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## Patent Search

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#### Abstract:

The relative use of the Photovoltaic System /Thermal system (PV/T) system compared to the photovoltaic or solar thermal system alone has expanded due to increased heat and power demand due to increased heat and power demand improved performance compared to traditional PV/T combination systems simultaneously produce electrical as well as thermal energy for a wide range of applications. Receiving the interest of many researchers, nanofluid (Nanofluid) have recently been utilized in this hybrid system. Nanofluid may be utilized in PV/T systems as an optical filter and an efficient thermal conductivity. In recent years, much study has been concentrated on this area because it is essential to develop energy systems that are sustainable. This innovation focuses mainly on a briefing on various PV/T technologies in conjunction with the elements of their efficiency, construction, and the newest technologies and factors that significantly influence the performance of the PV/T collector. Dated this 28th day of August, 2021

#### Complete Specification

- Claims:1. Solar concentration system consisting of a solar radiation optic body and a receptor element defined by nanofluids being the fluid of the receptor element.
- As described in claim 1, the solar concentrating system is characterized by a plurality of glassed cylindrical conduit between which the transparent interposes or vacuum is realized, is the recipient element.
  - An optical transparent window for the adsorption of direct solar radiation by nanofluid is available to the solar concentration system according in that said receptor element.
  - According to claims 1 and 3, the solar concentration system is characterized by thermal insulation by the recipient element via an isolation layer
  - According to claims 1 to 4, the solar concentration system may vary in form and materials for the receiver's production provided that the concentration absorption by nanofluid of solar radiation is maintained.

, Description:A certain kind of thermodynamic solar concentrator based on nanofluids is the subject of the current invention, specially designed for temperatures.

#### DISCUSSION OF THE PRIOR ART:

The use of fossil fuels to respond to our energy demands can play an essential role in saving our planet from the impact of climate change. Improving technology performance is therefore crucial. Today, Solar PV is competing with fossil fuels side by side. The increase in solar cell temperature affects efficiencies is nevertheless a significant challenge. Therefore, researchers have developed a new strategy to remove overheating from these systems.

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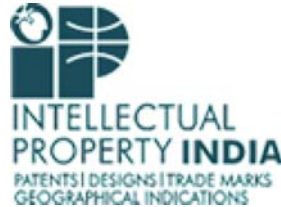




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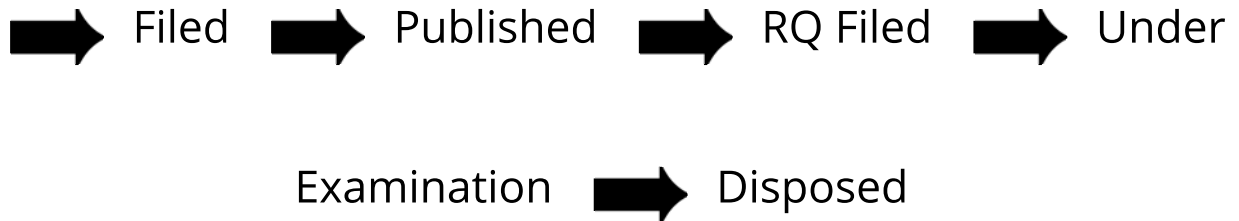
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APPLICATION STATUS

**Awaiting Request for Examination**

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