

ABSTRACT

ELECTRICITY ENERGY HARVESTING FROM KNEE MOTION OF HUMAN BODY CAUSES OF PISTON FAILURE

Introduction

Electricity is one the major requirements in today's world. With either computerization of all fields or increased power consumption, there is a clear lack of power produced to meet all demands. With increase in industries everyday and dependency of people on gadgets is increasing the demand for power more than it can be supplied. To satisfy the demand many possible alternatives have been explored which seemed impossible and unnecessary a few decades/ years ago. Such innovative ways of power harvesting and generation includes solar tracking solar panels, self-powered delivery helicopters and drones, airborne wind turbines, energy generating artificial foot etc. Every possible way is being exploited to produce energy which includes both renewable and non-renewable energy. One such renewable energy source which is yet to be tapped to its potential is human body.

Objectives:

- i. To provide an alternate power source which works due to movement of human body and do not depend on electricity.
- ii. To design a gadget which can be used around knee and charge portable devices at ease.
- iii. To provide a light weight gadget which do not affect the person wearing it and also do not affect the motion of legs.
- iv. To design a gadget with better efficiency and energy output.

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