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(12) **United States Design Patent**  
**Fang et al.**

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(54) **DOUBLE-SIDE SOLAR CELL**

31/0525; H02S 30/00; H02S 20/10; H02S  
20/23; H02S 20/30; H02S 40/34; H02S  
40/44; F24J 2/52; F03G 6/00

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See application file for complete search history.

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(56) **References Cited**

U.S. PATENT DOCUMENTS

D644,987 S *	9/2011	Casler .....	D13/102
D670,239 S *	11/2012	Kannou .....	D13/102
D741,793 S *	10/2015	Lim .....	H01L 31/02243 D13/102
D762,163 S *	7/2016	Parilla .....	D13/102
D810,675 S *	2/2018	Detrick .....	D13/102
D815,028 S *	4/2018	Detrick .....	D13/102
D815,031 S *	4/2018	Yang .....	D13/102
D817,264 S *	5/2018	Detrick .....	D13/102

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\* cited by examiner

(\*\*) Term: **15 Years**

*Primary Examiner* — Daniel Bui

(21) Appl. No.: **29/616,718**

(57) **CLAIM**

The ornamental design for a double-side solar cell, as shown  
and described.

(22) Filed: **Sep. 8, 2017**

**DESCRIPTION**

(30) **Foreign Application Priority Data**

May 3, 2017 (CN) ..... 2017 3 0158141

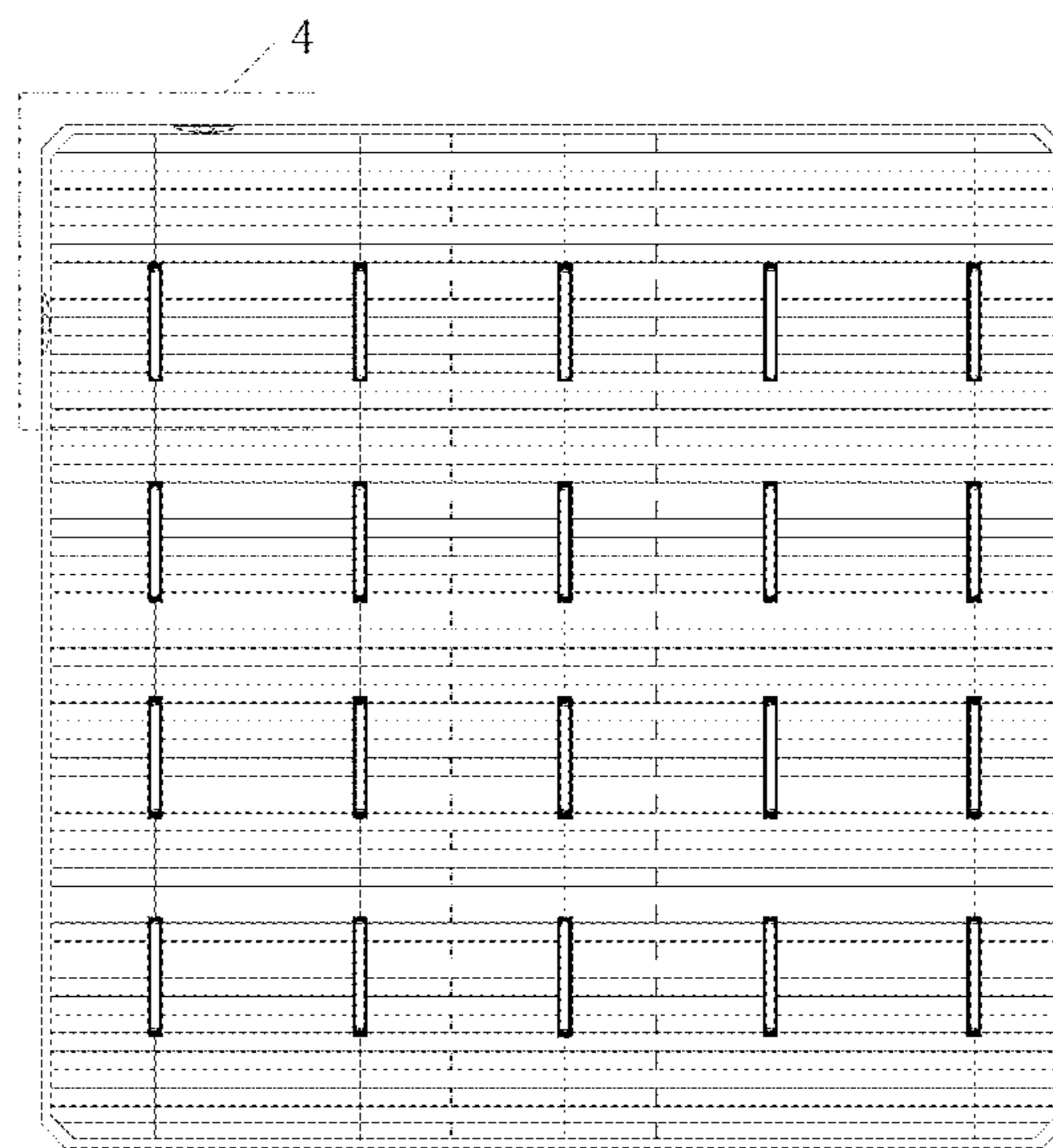
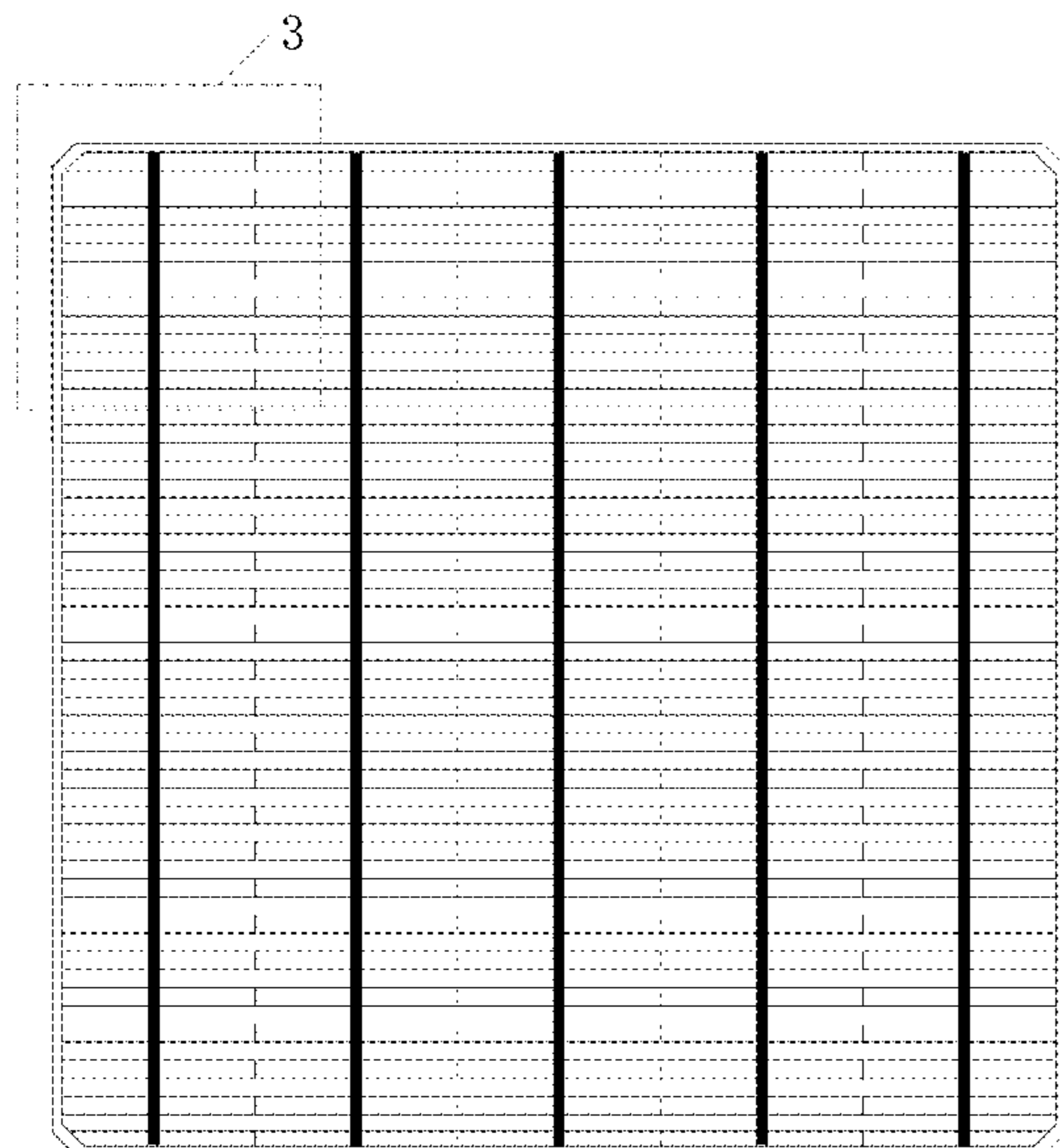
(51) **LOC (11) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/102**

(58) **Field of Classification Search**  
USPC ..... D13/102, 103, 104, 105, 106, 107, 108,  
D13/109, 118, 119, 120, 184, 199  
CPC ..... H01L 31/00; H01L 31/02; H01L 31/042;  
H01L 31/045; H01L 31/046; H01L  
31/048; H01L 31/05; H01L 31/052; H01L

FIG. 1 is a front elevational view of a first embodiment of  
a double-side solar cell showing our new design;  
FIG. 2 is a rear elevational view thereof;  
FIG. 3 is an enlarged view of portion 3 in FIG. 1;  
FIG. 4 is an enlarged view of portion 4 in FIG. 2;  
FIG. 5 is a front elevational view of a second embodiment  
of the double-side solar cell;  
FIG. 6 is a rear elevational view of FIG. 5;  
FIG. 7 is an enlarged view of portion 7 in FIG. 5; and,  
FIG. 8 is an enlarged view of portion 8 in FIG. 6.  
There is no substantial thickness of the claimed design and  
all elements of the claimed design are flat and coplanar.

**1 Claim, 4 Drawing Sheets**



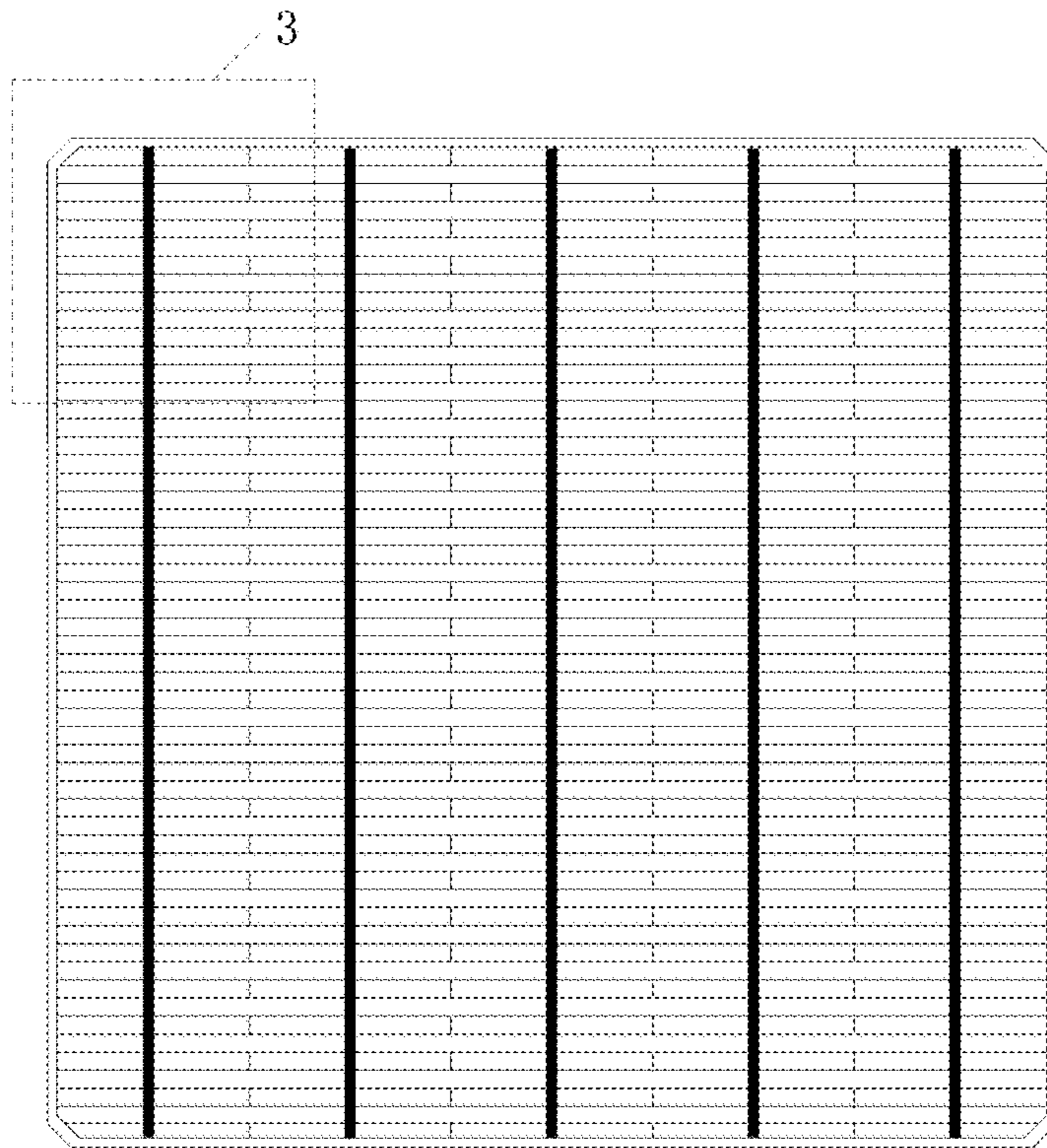


FIG. 1

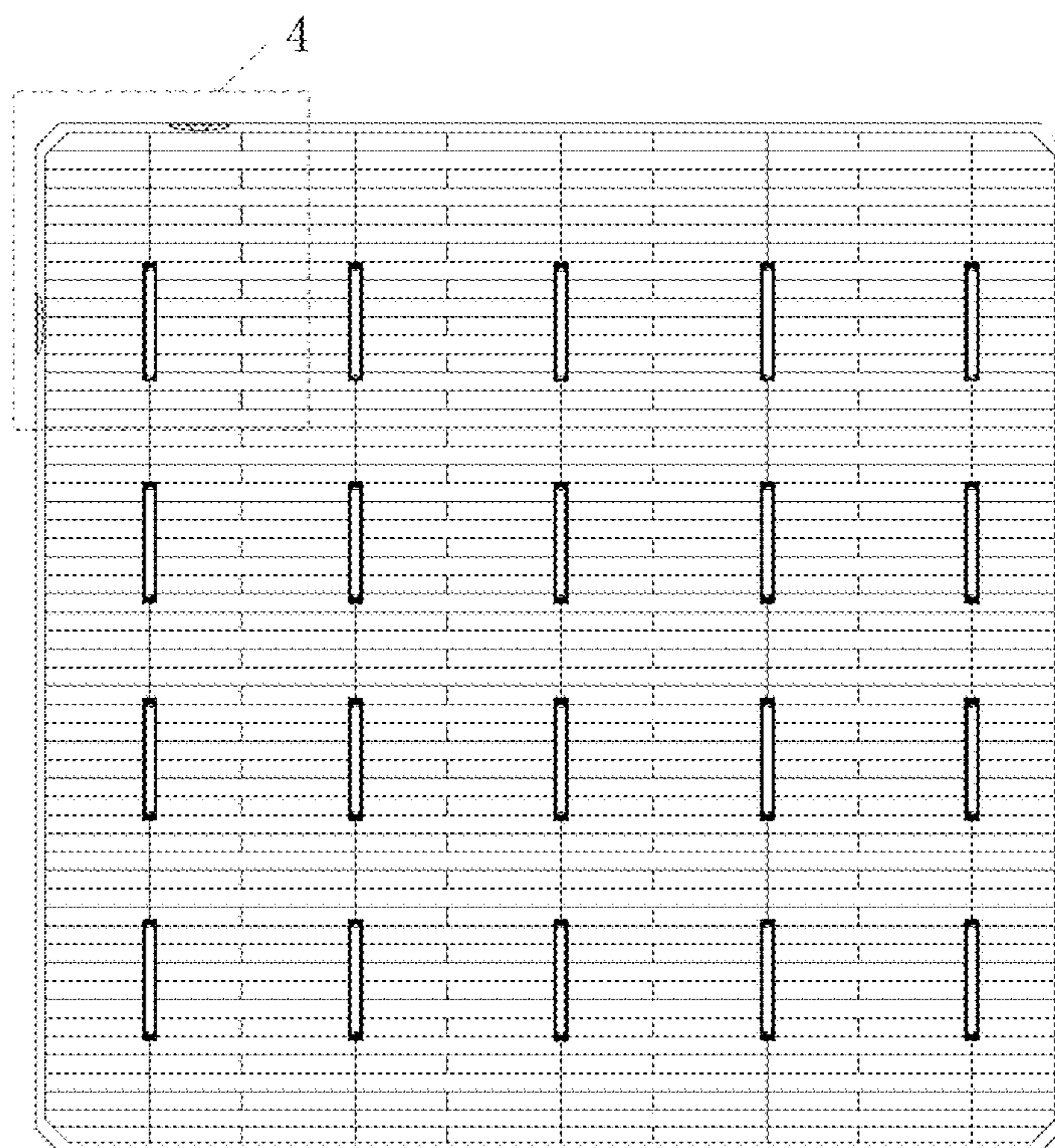


FIG. 2

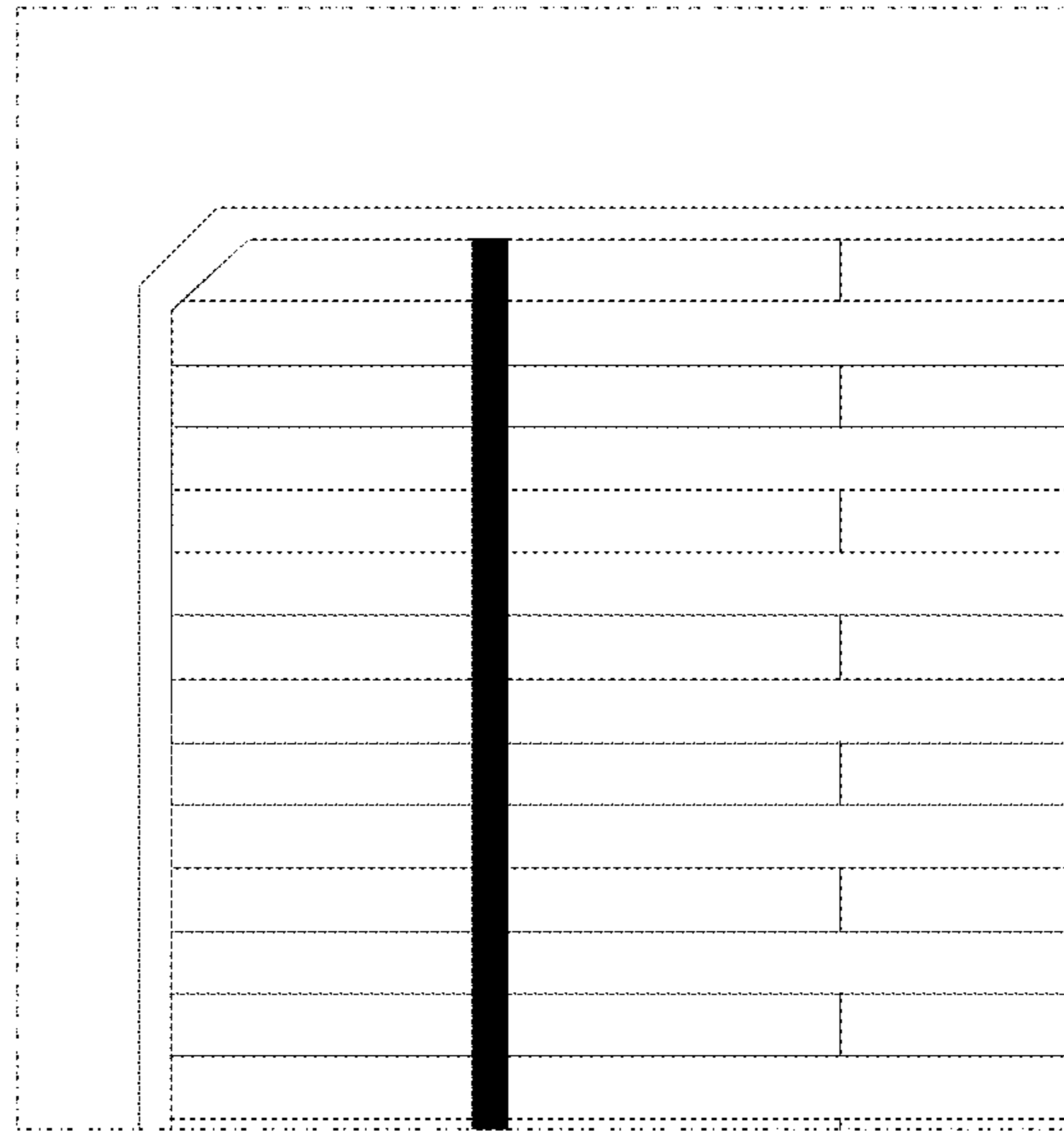


FIG. 3

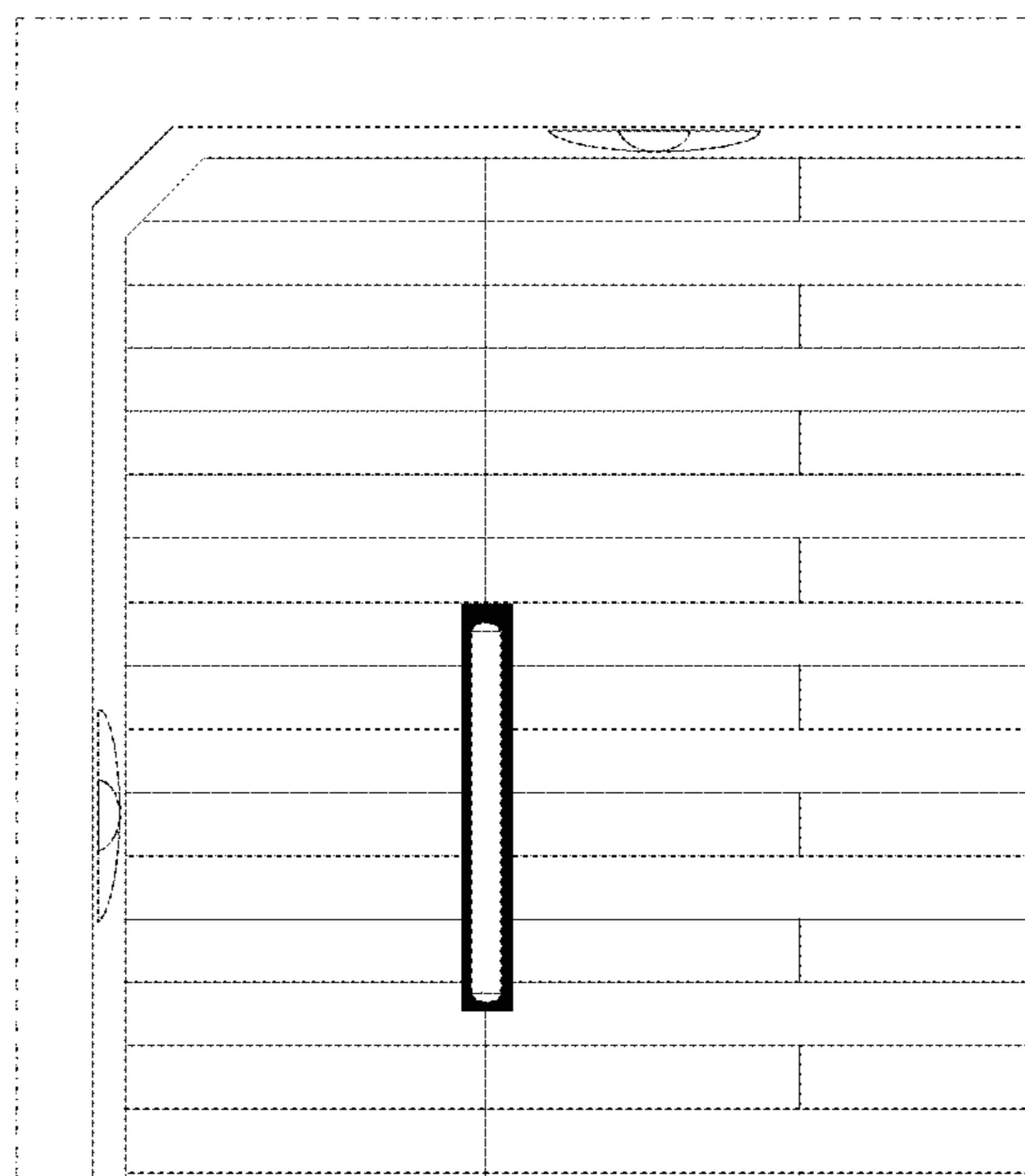


FIG. 4

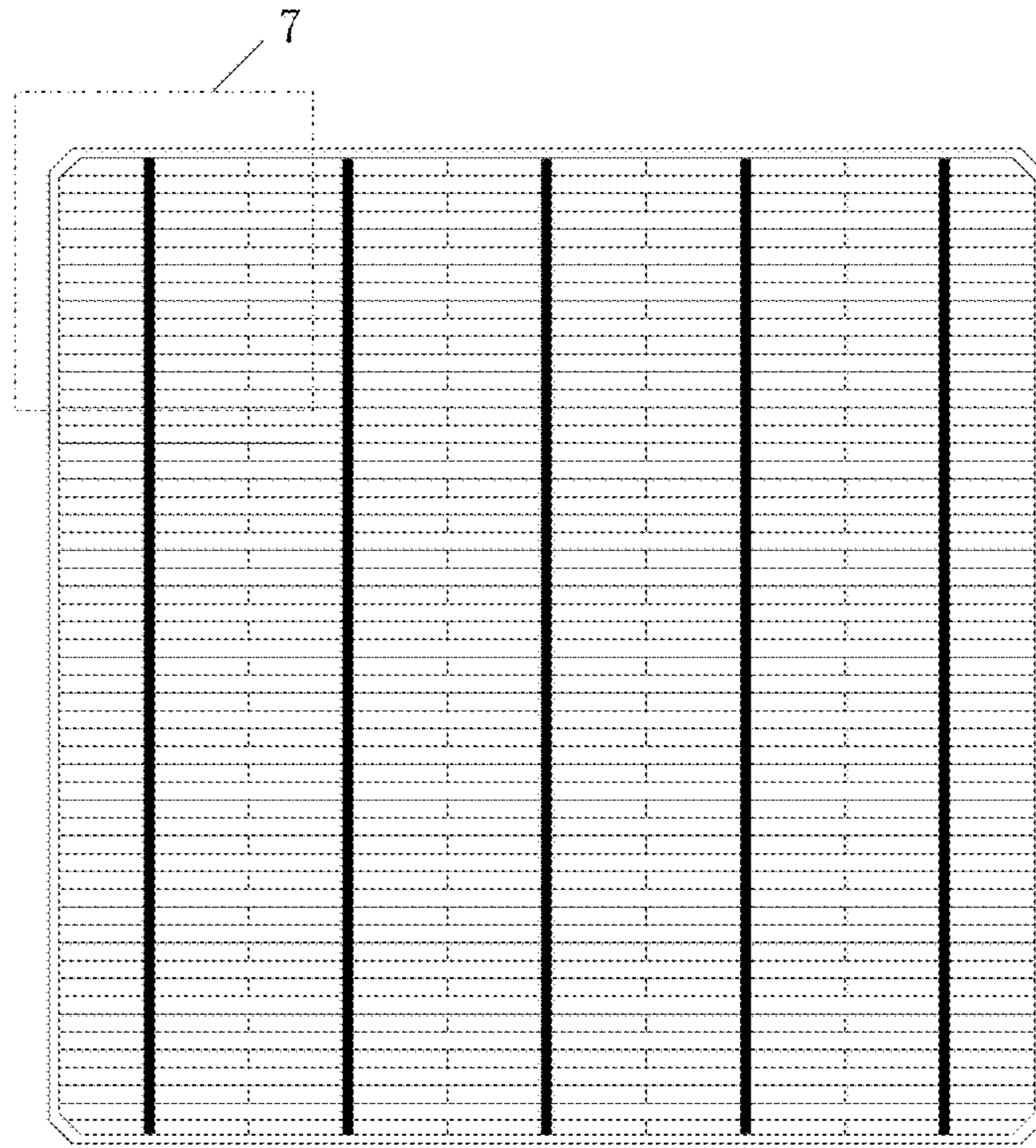


FIG. 5

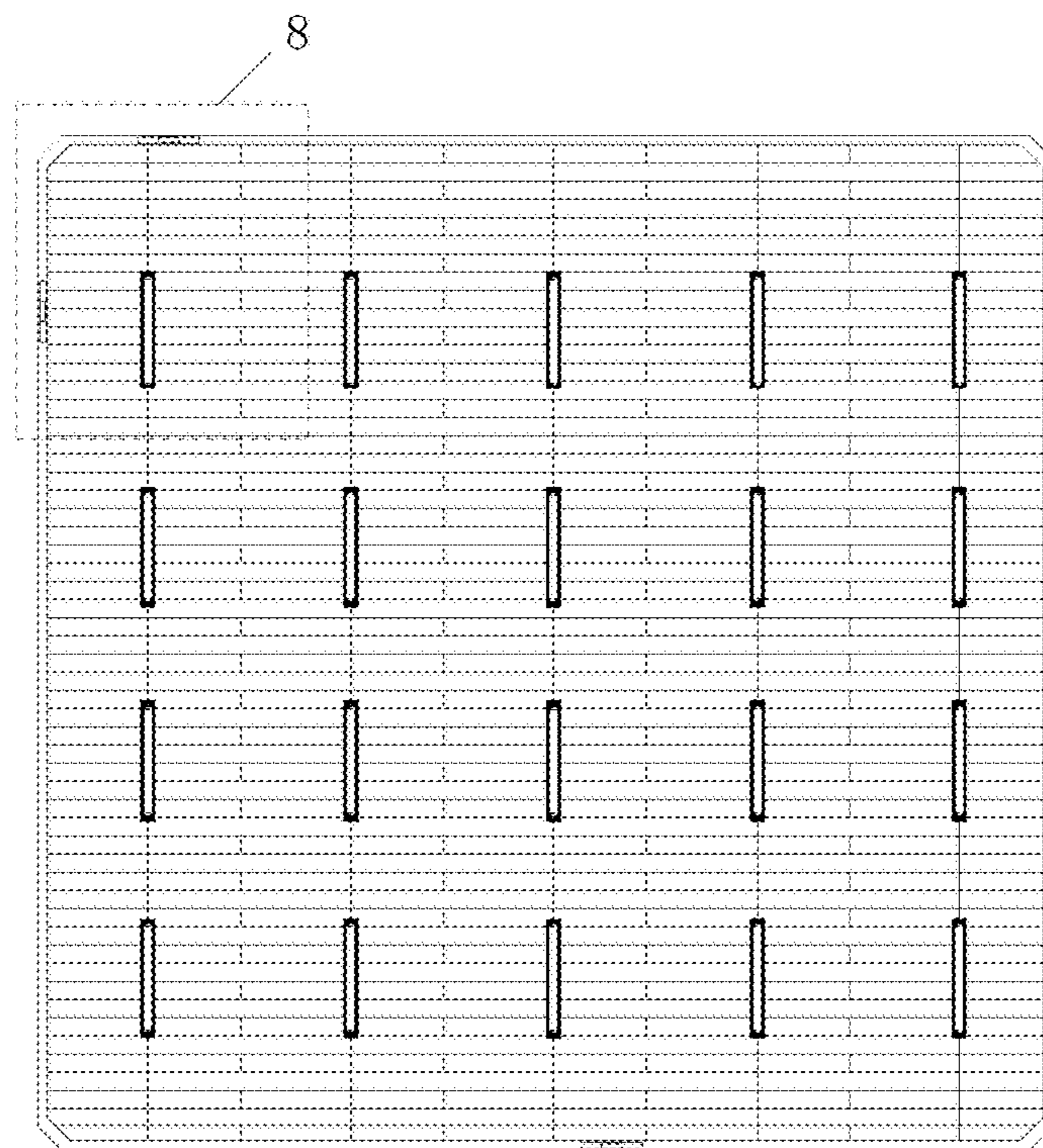


FIG. 6

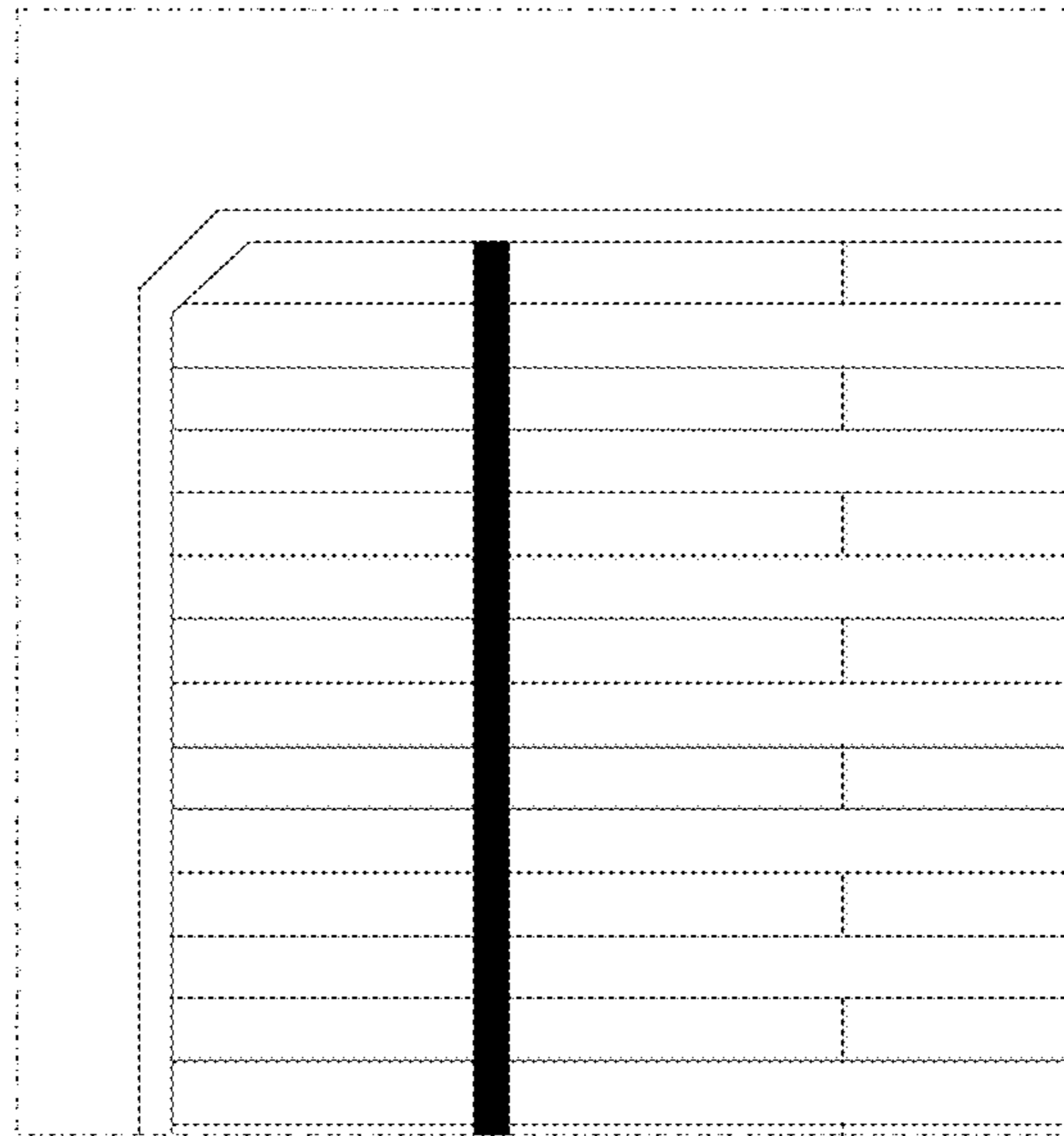


FIG. 7

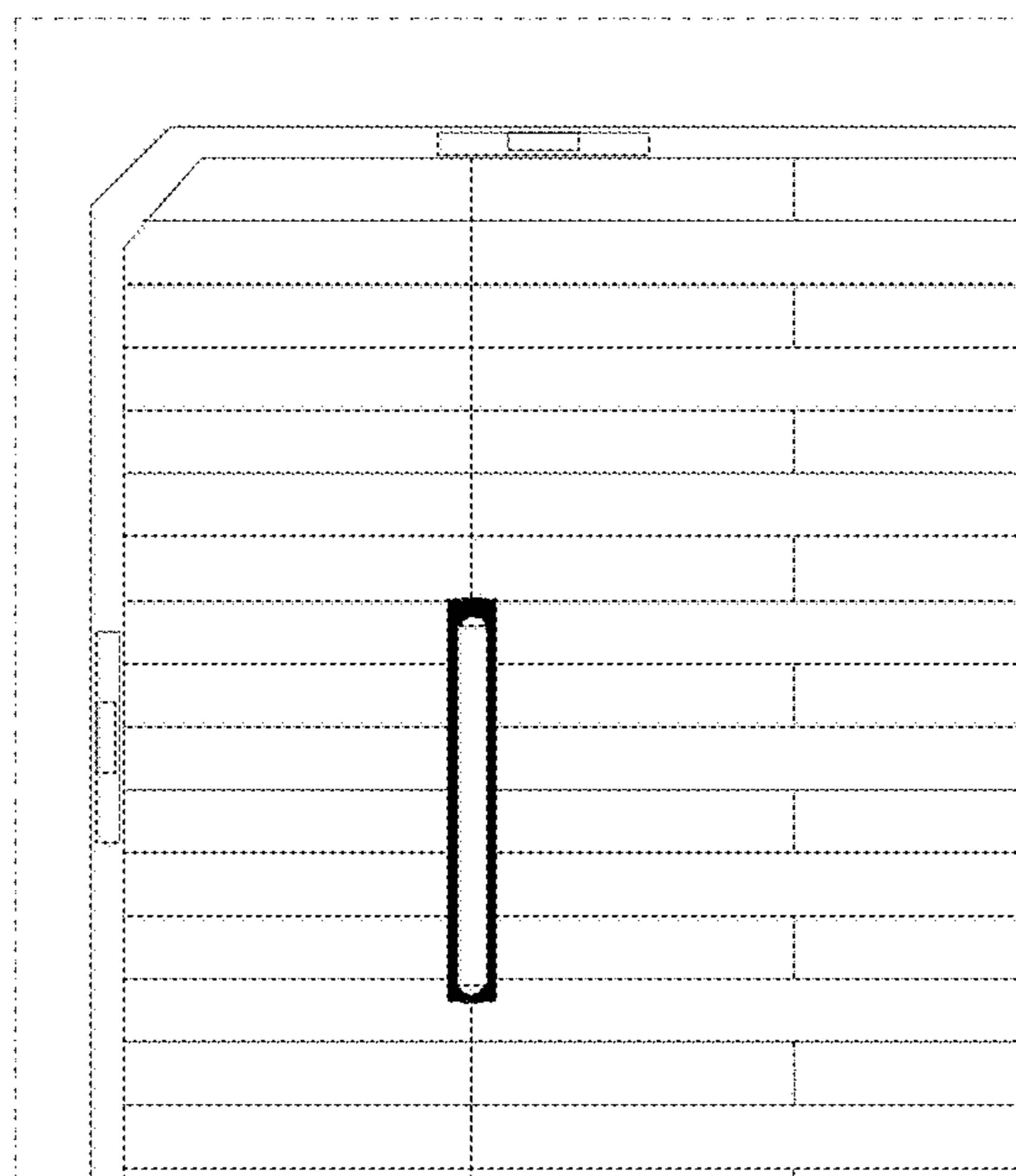


FIG. 8