Power storage patent transfer process

The transfer or sale of a patent or application is executed through an assignment. Patent law also provides for assignment of part interests (half, fourth, etc.) in a patent. ... Determining infringement primarily involves comparing the language of the patent claims to an accused product or process. The parties might hire expert witnesses to ...

Discover how power companies like Contemporary Amperex Technology Ltd, General Motors Co, and Tesla Inc are revolutionizing energy storage through innovative patents. Improve battery safety, efficiency, and reliability with cutting-edge technologies. Learn more about the impact of energy storage in the power industry and explore the latest trends in innovation, investment, ...

The commercialization process of energy storage patents affects the development of the energy storage industry. Clarifying the relationships between the characteristics of the applicants and patent transfer can facilitate technology transfer. In this study, China"s energy storage patent data from 2009 to 2021 were divided by the rolling period.

Then, how does a firm"s patent transfer that could end up with strategic use of the patent affect innovation? The literature on patent holdup and firms" defensive use of patents (e.g., Somaya, 2003; Ziedonis, 2004) hint at the answer: It depends on which firm acquires a patent and whether the firm is at risk of a patent holdup with regard to the patent of interest.

Entitled "Innovation in batteries and electricity storage" the report shows that inventions in batteries accounted for nine in 10 electricity storage patents filed at the European ...

High-voltage DC power conversion and distribution circuitry improves the efficiency of VRE power transfer into the system. ... transfer fluid that is heated externally to the storage system. European Patent 3 245 388 76 discloses such an ... and isolate the steam generator or other high-temperature process from the storage core temperatures ...

Storage capacity is the amount of energy extracted from an energy storage device or system; usually measured in joules or kilowatt-hours and their multiples, it may be given in number of hours of electricity production at power plant nameplate capacity; when storage is of primary type (i.e., thermal or pumped-water), output is sourced only with ...

A cryogenic energy storage system comprising a liquefaction apparatus for liquefying a gas to form a cryogen, wherein the liquefaction apparatus is controllable to draw power from an external power source to liquefy the gas, a cryogenic storage tank in fluid communication with the liquefaction apparatus for storing cryogen produced by the liquefaction ...

Application process; Search for patents; Learn about patent classification; Filing online; Checking application

status; Responding to Office actions; Petitions; ... During examination of a patent application or after the patent is granted, the owner of the patent may: Transfer ownership to another entity or party through an "assignment;" or;

Like a property rental, a patent license contemplates an ongoing relationship between the licensor and licensee. In a patent assignment, the original owner permanently transfers its ownership to another entity. Like a property sale, a patent assignment is a permanent transfer of legal rights. Using Employment Agreements to Transfer Patent Ownership

Access to resources from other regions is crucial for local innovation (Gertler and Levitte, 2005); different innovation subjects must realize the communications and complementarity of information and technology (Boschma, 2005, Maggioni et al., 2007).The transfer of patents, an often a vital precursor to a commercialized innovation (Higham et al., 2021), among different ...

The concept of the LAES technology was first proposed by researchers at the University of Newcastle upon Tyne in the UK in 1977 for peak shaving of electricity grids [2].Although the work involved mainly theoretical analyses, it led to subsequent development particularly by Mitsubishi Heavy Industries [3] and Hitachi [4, 5] of Japan, and Highview Power ...

Abstract: A system comprising a cryogenic storage tank for storing cryogen, a pump in fluid communication with the cryogenic storage tank for pumping cryogen from the cryogenic storage tank to a high pressure, an evaporator in fluid communication with the pump for evaporating the high-pressure cryogen from the pump to form a high-pressure gas, a power ...

Disclosed is a system and method for providing power generation and distribution with on-site energy storage and power input controlled by a utility or a third party manager. The system allows a utility manager to decide and direct how energy is delivered to a customer on both sides of the power meter, while the customer directs and controls when and how much energy is needed.

At present, studies on intercity patent transfer have mainly been carried out from a network perspective, with special attention to the spatial dependence existing in the patent transfer process ...

FIG. 8 shows the method of charging 800 the pumped energy storage system 600 shown in FIG. 6.The method of charging 800 the pumped energy storage system 600 includes first heating the heated particles 102A, 805.The heating may be done in both the silo 101A using an in-silo heating element (such as 108, not shown in FIG. 6) using power from an ...

Exemplary embodiments are directed to wireless power. A portable chargeable device may comprise an energy storage device configured to receive power from a power source. Furthermore, the portable chargeable device may comprise a transmitter including at least one antenna and configured to transmit power stored in the energy storage device within an ...

A three-stage heat transfer model of the extraction steam is used to describe the heating process. Then, a joint dispatch model concerning CHP units, conventional thermal power units, and RESs is given. Finally, the impacts of different factors on the extraction steam"s heat transfer process and its influence for RES accommodation are analyzed.

Energy Vault has created a new storage system in which a six-arm crane sits atop a 33-storey tower, raising and lowering concrete blocks and storing energy in a similar method to pumped hydropower ...

Pairing the disclosed particle TES systems with CSP allows a CSP plant to store both solar heat and low-cost grid electricity in the heated particles. The range of working fluid temperature...

As patent applications are filed many months, or even years, before products appear on the market, they are often seen as an early indicator of future technology trends. Since 2000, businesses around the globe have filed more than 65 000 IPFs in the area of electricity storage.

Lake Kivu contains ~50 million tonnes (MT) dissolved biomethane. Efficient use is problematic from massive associated CO2: ~600 MT. Conventional extraction scrubs CO2 with ~50% overall CH4 loss, and returns ~80% CO2 into the deep lake, preserving a catastrophe hazard threatening >2 M people. Methods and systems are disclosed coupling: (1) efficient CH4+CO2 degassing; ...

The power of patent transfer: The impact of green technology acquisition on non-residential CO2 emissions under the intervention of government actions ... utilization and storage technologies, energy saving technologies (energy storage and heat dissipation), ... The process of patent sales from the transferor to the acquirer can visually ...

Our goal is to identify the key determinants of innovation in electrical storage. To do so, we first build a novel patent dataset from 1978 to 2019 and describe innovation trends in ...

Systems and methods for enabling efficient wireless power transfer, and charging of devices and batteries, in a manner that allows freedom of placement of the devices or batteries in one or multiple (e.g., one, two or three) dimensions. In accordance with various embodiments, applications include inductive or magnetic charging and power, and wireless powering or ...

Abstract: Disclosed is an optimal power flow-based hierarchical control method for a distributed energy storage system (ESS), where the method divides control of an energy storage cluster into three layers, performs primary and secondary control to realize intra-cluster control, and performs tertiary control to realize inter-cluster control. In the primary control, ...

A capacitive wireless power transfer (WPT) architecture that provides for dynamic (i.e., in motion) and/or stationary power transfer is provided. In various implementations, for example, the capacitive WPT

architecture can achieve high power transfer levels at high efficiencies while maintaining fringing field strengths within acceptable safety limits.

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