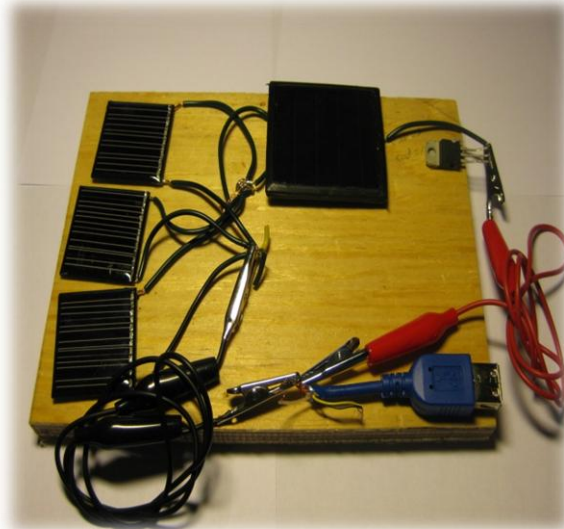


SOLAR POWER IPOD CHARGER



Problem

1. Current fossil fuel power generation is becoming more expensive day by day.
2. Fossil fuels like coal, oil and gas have to be extracted deep below the Earth's surface and are non-renewable.
3. Power generation can be dangerous. For example generating electricity from nuclear energy and extracting oil.



Solar iPod Charger Prototype

Solution

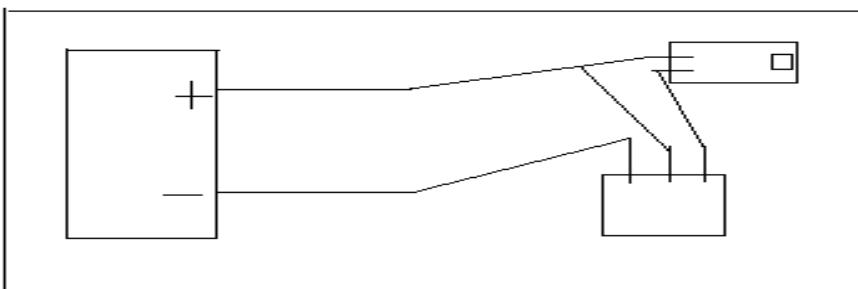
1. Power generation through solar panels has become cheap.
2. Using solar panels, we no longer depend on any fossil fuels. We use solar energy which is readily available and free of cost!
3. Use of solar panels is not dangerous at all. Solar energy is completely harmless and it is not hazardous to human life by any means.

Design Challenge

The main design challenge is to create a solar panel that can be used for educational purposes in classrooms. The solar panel should be affordable, easy to build, show solar powers capabilities and above all it should build interest in younger audience.

Design Plan

To create interest in the younger audience, the device is made to charge an iPod. The design construction is simple. It has a wooden base where a 6V solar panel is connected to a USB which will power the iPod. A 5V voltage regulator is also connected to protect the device. The prototype can easily be assembled by school children and cost of the device below \$35!



Basic Outline for Construction

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