

1. IN201841032095 - SOLAR POWERED AIR CONDITIONING AND WATER HEATING APPARATUS AND A METHOD THEREOF



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Title**[EN]** SOLAR POWERED AIR CONDITIONING AND WATER HEATING APPARATUS AND A METHOD THEREOF**Application Number**

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Abstract**[EN]**

SOLAR POWERED AIR CONDITIONING AND WATER HEATING APPARATUS AND A METHOD THEREOF Solar powered air conditioning and water heating apparatus and a method to operate the same. The apparatus includes a plurality of pairs of Peltier elements, each element of the plurality of pairs of the Peltier elements are connected in series and each pair of the plurality of pairs of the Peltier elements is connected in parallel. The plurality of pairs of Peltier elements is configured to convert thermal energy into electrical energy. The apparatus also includes one or more solar panels configured to convert solar energy into electrical energy, an air cooling subsystem configured to cool the air, the air is generated by the plurality of pairs of Peltier elements within a pre-defined area, a water heating subsystem configured to heat the water within a specific container based on Peltier effect of heating, a control unit configured to control flow of the electrical energy by pulse width modulation (PWM) technique. FIG. 1

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