Solar patented wireless power generation

Can a solar-powered wireless charging system be used for electric vehicles?
This project focuses on the design and development of a solar-powered wireless charging system for electric vehicles. The system harnesses solar energy through Solar panels, converting the generated DC electricity into AC using an inverter.

Which Papers highlight solar energy based wireless energy transfer?
Only few relevant papers which highlight solar energy based wireless power transfer are briefly discussed here. Zambari et al.,investigated the development of wireless energy transfer module for solar energy harvesting [11]. They studied the module of wireless energy transfer (WET) for interaction with the ambient solar energy.

What is the state-of-the-art of wireless power transfer using solar energy?
The State-of-the-Art of Wireless Power Transfer using Solar Energy is also described along with the literature review. The later part of the chapter contains novel concept of transmitter design of a parallel plate photovoltaic amplifier device integrated in a Building.

What is wireless power transfer using solar energy?
This chapter has presented brief outline of the state-of-the-art and developments in wireless power transfer using solar energy. The harvesting technologies of ambient solar radiation like solar photovoltaic, kinetic, thermal or electro-magnetic (EM) energy can be used to recharge the batteries and power various electronic gadgets.

What is a solar photovoltaic system?
The main purpose of the solar photovoltaic system is to distribute the collected electrical energy in various small-scale power applications wirelessly. These recent developments give technology based on how to transmit electrical power without any wires,with a small-scale by using solar energy.

What is solar photovoltaic & wireless power transfer (WPT)?
The brief state-of-the-art is presented for solar photovoltaic technologies which can be combined with wireless power transfer (WPT) to interact with the ambient solar energy. The main purpose of the solar photovoltaic system is to distribute the collected electrical energy in various small-scale power applications wirelessly.

Our method uses wireless electricity as a medium to deliver our solar generated and battery regulated solar energy to the surveillance camera, wireless energy example can be found in ...

A self-powered wireless keyboard by modifying the structure of a traditional membrane keyboard having a volcanic crater structure. Not damaging the original membrane ...

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As a result, solar power generation forecasting was essential for microgrid stability and security, as well as solar photovoltaic integration in a strategic approach. This paper examines how to ...

A solar power generation system is provided for more efficiently and cost-effectively generating and delivering power. ... Justia Patents US Patent Application for SOLAR POWER ...

Abstract: A power generating brick comprising a brick body with a through hole provided along a vertical direction; a thermoelectric unit disposed in the through hole and ...

The solar energy wireless charging device of the invention comprises a solar battery assembly, a storage battery which is used for converting direct current generated by the solar battery...

the CB power conversion module 134 drives the CB antenna 136 to emit a desired frequency signal. If the CB antenna 136 and BEV antenna 138 are tuned to substantially the same ...

This document presents a seminar on footstep power generation systems. It introduces piezoelectric materials that can generate electric charges when pressure is applied. ...

A wireless power transfer (WPT) station supplied by an array of solar panels is presented, where solar energy comes from an array of panels with 120 V voltage and 3 A current.

Using IOT technology for controlling and generating solar photovoltaic power can have a significant impact on the performance, monitoring and control of the plant using ...

Abstract: This article introduces a multifunctional wireless power transfer (WPT) system, uniquely capable of self-sustaining power generation and automatic directional charging. This system ...

The present invention relates to a smartphone wireless charging case using a solar cell and, more specifically, to a smartphone wireless charging case which can supply a charging current, ...

Wireless, limitless, sustainable and self-generating energy system that provides a secure, clean and continuous power supply to smartphones and other mobile electronic devices. Our ...

A solar module includes a solar panel and a wireless power transmission module coupled to the solar panel for transmitting power generated by the solar panel wirelessly.

The wireless power transmission is a system for providing wireless charging and/or primary power to electronic/electrical devices via microwave energy. ... 2007-06-14 Priority claimed from ...

This granted patent is related to a large-scale solar power station aimed at being deployed in space, and which power generated can be transferred to Earth via a wireless ...

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