



National
Foundation

Innovation

National Award, Second

Energy: Micro windmill for generating energy



Shri N. V. Satynarayana

Micro windmill for generating energy

Shri. Satyanarayana has innovated Micro windmill driven battery charger. This device is miniature version of power windmills and harnesses wind energy to generate sufficient electrical potential to recharge batteries of cellular phones, walkman, palmtops, laptops etc. The portable gadget can be used when one travels long-distance in trains or buses for recharging the batteries. Cost wise, it will be much less expensive than using dry cells.

The windmill employs a blade measuring 10 cm in diameter and the overall size of the unit is 3.5 x 3 cm. It produces direct current (DC) flow of up to one ampere at a potential difference of 12 volts. The current generated is sufficient to operate most portable electronic devices, currently operated with the use of dry cell batteries. Mass production of the micro windmill and promoting its use among the travelling public using electronic gadgets will help to conserve resources by switching over to wind energy.

N. Satyanarayana is a science graduate, interested in identifying and inventing simple, low-cost appliances needed by the middle-class people. He is convinced that generation of energy using non-conventional, renewable sources will hold the key in future, when demand for energy will increase.

Satyanarayana hails from Vishakapatnam in Andhra Pradesh. During initial stages of life he had to struggle a lot, both socially as well as economically, to obtain a decent education. Now that, he has found a private job and he is economically better off than in the past, his enthusiasm and ambition to invent useful methods of generating and conserving energy have intensified.



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