landscape in battery technology for green innovation is highly dynamic and globally ...

Through analysis of two case studies--a pure photovoltaic (PV) power island interconnected via a high-voltage direct current (HVDC) system, and a 100% renewable energy autonomous power supply--the paper ...

The aim of this paper is to study the technological advancements of offshore LNG storage and transportation technologies based on patent informatics. Patent informatics is ...

The world's energy demand has significantly increased as a result of the growing population and accompanying rise in energy usage. Fortunately, the innovation of nanomaterials (NMs) and their corresponding processing into devices and ...

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A system and method links batteries in parallel to conductors using wire bonds that act as fuses in the event of an overcurrent condition in a battery. To protect the wire bonds in the case of a ...

Dr Dustin Bauer, Associate, and Dr Paul Loustalan, Partner, Reddie & Grose, examine what developments in patent strategies can tell us regarding the battery energy ...

Energy storage patents are legal protections granted for inventions related to technologies that store energy for later use. These patents can apply to various systems, ...

<sec>& nbsp; Introduction & nbsp;Compressed air energy storage (CAES), as a long-term energy storage, has the advantages of large-scale energy storage ...

Dr Dustin Bauer, Associate, and Dr Paul Loustalan, Partner, Reddie & Grose, examine what developments in patent strategies can tell us regarding the battery energy storage sector.

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