US 20230231059A1

(19) **United States**

(12) **Patent Application Publication** (10) **Pub. No.: US 2023/0231059 A1**

GIBSON (43) **Pub. Date: Jul. 20, 2023**

(54) **SOLAR MODULE HAVING A PLURALITY OF STRINGS CONFIGURED FROM A FIVE STRIP CELL**

(71) Applicant: **SOLARIA CORPORATION**, Fremont, CA (US)

(72) Inventor: **Kevin R. GIBSON**, Redwood City, CA (US)

(21) Appl. No.: **18/175,311**

(22) Filed: **Feb. 27, 2023**

Related U.S. Application Data

(60) Continuation of application No. 16/839,403, filed on Apr. 3, 2020, now Pat. No. 11,594,646, which is a division of application No. 15/611,714, filed on Jun. 1, 2017, now Pat. No. 10,651,321, which is a continuation-in-part of application No. 14/609,307, filed on Jan. 29, 2015, now abandoned.

(60) Provisional application No. 62/349,535, filed on Jun. 13, 2016.

Publication Classification

(51) **Int. Cl.**

H01L 31/02	(2006.01)
H01L 31/05	(2014.01)
H01L 31/18	(2006.01)
H01L 31/044	(2014.01)

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

CPC ***H01L 31/0201*** (2013.01); ***H01L 31/0508*** (2013.01); ***H01L 31/18*** (2013.01); ***H01L 31/1804*** (2013.01); ***H01L 31/044*** (2014.12); *Y02E 10/50* (2013.01)

(57) **ABSTRACT**

In an example, the present invention provides a method of manufacturing a solar module. The method includes providing a substrate member having a surface region, the surface region comprising a spatial region, a first end strip comprising a first edge region and a first interior region, the first interior region comprising a first bus bar, a plurality of strips, a second end strip comprising a second edge region and a second interior region, the second edge region comprising a second bus bar, the first end strip, the plurality of strips, and the second end strip arranged in parallel to each other and occupying the spatial region such that the first end strip, the second end strip, and the plurality of strips consists of a total number of five (5) strips. The method includes separating each of the plurality of strips, arranging the plurality of strips in a string configuration, and using the string in the solar module.