

Wind Turbine for Home Appliances

Seeking parties interested in licensing and commercializing of technology.

Applications:

- Home appliances like fan, tube light, etc.

Technology Description:

The invention is a novel system which uses wind energy for home electrical appliances. Multiple blades are connected to a hub which is connected to a primary wheel, a Stepper motor connected with secondary wheels are coupled with primary wheel, a Ball bearing placed on a tower joins the transmission system with that of the tail fin. Output of stepper motor is given to a bridge rectifier then to a battery and again inverted using a sine wave inverter. Finally stepped up using a step-up transformer to give the desired output for the appliances.

Advantages of the Technology:

- It is small, low cost and requires less space to install or fix it like a television antenna.
- It can be easily disassembled and shifted from place to place.
- The system starts rotating at lower amount wind speed that contributes the cut-in speed as 2 m/s itself.

Development Status:

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Technology Transfer from the institute:

For more details

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