

Patent for electric vehicles as solar container power stations





Overview

The patent, titled “Solar canopy systems and methods,” formally recognizes Paired Power’s proprietary approach to solar canopy installation, which deploys electric vehicle charging in situations with limited or no grid power. This marks the company’s fourth patent since 2016. A multi-vehicle self-contained EV charging platform includes: a solar array configured to convert solar energy into an electrical output signal; a charging system configured to receive the electrical output signal from the solar array and generate an EV charging signal; a charge distribution system. The present invention answers the need for the existence of a network for charging electric vehicles (EV), particularly with regard to the so-called fast charging (20 to 30 minutes). Therefore, this station is intended for, inter alia, parking areas of public and private buildings, and fossil fuels. A comprehensive planning framework for electric vehicles fast charging station assisted by solar and battery based on Queueing theory and non-dominated sorting genetic algorithm-II in a a?

| At least some known charging stations rely on solar power for charging electric vehicles. For example, at Paired Power, a leading manufacturer of solar-powered electric vehicle (EV) charging systems, was awarded a patent for its PairTree solar canopy solution. The patent, titled “Solar canopy systems and methods,” formally recognizes Paired Power’s proprietary approach to solar canopy installation. (57) Provided is an electric vehicle charging system capable of generating electricity by solar energy comprising a roof capable of generating electricity under illumination, a movable solar panel, a solar panel state control device, and an intelligent voltage conversion and control module. The station also is provided with a mechanism to couple the solar canopy to a battery, which may be a vehicle battery such as an electric car or electric scooter. The solar canopy would provide electrical energy either directly to the battery or through a power conditioner and, optionally, a.



Patent for electric vehicles as solar container power stations



2MW / 5MWh
Customizable

Mobile charging stations with fuel-cell generators for electric-drive

Presented are mobile charging stations for recharging electrified vehicles, methods for making/using such mobile charging stations, and parking facilities equipped with such mobile ...

US Patent Application for SOLAR ENERGY INTERMODAL CONTAINER ...

The at least one plug receptacle is electrically coupled to the battery. The plurality of solar panels are configured to receive sunlight and convert to solar energy for storage in the battery and supply ...



PATENT FOR ELECTRIC VEHICLES AS SOLAR CONTAINER ...

A comprehensive planning framework for electric vehicles fast charging station assisted by solar and battery based on Queueing theory and non-dominated sorting genetic algorithm-II in a a?, At least ...

WO2021185167A1

A system for charging an electric vehicle by using solar energy, an apparatus, and a method for charging the electric vehicle by using the system and the apparatus. The system, apparatus and method ...



Shipping Containers for Power Generation & Energy Storage , Boxhub

Convert shipping containers into portable charging stations for electric vehicles (EVs) or electronic devices. These stations can be equipped with fast-charging infrastructure and battery storage to ...

Electric vehicle charging station with solar component

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 load ...



Efficient mobile solar power units for iso shipping ...

Efficient mobile solar power units for shipping containers You have a container. Let's power it with carbon-free, cost-efficient, plug-and-play, electricity. We are ...





US9302590B2

The present invention relates to a solar station for charging electrical vehicles, more specifically, a station built to house equipment in a central core for both charging electric vehicles and the ...



U.S. Patent Application for Solar-Power EV Charging System Patent

A multi-vehicle self-contained EV charging platform includes: a solar array configured to convert solar energy into an electrical output signal; a charging system configured to receive the ...

Solar station for charging electric vehicles

The present invention relates to a solar station for charging electrical vehicles, more specifically, a station built to house equipment in a central core for both charging electric



TAX FREE

Product Model
HJ-ESS-215A(100KW/215KWh)
HJ-ESS-115A(50KW 115KWh)

Dimensions
1600*1280*2200mm
1600*1200*2000mm

Rated Battery Capacity
215KWH/115KWH

Battery Cooling Method
Air Cooled/Liquid Cooled

Electric vehicle charging system using solar power

An electric vehicle charging system using solar power, comprising a curved solar panel (1) attached to and fixed to a top surface of a vehicle, a movable solar panel (2), a solar panel state control device ...



Mobile Electric Vehicle Charging Station Employing Multiple Power ...

For example, the charging station may include two or more of: wind power, solar power and power generated from suspension mounted oscillators, which charge its battery pack over land. If desired, ...



Efficient mobile solar power units for iso shipping containers

Efficient mobile solar power units for shipping containers You have a container. Let's power it with carbon-free, cost-efficient, plug-and-play, electricity. We are experts in solar energy. Our patent ...

US4592436A

A solar powered vehicle utilizing incident solar radiation to charge storage batteries for energizing an electric motor mounted within the vehicle. The solar panel comprises a lower panel mounted on an ...



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