



US00D884134S

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

(10) **Patent No.:** **US D884,134 S**  
(45) **Date of Patent:** **\*\* May 12, 2020**

(54) **AIR PURIFIER**

(57) **CLAIM**

(71) Applicant: **Samsung Electronics Co., Ltd.**,  
Suwon-si (KR)

We claim the ornamental design for an air purifier, as shown and described.

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**Kang-Doo Kim**, Seoul (KR);  
**Dong-Hyuk Uim**, Seoul (KR)

**DESCRIPTION**

(73) Assignee: **Samsung Electronics Co., Ltd.**,  
Suwon-si (KR)

FIG. 1 is a front perspective view of an air purifier showing our new design according to our first embodiment;

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

FIG. 2 is a front view thereof;

(21) Appl. No.: **29/655,386**

FIG. 3 is a rear view thereof;

(22) Filed: **Jul. 3, 2018**

FIG. 4 is a left-side view thereof;

(30) **Foreign Application Priority Data**

FIG. 5 is a right-side view thereof;

Jan. 4, 2018 (KR) ..... 30-2018-0000753

FIG. 6 is a top view thereof;

Jan. 4, 2018 (KR) ..... 30-2018-0000754

FIG. 7 is a bottom view thereof;

(51) **LOC (12) Cl.** ..... **23-04**

FIG. 8 is an enlarged view of the encircled portion in FIG. 1;

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

FIG. 9 is an enlarged view of the encircled portion in FIG. 4;

USPC ..... **D23/364**

FIG. 10 is an enlarged view of the encircled portion in FIG. 4;

(58) **Field of Classification Search**

USPC ..... D23/355–366, 352, 369, 332, 333, 335,  
D23/336, 342, 351; 422/120, 122;

FIG. 11 is another perspective view of the air purifier shown in an alternate position;

(Continued)

FIG. 12 is a front perspective view of an air purifier showing our new design according to our second embodiment;

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

FIG. 13 is a front view thereof;

6,321,034 B2 \* 11/2001 Jones-Lawlor ..... F04D 25/105  
392/367

FIG. 14 is a rear view thereof;

D733,273 S \* 6/2015 Jeon ..... D23/333  
(Continued)

FIG. 15 is a left-side view thereof;

**FOREIGN PATENT DOCUMENTS**

EM 002440313-0002 4/2014  
EM 003009539-0015 3/2016

FIG. 16 is a right-side view thereof;

(Continued)

FIG. 17 is a top view thereof;

*Primary Examiner* — David G Muller

FIG. 18 is a bottom view thereof;

(74) *Attorney, Agent, or Firm* — NSIP Law

FIG. 19 is an enlarged view of the encircled portion in FIG. 12;

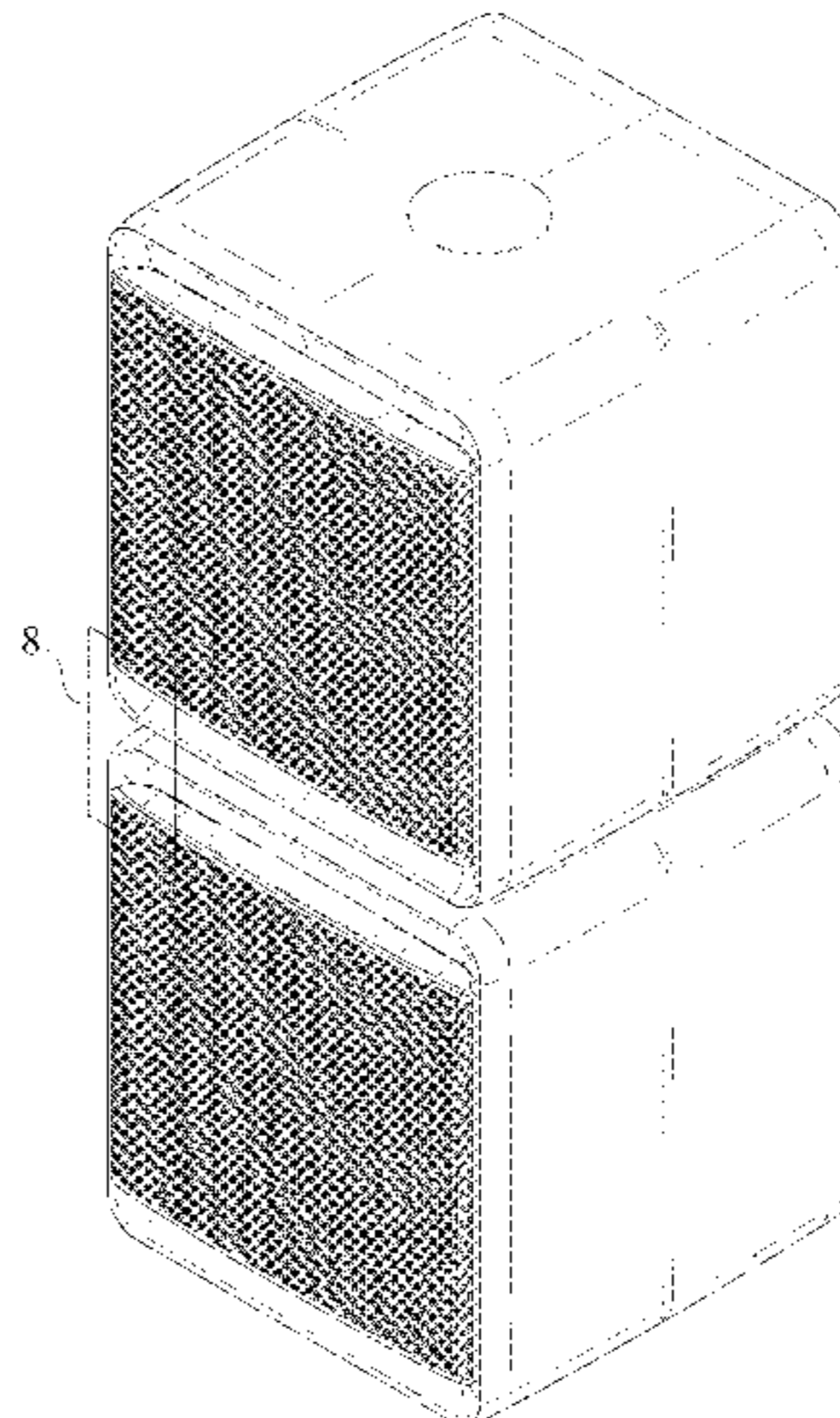
FIG. 20 is an enlarged view of the encircled portion in FIG. 15;

FIG. 21 is an enlarged view of the encircled portion in FIG. 15; and,

FIG. 22 is another perspective view of the air purifier shown in an alternate position.

The evenly spaced broken lines in the figures depict portions of the air purifier which form no part of the claimed design.

(Continued)



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The uneven dot-dash broken line encircling portions of the claimed design that are illustrated in enlargements form no part of the claimed design.

## 1 Claim, 22 Drawing Sheets

### (58) Field of Classification Search

USPC ..... 55/356, 473, 504; 96/971; 261/DIG. 17, 261/DIG. 65, DIG. 88, DIG. 31

CPC .. A61L 9/16; A61L 9/22; B01D 47/00; B01D 47/027; B01D 2221/02; B01D 2259/4508; B03C 3/155; B03C 3/368; F24F 3/16; F24F 13/20; F24F 13/28

See application file for complete search history.

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D848,593 S \* 5/2019 Exley ..... D23/351  
D849,220 S \* 5/2019 Fang ..... D23/364

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WO DM 091 010 5/2016

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FIG. 1

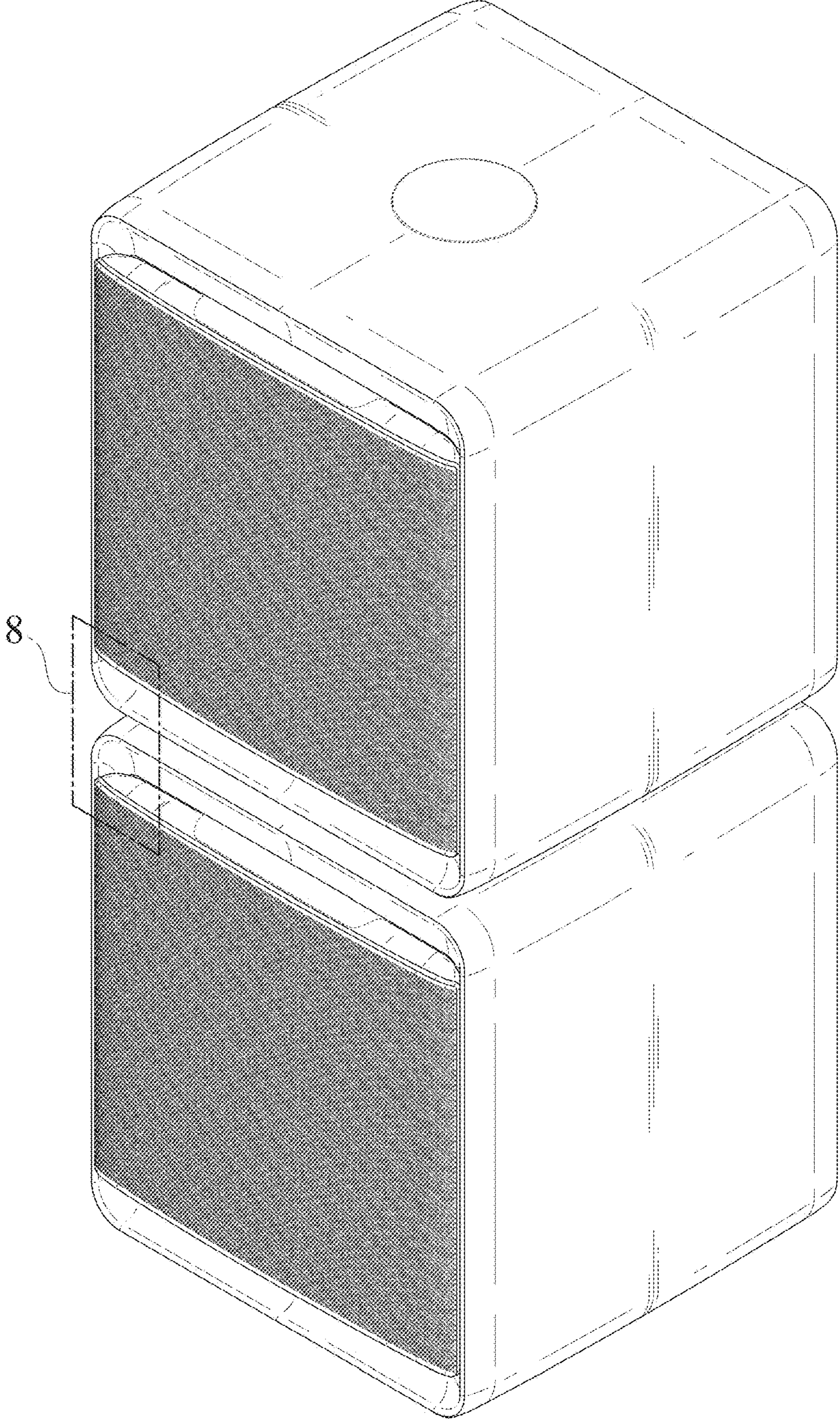


FIG. 2

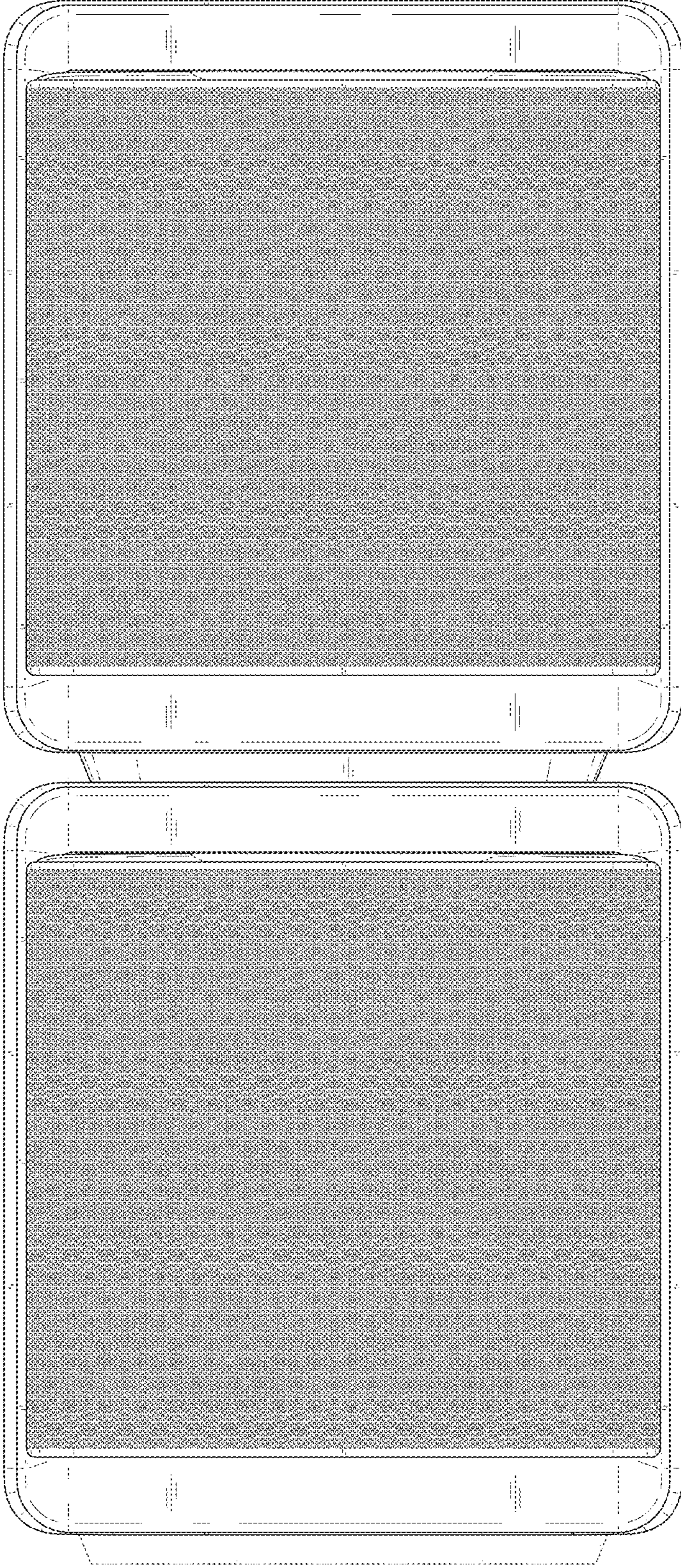


FIG. 3

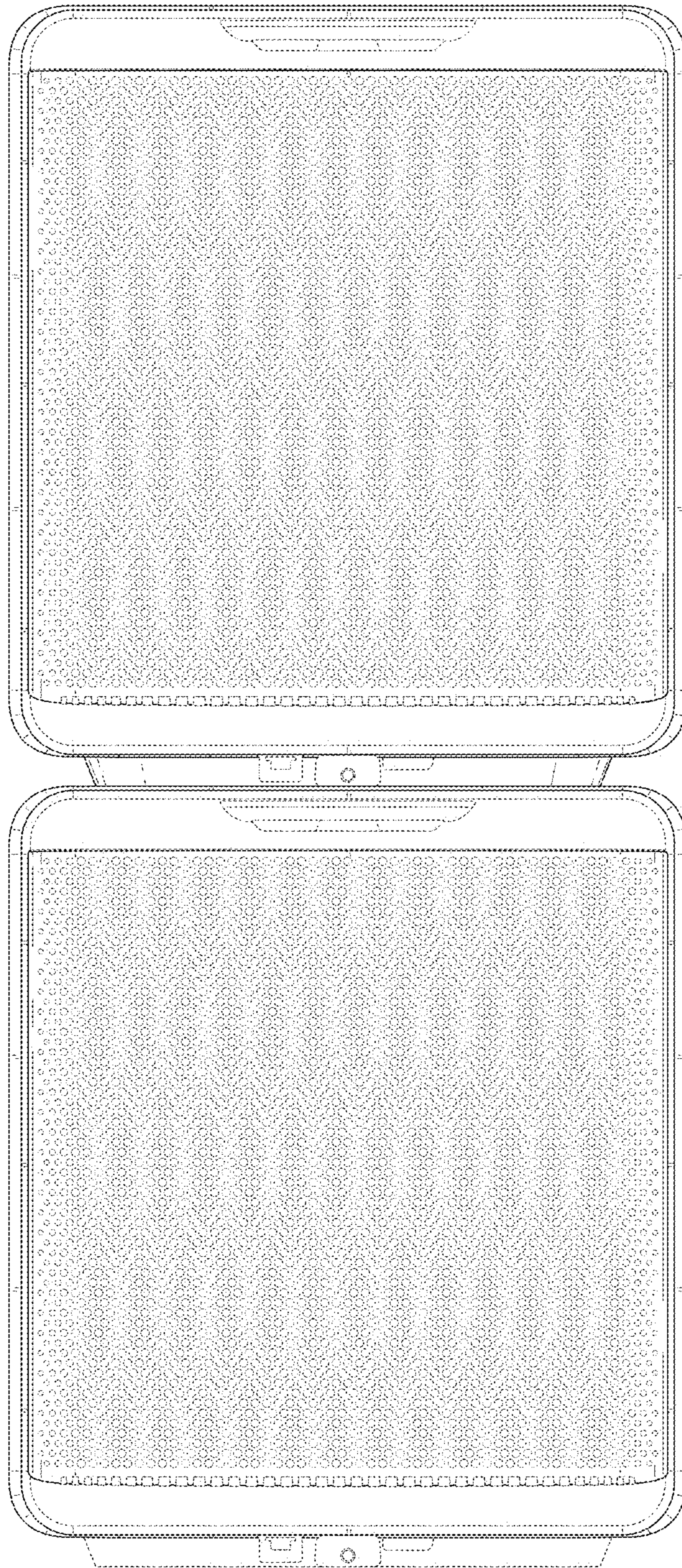


FIG. 4

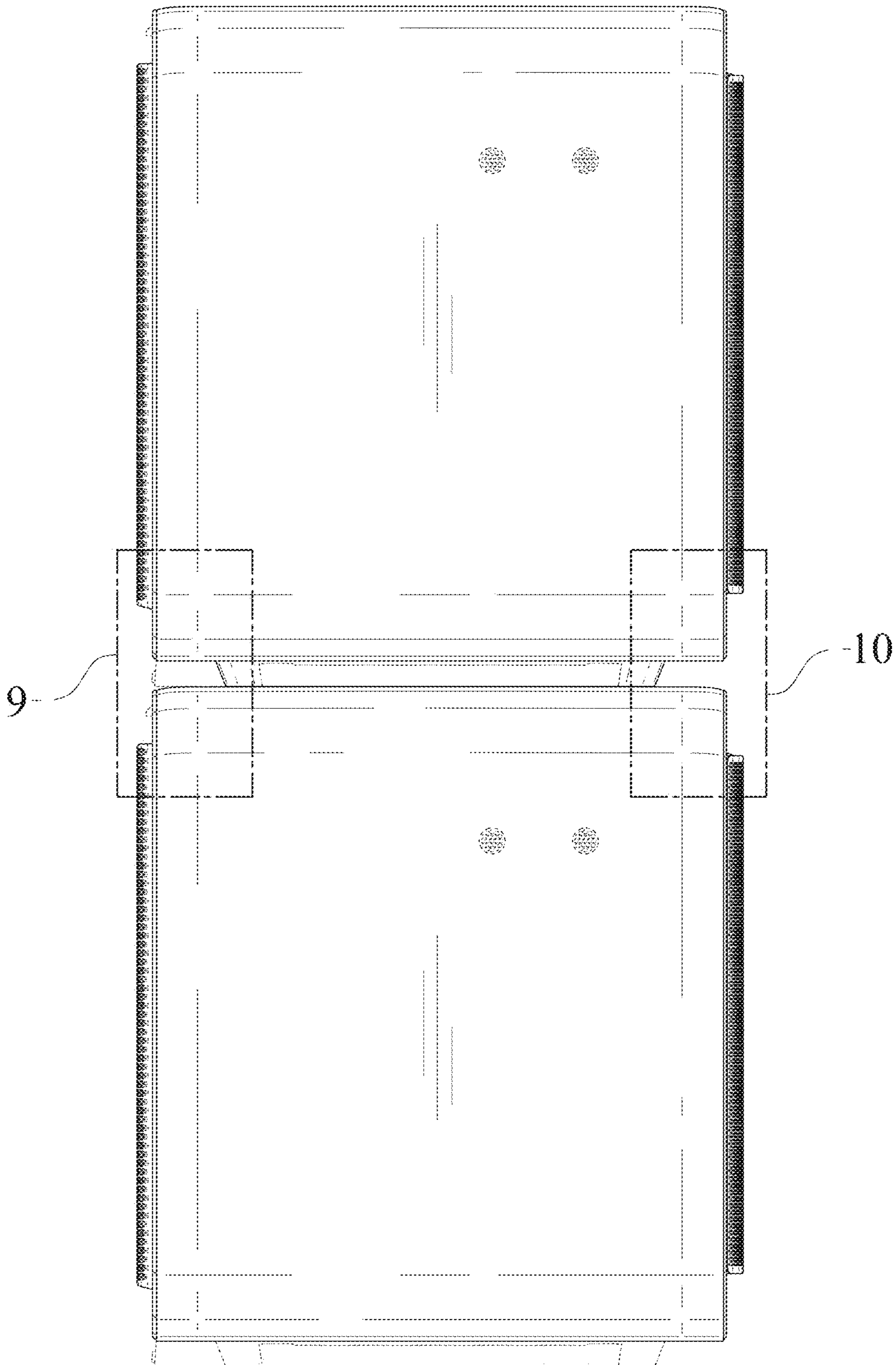


FIG. 5

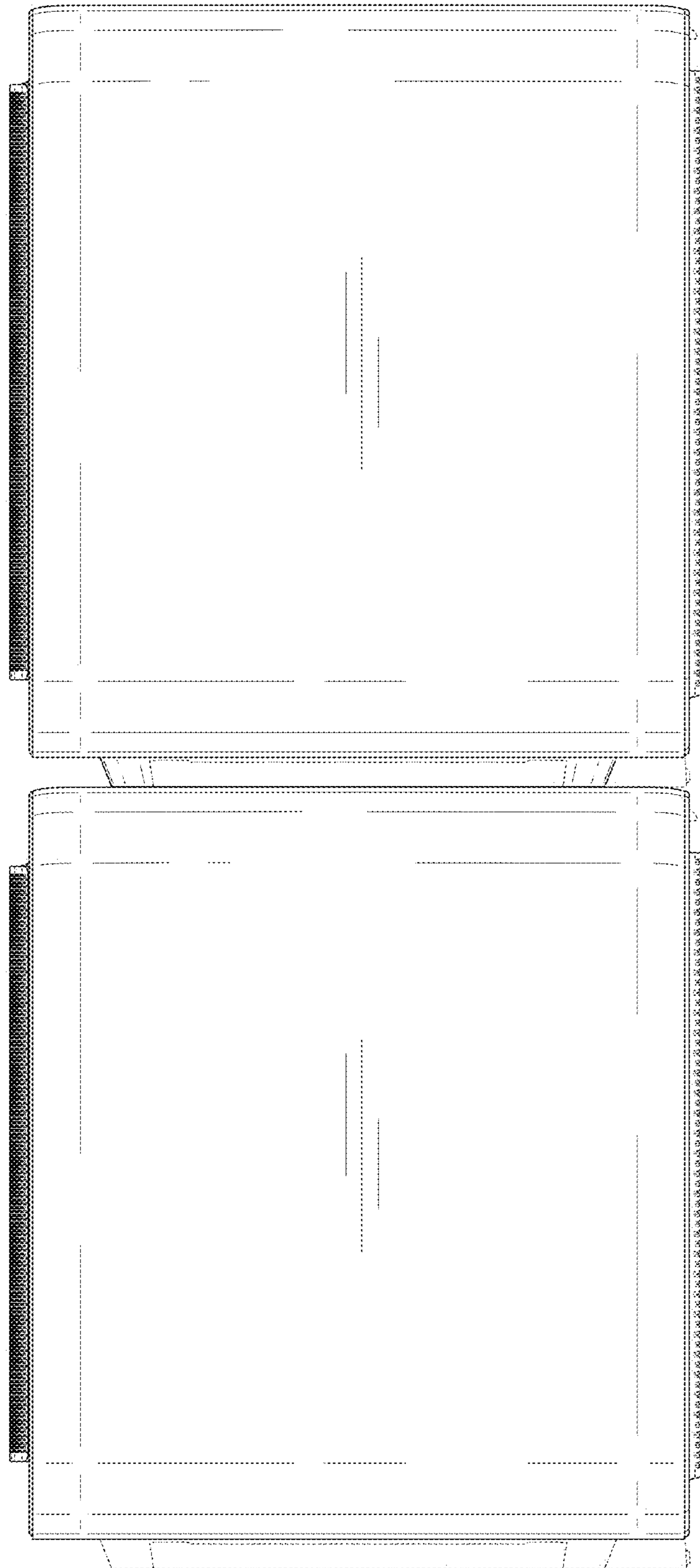


FIG. 6

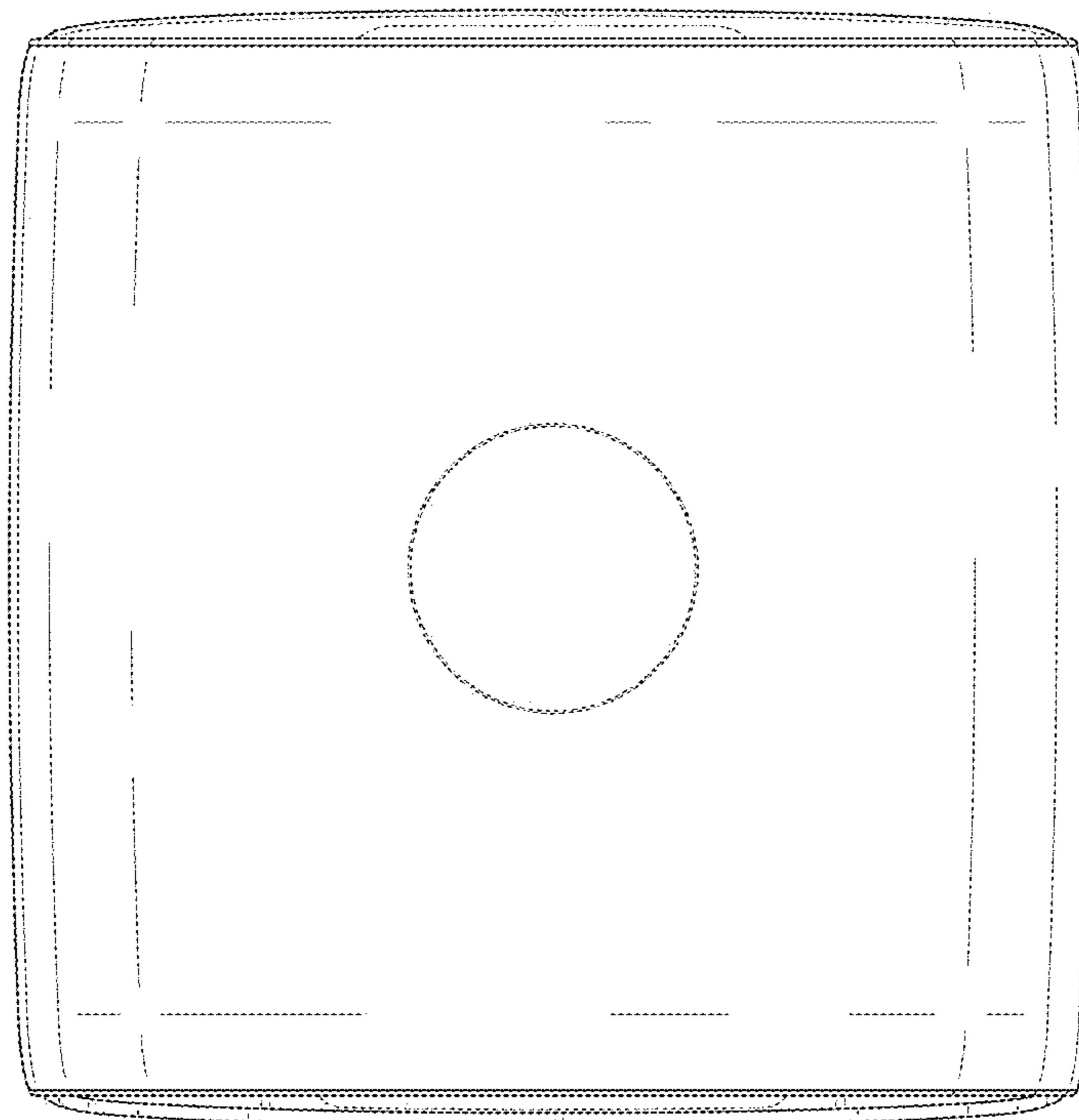




FIG. 7

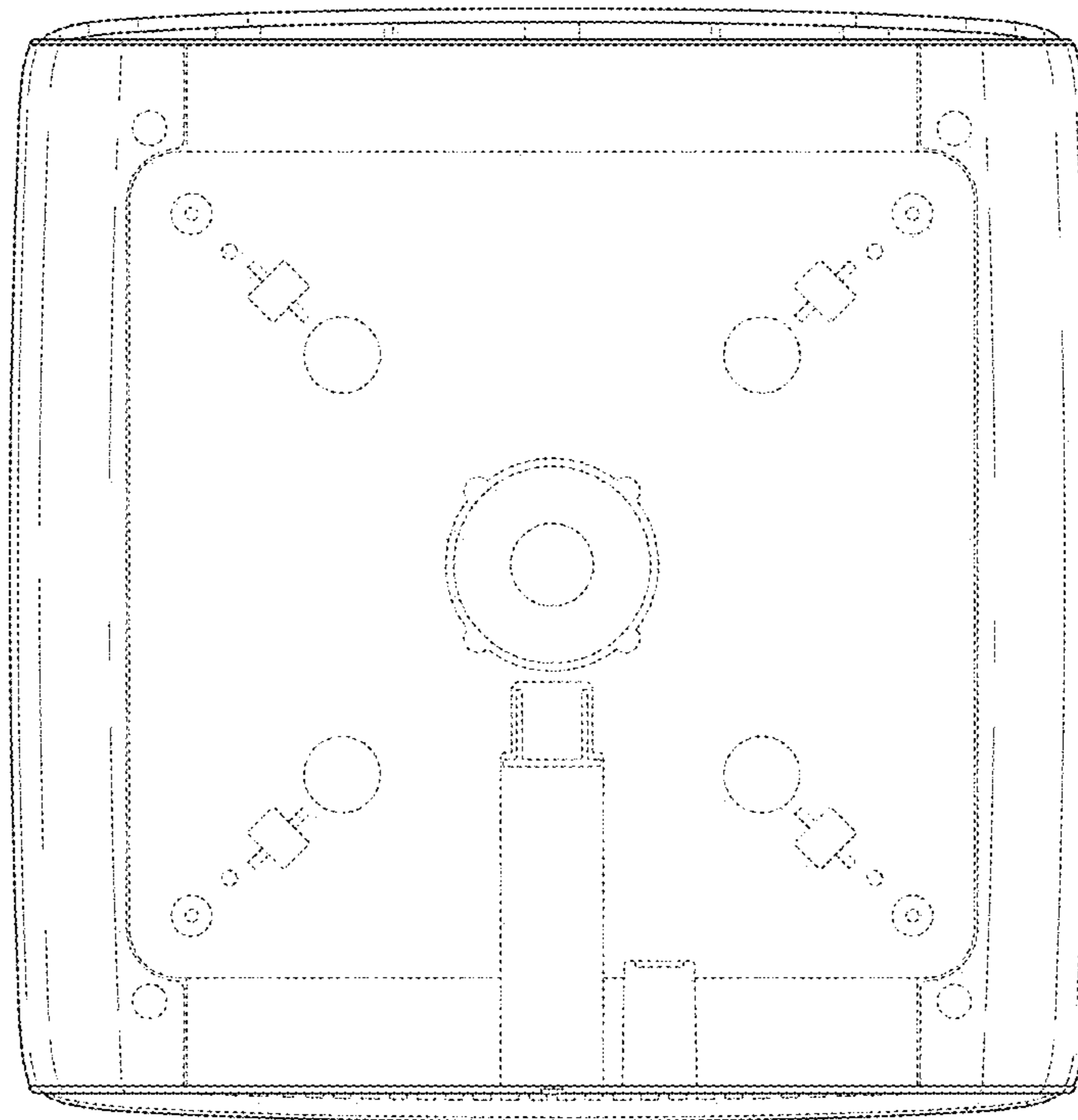


FIG. 8

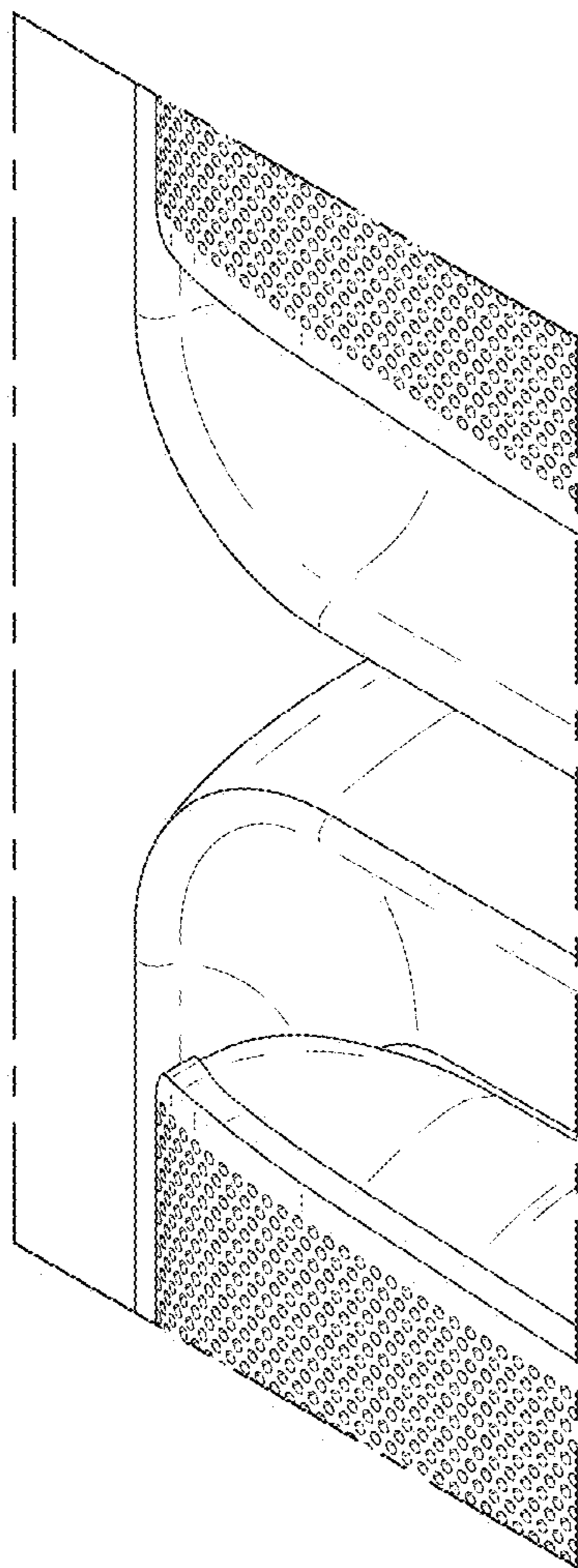


FIG. 9

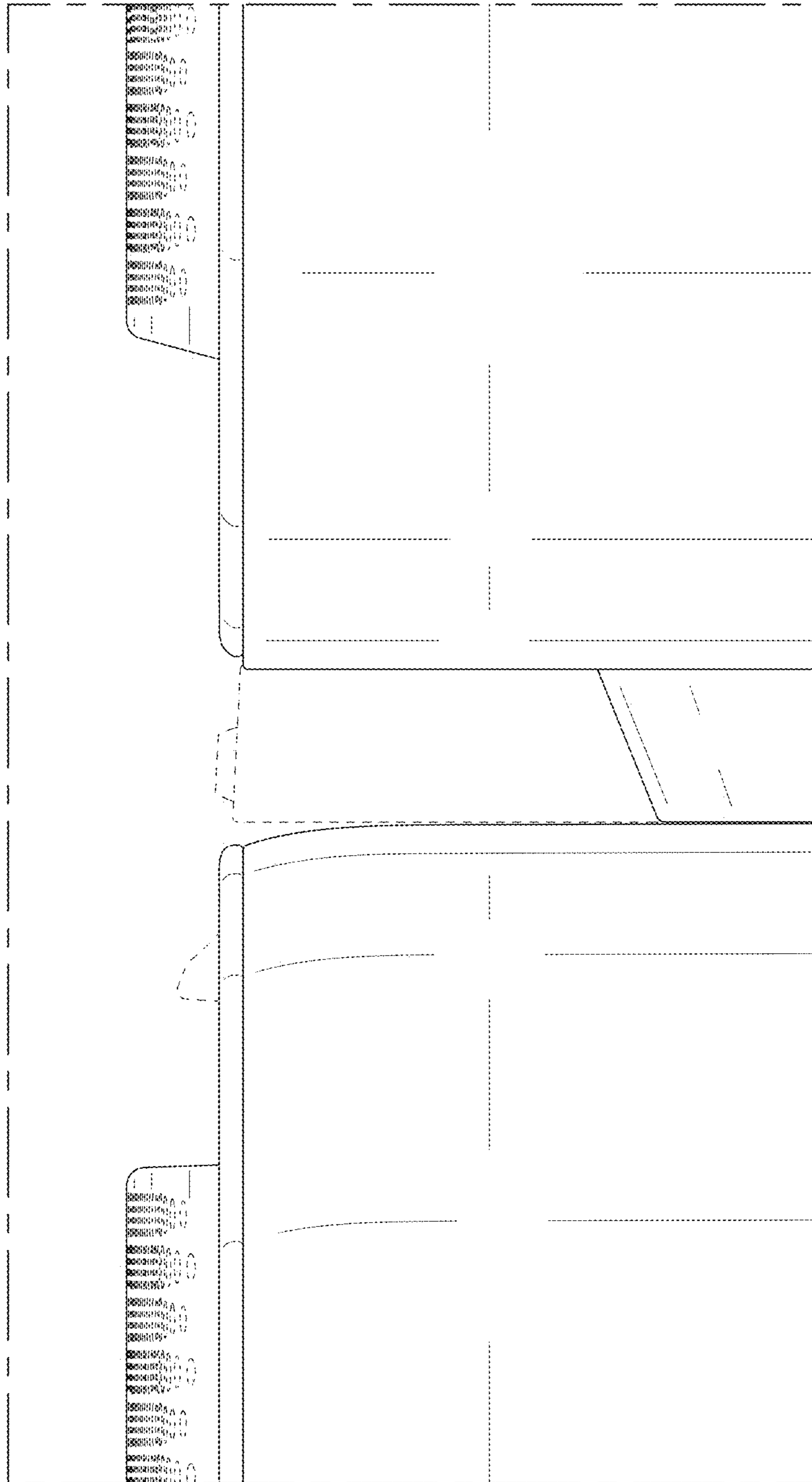


FIG. 10

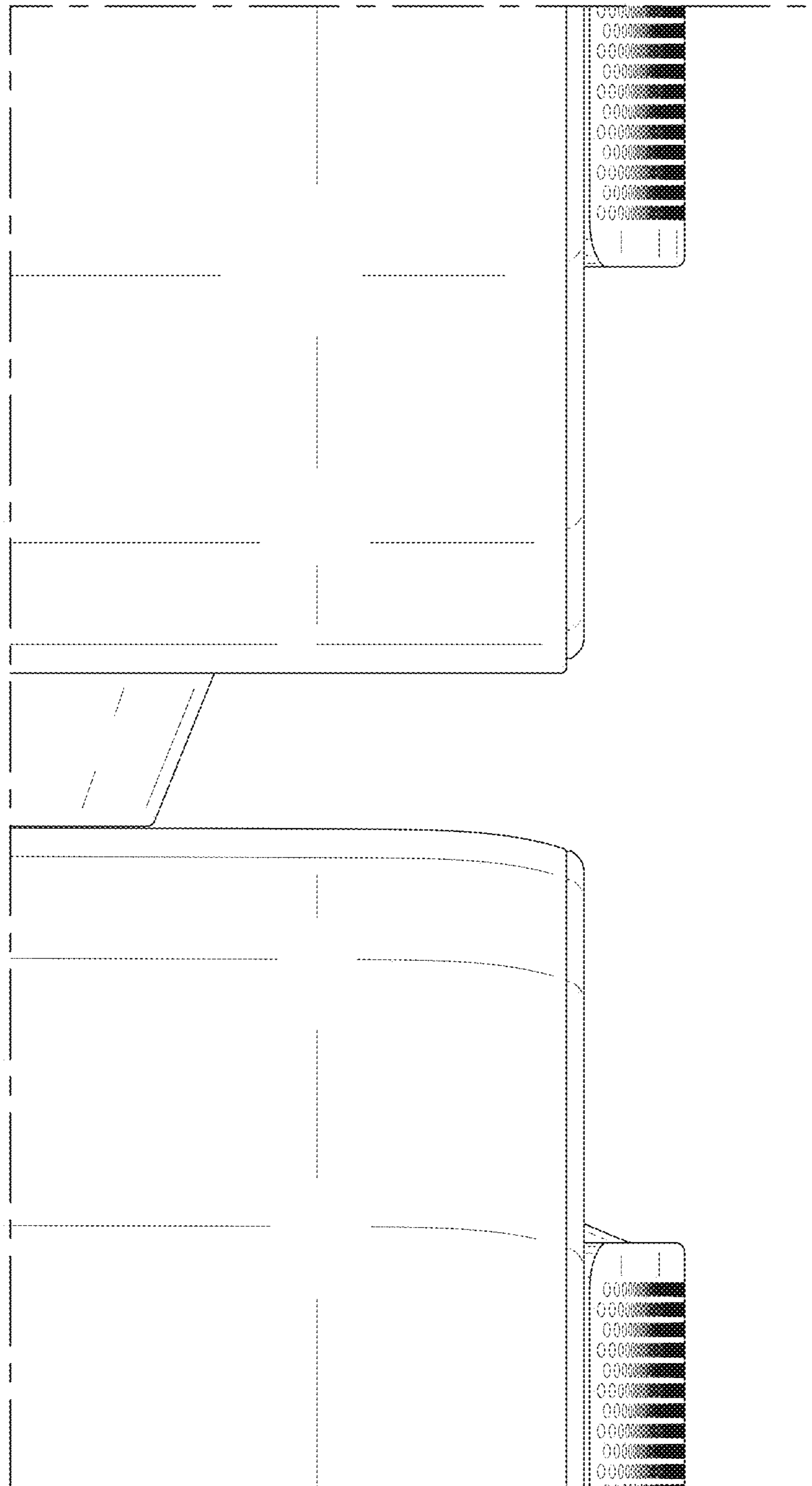


FIG. 11

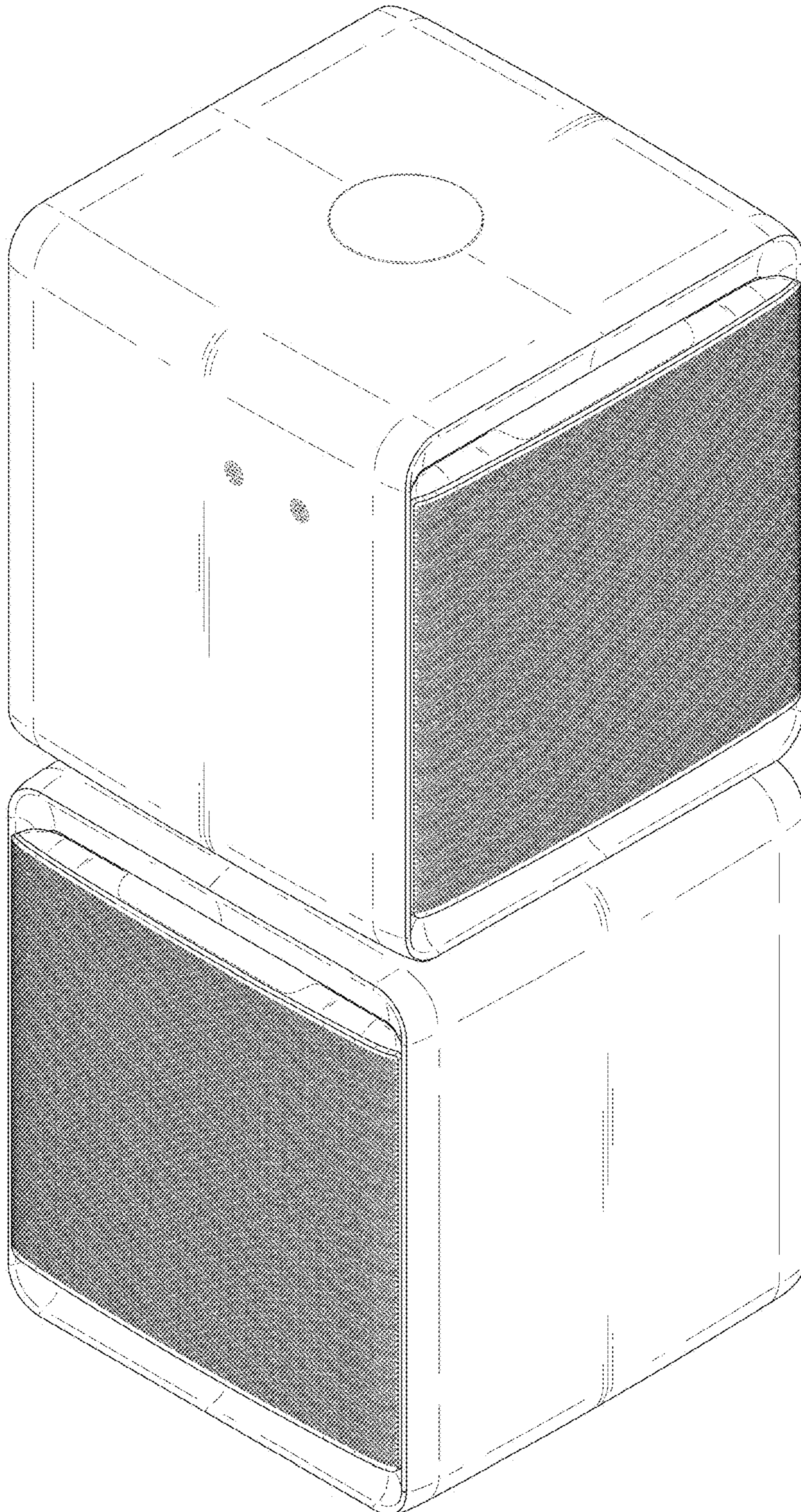


FIG. 12

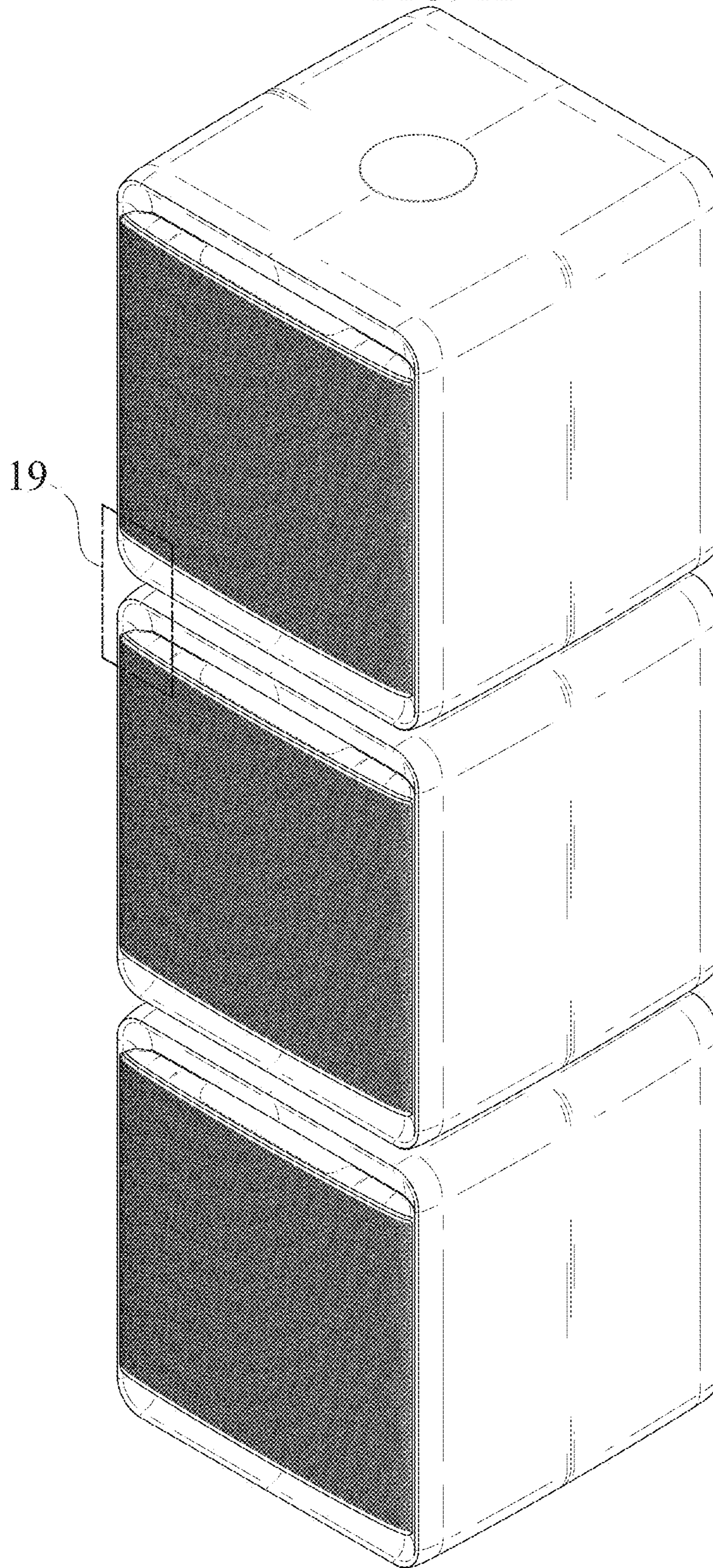


FIG. 13

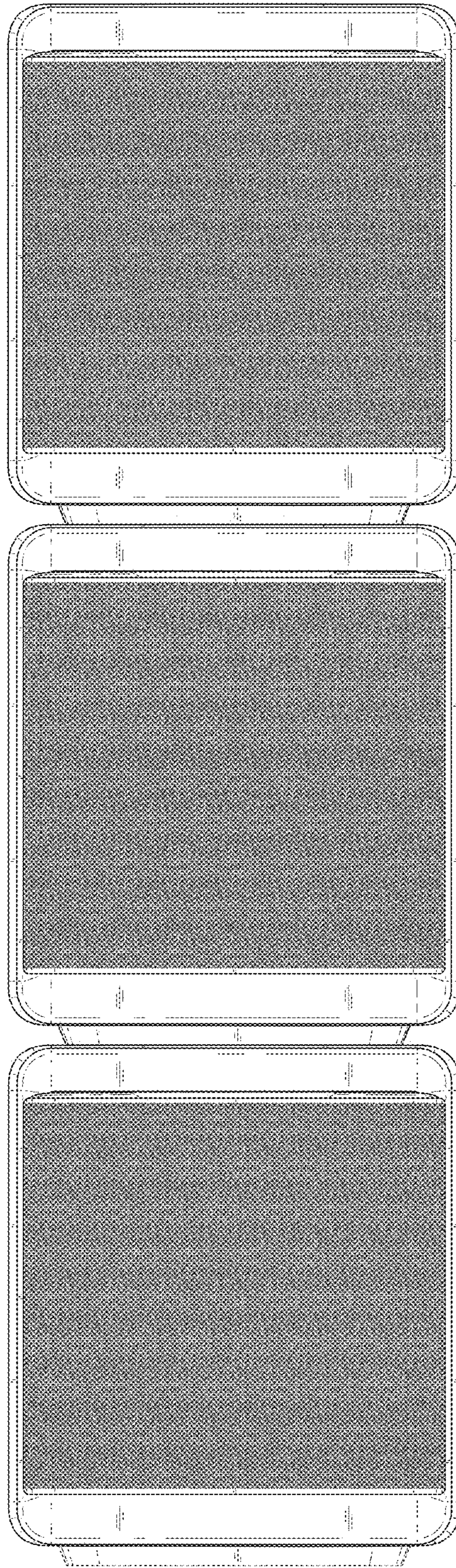


FIG. 14

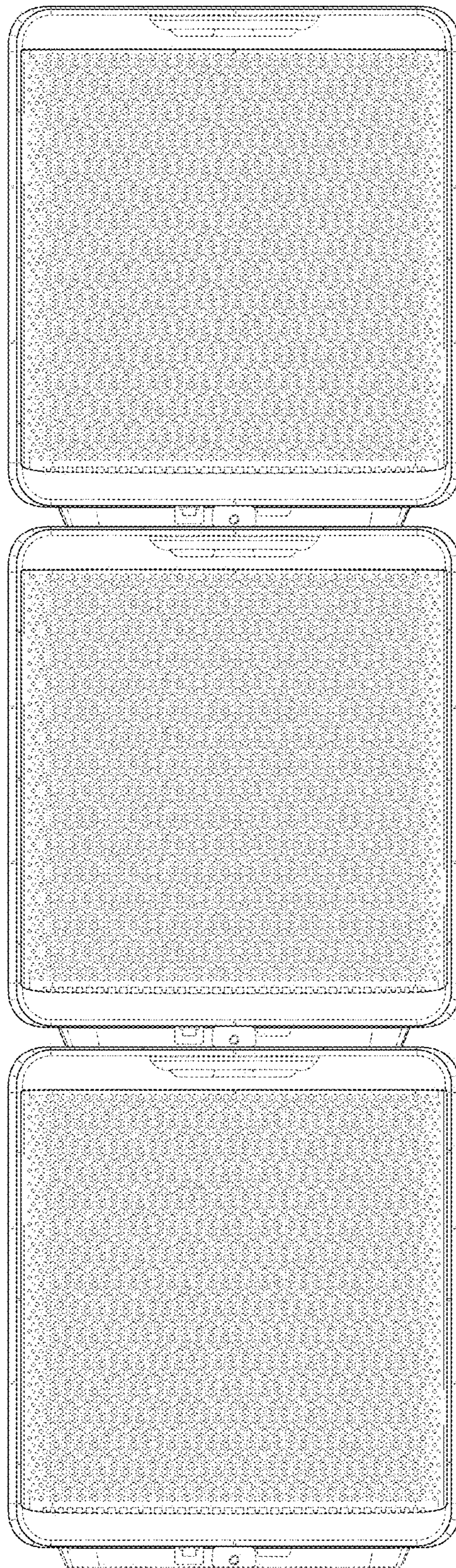




FIG. 15

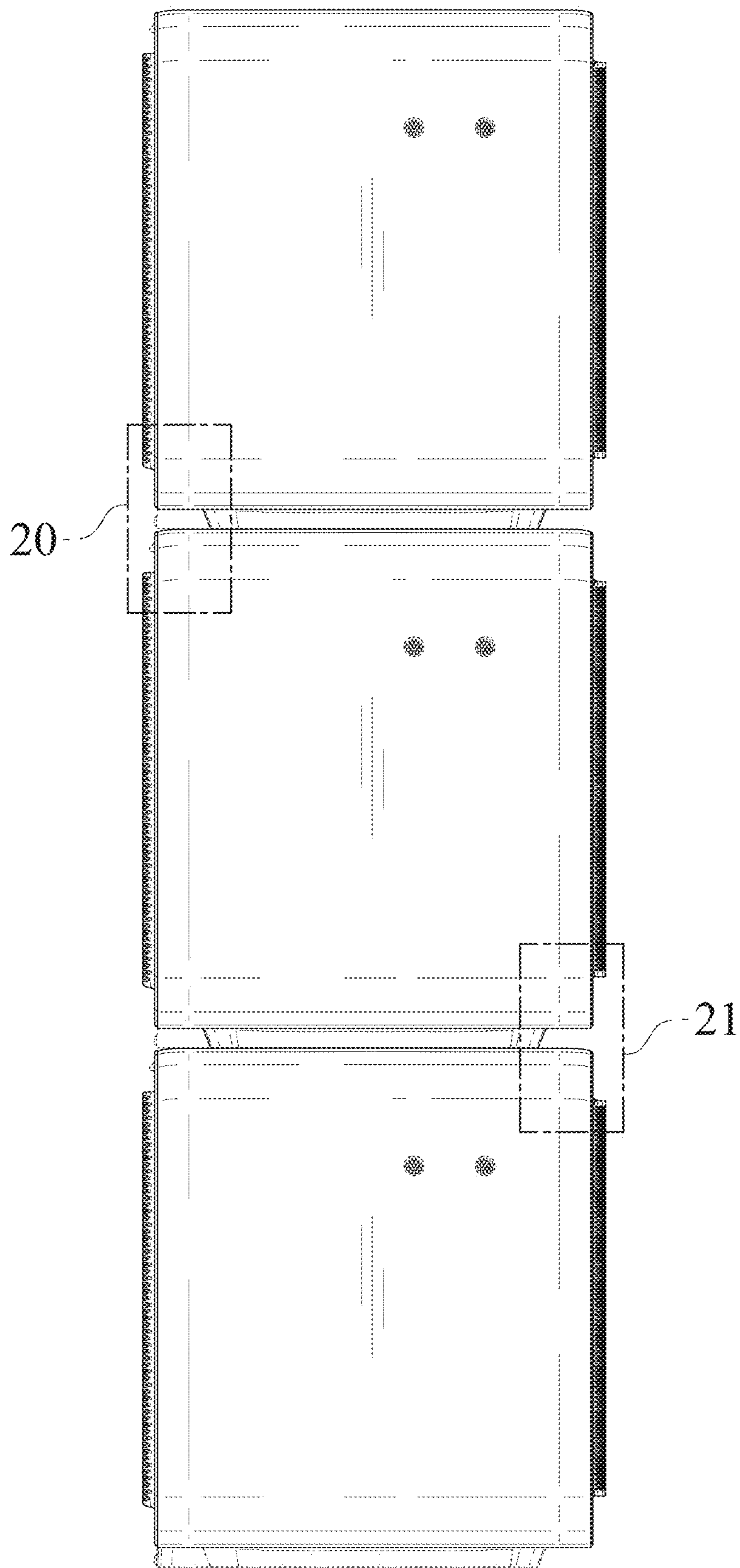


FIG. 16

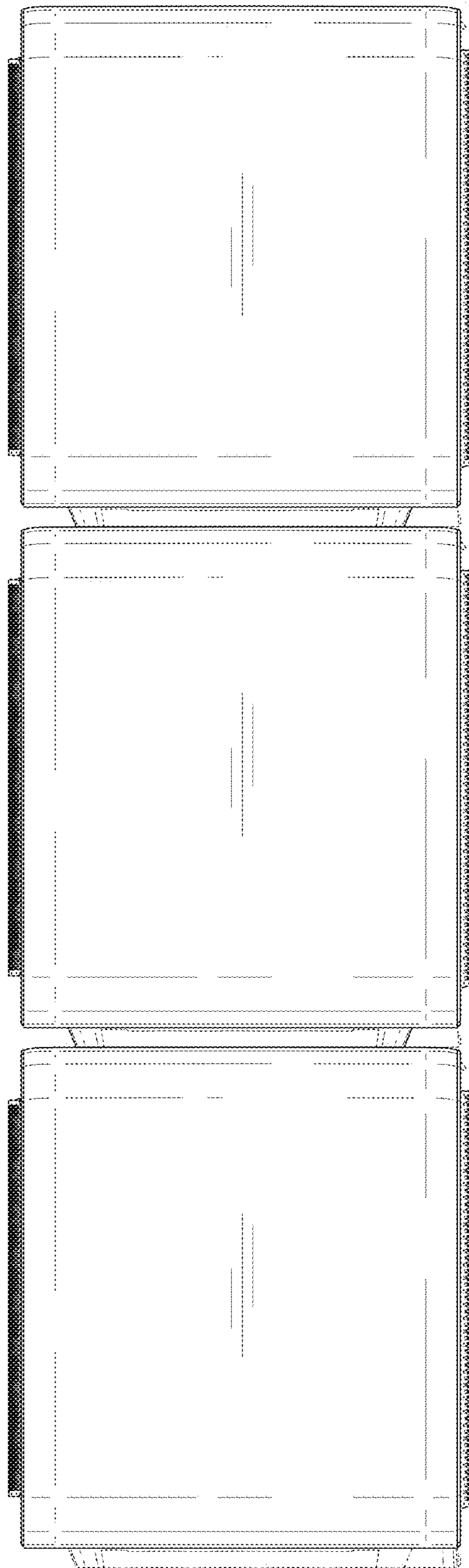


FIG. 17

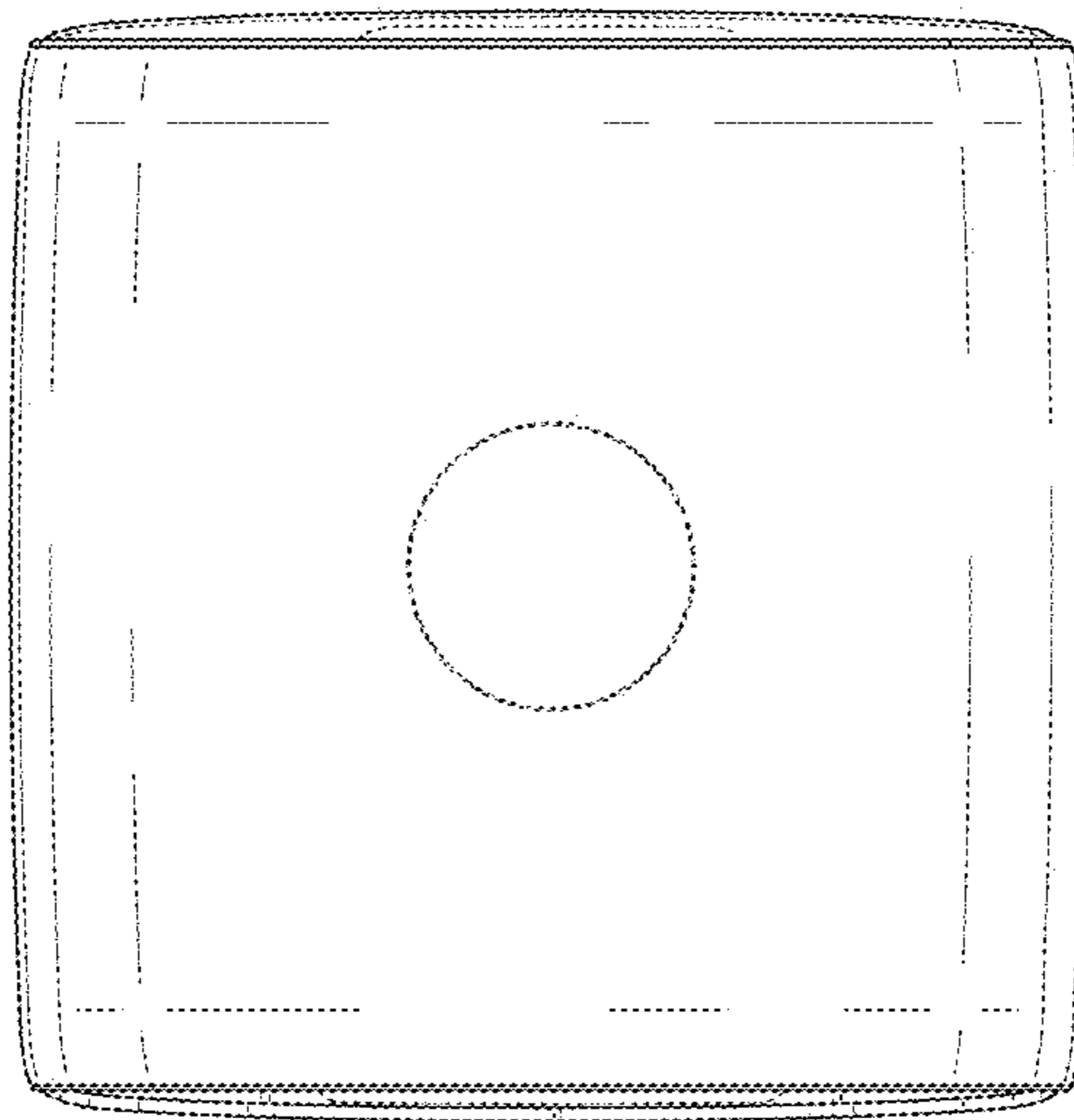


FIG. 18

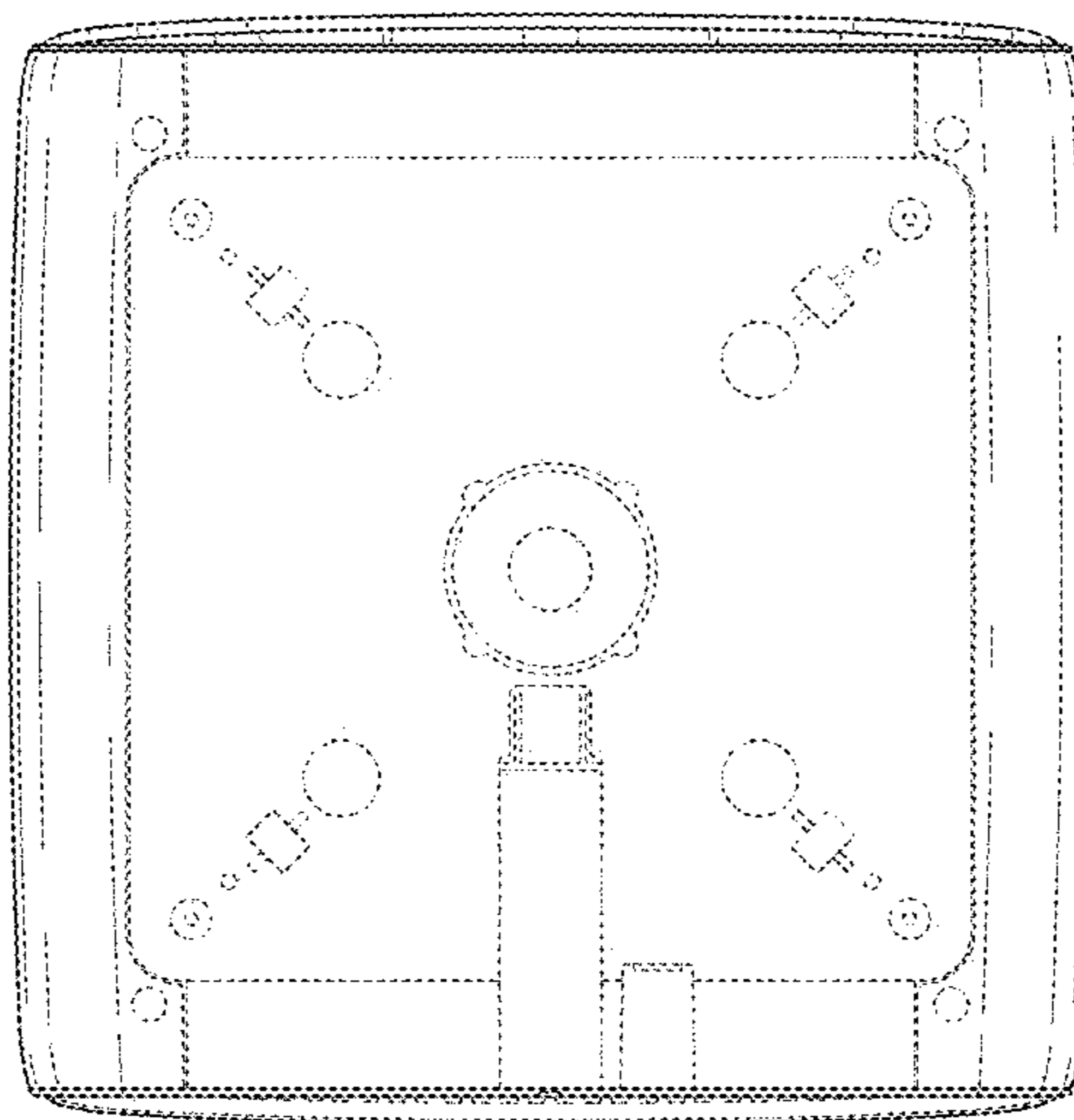


FIG. 19

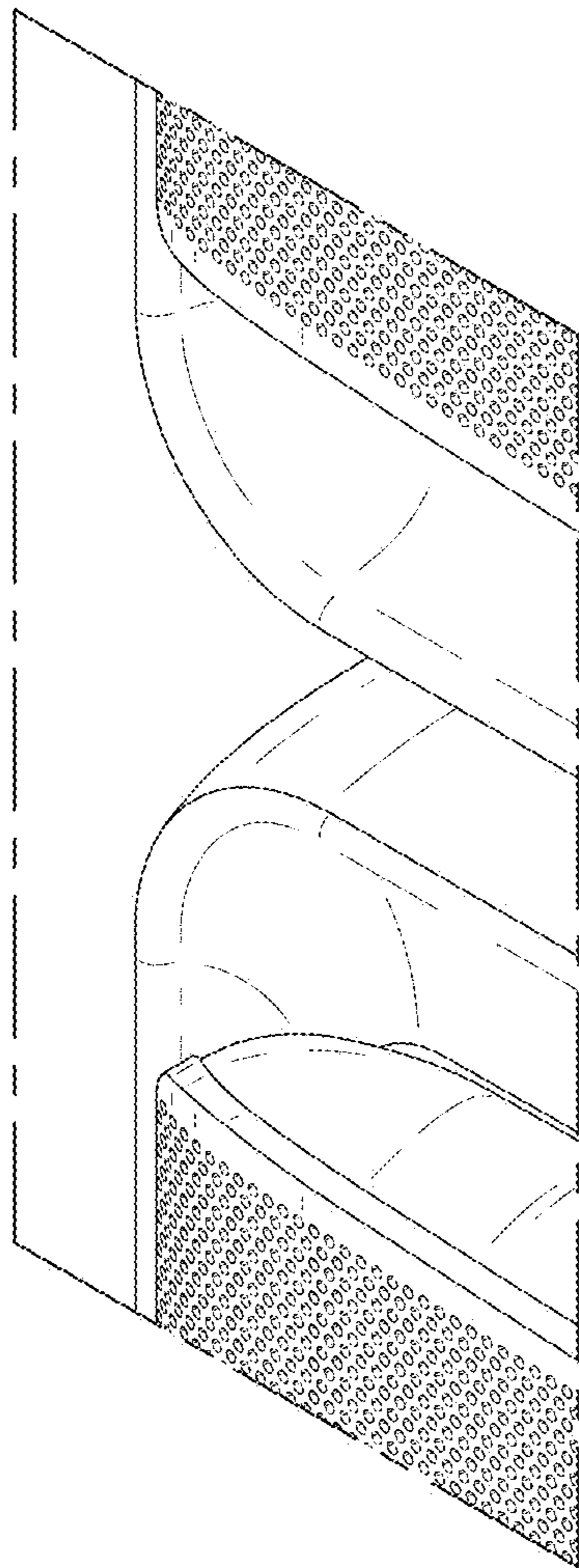


FIG. 20

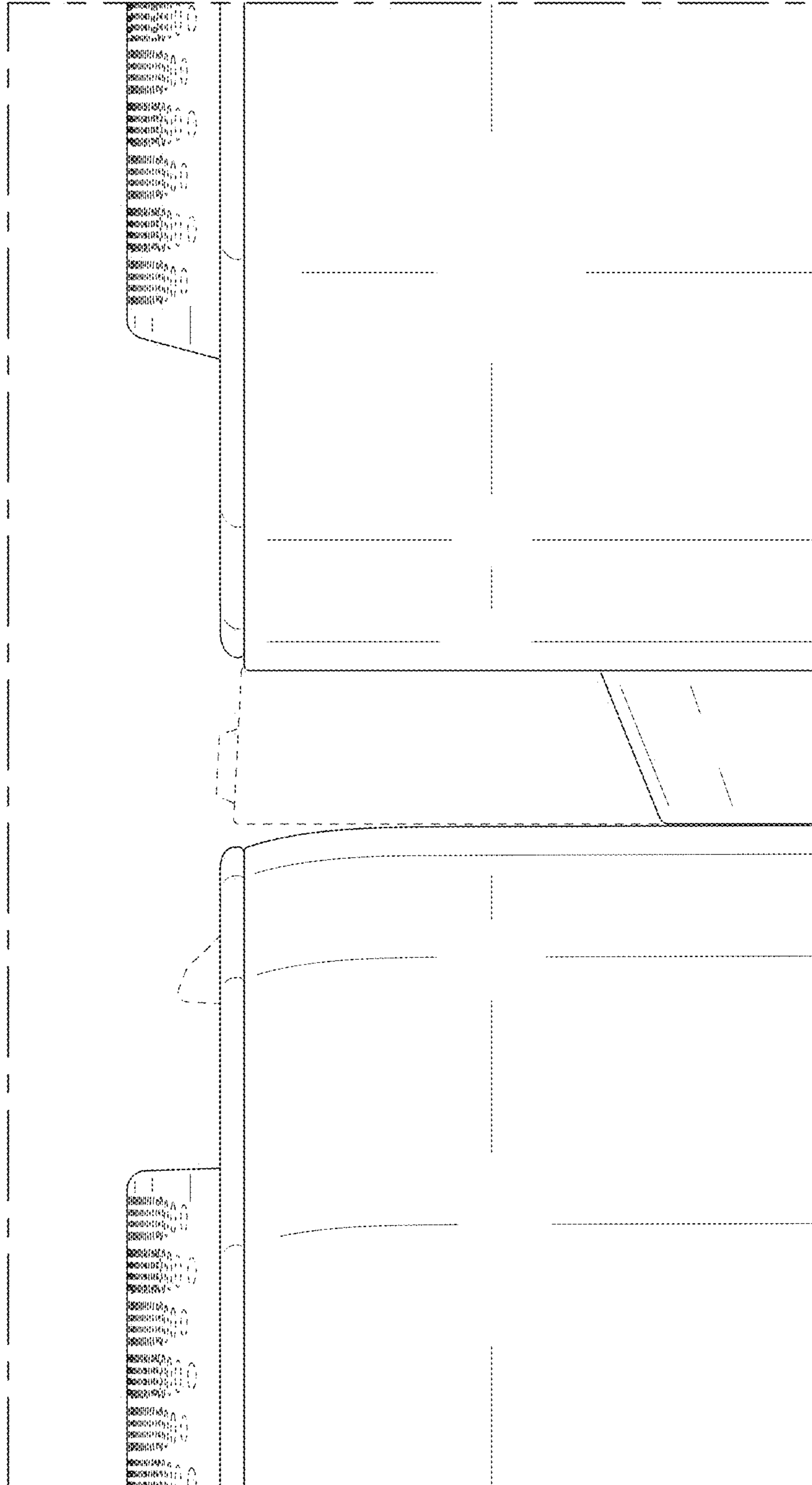


FIG. 21

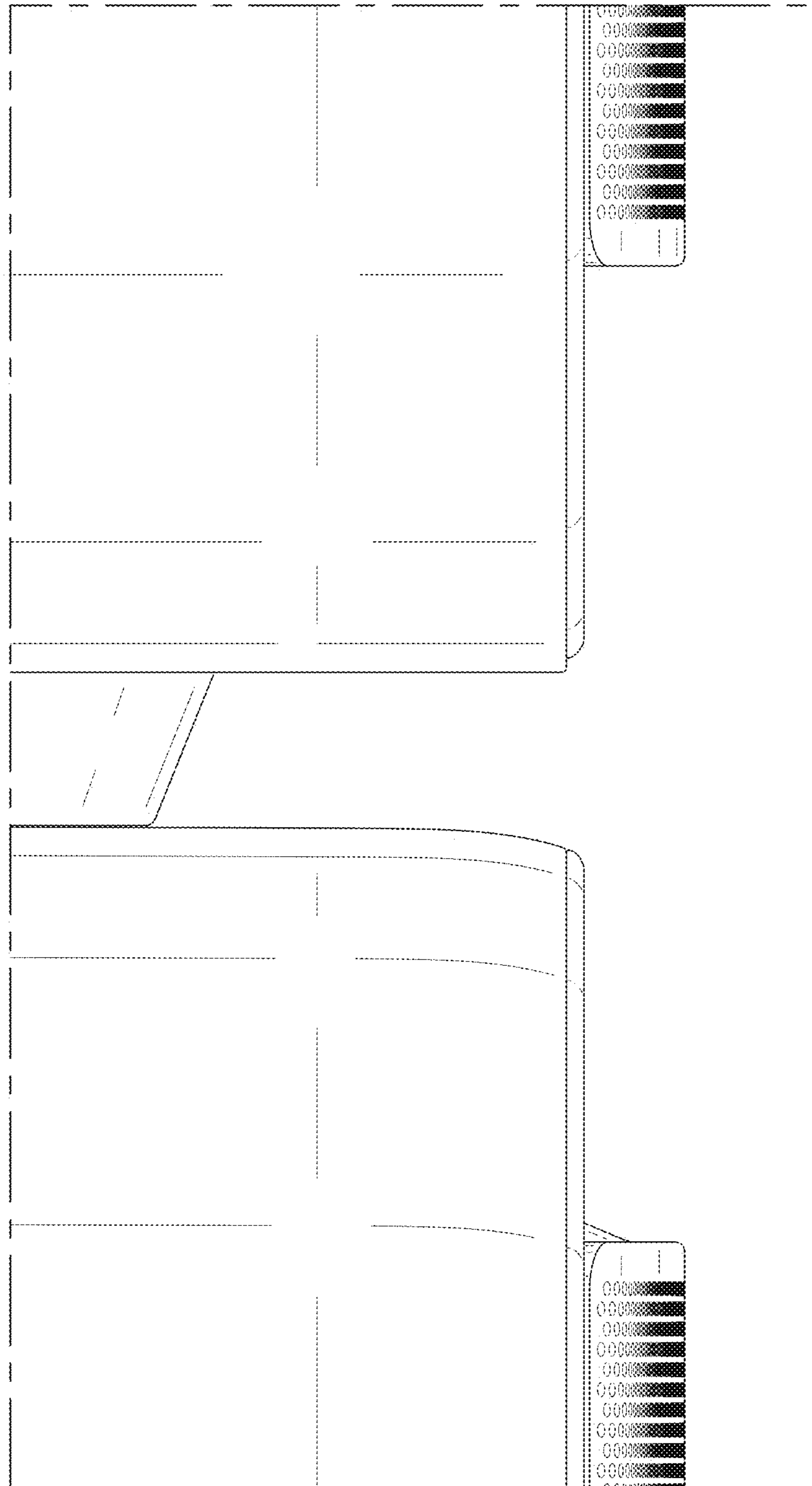


FIG. 22

