



US 20220352849A1

(19) **United States**(12) **Patent Application Publication**
WANG et al.(10) **Pub. No.: US 2022/0352849 A1**(43) **Pub. Date: Nov. 3, 2022**(54) **LOCATION UPDATE METHOD AND
APPARATUS OF PHOTOVOLTAIC STRING****Publication Classification**(71) Applicant: **Huawei Digital Power Technologies
Co., Ltd.**, Futian District (CN)(51) **Int. Cl.**
H02S 50/15 (2006.01)
H02J 3/00 (2006.01)
G06T 7/00 (2006.01)(72) Inventors: **Jianqiang WANG**, Shanghai (CN);
Yuandong MENG, Shanghai (CN);
Song WAN, Shanghai (CN); **Yanzhong
ZHANG**, Shenzhen (CN)(52) **U.S. Cl.**
CPC **H02S 50/15** (2014.12); **H02J 3/004**
(2020.01); **G06T 7/0002** (2013.01); **H02J**
2300/24 (2020.01)(73) Assignee: **Huawei Digital Power Technologies
Co., Ltd.**, Futian District (CN)(21) Appl. No.: **17/868,105**(22) Filed: **Jul. 19, 2022****Related U.S. Application Data**(63) Continuation of application No. PCT/CN2020/
113622, filed on Sep. 4, 2020.(30) **Foreign Application Priority Data**

Jan. 22, 2020 (CN) 202010075397.6

ABSTRACT

A photovoltaic string location update method and apparatus includes: obtaining, based on a physical map, a physical location of a first photovoltaic string corresponding to a first logical location in the physical map, the physical map indicating a correspondence between a logical location of a photovoltaic string and a physical location of the photovoltaic string, and the photovoltaic string includes the first photovoltaic string; and when the physical location of the first photovoltaic string in the physical map is different from a first actual physical location of the first photovoltaic string, updating the physical location of the photovoltaic string in the physical map to the first actual physical location, to obtain an updated physical map. The first actual physical location of the photovoltaic string is inconsistent with the physical location in the physical map, to prepare for subsequent operation and maintenance accurately performed on the photovoltaic string.

