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Tech 393

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E-Harvester

The E-Harvester is a device that is based off of a solar panel. The design is greatly improved over a solar panel because it can also absorb heat that is not in the form of light and can absorb vibrations and sound to convert into electricity as well. Technology regarding the solar cell has been in fruition since the late 1800s. Solar panels convert energy from the sun’s rays into electricity using electron manipulation. Light is comprised of photons, which bombard the silicon inside a solar panel. This collision knocks electrons loose, which are then harvested by the solar cell apparatus. The cell has two parts, one which is positively charged with electrons and one which is negatively charged, with spaces for more electrons. This provides a force to pull in and gather the stray electrons, thus converting them to electricity.

There has been recent discoveries in metal alloys that allow for a type of metal to be created that can directly produce electrical current when heated. The E-Harvester will have a section of this type of metal that is capable of absorbing any radiant heat. The third function of the E-Harvester is the vibration absorption, which

Impact Analysis

The E-Harvester is a technology designed to reduce energy wastes by absorbing excess energy that otherwise would have been lost to the environment. The positive effects of this technology are boundless. The E-Harvester requires no initial energy source, and thus can be placed anywhere in the world. The most efficient usage of E-Harvesters would be equatorial countries that are hot and get much direct sunlight. Geographic regions that do not keep much light would be less impacted. Theoretically, the E-Harvester will have to distrupt

<http://www.physics.org/article-questions.asp?id=51>

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