



US 20230231241A1

(19) **United States**

(12) **Patent Application Publication**
XIAO

(10) **Pub. No.: US 2023/0231241 A1**

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

(54) **BATTERY CELL, BATTERY AND
ELECTRICAL APPARATUS**

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

(72) Inventor: **Jun XIAO,** Ningde (CN)

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

(21) Appl. No.: **18/127,705**

(22) Filed: **Mar. 29, 2023**

Related U.S. Application Data

(63) Continuation of application No. PCT/CN2021/
115166, filed on Aug. 27, 2021.

Publication Classification

(51) **Int. Cl.**

H01M 50/15 (2006.01)

H01M 50/103 (2006.01)

H01M 50/186 (2006.01)

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

CPC **H01M 50/15** (2021.01); **H01M 50/103**
(2021.01); **H01M 50/186** (2021.01)

(57)

ABSTRACT

A battery cell may include: a case, an outer surface thereof away from the interior of the battery cell may be clad with a first insulating layer; an end cap assembly, which may be disposed at an end portion of the case along the length direction of the battery cell; and an end cap patch, which may be attached to a surface of the end cap assembly away from the interior of the battery cell; wherein the end cap patch may be adhered with a second insulating layer, and the second insulating layer may be at least partially folded to the case and connected with the first insulating layer.

1

