

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
16 September 2021 (16.09.2021)



(10) International Publication Number
WO 2021/183053 A1

(51) International Patent Classification:
G06N 20/20 (2019.01) *H02S 50/00* (2014.01)

(21) International Application Number:
PCT/SG2021/050125

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

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
202010177887.7 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

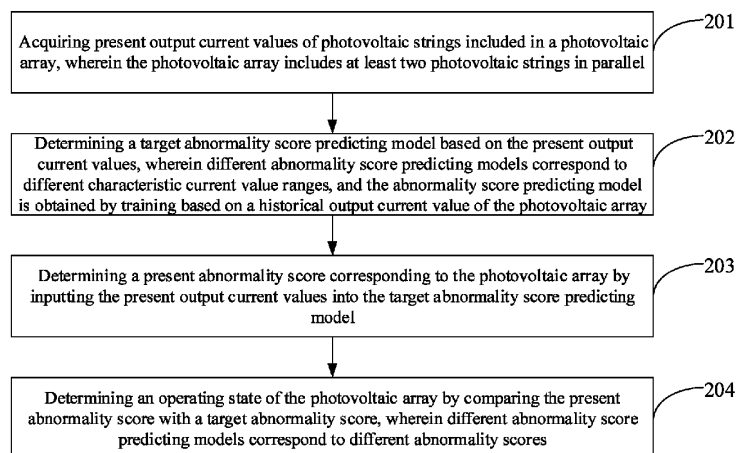


FIG. 2

(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 output current values of photovoltaic strings included in a photovoltaic array, wherein the photovoltaic array includes at least two photovoltaic strings in parallel; determining a target abnormality score predicting model based on the present output current values; determining a present abnormality score corresponding to the photovoltaic array by inputting the present output current values into the target abnormality score predicting model; and determining the operating state of the photovoltaic array by comparing the present abnormality score with a target abnormality score. The present abnormality score is output by inputting the present output current values acquired in real-time into the abnormality score predicting model, so as to determine the operating state of the photovoltaic array. Compared to a method for determining an operating state through an infrared image in the related arts, the interference of the

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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

ambient temperature on the infrared image can be avoided, thereby improving the accuracy of determining the operating state of the photovoltaic array.