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(54) **ENERGY CONTROL SYSTEM**

(71) Applicant: **SunPower Corporation**, San Jose, CA (US)

(72) Inventors: **Sandeep NARLA**, Newark, CA (US); **Brian KUHN**, Austin, TX (US); **Kevin C. FISCHER**, Orinda, CA (US); **Udo UEBEL**, San Francisco, CA (US); **Marc A. ROBINSON**, Cedar Park, TX (US)

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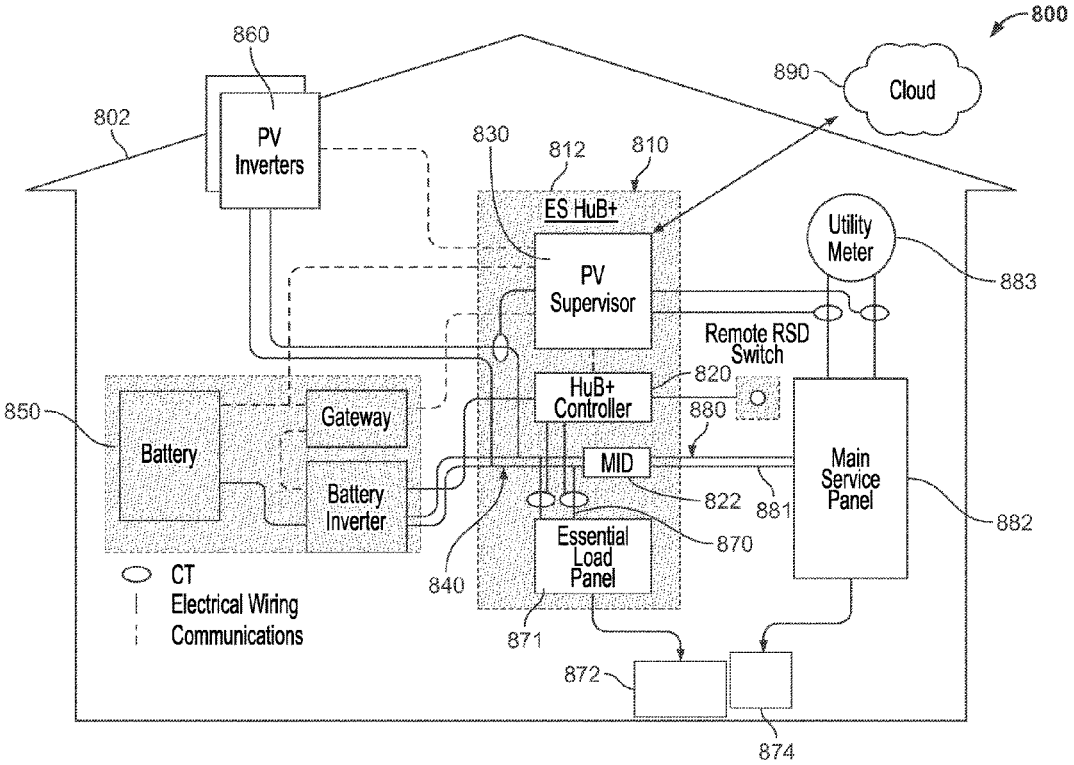
(57) **ABSTRACT**

The present disclosure provides a method for controlling an energy control system. The method includes detecting a power outage at a grid interconnection. The method includes connecting a first set of the plurality of backup loads to a backup load interconnection, in which the backup load interconnection is electrically coupled to a backup power interconnection. The method includes disconnecting a second set of the plurality of backup loads from the backup load connection such that power is interrupted between the backup power source and the second set of backup loads. The method includes receiving a request from a user device to connect at least one load of the second set of the plurality of backup loads to the backup interconnection. The method includes determining whether to connect one load of the second set of the plurality of backup loads to the backup interconnection according to one or more programmed rules.