



US00D944782S

(12) **United States Design Patent**  
**Ueda**

(10) **Patent No.:** **US D944,782 S**  
(45) **Date of Patent:** **\*\* Mar. 1, 2022**

(54) **WIRELESS TRANSMITTING AND RECEIVING MODULE**

(71) Applicant: **Murata Manufacturing Co., Ltd.**,  
Kyoto-fu (JP)

(72) Inventor: **Hideki Ueda**, Nagaokakyo (JP)

(73) Assignee: **MURATA MANUFACTURING CO., LTD.**,  
Kyoto-Fu (JP)

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

(21) Appl. No.: **29/721,606**

(22) Filed: **Jan. 22, 2020**

(30) **Foreign Application Priority Data**

Jul. 24, 2019 (JP) ..... 2019-016555

(51) **LOC (13) Cl.** ..... **14-03**

(52) **U.S. Cl.**  
USPC ..... **D14/240; D14/230**

(58) **Field of Classification Search**  
USPC .... D14/240, 242, 357, 358, 140-140.9, 155,  
D14/125, 137, 139, 243, 348, 349, 351,  
D14/354, 355, 230  
CPC ..... H04L 12/00; H03K 17/00; H04W 88/00;  
H04W 88/005; H04W 88/02; H04W  
88/08; H04W 88/085; H04W 88/10;  
H04W 88/12; H04W 88/14; H04B 1/38;  
H01Q 1/2283; H01Q 1/38; H01Q 21/30;  
H01Q 19/005; H01Q 9/0407; H01Q 9/30;  
H01Q 5/357

See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D315,738 S \* 3/1991 Takizawa ..... D14/233  
D467,910 S \* 12/2002 Sato ..... D14/235  
D470,482 S \* 2/2003 Ikeda ..... D14/230

D480,712 S \* 10/2003 Noro ..... D14/230  
D482,350 S \* 11/2003 Noro ..... D14/230  
D535,648 S \* 1/2007 Miura ..... D14/233  
D556,199 S \* 11/2007 Song ..... D14/357

(Continued)

*Primary Examiner* — Bridget L Eland

(74) *Attorney, Agent, or Firm* — Pearne & Gordon LLP

(57) **CLAIM**

The ornamental design for a wireless transmitting and receiving module, as shown and described.

**DESCRIPTION**

FIG. 1 is a front, top and left-side perspective view of a wireless transmitting and receiving module showing my new design;

FIG. 2 is a bottom perspective view thereof;

FIG. 3 is an another bottom perspective view thereof;

FIG. 4 is a front elevational view thereof;

FIG. 5 is a rear elevational view thereof;

FIG. 6 is a left-side elevational view thereof;

FIG. 7 is a right-side elevational view thereof;

FIG. 8 is a top plan view thereof;

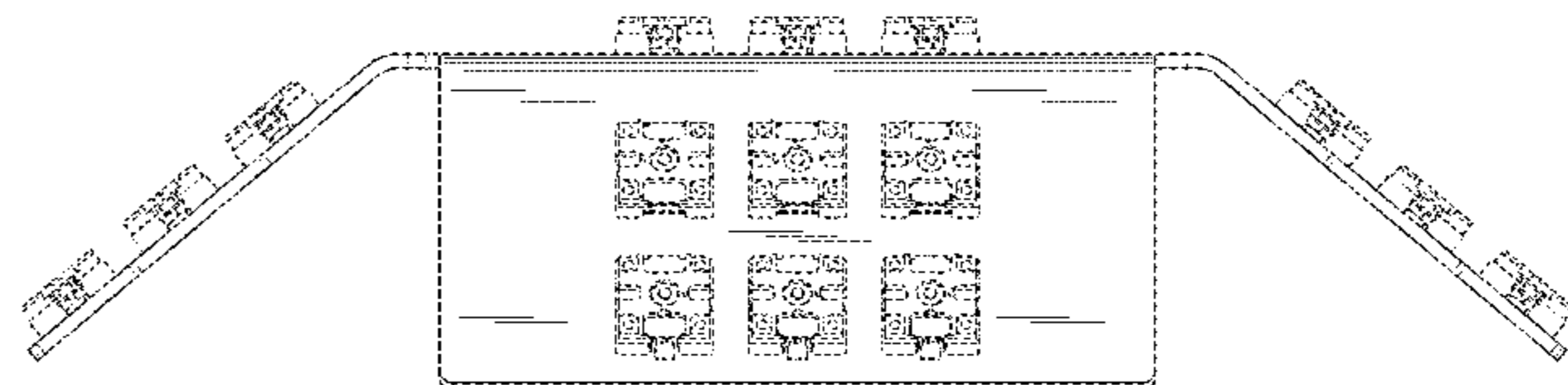
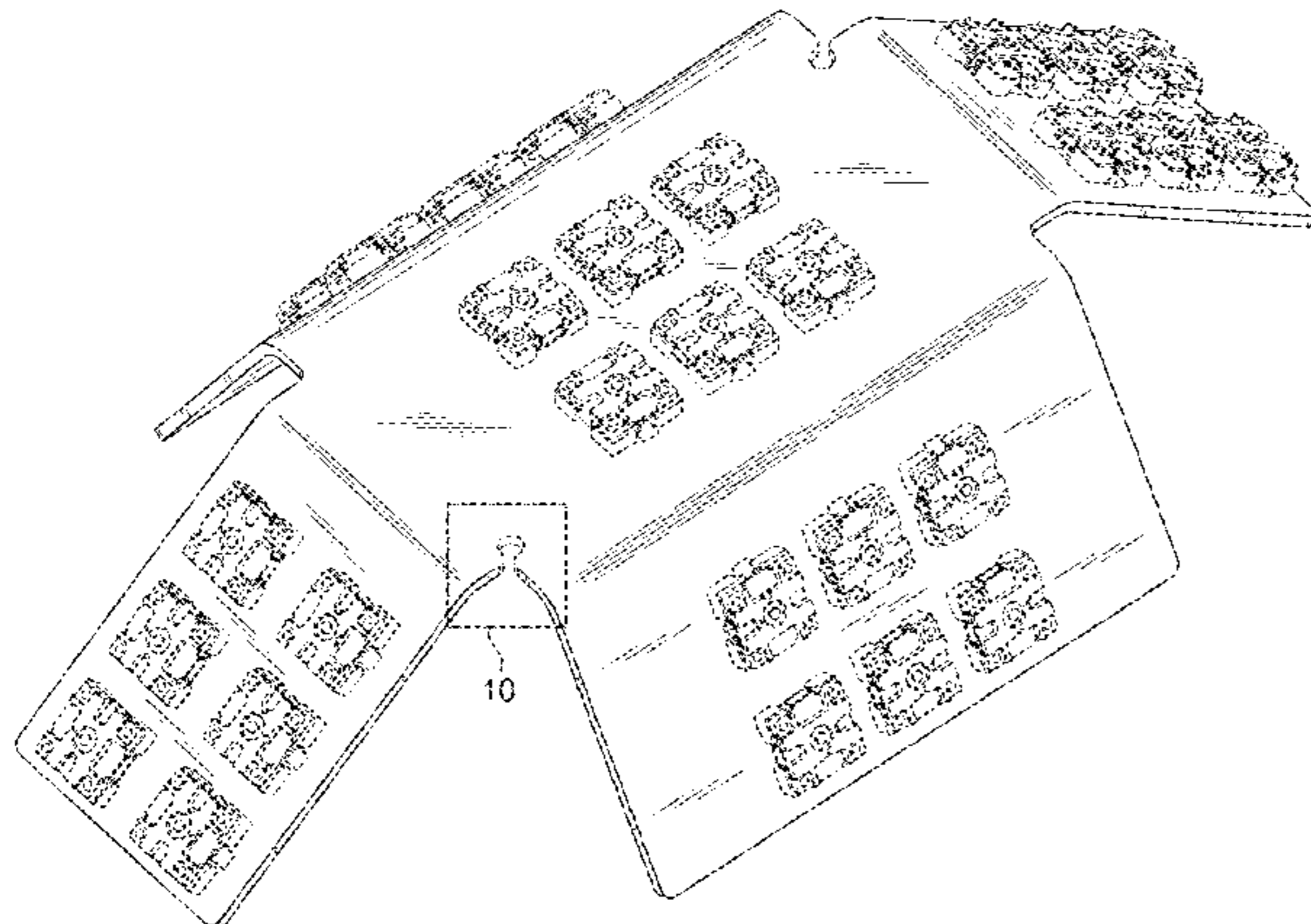
FIG. 9 is a bottom plan view thereof;

FIG. 10 is an enlarged view of the area 10 indicated by the two dot-dash broken lines in FIG. 1; and,

FIG. 11 is an enlarged view of area 11 indicated by the two dot-dash broken lines in FIG. 2.

The broken lines depict portions of the wireless transmitting and receiving module that are for environmental purposes only and form no part of the claimed design. The dot-dash broken lines define the boundary of the claimed design and form no part of the claimed design. The rectangle indicated by the two dot-dash broken lines shown in FIG. 1 and FIG. 2 illustrates the boundary of enlarged area of the design. The “10”, “11” indicia and splined curve indicated by the two dot-dash broken lines in FIG. 1 and FIG. 2 identify the enlarged area. None of the broken lines form any part of the claimed design.

**1 Claim, 9 Drawing Sheets**



(56)

**References Cited**

## U.S. PATENT DOCUMENTS

|              |      |         |          |       |                         |
|--------------|------|---------|----------|-------|-------------------------|
| D730,311     | S *  | 5/2015  | Reimer   | ..... | D14/155                 |
| D730,351     | S *  | 5/2015  | Lee      | ..... | D14/358                 |
| D734,290     | S *  | 7/2015  | Reimer   | ..... | D14/155                 |
| D738,347     | S *  | 9/2015  | Reimer   | ..... | D14/155                 |
| D746,252     | S *  | 12/2015 | Reimer   | ..... | D14/155                 |
| D755,163     | S *  | 5/2016  | Yokoyama | ..... | D14/230                 |
| D757,693     | S *  | 5/2016  | Sudo     | ..... | D14/230                 |
| D814,449     | S *  | 4/2018  | Kwak     | ..... | D14/240                 |
| D815,075     | S *  | 4/2018  | Kwak     | ..... | D14/240                 |
| D829,768     | S *  | 10/2018 | Lippitt  | ..... | D14/496                 |
| D830,348     | S *  | 10/2018 | Sudo     | ..... | D14/230                 |
| D831,009     | S *  | 10/2018 | Horn     | ..... | D14/230                 |
| D883,962     | S *  | 5/2020  | Keyrouz  | ..... | D14/230                 |
| D892,774     | S *  | 8/2020  | Sudo     | ..... | D14/230                 |
| 2014/0293531 | A1 * | 10/2014 | Brooks   | ..... | G06F 1/20<br>361/679.47 |
| 2019/0089419 | A1 * | 3/2019  | Kim      | ..... | H01Q 1/325              |
| 2019/0280386 | A1 * | 9/2019  | Kowaita  | ..... | H01Q 9/0407             |
| 2020/0243957 | A1   | 7/2020  | Ueda     | ..... |                         |
| 2020/0295436 | A1 * | 9/2020  | Ueda     | ..... | H01Q 1/38               |
| 2020/0295437 | A1 * | 9/2020  | Ueda     | ..... | H01Q 9/0407             |
| 2021/0057806 | A1 * | 2/2021  | Katsura  | ..... | H01Q 1/3275             |

\* cited by examiner



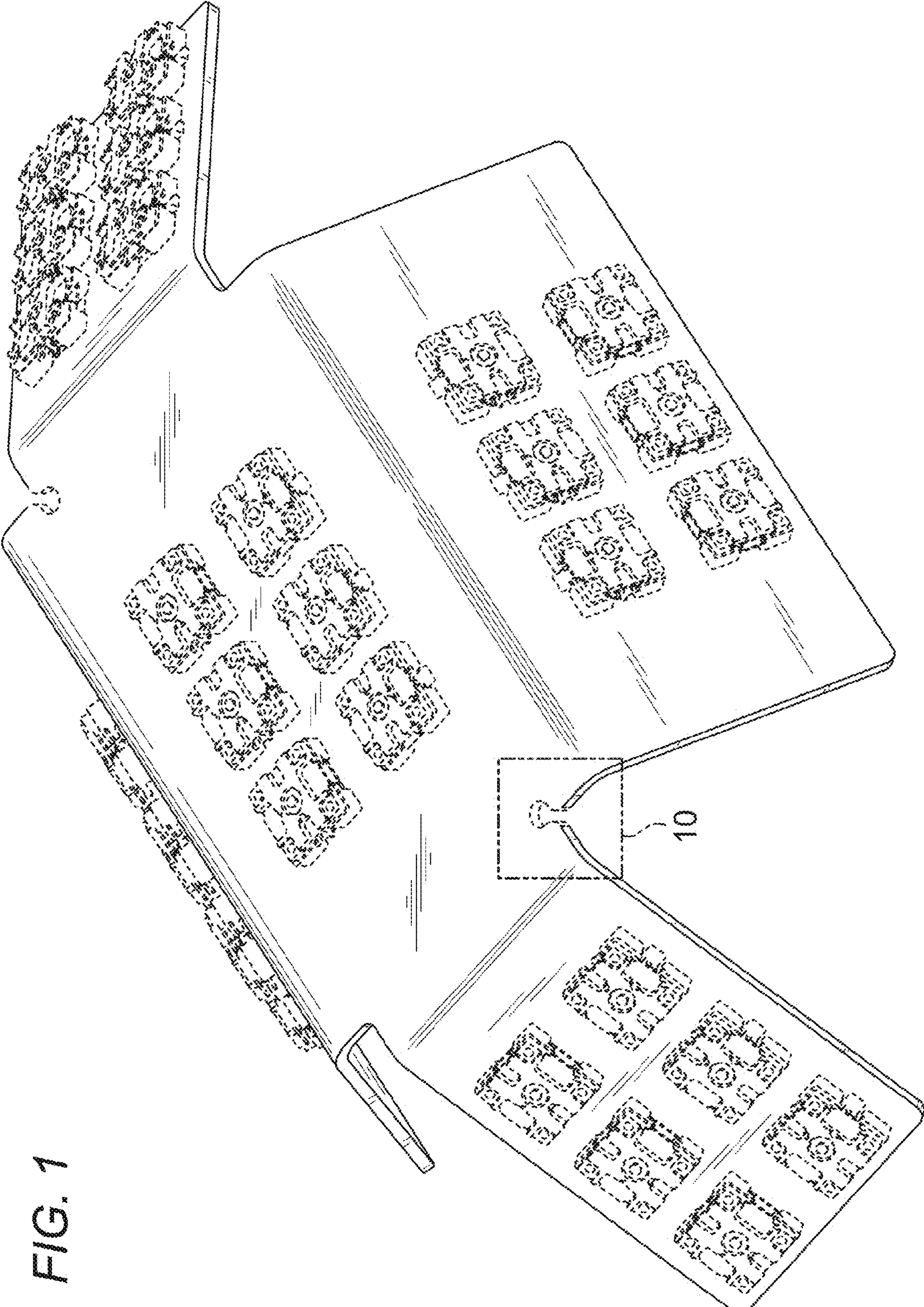


FIG. 1

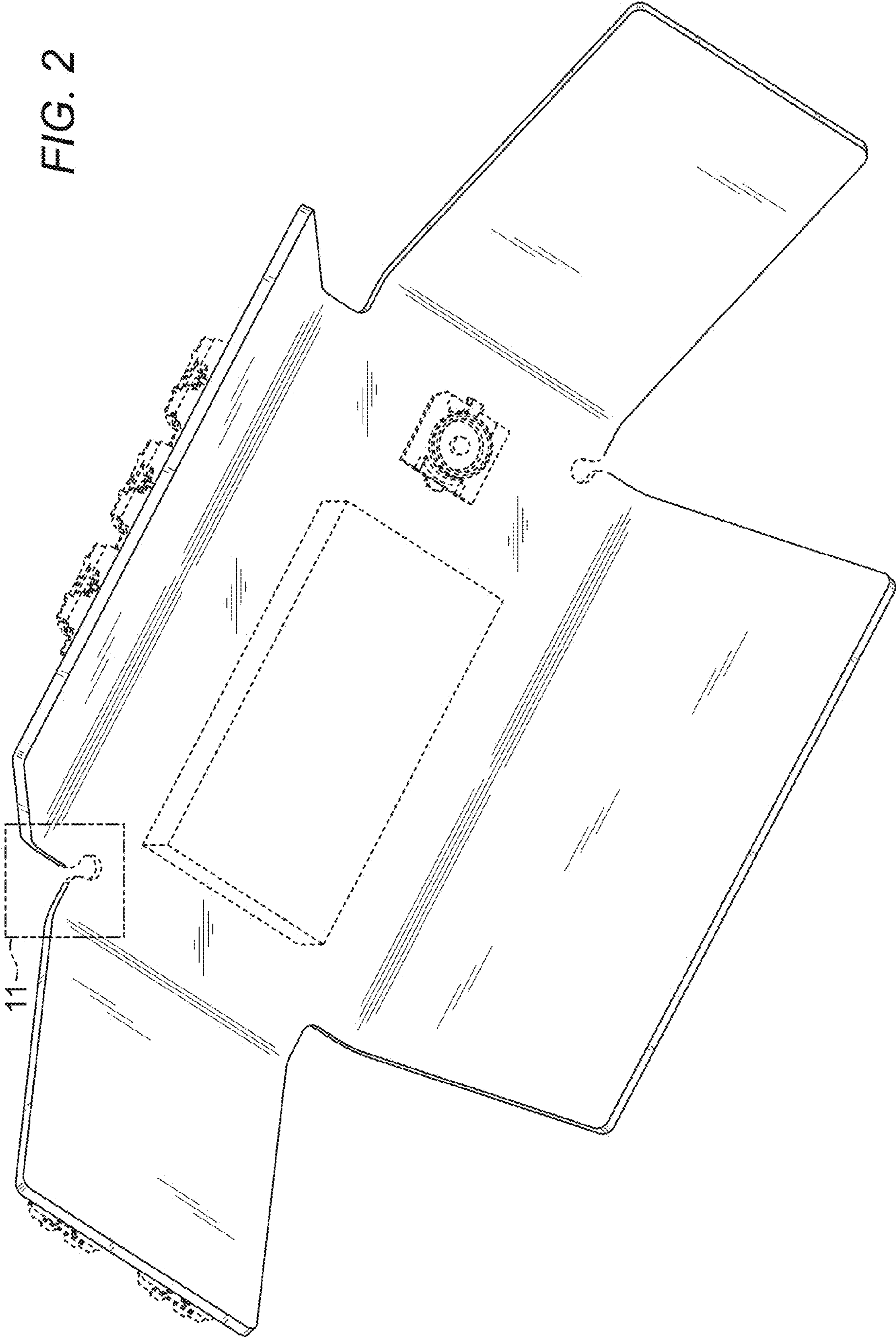


FIG. 3

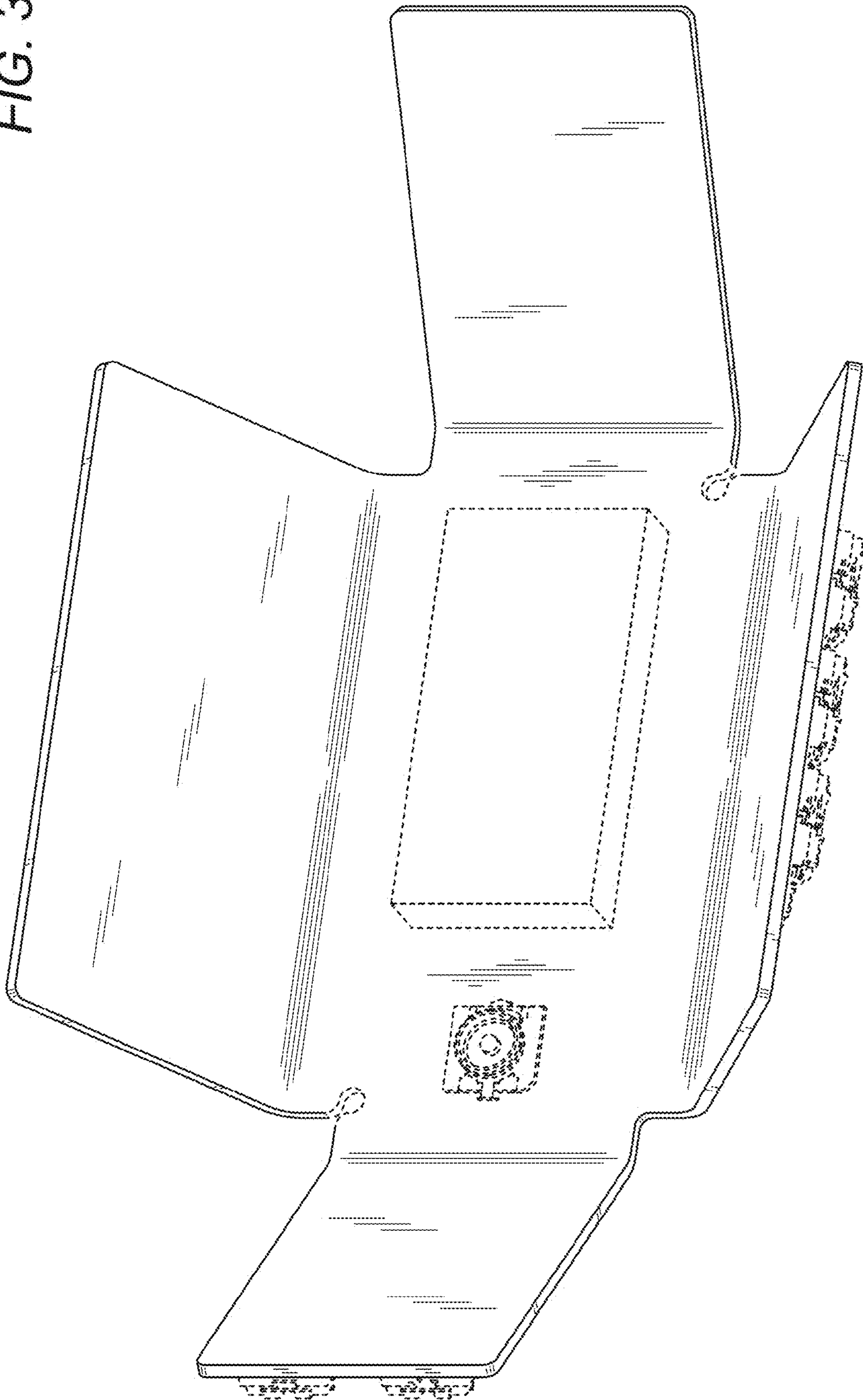




FIG. 4

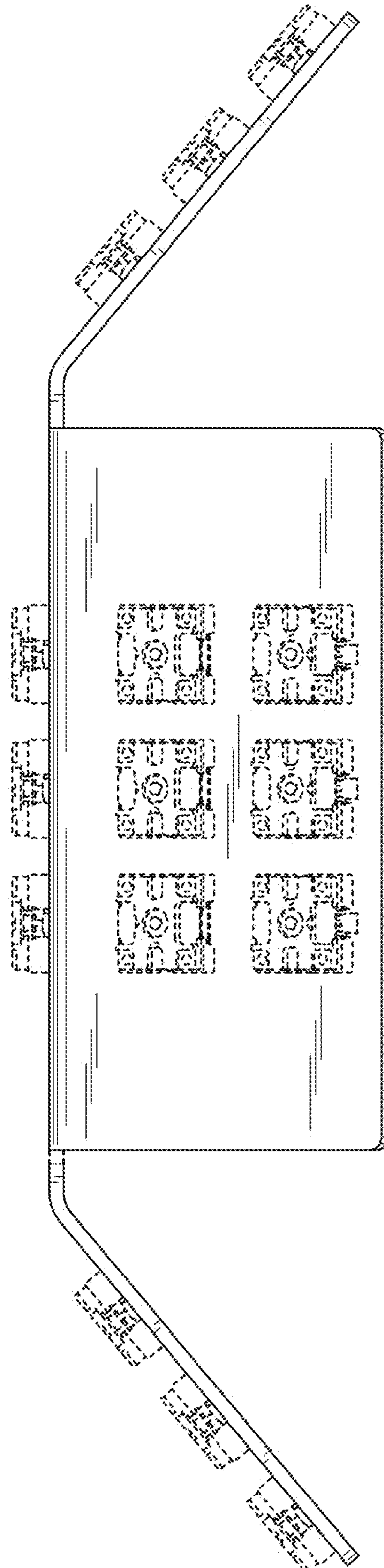


FIG. 5

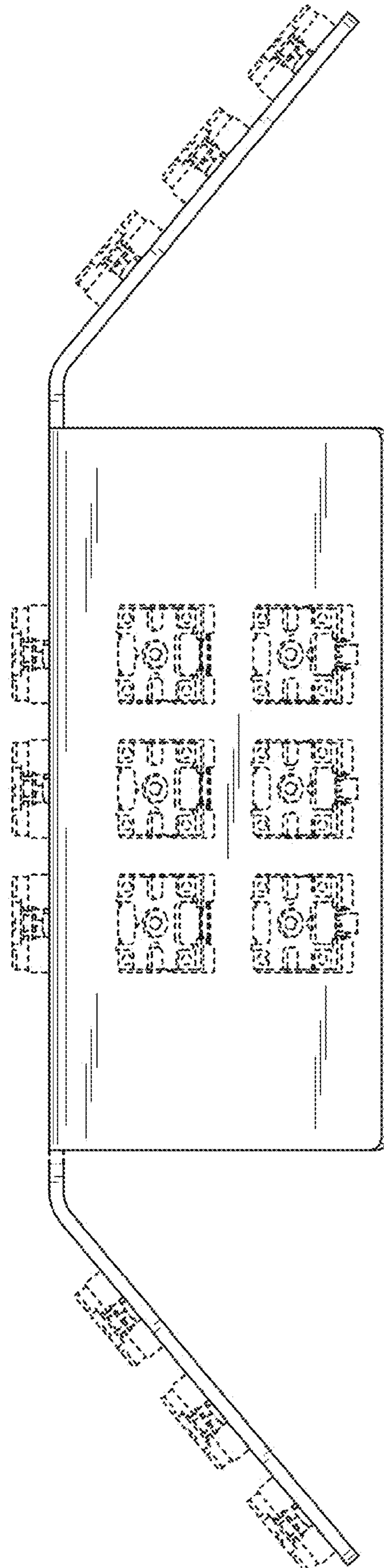


FIG. 6

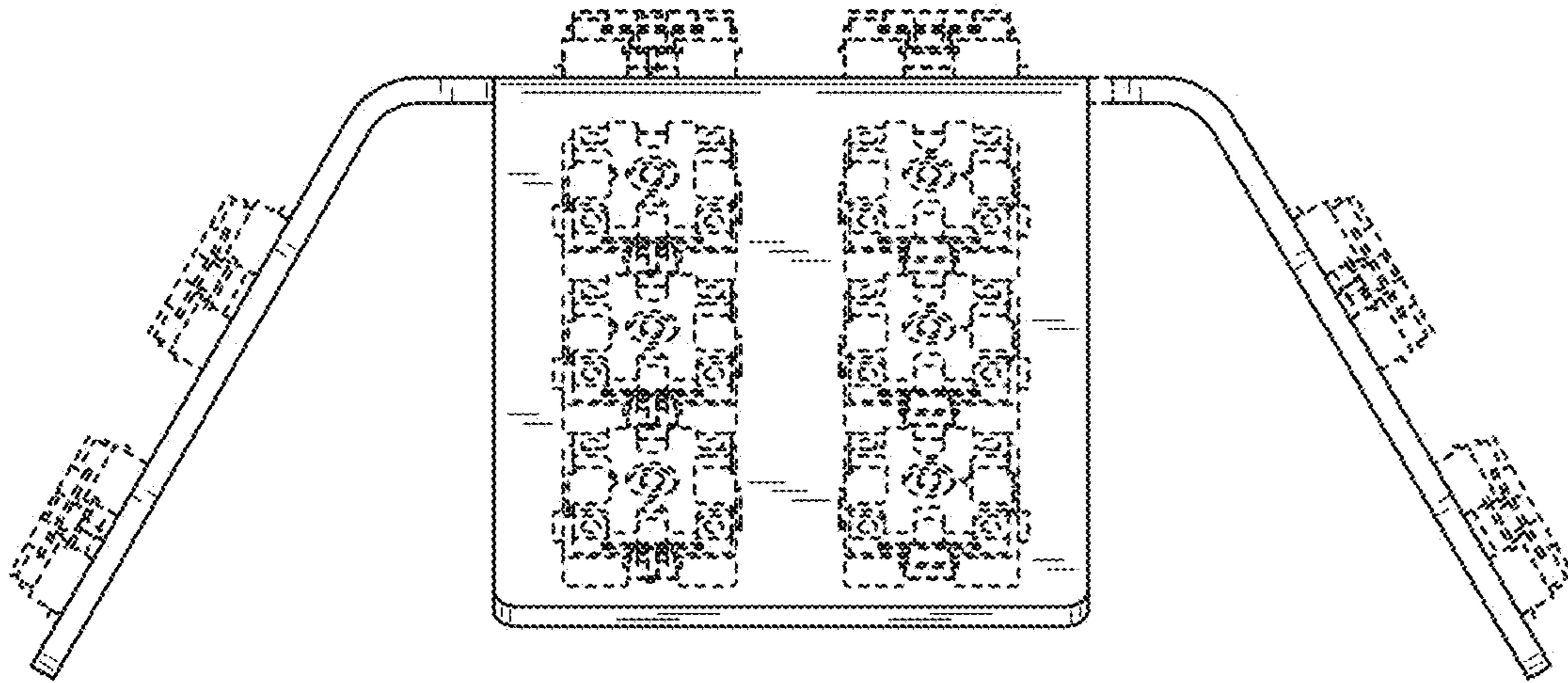


FIG. 7

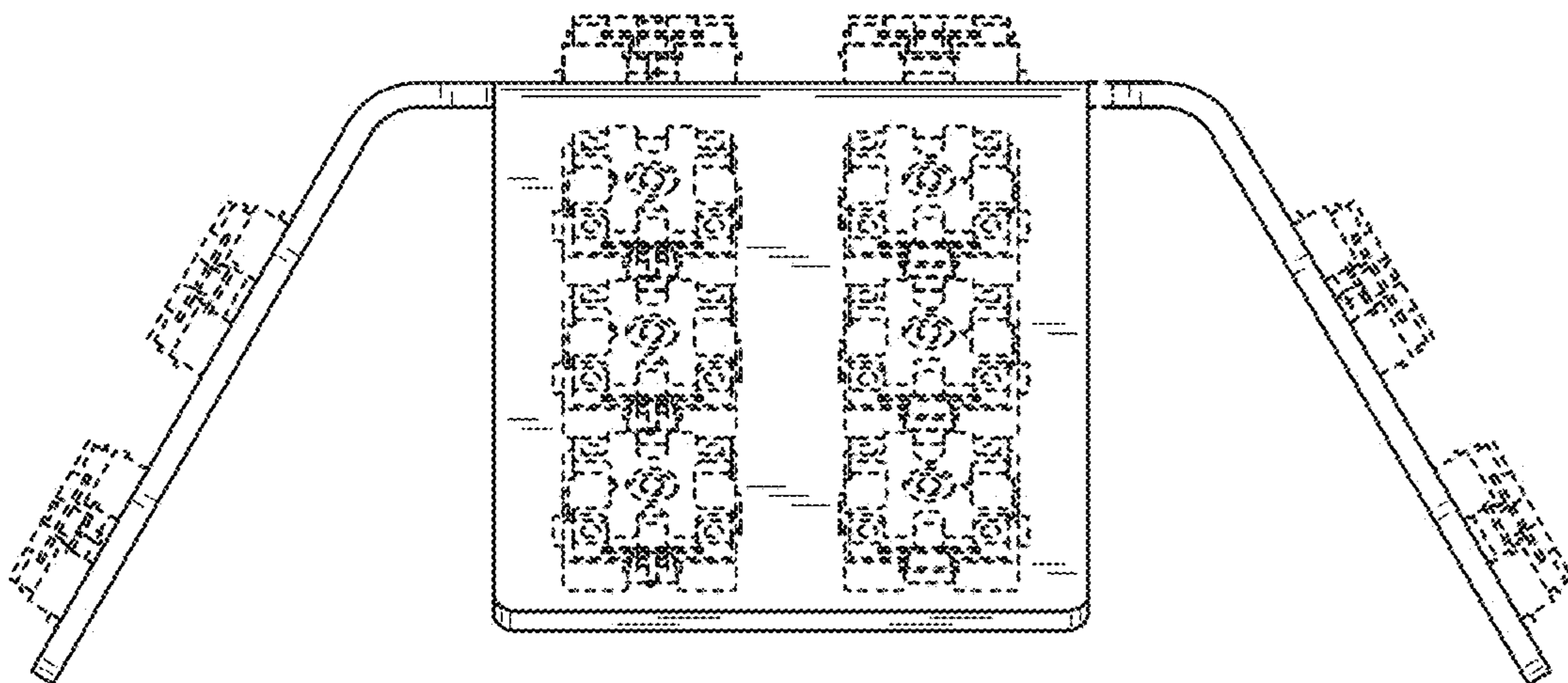




FIG. 8

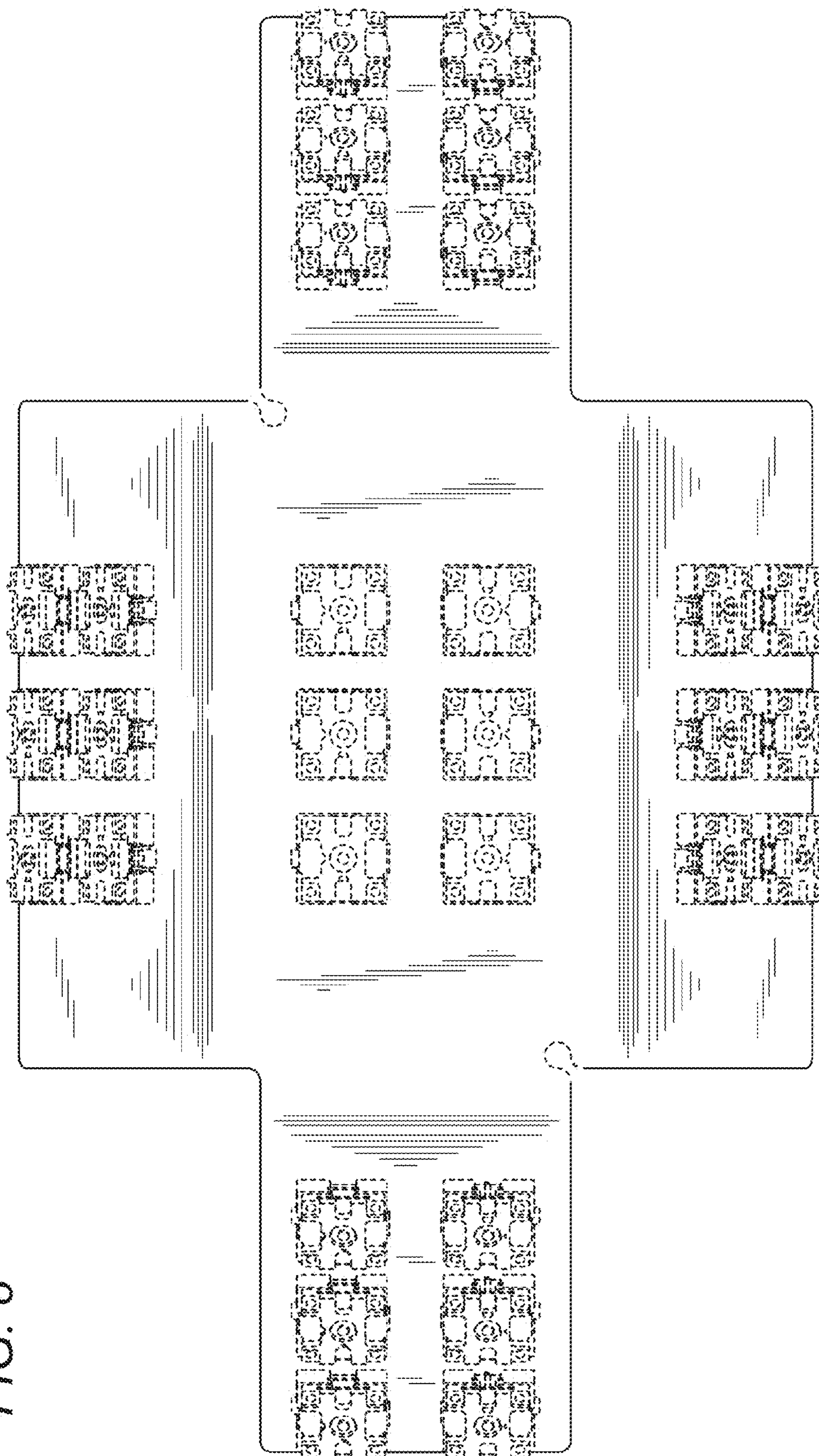
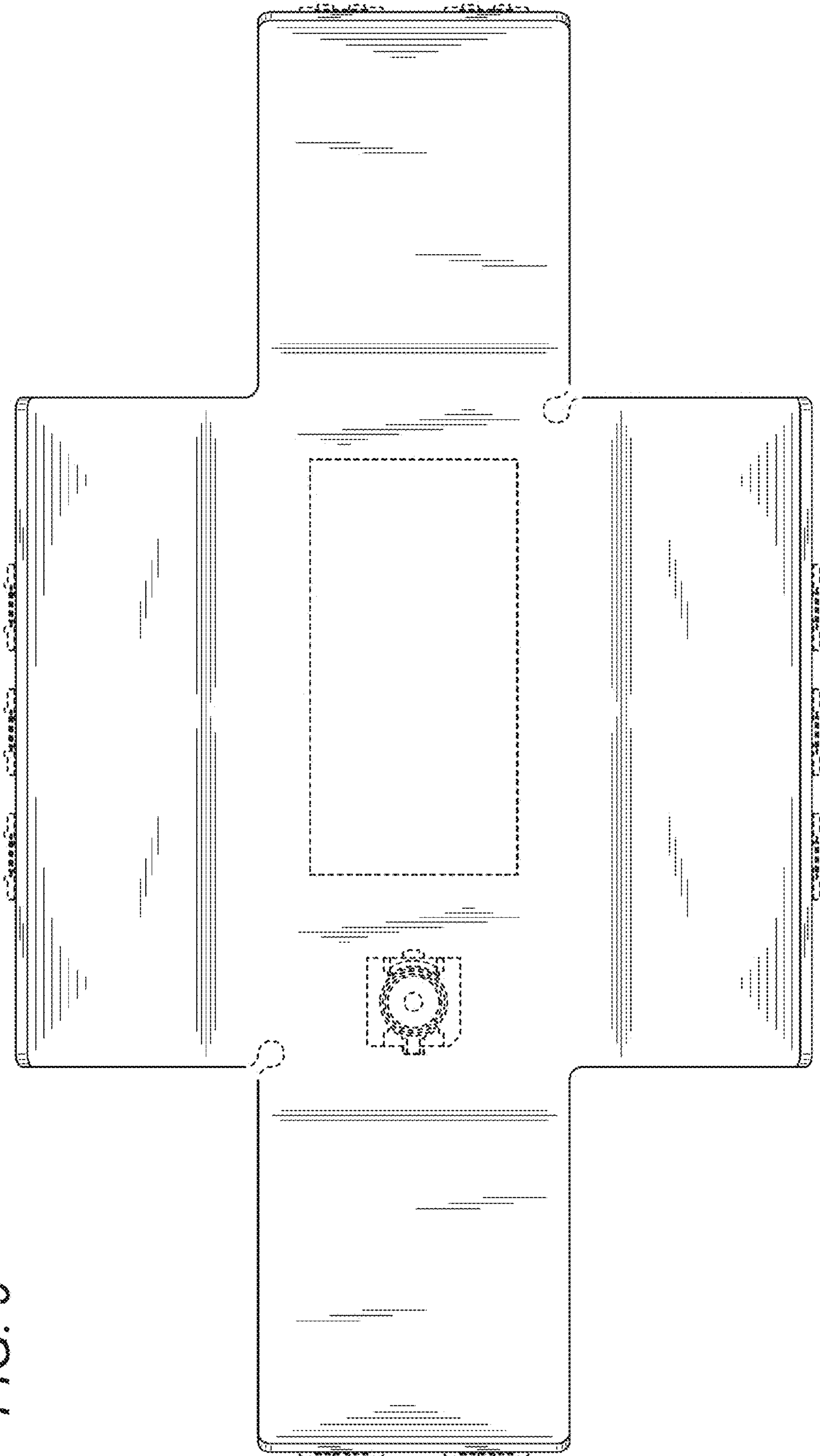
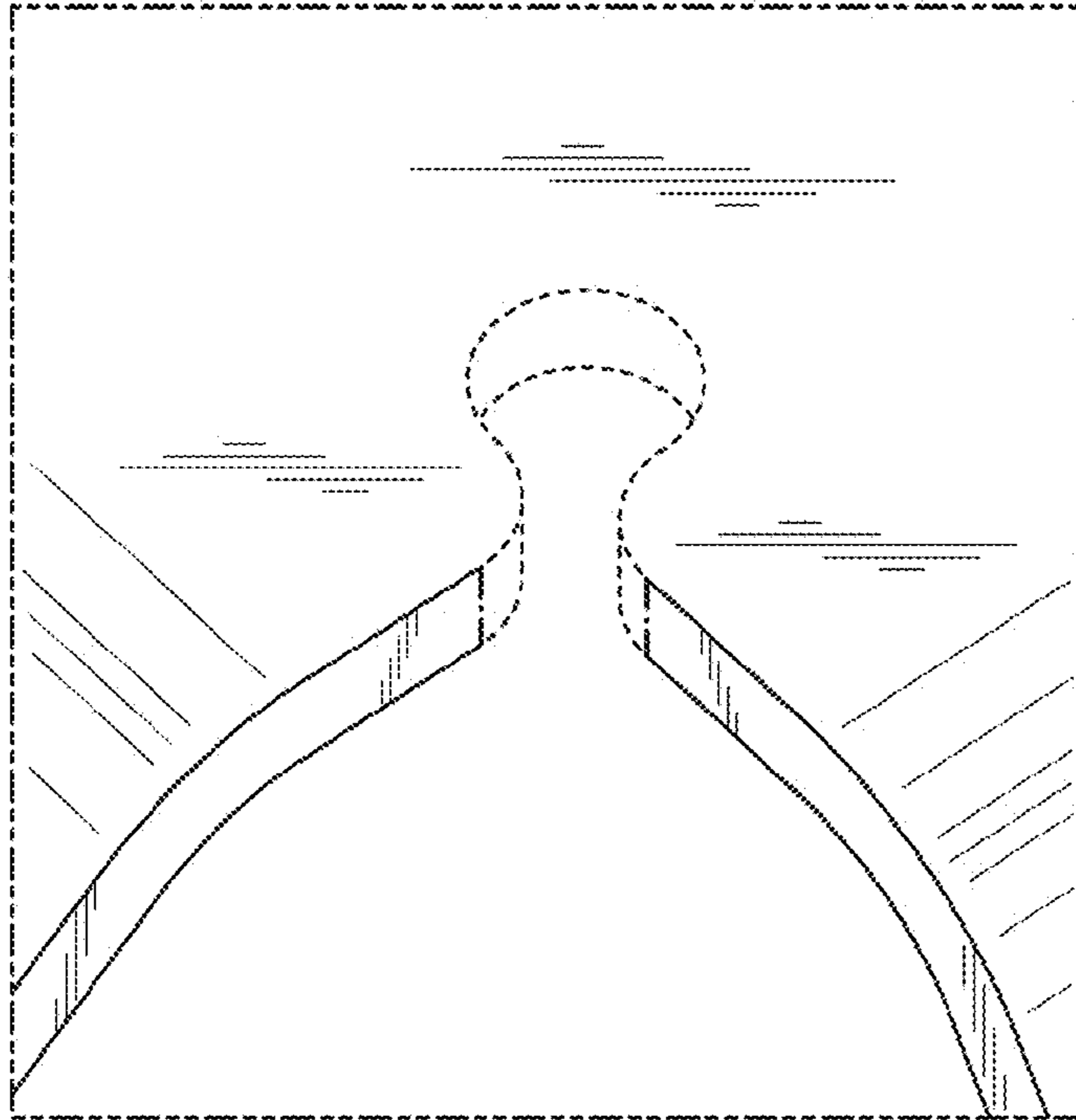


FIG. 9



*FIG. 10*



*FIG. 11*

