



US 20230231224A1

(19) **United States**
(12) **Patent Application Publication**
WANG et al.

(10) **Pub. No.: US 2023/0231224 A1**
(43) **Pub. Date: Jul. 20, 2023**

(54) **BATTERY AND ELECTRIC DEVICE**

H01M 10/48 (2006.01)

(71) Applicant: **CONTEMPORARY AMPEREX
TECHNOLOGY CO., LIMITED,**
Ningde (CN)

H01M 10/63 (2006.01)

H01M 10/615 (2006.01)

H01M 10/6554 (2006.01)

(72) Inventors: **Wei WANG**, Ningde (CN); **Jiarong
HONG**, Ningde (CN); **Yuepan HOU**,
Ningde (CN); **Mu QIAN**, Ningde (CN);
Peng WANG, Ningde (CN)

(52) **U.S. Cl.**

CPC *H01M 10/6556* (2015.04); *H01M 10/63*

(2015.04); *H01M 10/486* (2013.01); *H01M*

10/615 (2015.04); *H01M 10/6554* (2015.04);

H01M 50/204 (2021.01)

(73) Assignee: **CONTEMPORARY AMPEREX
TECHNOLOGY CO., LIMITED,**
Ningde (CN)

(57)

ABSTRACT

(21) Appl. No.: **18/126,503**

(22) Filed: **Mar. 27, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2022/
076043, filed on Feb. 11, 2022.

(30) **Foreign Application Priority Data**

Apr. 1, 2021 (CN) 202110357856.4

Publication Classification

(51) **Int. Cl.**
H01M 10/6556 (2006.01)
H01M 50/204 (2006.01)

A battery may include a first battery module, a second battery module, and a thermal management component. The first battery module may include a plurality of first battery cells, the second battery module may include a plurality of second battery cells, and the plurality of second battery cells may be located at the peripheries of the first battery cells. The thermal management component may include a first flow channel, a second flow channel, a first inlet through which fluid is input into the first flow channel, and a second inlet through which fluid is input into the second flow channel. The first flow channel and the second flow channel can be formed as two separate flow channels for flowing, so that the first flow channel adjusts temperature of the plurality of first battery cells and the second flow channel adjusts temperature of the plurality of second battery cells.

