

Electric Vehicle Energy Storage Power Station Patent Award

How many electricity storage patents are there?

Between 2000 and 2018, inventions in batteries accounted for nine out of ten electricity storage patents, far outweighing electrical (9%), thermal (5%) and mechanical (3%) electricity storage solutions.

Who are the world's top patent applicants for batteries?

Asian companies account for nine of the top ten global applicants for patents related to batteries, and for two-thirds of the top 25, which also includes six firms from Europe and two from the US. The top five applicants (Samsung, Panasonic, LG, Toyota and Bosch) together generated over a quarter of all IPFs between 2000 and 2018.

What is the EPO's patent granting procedure?

Through the EPO's centralised patent granting procedure, inventors are able to obtain high-quality patent protection in up to 44 countries, covering a market of some 700 million people. The EPO is also the world's leading authority in patent information and patent searching.

What is the European Patent Office (EPO)?

Headquartered in Munich with offices in Berlin, Brussels, The Hague and Vienna, the EPO was founded with the aim of strengthening co-operation on patents in Europe. Through the EPO's centralised patent granting procedure, inventors are able to obtain high-quality patent protection in up to 44 countries, covering a market of some 700 million people.

Abstract Energy storage and management technologies are key in the deployment and operation of electric vehicles (EVs). To keep up with continuous innovations in energy storage ...

Electric vehicles (EV) are now a reality in the European automotive market with a share expected to reach 50% by 2030. The storage capacity of their batteries, the EV's core component, will play an important role ...

A charging station for electric vehicles which have rechargeable batteries is provided. The charging station comprises a power section controlled by a fast acting power controller, a power connector and associated power cables for connecting to the vehicle, an interface with signal cables to carry status and/or control signals between the vehicle and the power controller, and ...

EVs are based on propulsion systems; no internal combustion engine is used. It is based on electric power, so the main components of electric vehicle are motors, power electronic driver, energy storage system, charging system, and DC-DC converter. Fig. 1 shows the critical configuration of an electric vehicle (Diamond, 2009).

FuelCell Energy Inc. (Danbury, CT) announced that it has received US patent 6,365,290, "High Efficiency

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Fuel Cell System," for its combined cycle Direct FuelCell/Turbine (DFC/T) power plant. The company is targeting this technology for the larger distributed generation market, focusing on 10MW to 50MW power plants to supplement the utility ...

Let us have a glance at some of the electric vehicle system patents in India. Ather Energy Pvt. Ltd. Patent Application No: 201841011751. Invention Title: A turn indication system of a vehicle and a method for operating the same. ...

B60L53/10 -- Methods of charging batteries, specially adapted for electric vehicles; Charging stations or on-board charging equipment therefor; Exchange of energy storage elements in electric vehicles characterised by the energy transfer between the charging station and the vehicle

Even while DCFC stations may charge electric vehicles in less time than Level 2 connections, it is still slower than recharging conventional automobiles. When compared to ...

An efficient system and method for usage, storage, and sharing of electrical energy with buildings, vehicles, and power grid distribution equipment. More specifically, a microgrid power system and method of use that interconnects an electric vehicle with a home grid-based power system for optimized energy management of the combined power sources.

This special section aims to present current state-of-the-art research, big data and AI technology addressing the energy storage and management system within the context of many electrified vehicle applications, the energy storage system will be comprised of many hundreds of individual cells, safety devices, control electronics, and a thermal management subsystem.

The Energy Storage Awards 2024 saw the European industry celebrate the best technologies, brightest minds and sharpest business ideas. ... Independent Power Corporation . Grid Operator-Led Project of the Year. ...

This technology allows electric vehicles to not only draw power from the grid but also send power back, potentially serving as energy storage units during peak demand or emergencies. Overall, the history of EV charging stations reflects the intertwined development of electric vehicles and the infrastructure needed to support their adoption.

An electric vehicle charging station for recharging an electric vehicle. The electric vehicle charging station has a base unit with a control box electrically coupled to an electrical power line, and a retractable support arm assembly with an electrical conductor and an electrical connector coupled thereto for movement between a retracted position and an extended position.

energy storage systems can support electric vehicle (EV) fast charging infrastructure. It is an informative resource that may help states, communities, and other stakeholders plan for EV infrastructure deployment, but

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it is not intended to be used as guidance, set policy, or establish or replace any standards under state or federal law. Battery ...

The invention includes a Microprocessor Control Center for controlling an Electric Vehicle Charging Station, and methods thereof, which include a load center for aggregating a charging ...

In addition to the Gold Medal awarded primarily for its hybrid vehicle Qin, BYD has received two China Patent Awards of Excellence for its battery module and battery energy ...

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