



US 20240178674A1

(19) **United States**

(12) **Patent Application Publication**
ISRAEL et al.

(10) **Pub. No.: US 2024/0178674 A1**

(43) **Pub. Date: May 30, 2024**

(54) **DEVICE AND METHOD FOR
CONTROLLING CONNECTION OF POWER
SUPPLY UNITS TO POWER GRID**

Publication Classification

(51) **Int. Cl.**
H02J 3/46 (2006.01)
H02J 3/32 (2006.01)
H02J 3/38 (2006.01)
(52) **U.S. Cl.**
CPC *H02J 3/472* (2020.01); *H02J 3/32*
(2013.01); *H02J 3/381* (2013.01); *H02J*
2300/24 (2020.01)

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(21) Appl. No.: **18/425,082**

(22) Filed: **Jan. 29, 2024**

Related U.S. Application Data

(63) Continuation of application No. 18/203,164, filed on
May 30, 2023, now Pat. No. 11,936,191, which is a
continuation of application No. PCT/IL2022/050315,
filed on Mar. 21, 2022.

Foreign Application Priority Data

Mar. 21, 2021 (IL) 281685

(57) **ABSTRACT**

A power supply assembly is disclosed comprising a power supply unit adapted to provide power to a user's device in accordance with power requirements of the user's device, a power connection control unit and an AC controllable switch, configured to connect and disconnect AC power source from the power supply unit in response to respective control provided by the power connection control unit, wherein the power connection control unit and the AC controllable switch are configured to maintain one of two states without consuming electrical power, wherein the two states of the power connection control unit are set state adapted to switch on the AC controllable switch and unset state adapted to switch off the AC controllable switch and wherein when the power supply assembly is in its unset state it is completely disconnected from the AC power source.

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