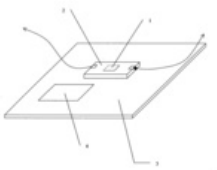


5 results for 28 and solar - Collection: FAMPAT

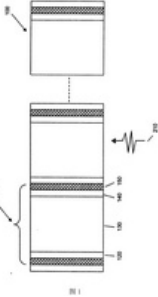
#	  Title	Publication number	Publ. date	Applicant/Assignee
1.	Solar photovoltaic modules with integral wireless telemetry	US20100300509	2010-12-02	RAYMOND DOUGLAS WILLIAM STOFER GARY

The invention provides a **solar** photovoltaic ("PV") module with integral wireless measurement and telemetry, transmitting to a central gateway node. It also provides a **solar** array constructed using these improved modules and network. These wirelessly monitored modules and the network in which they communicate allow the important state variables of individual modules to be observed remotely, without direct physical access to the array. The monitors measure and report the module voltage, and may also be designed to measure current flow, temperature, and/or other variables of interest. The invention offers valuable savings by immediately revealing trouble, by diagnosing to the specific location of a fault, by reducing losses due to module and string downtime, by reducing labor and capital equipment devoted to ongoing operation and maintenance, and by speeding troubleshooting during initial commissioning of newly built arrays.



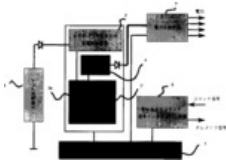
2.	Solar converter and compound converter	CN101728440	2010-06-09	NOVARTIS SPECTRUM
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The invention relates to a multi-node multi-spectrum **solar** converter and a production method for converting **solar** energy into electric energy by using same. The **solar** converter is processed by diamond, aluminum arsenide, silicon, gallium phosphide, indium gallium phosphorus, gallium arsenide, germanium, silicon, indium gallium arsenic, indium carbide or any substrate sensitive to one or a plurality of **solar** spectrum zones and comprises one to thousands of parallel nodes illuminated by **solar** light. As an optimal embodiment, in order to obtain high converting efficiency, adjacent nodes are electrically connected by conductive layers for reducing serial resistance in the converter; a plurality of converters with different substrates of different band gaps are assembled into a compound converter. The compound converter has a multi-spectrum multi-node converting function and is used for converting the **solar** energy of the whole spectrum from ultraviolet ray to infrared ray.



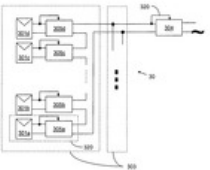
3.	Object that flies in space	JP2005168270	2005-06-23	ASTRO RESEARCH
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PROBLEM TO BE SOLVED: To provide a long-life object that flies in space provided with a power supply capable of generating electric power continuously even when it enters the shade by utilizing the power generation output of a **solar** cell array.
SOLUTION: This object that flies in space, provided with the power supply that generates electric power by sunshine using the **solar** cell array, comprises the **solar** cell array 1 that is mounted on the object; a capacitor bank 2 comprising a plurality of electric double layer capacitors 2a that are connected with a switching circuit and charged via a peak power tracker charge control circuit 3 by the generated electric power of the **solar** cell array 1; a power distributor 5 that distributes electric power to an apparatus mounted on the object using the accumulated electric power of the **solar** cell array or the capacitor bank 2 as a power source; a discharge control circuit 4 that controls a current supplied to the power distributor 5; and a telemetry-command signal interface circuit 6 that processes telemetry and telemetry command signals. The generated electric power of the **solar** cell array 1 is stored in the capacitor bank 2. When the object enters the shade on its orbit, the electric double layer capacitor 2a bank 2 supplies the electric power to the power distributor 5.
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4.	Removable component cartridge for increasing reliability in power harvesting systems	EP3288165	2018-02-28	SOLAREEDGE TECHNOLOGIES SOLAREEDGE SOLAREEDGE DE EL TEE
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A removable cartridge containing circuit components to be used with a distributed DC power harvesting system. Various components of the circuits, such as capacitors or transistors, may be included in removable cartridges that may be plugged into the overall circuit.



5.	Systems, apparatus, and methods of a solar energy grid integrated system with energy storage appliance	US20130245852	2013-09-19	SUNVERGE ENERGY
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A system, method, and apparatus for integrating distributed energy sources, energy storage, and balance of system components into a single device with systems and control for monitoring, measuring, and conserving power generated on the premise. A data processing gateway, hybrid inverter/converter and charge controller provide flexibility in the multi-voltages, output capacities, and photovoltaic array sizes coupled to the apparatus and system. The system and apparatus may be used in commercial and residential applications. A user may store energy provided by one or more alternate energy sources coupled to an energy storage module. The system provides a compact enclosure that fits within a utility workspace and enclosures that can be mechanically coupled together, placed in parallel or in a series.

