



US 20230231249A1

(19) **United States**

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

(10) **Pub. No.: US 2023/0231249 A1**

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

(54) **BATTERY MODULE, BATTERY PACK, APPARATUS, AND METHOD AND DEVICE FOR MANUFACTURING BATTERY MODULE**

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(21) Appl. No.: **17/970,603**

(22) Filed: **Oct. 21, 2022**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2020/105474, filed on Jul. 29, 2020.

Publication Classification

(51) **Int. Cl.**

H01M 50/204 (2006.01)

H01M 4/583 (2006.01)

H01M 4/525 (2006.01)

H01M 4/58 (2006.01)

H01M 10/04 (2006.01)

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

CPC **H01M 50/204** (2021.01); **H01M 4/583**

(2013.01); **H01M 4/525** (2013.01); **H01M**

4/5825 (2013.01); **H01M 10/0404** (2013.01);

H01M 2004/027 (2013.01)

(57)

ABSTRACT

The present application discloses a battery module, a battery pack, an apparatus, and a method and device for manufacturing a battery module. The battery module includes n first-type battery cells and m second-type battery cells, $n \geq 1$, $m \geq 1$, and the n first-type battery cells and them second-type battery cells are arranged and satisfy: $VED_1 > VED_2$, $\Delta F_1 > \Delta F_2$, and $(\Delta F_1 \times n + \Delta F_2 \times m) / (n + m) \leq 0.8 \times \Delta F_1$, where VED_1 , VED_2 , ΔF_1 and ΔF_2 are respectively defined in the description.

