



(54) **DEVICES AND METHODS FOR RELIABLE POWER SUPPLY FOR ELECTRONIC DEVICES**

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(57) **ABSTRACT**

A power supply system includes an energy storage device electrically connected to a power grid, a power distribution assembly electrically connected to a load, and a power generation device electrically connected to the power distribution assembly. The energy storage device and the power grid are configured to supply electric power having a first voltage range to the power distribution assembly, which in turn, is configured to supply electric power having a second voltage range less than the first voltage range to the load. The energy storage device and the power generation device each are configured to at least temporarily supply a flow of electric power to the power distribution assembly when electric power from the power grid is interrupted such that a substantially uninterrupted flow of electric power is supplied to the load.

