Solar container thermoelectric patent

The container utilizes solar energy gathered from a solar collector on its outer surface to power a refrigeration system that is able to maintain a temperature that is 40° below the outside temperature.

1 Abstract A thermoelectric generator may include first and second thermally conductive plates and a plurality of pairs of P-type and N-type thermoelectric elements. The first ...

The presently disclosed Combined Solar Heating and Thermoelectric Generation System (CSHTEGS) that combines solar energy concentration, thermal storage, and thermoelectric generation...

Solar energy may also be converted into electricity by the thermoelectric effect. Typically however, the thermoelectric effect generates small amounts of electricity, and is most often used to measure ...

The invention discloses a refrigeration device for thermoelectric refrigeration driven by solar energy. The refrigeration device comprises a truck body, wherein a cabinet freezer is installed in the truck body, a ...

A solar thermoelectric power generation system includes roofing products such as shingles with solar heat reflective areas and roofing products with solar heat absorptive areas. ...

The invention provides a solar thermoelectric generation device based on a Fresnel lens and a heat pipe principle, and belongs to the field of solar thermal power generation engineering. The device mainly ...

Methods, systems and apparatus for a solar cell integrating photovoltaic and thermoelectric cell elements to form a hybrid solar cell. The cell has increased efficiency and longevity by combining ...

A portable beverage container capable of autonomously generating ice using an internal cooling system. The cup includes a thermoelectric cooling mechanism within a lower ...

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