



Does the State Grid have a battery patent



Overview

State Grid Corporation of China has a total of 209009 patents globally. These patents belong to 205607 unique patent families. Out of 209009 patents, 139233 patents are active. Are you wondering why there is a drop in patent filing for the last two years?

It is because a patent application can take up to 18 months to get published. Certainly, it doesn't suggest a. CN103163881A is the most popular patent in the SGCC portfolio. It has received 260 citations so far from companies like AT&T. Below is the list of 10 most. The chart below distributes patents filed by SGCC in different countries on the basis of the technology protected in patents. It also represents the markets where SGCC thinks it's important to. State Grid Corp continues to invest in the country's high voltage, charging pile, and new digital infrastructure sectors as part of its innovation efforts, as it seeks to capitalize on new.



Article Content

US8481204B2

The invention relates to a solid-state battery that prevents cracks at sealed portions even when the volume of a power generation element changes upon power charge, power discharge, and ...

Huawei files patent for a new solid-state battery tech

Huawei's new patent on sulfide solid-state batteries addresses liquid battery degradation, promising high energy density, safety, long life, and stability for EVs and storage.

CATL bet on solid-state becomes reality - Batteries International

And CATL are not alone in the race to make solid state battery pipe dreams a reality. Taipei-based intelligence provider, TrendForce, reported this week that Toyota, Nissan ...

Exploring the green patent system in China from the perspective ...

From 2016 to 2023, among the top 50 applicants for green patents in China, 13 were state-owned entities, with major state-owned enterprises (SOEs) and research institutions such as State Grid ...

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

The study classifies innovations into key problem and solution areas by meticulously examining 244 patents across multiple dimensions, including year, geographic ...

Intellectual Property for Battery Technology | Potter Clarkson

Our patent attorneys and IP solicitors specialise in protecting and commercialising battery technology. Energy storage is becoming increasingly important. Our phones, our vehicles, the ...

Toyota Has Twice As Many Solid-State Battery ...

Toyota registered 1,331 solid-state battery-related patents, according to the study. Panasonic is a distant second in the patent stakes with just 445 patents, ahead of third-placed Idemitsu Kosan ...

Grid-connected lithium-ion battery energy storage system towards ...

This study conducts an in-depth analysis of grid-connected LIB ESS patents published from 1998 to 2022, aiming to comprehend essential developments and trends in the ...

National Grid Patents Key Insights & Stats

National Grid has a total of 83 patents globally, out of which 45 have been granted. Of these 83 patents, more than 3.6% patents are active. United Kingdom is where ...

BU-201: How does the Lead Acid Battery ...

Lead acid does not lend itself to fast charging and with most types, a full charge takes 14–16 hours. The battery must always be stored at full state-of-charge. Low charge causes sulfation, ...

Toyota Solid State Battery Patents: Insights & Stats

How many patents does Toyota have in Solid State Battery Domain? Toyota has a total of 1700 patents globally related to solid state batteries. These patents belong to 515 unique patent families. ... Countries in which Toyota Filed Patents in Solid State Battery Domain. Country: Patent: United States Of America: 527: China: 392: Japan: 374 ...

Rivian's auxiliary battery patent application is a ...

The idea, shown on a rough sketch of Rivian's R1T pickup truck, shows an auxiliary battery module that can be mounted on a specific part of the truck's bed. Not only does the bed have a plug to ...

The Water Heater as Grid Battery, Version 2.0

The Grid Edge comprises technologies, solutions and business models advancing the transition toward a decentralized, distributed and transactive electric grid. All Network Infrastructure

Smart electric vehicle (ev) charging and grid ...

2012-12-04 Priority to US13/693,747 priority Critical patent/US9026347B2/en ... whether they have grid tie inverters, and projected energy costs based on the time of the day. ... the electric vehicle 304 may provide the battery state of charge 316 in percent. By knowing the capacity of the battery and the state of charge 316, and the estimated ...

Energy Storage Technology - Patent Data Analysis - Questel

State Grid Corporation of China is located far to the right on the chart, showcasing the highest patent family velocity among the assignees. This high velocity reflects ...

Grid integration of battery swapping station: A review

G2B, B2G, Battery-to-Battery (B2B), PV-to-Battery, PV-to-Grid transactions options can be employed while considering Quality-of-Service level and State-of-Health of the batteries as constraints. This can be a highly flexible energy management system for BSS .

QuantumScape's Solid-State Battery Patents

QuantumScape's solid-state battery is packed full of innovation that places the battery distinctly apart from lithium-ion technology batteries and other solid-state designs: · Faster Charging : With the ability to charge up to 80% in just 15 minutes, QuantumScape's battery dramatically reduces downtime for EV drivers.

Battery energy storage system

The present invention proposes an energy management method that utilizes DC voltage signaling to provide indirect communication between local controllers, to provide battery state-of-charge...

Toyota and Panasonic lead in solid-state ...

Toyota was the clear leader with 1,331 known patents, followed by Panasonic with 445 patents. In comparison, the third-place company—Idemitsu Kosan—holds 272 ...

Toyota secures huge lead in solid-state battery ...

The other challenge facing solid-state batteries currently is battery life, with repeated charging taking a toll on early prototype batteries. In a hybrid, the smaller battery is charged and recharged far more often, and Pratt suggested ...

US7807299B2

2004-10-29 Priority to US10/979,043 priority Critical patent/US7807299B2/en ... the battery may be provided as a button cell battery, a thin film solid state battery, or as another lithium-ion battery configuration. ... the positive current collector may be a grid such as a mesh grid, an expanded metal grid, a photochemically etched grid, or ...

UK National Grid Battery Storage: Capacity, Future Prospects, And ...

Recent developments in lithium-ion batteries and alternative technologies, such as solid-state batteries, promise longer life spans and higher energy densities. According to a 2022 study by the International Energy Agency, the cost of battery storage has fallen by over 80% in the past decade, making it a more viable option for widespread use ...

Grid-connected lithium-ion battery energy storage system ...

Presently, as the world advances rapidly towards achieving net-zero emissions, lithium-ion battery (LIB) energy storage systems (ESS) have emerged as a critical component in the transition away from fossil fuel-based energy generation, offering immense potential in achieving a sustainable environment. This study conducts an in-depth analysis of grid ...

Energy Storage Technology - Patent Data Analysis - Questel

Notably, State Grid Corporation of China stands out with the highest number of total patents, with 43 dead and 76 alive patent families. This significant number of active patents suggests a strong commitment to advancing energy storage technology, reflecting the corporation's strategic role in China's energy infrastructure and its dedication to innovative ...

Britain's grid battery storage record is maddening

Britain's grid battery storage record is maddening on whatsapp (opens in a new window) Save. ... solar farms charge batteries that can supply a fifth of the state's evening electricity.

Ambri's Liquid Metal Battery is Reshaping ...

And Ambri Liquid Metal battery will support Xcel Energy's renewable energy and economic development goals. The year-long energy storage project will be installed at SolarTAC in ...

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

It is well known that data beyond patent number is of interest: for instance, recent methodological developments have been achieved to extract further information from patents by using patent citation and also internal patent document content . Although it can be seen as a fundamental direction in a broader pro-sustainability transformation, the literature that can be ...

US8481204B2

A solid-state battery has a power generation element (5) having a cathode layer (1), a sulfide-based solid electrolyte membrane (2), an anode layer (3) that are stacked in this order; a battery case (6) in which the power generation element is disposed; and a flowable sealant (7) provided in the battery case and being non-reactive with the sulfide-based solid electrolyte ...

Patents Assigned to State Grid Corporation of China (SGCC)

Abstract: The present application discloses a method for optimized design of an independent micro-grid system, the independent micro-grid system comprising diesel generators, wind powered generators, a photovoltaic array, and an energy storage battery, the optimization method referring specifically to a multi-objective optimization design model based on the ...

State Grid Jiangxi Electric Power Co., Ltd.

State Grid Jiangxi Electric Power Co., Ltd. is headquartered in China Jiangxi Sheng. State Grid Jiangxi Electric Power Co., Ltd. was founded in 1993. State Grid Jiangxi Electric Power Co., Ltd. has a total of 1,348 patents and 15 literature

Carnot battery technology: A state-of-the-art review

One study compares the Brayton and Rankine-based Carnot battery system with other grid-scale EES technologies. It was found that, in case of energy arbitrage, if both capital costs and operational expenditures are considered, Carnot battery systems may compensate for their lower efficiency with a very low initial cost.

Solid-State Lithium Battery Cycle Life Prediction Using

4 State Grid Huzhou Electric Power Supply Company, Huzhou 313000, China; louping2005@126 5 School of Cyber Science and Engineering, Huazhong University of Science and Technology, Wuhan 430074 ...

Artificial intelligence based smart electric vehicle battery ...

ARTIFICIAL INTELLIGENCE BASED SMART ELECTRIC VEHICLE BATTERY MANAGEMENT SYSTEM In the current decade, electric vehicles have attracted human community due to low cost of operation and maintenance but it can provide optimal performance only by smart management of battery. This invention focuses on machine learning technology for developing ...

Top 20 Solid-State Battery Companies to Watch in 2025

TeraWatt Technology focuses on high-energy solid-state batteries aimed at revolutionizing EV and grid storage. Key Patent in Solid State Battery Anode-free solid-state battery capable of volume-expansion ...

US Patent Application for GRAPHENE-BASED COATING ON LEAD GRID ...

Chinese patent CN10270952 discloses a method for preparing lead-acid battery positive electrode plate that includes the steps of: preparing a positive electrode grid body, conducting electrochemical surface modification of the lead alloy positive grid body, post-treatment of the modified surface of the positive lead alloy grid, and washing and ...

Huawei plans to invent solid-state battery tech, reveals new patent

Huawei has recently issued a new patent regarding solid-state battery tech. It would be a wonderful implementation in the energy storage sector. It will further act as a vital element for lithium-ion cells, ensuring faster charging and higher energy efficiency. A solid-state battery is an electrical cell that contains a solid electrolyte instead of any [...]

How many patents does sgcc(state grid corporation of china) have?

This view does not include company patent data and analysis for 2018, 2020, 2022 and 2023 To see all the available company patent data and analysis you need to have an active subscription

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