

Title: Wind-concentrating wind energy generation device

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How Do Wind Turbines Work? Wind turbines work on a simple principle: instead of using electricity to make wind--like a fan--wind turbines use wind to make electricity. Wind turns the propeller-like ...

Wind energy generation is constrained by low density and intermittency. To address these challenges, this study proposes an omnidirectional airflow metamaterial concentrator lens that ...

This invention relates to wind energy, where there is a problem: how to collect wind energy from a large area and concentrate it in a turbine. New technology and devices that solve this...

By utilizing existing wind power turbines and rotors, wind generator brings wind power generation to ground level, ensuring easier, safer, and more cost-effective operation and maintenance.

Wind concentrator enhances the maximum power coefficient of the turbine by 108%. Two plates with flanges deflect the approaching flow downward through the rotor. Small wind turbines are ...

CBC's innovative technology is based upon stationary enclosure that intercepts and concentrates wind in a dynamic chamber, which in turn focuses and directs the wind towards a solid 4-point rotor in the ...

Abstract: The structure of the wind concentrator will directly affect the performance of wind-concentrating turbine. In this paper, to optimize the structure, the CFD software was used.

The omnibearing wind concentration power generation device has higher power generating efficiency compared with traditional wind power generating devices and plays a significant...

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