

# Photovoltaic bracket damper patent



## Overview

The bracket includes mounting surfaces extending laterally from side panels to create clearance and accommodate various tracker manufacturer specifications. This application claims the benefit of U. Photovoltaic tracking bracket is a common tracking device in the field of solar photovoltaic power generation. The main shaft (200) passes through the bearing (2), such that the bearing (2) is sleeved on the main shaft (200), thereby clamping the bearing (2) between the. The present disclosure relates to a damper attachment system for A-frame foundations in solar tracker systems. The system includes a damper tube having a cylindrical body configured to span between opposing legs of an A-frame foundation, with coped ends comprising flanges that conform to the. Solar tracker systems include a torque tube, a solar panel attached to the torque tube, and a damper assembly.

## Article Content

### U.S. Patent Application for DAMPER SYSTEM FOR SOLAR PANEL

Installation and maintenance of damping systems present ongoing challenges for the solar industry. The complexity of integrating dampers into existing tracker designs often requires specialized mounting

### Daqiuzhuang Photovoltaic Bracket Innovations in Structural Engineering

When a 2024 typhoon ripped through coastal solar farms, Daqiuzhuang Photovoltaic Bracket installations stood firm while conventional arrays collapsed like house of cards. This real-world stress

US20160365828A1

FIG. 1 is a simplified diagram in perspective view of a mass damper structure for a solar tracker system according to an embodiment of the present invention. As shown, the mass damper structure has a

### Choose the Right Hydraulic Damper Manufacturer for

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### Custom High-Quality Hydraulic Damper for Photovoltaic

As a critical component in solar power systems, the hydraulic damper plays a pivotal role in ensuring the stability and longevity of photovoltaic (PV) bracket structures.

CN108183670A

The invention discloses a kind of Novel photovoltaic bracket vibration damping and vibration isolation devices, including bottom plate, the upper surface of bottom plate is equipped with threaded hole, the

CN220365908U

The patent name of elastic inclined pulling seat (application number: CN 201520785829.7) of the flexible photovoltaic bracket controls the vibration response of the whole flexible photovoltaic bracket

CN114448337A

The invention belongs to the technical field of photovoltaic power generation, and particularly relates to a single-pile supported angle-adjustable photovoltaic support system which comprises purlins,

### Damping of Wind-Induced Galloping Oscillations of Solar Trackers

A common solution used in the industry is to add structural damping elements in the system using hydraulic dampers. There exists no systematic method for examining the suitability of

CN219372353U

The utility model provides a photovoltaic bracket, which comprises a supporting seat, wherein the photovoltaic bracket is supported by bolts on the front side and the rear side of the upper end of the

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Hier sollte eine Beschreibung angezeigt werden, diese Seite lässt dies jedoch nicht zu.

WO2025152318A1

Definitions the object of the present invention is to provide a rotation damper and a photovoltaic tracking bracket, which improve the stability of the photovoltaic tracking bracket product. the bearing seats

Systems for damping a solar photovoltaic array tracker

CROSS-REFERENCE TO RELATED APPLICATION This application claims the benefit of U.S. Provisional Patent Application No. 63/199,643, filed Jan. 14, 2021, which is incorporated

U.S. Patent for Solar bracket with damping mechanism Patent (Patent ...

In response to the aforementioned technical issues, the present invention is intended to provide a solar bracket with a damping mechanism, which can change the transmission ratio between the rotating

Solar bracket with damping mechanism

Definitions the present invention involves solar brackets field, and further involves solar brackets with damping mechanisms. Photovoltaic tracking bracket is a common tracking device in the field of solar

WO/2022/155023 SYSTEMS FOR DAMPING A SOLAR

WO2022155023 - SYSTEMS FOR DAMPING A SOLAR PHOTOVOLTAIC ARRAY TRACKER. Solar tracker systems include a torque tube, a solar panel attached to the torque tube, and a damper

U.S. Patent for Pre-assembled nesting photovoltaic module bracket for ...

Photovoltaic module assemblies are mounted onto a solar tracker array torque tube via photovoltaic module brackets. The photovoltaic module brackets provide for stacking photovoltaic

WO/2022/155023 SYSTEMS FOR DAMPING A SOLAR PHOTOVOLTAIC

Solar tracker systems include a torque tube, a solar panel attached to the torque tube, and a damper assembly. The damper assembly includes a housing defining first and second chambers, a

#### WO/2025/152318 ROTARY DAMPER AND PHOTOVOLTAIC

This patent search tool allows you not only to search the PCT database of about 2 million International Applications but also the worldwide patent collections. This search facility features:

#### Stabilus Solar Dampers

Less downtime - more solar power: The smart solution from Stabilus makes the status of the damper obvious and protects the solar trackers in photovoltaic

#### A SINGLE AXIS SOLAR TRACKER WITH A TORSIONAL

The present invention relates in general to a single axis solar tracker with a torsional vibration damp-ing device, and more in particular to a single axis solar tracker having a

#### ( 12 ) United States Patent

Solar tracker systems include a torque tube, a solar panel attached to the torque tube, and a damper assembly . The damper assembly includes a housing defining first and second chambers, a first fluid

#### Systems for damping a solar photovoltaic array tracker

The field relates generally to systems for solar tracking and damping a photovoltaic (PV) array. In some embodiments, the system includes a damper assembly that absorbs external loads, such...

#### Solar bracket provided with damping mechanism

Photovoltaic tracking bracket is a common tracking device in the field of solar photovoltaic power generation. It can adjust the angle of the solar panel so that the solar panel is exposed to...

#### BRACKET SYSTEM FOR PHOTOVOLTAIC MODULE

The photovoltaic assembly support system mainly includes a support body, a lower connecting mem-ber and an upper connecting member. Multiple lower connecting members are provided, and are

#### US10648528B2

A damper for reducing vibrations in a rotatable photovoltaic panel array, wherein the damper is configured to provide a first damping force during slow movement of the photovoltaic array and a

#### U.S. Patent Application for SOLAR BRACKET WITH DAMPING

The solar bracket with a damping mechanism provided by the present invention can change the transmission ratio between the rotating component and the damper, enabling the damper to exert

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