



US 20240213387A1

(19) **United States**

(12) **Patent Application Publication**  
**JANG et al.**

(10) **Pub. No.: US 2024/0213387 A1**

(43) **Pub. Date: Jun. 27, 2024**

(54) **LIGHT TRANSMISSION TYPE-SOLAR CELL  
MODULE, AND METHOD OF  
MANUFACTURING THE SAME**

**Publication Classification**

(51) **Int. Cl.**

**H01L 31/048** (2006.01)

**H01L 31/18** (2006.01)

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

**CPC ..... H01L 31/0488** (2013.01); **H01L 31/1876**  
(2013.01)

(71) Applicant: **MECAROENERGY CO., LTD.**,  
Chungcheongbuk-do (KR)

(72) Inventors: **Hyuk Kyoo JANG**, Cheongju-si (KR);  
**Gyu Hyun LEE**, Chungju-si,  
Chungcheongbuk-do (KR); **Soon Yong**  
**LIM**, Cheongju-si (KR); **Chan Seon**  
**LEE**, Cheonan-si (KR); **Tae Woo**  
**EOM**, Chungcheongbuk-do (KR)

(73) Assignee: **MECAROENERGY CO., LTD.**,  
Chungcheongbuk-do (KR)

(21) Appl. No.: **18/390,100**

(22) Filed: **Dec. 20, 2023**

(30) **Foreign Application Priority Data**

Dec. 23, 2022 (KR) ..... 10-2022-0183366

(57)

**ABSTRACT**

Disclosed is a light transmission type-solar cell module, and a manufacturing method thereof, the manufacturing method of the light transmission type-solar cell module comprising: a first step of forming a thin-film solar cell comprising solar cell patterns by patterning a thin-film solar cell layer located on a glass substrate; a second step of disposing a transparent adhesion layer on the thin-film solar cell; and a third step of adhering a cover glass substrate onto the transparent adhesion layer, wherein the first step is to form the thin-film solar cell comprising the solar cell patterns in such a manner as to pattern the thin solar cell layer located on the glass substrate by carrying out etching using a laser.

