

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

(19) World Intellectual Property
Organization
International Bureau

(43) International Publication Date
06 July 2023 (06.07.2023)



(10) International Publication Number
WO 2023/126145 A1

(51) International Patent Classification:
H01L 31/02 (2006.01) *H01L 31/044* (2014.01)
H01L 31/042 (2014.01)

(21) International Application Number:
PCT/EP2022/085146

(22) International Filing Date:
09 December 2022 (09.12.2022)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:
2119059.0 29 December 2021 (29.12.2021) GB

(71) Applicant: **REC SOLAR PTE. LTD.** [SG/SG]; 20 Tuas
South Avenue 14, Singapore 637312 (SG).

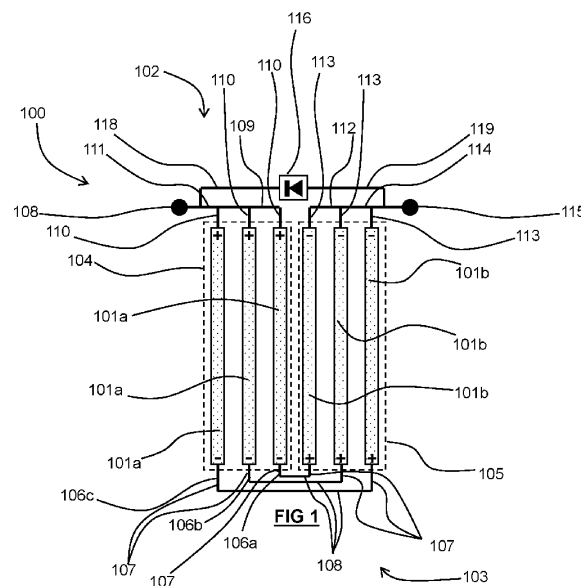
(71) Applicant (for MN only): **MEWBURN ELLIS LLP**
[GB/GB]; Aurora Building, Counterslip, Bristol BS1 6BX
(GB).

(72) Inventors: **SUBRAMANI, Thiyagu**; c/o REC SOLAR
PTE. LTD., 20 Tuas South Avenue 14, Singapore 637312
(SG). **SRIDHARA, Shankar Gauri**; c/o REC SOLAR
PTE. LTD., 20 Tuas South Avenue 14, Singapore 637312
(SG).

(74) Agent: **MEWBURN ELLIS LLP**; Aurora Building, Counterslip, Bristol BS1 6BX (GB).

(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, CV, CZ, DE, DJ, DK, DM,
DO, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, GT,
HN, HR, HU, ID, IL, IN, IQ, IR, IS, IT, JM, JO, JP, KE,
KG, KH, KN, KP, KR, KW, KZ, LA, LC, LK, LR, LS, LU,
LY, MA, MD, 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,

(54) Title: SOLAR MODULE



(57) Abstract: A solar module comprising a plurality of solar cell strings arranged side-by-side, each solar cell string having positive and negative terminals at opposite ends thereof, the plurality of solar cell strings comprising: a first group of adjacent solar cell strings, each oriented such that their positive terminals are disposed towards a first end of the solar module; and a second group of adjacent solar cell strings, each oriented such that their positive terminals are disposed towards a second end of the solar module opposite the first end, the positive terminals of the second group of solar cell strings electrically connected to the negative terminals of the first group of solar cell strings.

[Continued on next page]

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, CV, 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, ME, 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).

Declarations under Rule 4.17:

— *of inventorship (Rule 4.17(iv))*

Published:

— *with international search report (Art. 21(3))*