



US 20220352740A1

(19) **United States**

(12) **Patent Application Publication**
TSENG

(10) **Pub. No.: US 2022/0352740 A1**

(43) **Pub. Date: Nov. 3, 2022**

(54) **METHOD FOR CHARGING A BATTERY
AND TERMINAL**

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

CPC **H02J 7/007192** (2020.01); **H02J 7/0049**
(2020.01)

(71) Applicant: **BEIJING XIAOMI MOBILE
SOFTWARE CO., LTD.**, Beijing (CN)

(57)

ABSTRACT

(72) Inventor: **Yaoyi TSENG**, Beijing (CN)

(21) Appl. No.: **17/564,517**

(22) Filed: **Dec. 29, 2021**

(30) **Foreign Application Priority Data**

Apr. 30, 2021 (CN) 202110483514.7

Publication Classification

(51) **Int. Cl.**

H02J 7/00 (2006.01)

A method for charging a battery, includes: detecting current geographic location information and current time information of the terminal; determining a current temperature characteristic of an environment where the terminal is currently located according to the current geographic location information and the current time information; determining a target full charging voltage matching the current temperature characteristic, and charging a battery of the terminal with the target full charging voltage, in which different full charging voltages match with different temperature characteristics.

