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(57) Abstract:

The solar powered mobile jacket is invented and it is provided in such a way that will solve the issue of burden of carrying extra item for mobile charging while exploring a offbeat place like hills, jungle or beach. The proposed intentional may also solve the slow charging issues of typical solar based charger with its novel features of fast charging. The solar powered mobile jacket includes a cover, where solar panels are integrated into the back panel of the housing. A microcontroller based circuit board is coupled to the solar panel. An output jack connecting to the mobile device which charges the mobile rapidly and automatically as per requirement without having extra items together with the mobile and it is removably attached to the mobile. The problem of the typical solar powered mobile jacket was that it can not able to reduce the burden of separate device and will not impact majorly to the weight, size and fast charging of the device. The proposed invention overcomes the said issues and enables user to charge the device even while it is being operated.

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Patent Search

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Abstract:

The solar powered mobile jacket is invented and it is provided in such a way that will solve the issue of burden of carrying extra item for mobile charging while exploring a place like hills, jungle or beach. The proposed intentional may also solve the slow charging issues of typical solar based charger with its novel features of fast charging. The powered mobile jacket includes a cover, where solar panels are integrated into the back panel of the housing. A microcontroller based circuit board is coupled to the solar An output jack connecting to the mobile device which charges the mobile rapidly and automatically as per requirement without having extra items together with the mobil is removably attached to the mobile. The problem of the typical solar powered mobile jacket was that it can not able to reduce the burden of separate device and will not i majorly to the weight, size and fast charging of the device. The proposed invention overcomes the said issues and enables user to charge the device even while it is being operated.

Complete Specification

Claims:What is claimed is:

- 1. A cost effective solar powered jacket for fast charging mobile while there is no other conventional mode of charging, comprising: a housing comprising a jacket, a ba panel exposing to the sunray, comprising array of solar panels incorporated in the housing; a circuit board electrically connected comprising: an internal battery electrical coupled to the circuit board, wherein that solar energy will be converted as voltage by the photovoltaic device (solar panel cell); green LED glows here the intensity of this LED varies depends on the voltage produced by the solar panel.
- 2. The cost effective solar powered jacket of claim 1, wherein the Zener diode reduce and regulates voltage and the SL100 transistor drives output voltage.
- 3. The cost effective solar powered jacket of claim 1 to 2, wherein the circuit comprising 6V/1A solar panel, and single PN junction diode 1N4007 connected towards positive line of solar panel; avoids reverse polarity.
- 4. The cost effective solar powered jacket of claim 1 to 3, wherein a green LED connected across the solar panel supply line after the C1 capacitor provides status of supply output from solar panel.
- 5.... The cost effective solar powered jacket of claim 1 to 4. ensures the reverse polarity protection also

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