

WHAT ARE THE PATENTS FOR MOBILE ENERGY STORAGE POWER SUPPLY



Should battery and EV companies focus on patent strategy? Battery and EV companies should focus on patent strategy beyond prosecution and enforcement. Companies should align their patent strategy with their overall business plan to ensure that a patent portfolio realizes its full economic potential and generates revenue for the company by protecting investments.



How many patents are there in the battery industry? Research and development in the battery industry have led to a notable increase in patent filings at the United States Patent and Trademark Office (USPTO), climbing from 3,773 in 2010 to 5,319 in 2019 (see Figure 1). But as more players enter the market and obtain patent protection for their innovations, IP disputes among competitors are heating up.



Are batteries protected by patents? At their core, batteries are energy-storage devices, including a positive electrode (a cathode), a negative electrode (an anode), an electrolyte, and a separator. All of which are covered by patents, trade secrets, and other forms of intellectual property.



Can battery companies get a patent? While patent prosecution can be onerous for any company, there is some evidence that battery companies generally face fewer obstacles to obtaining patents than other companies in the EV sphere, particularly those developing driverless AI technologies.



Are battery patents gaining speed? With the spike in economic growth in the battery industry and the EV industry, the IP world is seeing a commensurate spike in battery activity. For example, battery-related patent filings are gaining speed, as are litigations involving battery patents.

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Can battery technology help reduce fossil fuel dependence? Over the past decade, developments in battery technology have led to rapid advances in the ubiquity of electric vehicles (EVs) and opened up new possibilities for energy solutions that will help reduce dependence on fossil fuels.



In the quest for a resilient and efficient power grid, Battery Energy Storage Systems (BESS) have emerged as a transformative solution. The reserve capacity generally ranges between 15% and 20% of the total normal ???



The importance of batteries has been growing as a solution in a very dynamic puzzle. As a set of technologies at the intersection of the clean-digital transition, their role is ???



For renewable power generation systems like wind and solar, energy storage is vital for balancing power supply and demand over time. Surplus energy is stored during periods of peak production for later use to help supply ???



The range of sources of renewable energy requires a leap forward when it comes to innovation in energy storage and other enabling technologies that will help achieve the energy transition, including by balancing supply of ???

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The role of renewable energy in global power generation is growing ??? particularly for solar power. Thanks to increasing innovation and decreasing costs, global solar capacity has doubled from 2018 to 2021. According to ???



Guangdong Xinjiameng Electronics Technology Co., Ltd. has applied for a patent for an outdoor intelligent environment-adaptive portable energy storage power supply. According to ???



Gravity energy storage systems have inherent advantages in that they typically have a long operating life with a minimal maintenance burden. They are also relatively simple and do not require hazardous or scarce materials. ???



The basic model and typical application scenarios of a mobile power supply system with battery energy storage as the platform are introduced, and the input process and key technologies of mobile



It was seen that patent filings in gravity based energy storage systems has been, on average, increasing year-on-year. 2023 was also full of commercial developments and brought news that Gravitricity and Energy ???

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China Central Television (CCTV) recently aired the documentary Cornerstones of a Great Power, which vividly describes CATL's efforts in the technological breakthrough of long-life batteries. The Jinjiang 100 MWh ???



PDF | On Dec 1, 2022, Shiqi Zhang and others published Overview of US patents for energy management of renewable energy systems with hydrogen | Find, read and cite all the research ???



Utilizing lithium-ion batteries with their high energy density, these solutions efficiently store power. RV mobile energy storage ensures comfort during road trips, marine energy storage drives seafaring vessels, and remote ???



Power Edison is an entrepreneurial company based in the greater New York area with experience in technologies, financing, and business models for mobile energy storage systems. Power Edison is focused on direct engagement of ???



Virtual power plant (VPP) provider Swell Energy and mobile battery energy storage system (BESS) company Moxion Power both claimed to be pushing their respective technology sets and business models toward ???

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1 INTRODUCTION 1.1 Literature review. Large-scale access of distributed energy has brought challenges to active distribution networks. Due to the peak-valley mismatch between distributed power and load, as well as the ???



By providing silent, affordable, grid-charged power, mobile storage solutions are transforming industries that rely on diesel for off-grid energy. During recent construction at a Moxion facility, mobile BESS powered a concrete ???