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## INERTIA AGUMENTATION MECHANISM BY USING DUAL MASS FLYWHEEL PUMP

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## **ABSTRACT**

Alternative energy has received more attention in the national and international media as the pollution from fossil fuels becomes more apparent. Global warming and declining air quality are two effects of society's dependence on fossil fuels. By introducing alternative energy sources into your own daily life, you can help to save the environment and reduce your use of the Non-renewable energy resources.

As we are using the Bicycle pedaling method in order to reduce the human effort of the system and to enhance the human comfort level. The Inertia Agumentation Mechanism is generally increases the inertia in the system and helps for the pumping of the water. The system increases the momentum and the inertia which is produced by the dead weight which are mounted on the Planet gears. Thus it acts as the gear revolver and counter acts the dead weights and creates the pumping action which helps to pump the water. Thus the Inertia which is produced by the pedaling action saves the electricity and reduces the human effort required to drive the system.

**KEYWORDS:** Planet Gears, Inertia, Augmentation, Free Damped Vibrations, Centrifugal Force, Natural Frequency, Excitation, Epicyclic Gears, Vibrations, Electricity