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Electricity Generator Shoes

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Abstract: *There has been a rise in the usage of low powered portable electronic devices in the last decade. Use of these devices has eased our daily lives to a great extent. Due to increase in power consumption of these portable devices, the concept of generating alternative renewable energy arise a new interest. For an alternate method to generate electricity there are number of methods by which electricity can be produced, out if such methods piezoelectric generation can be an effective method to generate electricity. This project makes use of the piezoelectric concept which states that mechanical energy can be converted to electrical energy when the piezoelectric material is subjected to external pressure, for example walking. Walking is the most common activity in human life. When a person walks, he loses energy to the surface in the form of impact or vibration due to the transfer of his weight on to the surface, through foot falls on the ground during every step. This energy can be tapped and converted in the usable form such as in electrical form. This device, if embedded in the shoe, can convert foot impact energy into electrical form. This project represents a piezoelectric energy generating model.*

Keywords: Shoes

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