

RV, Automotive, Commercial and Other Recreational Vehicle Markets

Solar Awning / Electric Power Generation System

US17/535,424 - Allowed

OVERVIEW



- As technology continues to advance as outlined; Solar Panels and Energy Systems for RV's & EV's are poised to transform the transportation sector into a more sustainable and self-sufficient eco-system that simultaneously provides significant benefits to users, manufacturers & service providers.
- The referenced IP & Technology is patented and proven through field installations and validations. The opportunity consists of an entire patented electric power generation system. This technology portfolio is available to license or purchase including added support if desired.

FEATURES and BENEFITS

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- Broad IP protecting solar panel integration & power generation for RV's, EV's, Trailers, etc.
- Multiple Panel Configurations, including opened and expanded; closed and compact.
- Solar panels extend and expand as needed to receive maximum sunlight.
- Optional wind & motion devices enable DC power; inverters enable DC to AC conversion.
- Inverters allow for external household applications or feeding the electrical grid.
- Solar power can be collected while the vehicle is in motion, or not.
- Control System enables electricity switchboard for selecting powered applications.
- Power can be stored in DC battery bank or converted to AC and used by vehicle(s).
- Automated solar panel arms for automatic movement to open, expand at varying degrees.
- Claims protect pull-behind trailer that maintains solar powered energy system.
- Additional patents and filings enable solar panel integration into rooftop of standard sedans and SUV's.

MARKET

The **Solar EV Charging Market** is experiencing significant growth and is projected to reach **\$500M+ by 2029** with a **CAGR of 8.1%** over the next seven (7) years. The market combines Solar technologies with EV and other transportation to ensure a sustainable & efficient solution that provides for extended vehicle range, external electrical applications, and energy that can be put back onto the electrical grid.



CLAIMS, APPLICATIONS & COMPANIES

US Patents Issued, Pending, Filed

- Solar Awning & Electric Power Generation System**
- For Self-Powered OR Towed Vehicles**
- Conversion for Battery Storage**
- Extended Range, External Applications, & putting energy back onto the grid**

Commercialization in Other Markets

- RV's & Trailers
- Trucks
- Golf Carts
- Commercial Trucks
- Off-Road Vehicles
- Other

Sample of Beneficiary Companies

