



Underwater electrochemical solar container system patent

Electroless underwater metal plating of a surface of fixed or floating structure is accomplished by transferring to the surface metal ions from a metal precursor in a solid or semisolid electrolyte that is ...

Previous work on commercially available silicon-based PV quantified the performance of PV with different submerged environments and showed ...

The present disclosure describes a solar energy storage system. A storage container is provided, comprising a base having a compartment defined by a planar exterior surface and a planar interior ...

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...

Underwater energy storage system according to claim 16, where the container is sealed, and gas in the void container volume is evacuated to a pressure below 200 millibar with water either...

Therefore, the present invention is directed to provide a system and method for establishing energy-optimized UAV-assisted underwater wireless sensor network (FIG. 1) to collect data from sensor ...

Nowadays our modern society is demanding flexible, low cost and lightweight electrochemical energy storage systems, which are very applicable in vario...

An electrochemical engine for buoyancy is provided with the engine having a water-tight and gas-tight chamber containing a volume of seawater. The electrochemical buoyancy engine ...

The solar rail system consists of individual segments that are used during construction connected to the fixed, centrally arranged container floor. These can be laid quickly, regardless of the floor class and ...

The LZY-MS1 Sliding Solar Container provides 20-200kWp solar power with 100-500kWh battery storage. Deployable in 24 hours for mining, construction, and ...

Underwater craft having an electrochemical battery activated by an electrolyte, comprising: - an electrochemical cell; - a tank (13) intended to contain the electrolyte; - a sea water flow rate regulator ...

25 ENERGY STORAGE ELECTRIC BATTERIES ELECTROLYTES CONTAINERS DESIGN STORAGE UNDERWATER ELECTROCHEMICAL CELLS ENERGY STORAGE SYSTEMS LEVELS 250903* - ...

The present invention relates generally to an environmentally friendly refrigeration unit and more particularly solar-powered refrigeration container that allows stored foods, beverages and other ...

Furthermore, in the present document an underwater working liquid itself is involved in storing and retrieving energy storage system is sometimes abbreviated as " UW - ES potential energy . Said ...

An electrochemical-type power supply source is provided with: an electrochemical stack generating electric power, in the presence, internally, of electrolytic fluid, provided with a number of distinct ...

An underwater energy storage system comprising a container where energy is stored by transporting water between the container and a body of water, is disclosed. 5 The container ...

In principle, underwater solar-energy generation can complement the use of batteries and provide a solution, although dedicated research is needed since traditional silicon solar cells do ...

Solarcont has developed a portable, containerized PV system featuring 240 solar modules on a folding system for easy removal and storage.

This invention relates to a method for accelerated CO₂ removal from air by coupling electrochemical Ocean Alkalinity Enhancement (OAE) and Direct Air Capture (DAC). The invention utilizes the ...

Field The present application relates to the underwater storage of items and, more particularly, to an underwater storage container and power generating system for extracting one or more items from the ...

Methods, systems, and devices are disclosed for implementing and fabricating electrochemical solar cells including dye-sensitized and perovskite-sensitized solar cells. In one aspect, a dye-sensitized ...

A system for generating electricity from an underwater stream for generating electricity for the electric grid or for producing hydrogen includes an underwater turbine. The underwater turbine ...

Disclosed is an underwater craft having an electrochemical battery activated by an electrolyte, including: an electrochemical cell; a tank (13) intended to contain the electrolyte; a seawater flow rate regulator ...

An underwater craft with an electrochemical battery activated by an electrolyte, the electrochemical battery comprising: an electrochemical cell for producing electricity; A tank 13 adapted to receive the ...

The combination of large volume at near-atmospheric pressure inside the container and surrounding masses of water at a hydrostatic pressure that may reach 100 bars and more defines one of the basic ...

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