



US00D900290S

(12) **United States Design Patent** (10) **Patent No.:** **US D900,290 S**  
**Shin et al.** (45) **Date of Patent:** **\*\* Oct. 27, 2020**

(54) **AIR PURIFIER**

(71) Applicant: **SAMSUNG ELECTRONICS CO., LTD.**, Suwon-si, Gyeonggi-do (KR)

(72) Inventors: **Young-Sun Shin**, Seoul (KR); **Jin-Sun Park**, Seoul (KR)

(73) Assignee: **SAMSUNG ELECTRONICS CO., LTD.**, Gyeonggi-Do (KR)

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

(21) Appl. No.: **29/658,733**

(22) Filed: **Aug. 2, 2018**

**Related U.S. Application Data**

(63) Continuation of application No. 29/604,210, filed on May 16, 2017, now Pat. No. Des. 827,799, which is a continuation of application No. 29/531,499, filed on Jun. 26, 2015, now Pat. No. Des. 790,050.

(30) **Foreign Application Priority Data**

Dec. 26, 2014 (KR) ..... 30-2014-0063391

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

(52) **U.S. Cl.**  
USPC ..... **D23/364**

(58) **Field of Classification Search**  
USPC ..... D23/364, 351, 365, 387, 366, 333  
CPC ..... G21B 3/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

D397,201 S 8/1998 Ediger et al.  
5,908,140 A \* 6/1999 Muderlak ..... A61L 9/14  
222/1  
D421,646 S 3/2000 Palma et al.

D423,656 S 4/2000 De'Longhi  
D437,037 S 1/2001 Deros et al.  
D437,039 S 1/2001 Yamazaki et al.  
D442,270 S 5/2001 Campbell et al.  
6,427,984 B1 8/2002 Mulvaney et al.  
D465,567 S 11/2002 Choi  
D515,189 S 2/2006 Russak et al.  
D516,689 S 3/2006 Salmon et al.  
D556,309 S 11/2007 Chiu  
D572,810 S 7/2008 Chiu  
D577,800 S 9/2008 Yoon  
D578,192 S 10/2008 Yoo et al.  
D590,488 S \* 4/2009 Chiu ..... D23/333  
D598,087 S \* 8/2009 Park, II ..... D23/333

(Continued)

**OTHER PUBLICATIONS**

Eat My Dust by Steven Kurutz, posted to The New York Times. Available date: May 15, 20163 [site visited Aug. 4, 2020] Available: < <https://www.nytimes.com/2013/05/16/garden/an-allergy-sufferer-tests-six-air-purifiers.html> > (Year: 2013).\*

*Primary Examiner* — Kevin K Rudzinski  
(74) *Attorney, Agent, or Firm* — Cantor Colburn LLP

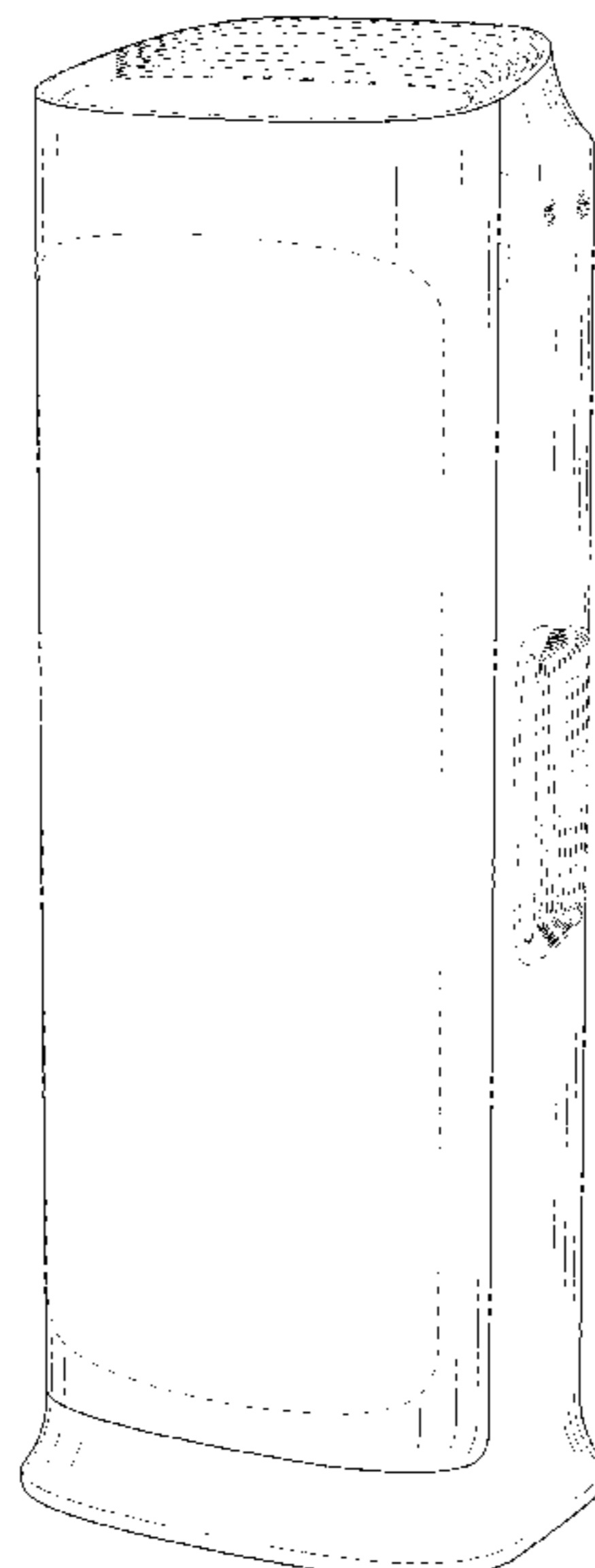
(57) **CLAIM**

The ornamental design for an air purifier, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view of an air purifier, showing our new design;  
FIG. 2 is a front view thereof;  
FIG. 3 is a rear view thereof;  
FIG. 4 is a side view thereof;  
FIG. 5 is another side view thereof;  
FIG. 6 is a top view thereof; and,  
FIG. 7 is a bottom view thereof.  
The broken lines in the figures are for environmental purposes only and form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

|              |         |                |       |         |                 |         |                   |               |
|--------------|---------|----------------|-------|---------|-----------------|---------|-------------------|---------------|
| D634,415 S * | 3/2011  | Abbondanzio    | ..... | D23/366 | D766,414 S      | 9/2016  | Chu               |               |
| D634,829 S   | 3/2011  | Niki           |       |         | D766,415 S      | 9/2016  | Kim               |               |
| D636,476 S * | 4/2011  | Abbondanzio    | ..... | D23/366 | D768,834 S *    | 10/2016 | Schuller          | ..... D23/366 |
| D638,923 S   | 5/2011  | Choi           |       |         | D787,657 S *    | 5/2017  | Farone            | ..... D23/356 |
| D643,102 S * | 8/2011  | Abbondanzio    | ..... | D23/366 | D788,279 S *    | 5/2017  | Lee               | ..... D23/359 |
| D664,248 S * | 7/2012  | Huang          | ..... | D23/364 | D788,898 S      | 6/2017  | Shin et al.       |               |
| D672,858 S * | 12/2012 | Abbondanzio    | ..... | D23/366 | D790,050 S      | 6/2017  | Shin et al.       |               |
| D675,303 S   | 1/2013  | Raupach et al. |       |         | D797,272 S      | 9/2017  | Poindexter et al. |               |
| D683,439 S   | 5/2013  | Choi           |       |         | D801,502 S      | 10/2017 | Hu                |               |
| D691,255 S * | 10/2013 | Abbondanzio    | ..... | D23/366 | D802,112 S      | 11/2017 | Jeon et al.       |               |
| D704,320 S * | 5/2014  | Li             | ..... | D23/333 | D807,997 S      | 1/2018  | Seo               |               |
| D705,410 S   | 5/2014  | Terao          |       |         | D818,569 S *    | 5/2018  | Farone            | ..... D23/356 |
| D725,253 S   | 3/2015  | Choi et al.    |       |         | D820,423 S *    | 6/2018  | Poindexter        | ..... D23/364 |
| D729,365 S   | 5/2015  | Yuan et al.    |       |         | D827,799 S *    | 9/2018  | Shin              | ..... D23/364 |
| D729,919 S   | 5/2015  | Yeom           |       |         | D835,249 S *    | 12/2018 | Echeverri         | ..... D23/365 |
| D741,465 S   | 10/2015 | Satou          |       |         | D838,273 S *    | 1/2019  | Memke             | ..... D14/426 |
| D741,466 S   | 10/2015 | Satou          |       |         | D844,766 S *    | 4/2019  | Miao              | ..... D23/364 |
| D750,210 S * | 2/2016  | Sayers         | ..... | D23/366 | D878,530 S *    | 3/2020  | Pan               | ..... D23/364 |
| D754,831 S   | 4/2016  | Yin et al.     |       |         | D879,933 S *    | 3/2020  | Nanda             | ..... D23/366 |
|              |         |                |       |         | D888,214 S *    | 6/2020  | Kim               | ..... D23/351 |
|              |         |                |       |         | D891,598 S *    | 7/2020  | Hernandez         | ..... D23/364 |
|              |         |                |       |         | 2017/0016637 A1 | 1/2017  | Choi et al.       |               |

\* cited by examiner

FIG. 1

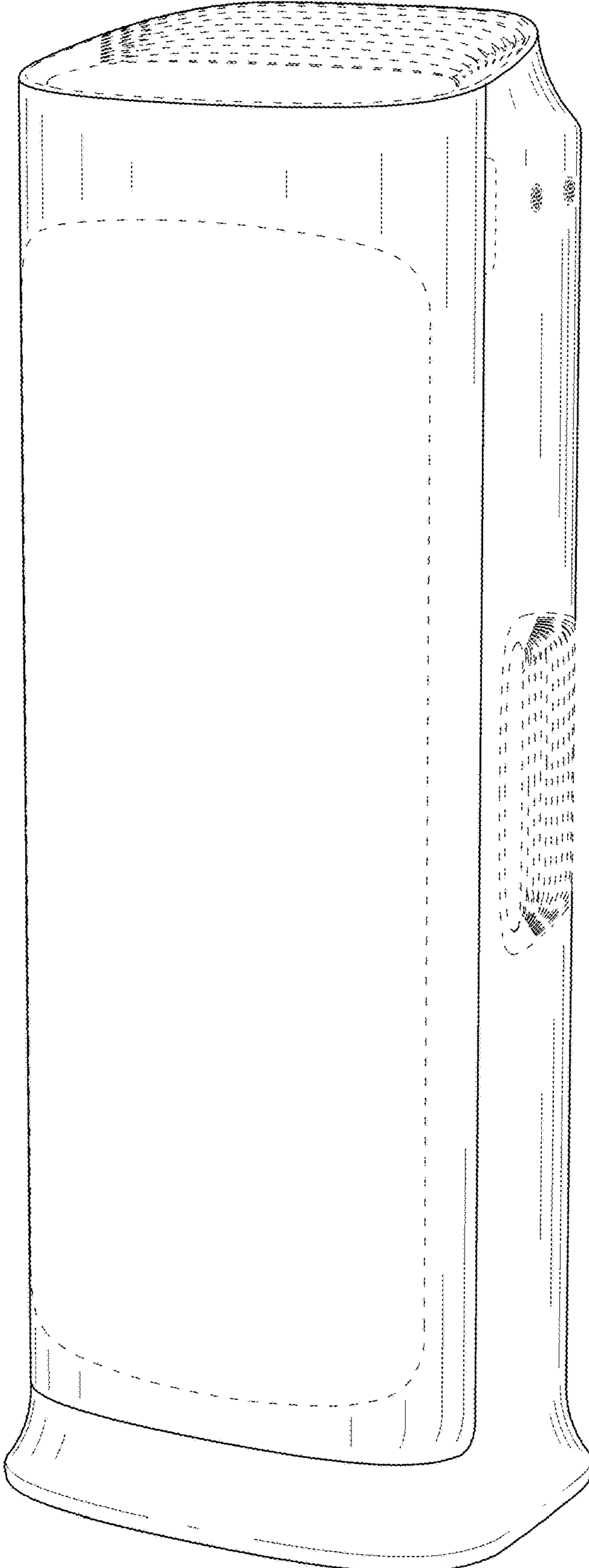


FIG. 2

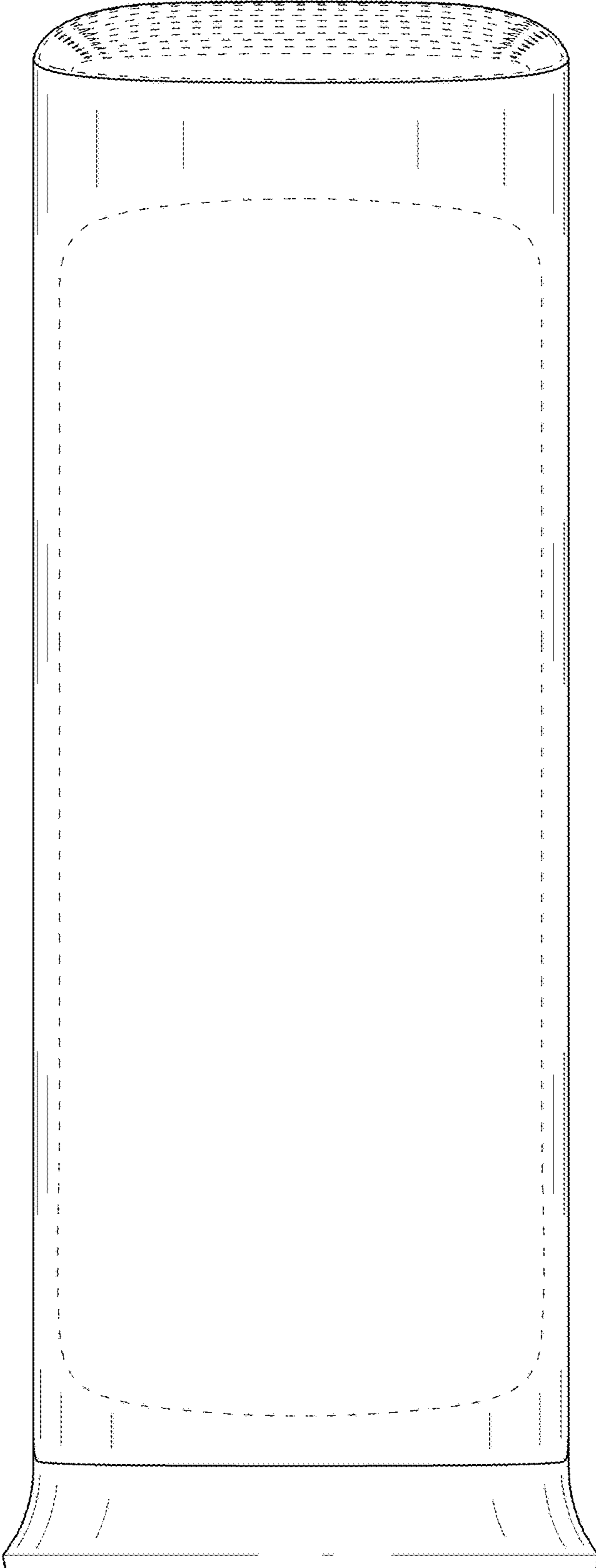


FIG. 3

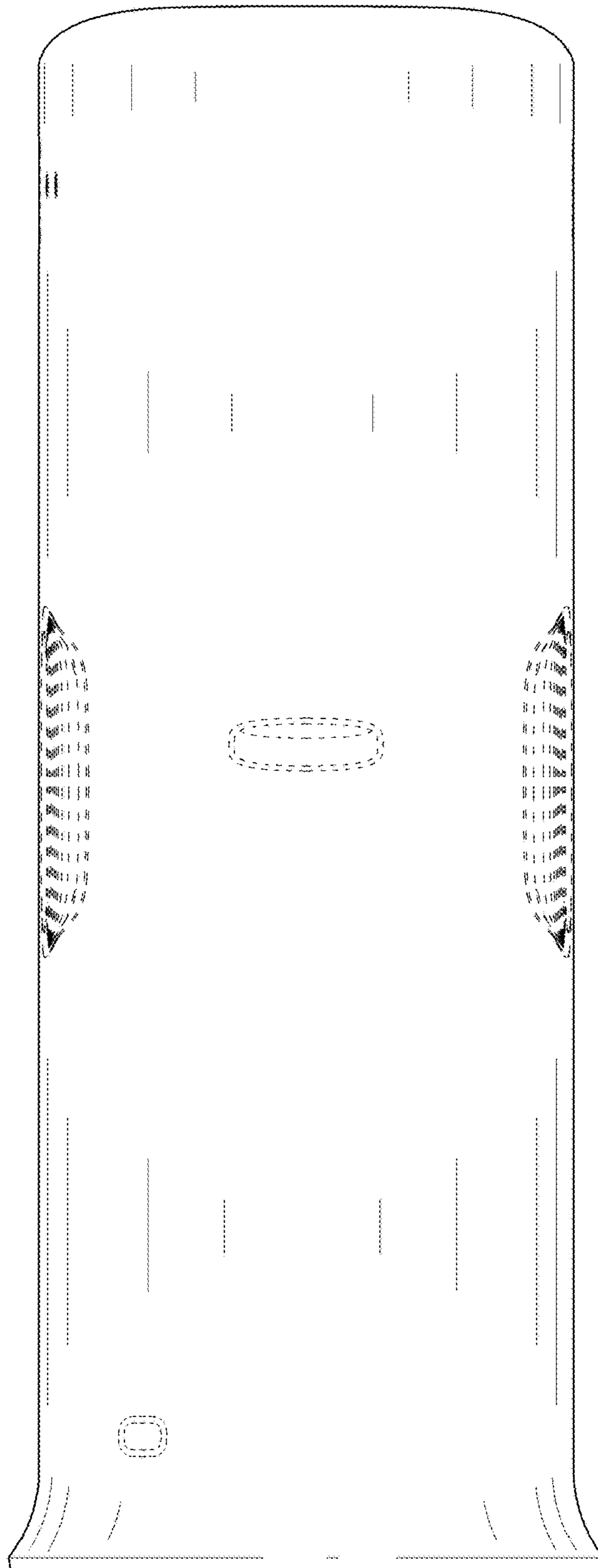


FIG. 4

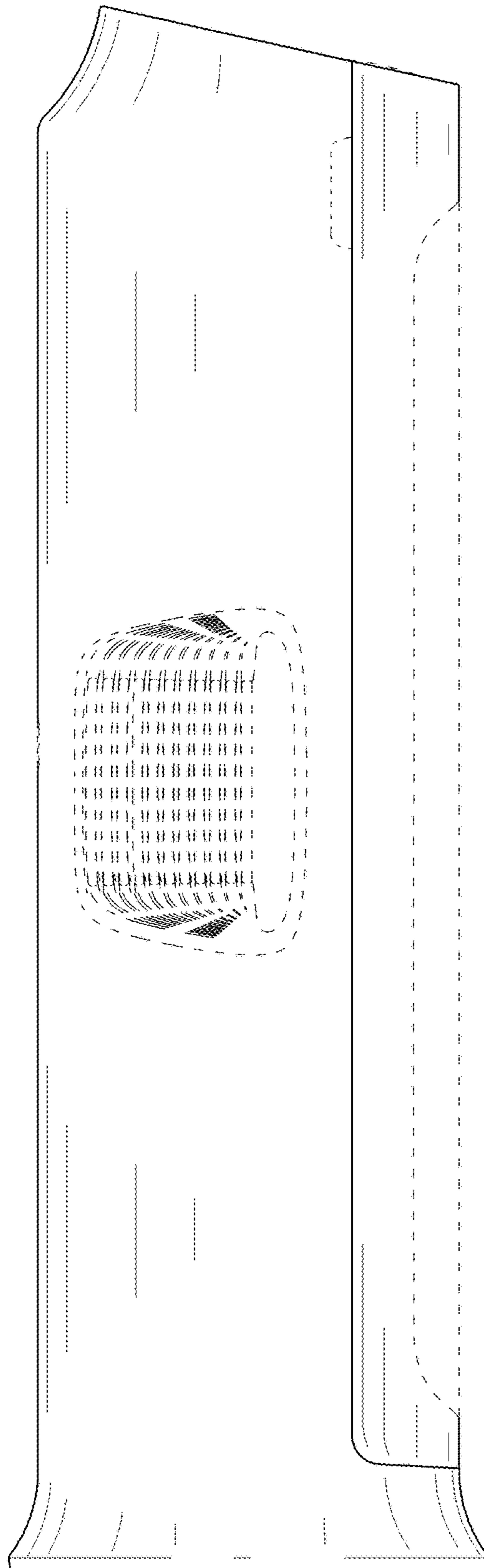




FIG. 5

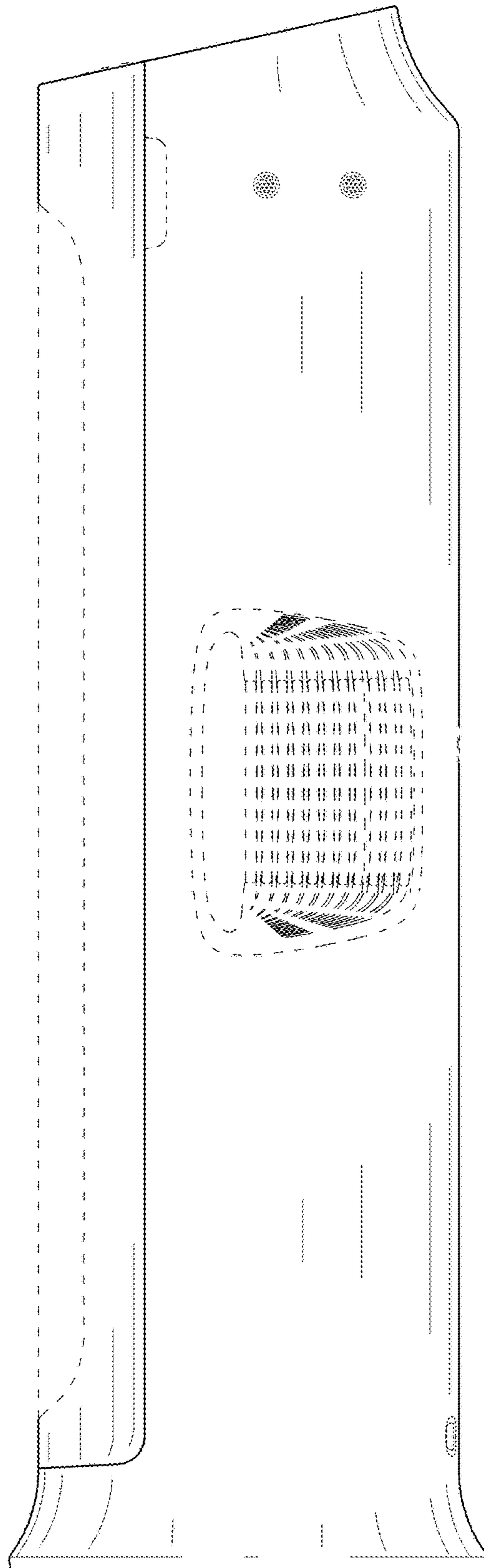


FIG. 6

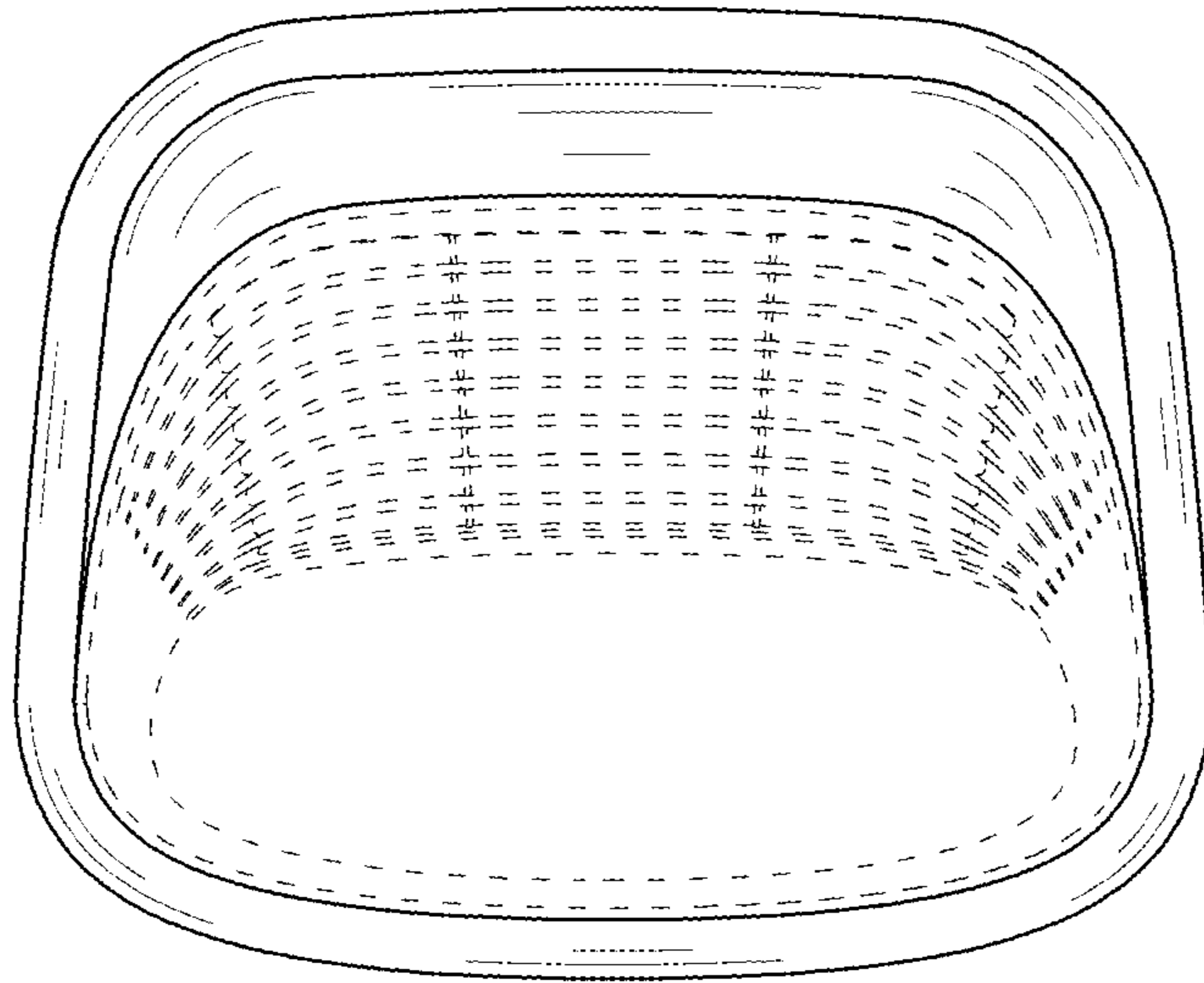


FIG. 7

