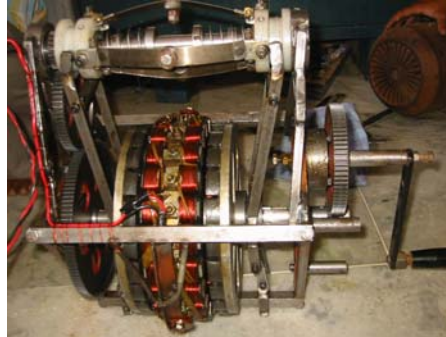


Grassroots Technological Innovations For National Awards



Innovation Ref No: US11/342733

1	Category	Mechanical
2	Name of the innovator	Dineshbhai Ashodia
3	Address of innovator	Silver Appt. Block No. 101, 1st Floor, Mavdi Plot, Swaminarayan Chowk, Rajkot. Mobile No. 0982438150
4	Title of the innovation	Innovative Generator to produce constant power with less Cutting Speed
5	Keywords	Variable speed, Constant output, Cutting speed, Wind operated
6	Background of the Innovator	SSC passed, Local Fabricator, Age: 49yrs old,
<p>Summary: The innovation lies in reducing the cutting speed*. The function of the innovative governor, which is used in generator, is to reduce the cutting speed. This is done by using the concept of centrifugal force. In the case of a regular generator, the coils and the magnets are so closely placed that it becomes difficult to start the generator at low wind speed. But in this case, the innovator has reduced this cutting speed by initially putting the coils and magnets apart. The magnets are in turn attached to the governor, which pushes the magnets closer as the speed of the outer shaft increases. The constant output is obtained by giving the output obtained from the generator to an electronic circuit which in turn gives out constant voltage and current</p> <p>* According to GEDA, cutting speed is defined as the minimum speed at which the rotor starts moving.</p>		
Features of the Entry:		
1	Novelty of the innovation, feature or sub system.	The innovation is in the centrifugal governor. Initially, before the generator starts, there is

	(multiplicity of utility)	
6	Social /environmental impact	As wind energy is used to generate electricity instead of coal, which is normally used, no air pollution is created. Also the cost per unit of electricity can be reduced.
7	Significance to women, handicapped and other marginalized sections	
8	IPR considerations	Applied for US patent.