



(51) International Patent Classification:
H02S 50/00 (2014.01)

(21) International Application Number:
PCT/SG2021/050126

(22) International Filing Date:
11 March 2021 (11.03.2021)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202010177188.2 13 March 2020 (13.03.2020) CN

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(54) Title: METHOD AND APPARATUS FOR DETERMINING OPERATING STATE OF PHOTOVOLTAIC ARRAY, DEVICE AND STORAGE MEDIUM

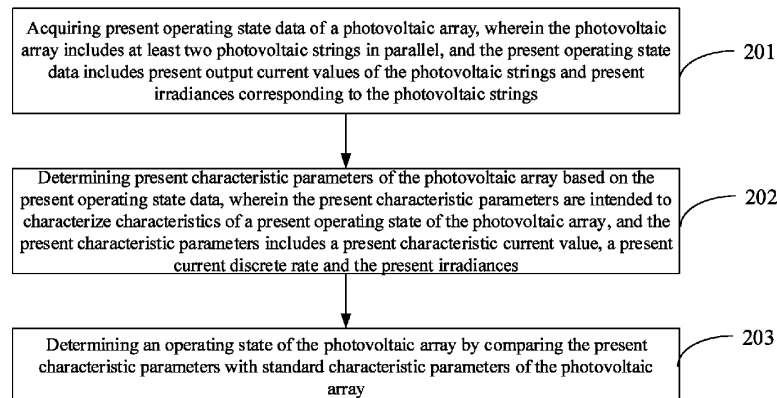


FIG. 2

(57) Abstract: Embodiments of the present disclosure disclose a method and an apparatus for determining an operating state of a photovoltaic array, a device and a storage medium thereof, which belong to the field of photovoltaic technologies. The method includes: acquiring present operating state data of a photovoltaic array, wherein the photovoltaic array includes at least two photovoltaic strings in parallel, and the present operating state data includes present output current values of the photovoltaic strings and present irradiances corresponding to the photovoltaic strings; determining present characteristic parameters of the photovoltaic array based on the present operating state data, wherein the present characteristic parameters include a present characteristic current value, a present current discrete rate and the present irradiances; and determining an operating state of the photovoltaic array by comparing the present characteristic parameters with standard characteristic parameters of the photovoltaic array. Determining a present operating state of a photovoltaic array by comparing present characteristic parameters determined based on real-time operating state data with standard characteristic parameters may improve the accuracy of determining the operating state of the photovoltaic array.

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(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AO, AT, AU, AZ, BA, BB, BG, BH, BN, BR, BW, BY, BZ, CA, CH, CL, CN, CO, CR, CU, CZ, DE, DJ, DK, DM, DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT, HN, HR, HU, ID, IL, IN, IR, IS, IT, JO, JP, KE, KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU, LY, MA, MD, ME, MG, MK, MN, MW, MX, MY, MZ, NA, NG, NI, NO, NZ, OM, PA, PE, PG, PH, PL, PT, QA, RO, RS, RU, RW, SA, SC, SD, SE, SG, SK, SL, ST, SV, SY, TH, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, WS, ZA, ZM, ZW.

(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LR, LS, MW, MZ, NA, RW, SD, SL, ST, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, RU, TJ, TM), European (AL, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HR, HU, IE, IS, IT, LT, LU, LV, MC, MK, MT, NL, NO, PL, PT, RO, RS, SE, SI, SK, SM, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, KM, ML, MR, NE, SN, TD, TG).

Published:

- with international search report (Art. 21(3))
- in black and white; the international application as filed contained color or greyscale and is available for download from PATENTSCOPE