

Condensate water solar container patent





Overview

This air condensation water-collecting device utilizes the phenomenon that the temperature reduces to make the hydron condense, carries out cooling treatment to the air in the arid water-deficient environment to the hydron in the air carries out the condensation and collects, and. Search specific patents by importing a CSV or list of patent publication or application numbers. The invention discloses a solar container system which comprises a highly-efficient photovoltaic assembly, a storage battery, a solar hot-water supply and power generation system, an inverter, a. A device for recovering drinking water from condensate includes a self-supporting moulded part 11 formed of a transparent synthetic resin such as PET or PC, which is resistant to UV radiation. The moulded part 11 presents an open bottom area 16 with a collecting channel 15 on the edge side, with. There is provided a water transportation system comprising evaporation zones for converting water into water vapour; condensation zones for condensing the water vapour into condensed water, the condensation zones being in fluid communication with the evaporation zones; water vapour conduits adapted. The present invention provides a condensate water collecting device for water evaporation, and a condensate water collecting system. The condensate water collecting device comprises: a glass outer box body, and four glass inner box bodies which are respectively and symmetrically distributed on the. Conventional atmospheric water condensers are technically feasible but cost-prohibitive because of fuel or electricity consumption. A solar collector combined with an ammonia absorption refrigeration system is a perfect match where low-grade heat energy is efficiently collected from sunlight and. The application discloses a method and a device for controlling risk of condensed water in a sunlight environment cabin, wherein the method comprises the following steps: before starting the lamp tube, acquiring the temperature of the lamp tube acquired by the temperature sensor, and the target.



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Solar Concentrator-Powered Atmospheric Water Condensation ...

The motivation to develop a practical solar-powered atmospheric water condenser is anchored in the increasing water shortages being experienced in many communities in arid and semi-arid regions.

US10093553B1

A solar powered water purifier (1) having a main reservoir (2) for holding unpurified water (18), a collection tube (22) supported within the main reservoir and an inverted conical-shaped lid (11). The ...



US4981019A

Solar powered portable food container Abstract A portable food container is cooled by a solar powered refrigeration unit and includes a thermoelectric power unit and heat pipes so that the container will be ...

Solar desalination

The process can be categorized based on the type of solar energy source utilized. In direct solar desalination, saline water absorbs solar energy and evaporates, leaving behind salt and other ...



US4313457A

A removable condensate collector for elevated water storage facilities includes a membrane attached to the walls of such elevated water storage facility and positioned to prevent condensate from falling ...

Numerical analysis of vapor condensation process in a condensation ...

The use of cold air flow [12], cold water flow [13] and thermoelectric modules integrated with fins [14] to cooling the upper cover in solar stills can significantly increase water condensation in ...



U.S. Patent for Solar powered water purification system Patent (Patent

A distillation unit for producing potable water using solar radiation is disclosed. The distillation unit includes a heating chamber defining an interior chamber adapted to contain a non-potable liquid for ...





US20100263396A1

The present invention is directed at a solar powered heat exchange system preferably used to drive a water collection device, which condenses water vapour in atmospheric air to water. The device ...



US Patent for Transportable modular water vapor condensation

...

Apparatus for producing liquid water from the condensation of atmospheric water vapor includes a transportable housing defining a first air inlet, a second air inlet, and an air outlet; first and second ...

Solar-powered refrigerated container

[0002] The present invention relates generally to an environmentally friendly refrigeration unit and more particularly solar-powered refrigeration container that allows stored foods, beverages ...



AC system utilizing condensate water to precool hot gas

Disclosed is a high efficiency whole house or building air conditioner utilizing condensate water dripped onto the condenser to subcool the heat exchange fluid in the condenser.



U.S. Patent for Solar still system and related water transportation

The solar distillation technique uses solar energy for creating an evaporation-condensation cycle where contaminated water is converted into distillate water through the ...



(PDF) Condensation device design represents a critical step for solar

PDF , On Feb 1, 2024, Zexiang Zhao and others published Condensation device design represents a critical step for solar-driven water evaporation toward practical applications , Find, read

Condensation device design represents a critical step for solar-driven

Zhao et al. provide an overview of different water collection schemes for solar-driven water evaporation (SDWE). Factors affecting water harvesting in SDWE are analyzed in terms of ...



Full-automatic condensation water collecting device in desert

The invention discloses a full-automatic condensation water collecting device in a desert, which comprises a convection passage, a water storage tank and a solar panel, wherein the top end of the ...



Condensation device design represents a critical step for solar ...

SUMMARY Solar-driven water evaporation (SDWE) has unique advantages, such as no additional energy consumption and low cost, and is a promising technology for obtaining fresh water from ...



Condensation device design represents a critical step for solar-driven

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Air-conditioning condensate recovery and applications--Current

The condensate from heating, ventilation and air-conditioning (HVAC) systems has been identified as potential source of clean water, which is typically removed and disposed of in a sanitary ...



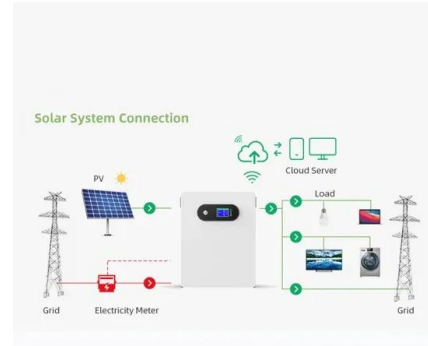
Salt-rejecting continuous passive solar thermal desalination via

In addition, few studies have demonstrated efficient condensation to achieve a high solar-to-water efficiency. Here, we report a passive inverted single-stage solar desalinator that ...



US Patent Application for COLLECTION AND USE OF WATER ...

According to an embodiment, a method of delivering water includes collecting water with a condensate drain pan of an air conditioning system and initiating operation of a pump arranged in fluid ...



Device for recovering drinking water from condensate as well as a

The present invention particularly involves a device suitable for water-borne applications, specifically at sea, and applications ashore for collecting water as condensate, that has evaporated under the ...

Solar Water Distillation -- Safe Drinking Water Foundation

How it Works Solar water distillers or solar stills are usually used in remote areas where there is limited access to freshwater. The basic principles of solar water distillation are simple, yet ...



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