



US 20230231202A1

(19) **United States**

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

(10) **Pub. No.: US 2023/0231202 A1**

(43) **Pub. Date: Jul. 20, 2023**

(54) **BATTERY PACK, AND POWER CONSUMING
DEVICE THEREOF**

Publication Classification

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

(51) **Int. Cl.**
H01M 10/0585 (2006.01)
H01M 50/204 (2006.01)
H01M 4/133 (2006.01)
H01M 10/44 (2006.01)

(72) Inventors: **Shaocong OUYANG**, Ningde (CN);
Chenghua FU, Ningde (CN); **Baoyun
XU**, Ningde (CN); **Miaomiao DONG**,
Ningde (CN); **Yonghuang YE**, Ningde
(CN)

(52) **U.S. Cl.**
CPC **H01M 10/0585** (2013.01); **H01M 50/204**
(2021.01); **H01M 4/133** (2013.01); **H01M**
10/441 (2013.01); **H01M 2220/20** (2013.01);
H01M 2004/028 (2013.01)

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

(57) **ABSTRACT**

(21) Appl. No.: **18/118,756**

A battery pack may include a first battery cell type and a second battery cell type, wherein the first battery cell type may include n first battery cells, and the second battery cell type may include m second battery cells, with n and m being each independently selected from an integer of 1 or more, wherein the second battery cell may have a discharge power at -20° C. greater than that of the first battery cell, the difference in discharge power at -20° C. between the second battery cells and the first battery cells being ≥ 10 W; the percentage by number of the first battery cells in the battery cells comprised in area A may be 20% to 100%, and the percentage by number of the second battery cells in the battery cells comprised in the area B may be 5% to 100%.

(22) Filed: **Mar. 8, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2021/
131490, filed on Nov. 18, 2021.

