



US 20240178651A1

(19) **United States**

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

(10) **Pub. No.: US 2024/0178651 A1**

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

(54) **OUTPUT CONTROL CIRCUIT, START
POWER SUPPLY, AND BATTERY CLIP**

(52) **U.S. Cl.**
CPC **H02H 3/08** (2013.01)

(71) Applicant: **SHENZHEN CAR KU
TECHNOLOGY CO., LIMITED,**
Shenzhen (CN)

(57) **ABSTRACT**

(72) Inventors: **Yun LEI**, Shenzhen (CN); **Zhifeng
ZHANG**, Shenzhen (CN); **Jianping
LIN**, Shenzhen (CN)

An output control circuit, a start power supply, and a battery clip are provided in the present disclosure. The output control circuit includes a power supply end, a load end, and a first protection module. The power supply end is configured to be connected with a power supply module. The load end is configured to be connected with an external load device. The power supply end is electrically connected with the load end at least through the first protection module, to implement the power supply module supplying power to the external load device at least through the first protection module. The first protection module is configured to monitor a power supply state of the power supply module supplying power to the external load device, and disconnect a connection between the power supply end and the load end or limit a current based on the power supply state.

(21) Appl. No.: **18/432,950**

(22) Filed: **Feb. 5, 2024**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2021/
111798, filed on Aug. 10, 2021.

Publication Classification

(51) **Int. Cl.**
H02H 3/08 (2006.01)

