



US00D897990S

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

(10) **Patent No.:** **US D897,990 S**  
(45) **Date of Patent:** **\*\* Oct. 6, 2020**

(54) **SPEAKER**

(71) Applicant: **Shenzhen Xfanic Technology Co., Ltd.**, Shenzhen (CN)

(72) Inventors: **Xiangping Liu**, Shenzhen (CN); **Qi Chen**, Shenzhen (CN); **Zhifeng Li**, Shenzhen (CN); **Linjiang Liu**, Shenzhen (CN); **Guochun Jin**, Shenzhen (CN)

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

(21) Appl. No.: **29/690,885**

(22) Filed: **May 13, 2019**

(51) **LOC (12) Cl.** ..... **14-01**

(52) **U.S. Cl.**  
USPC ..... **D14/209.1; D14/211**

(58) **Field of Classification Search**  
USPC ... D14/209.1, 211, 204, 213, 215, 216, 221, D14/224.1, 203.3, 203.1, 314, 496; 181/144-148, 150, 151, 153, 199; 381/341; 455/90.3, 575.1, 569.1  
CPC ..... H04R 1/02; H04R 1/021; H04R 1/026; H04R 1/00; H04R 1/16; H05K 5/00  
See application file for complete search history.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

- 2,515,031 A \* 7/1950 Black, Jr. .... H04R 1/38  
381/358
- 3,329,235 A \* 7/1967 Shaper ..... H04R 1/26  
181/147
- 3,371,742 A \* 3/1968 Norton ..... H04R 1/345  
181/153
- 3,393,766 A \* 7/1968 Mitchell ..... H04R 1/20  
381/300
- 3,443,660 A \* 5/1969 Olson ..... H04R 1/2857  
381/353
- D220,629 S \* 5/1971 Shimizu ..... D14/214

- D228,920 S \* 10/1973 Lida ..... D14/214
- D230,997 S \* 3/1974 Shannon ..... D14/211
- D265,822 S \* 8/1982 Hartwein ..... D14/211
- D265,990 S \* 8/1982 Hartwein ..... D14/214
- D270,444 S \* 9/1983 Matsuda ..... D14/214
- 4,574,906 A \* 3/1986 White ..... H04R 1/26  
181/145
- 4,580,654 A \* 4/1986 Hale ..... H04R 1/02  
181/146
- D292,702 S \* 11/1987 White ..... D14/212
- D303,970 S \* 10/1989 Collins ..... D14/216
- D305,893 S \* 2/1990 Maloney ..... D14/215
- D328,901 S \* 8/1992 Haruyama ..... D14/216
- D345,750 S \* 4/1994 Arai ..... D16/200

(Continued)

**FOREIGN PATENT DOCUMENTS**

- CA 180008 \* 4/2019
- EM 007954706-0001 \* 5/2020
- WO D077733-016 \* 10/2011

*Primary Examiner* — Paula Allen Greene

(74) *Attorney, Agent, or Firm* — ZANIP

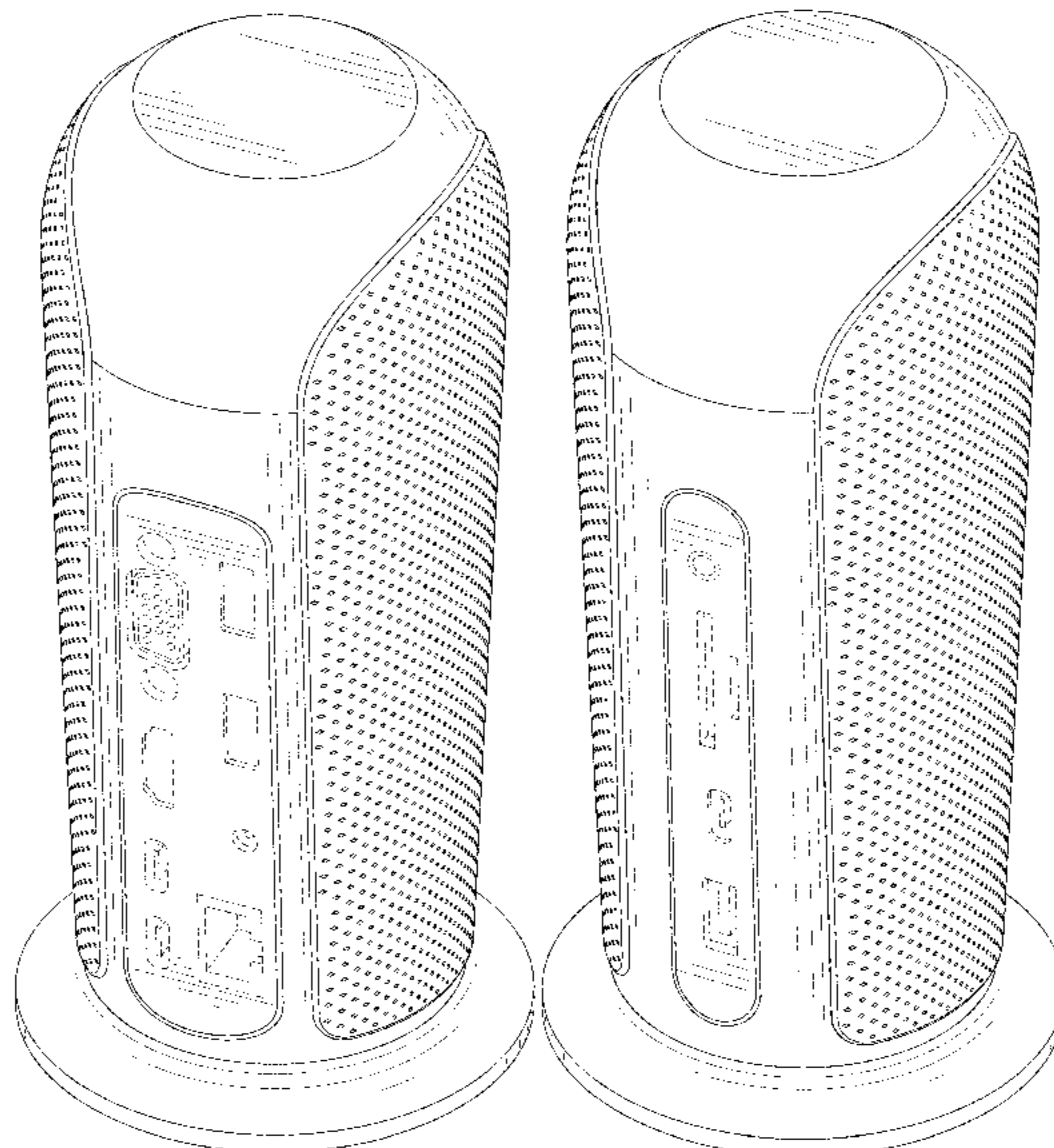
(57) **CLAIM**

The ornamental design for a speaker, as shown and described.

**DESCRIPTION**

FIG. 1 is a first perspective view of a speaker showing my design;  
 FIG. 2 is a second perspective view thereof;  
 FIG. 3 is a front view thereof;  
 FIG. 4 is a back view thereof;  
 FIG. 5 is a left side view thereof;  
 FIG. 6 is a right side view thereof;  
 FIG. 7 is a top view thereof; and,  
 FIG. 8 is a bottom view thereof.  
 The broken lines shown in the drawings depict portions of the speaker in which the design is embodied that form no part of the claimed design.

**1 Claim, 8 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D354,750 S \* 1/1995 Lewis ..... D14/211  
 D360,635 S \* 7/1995 Mark ..... D14/212  
 D362,441 S \* 9/1995 Mark ..... D14/216  
 D364,165 S \* 11/1995 Esslinger ..... D14/213  
 D364,871 S \* 12/1995 Esslinger ..... D14/211  
 D435,540 S \* 12/2000 Peng ..... D14/216  
 D457,875 S \* 5/2002 Joe ..... D14/211  
 D475,991 S \* 6/2003 Hisatsune ..... D14/211  
 D491,920 S \* 6/2004 Tsuge ..... D14/211  
 D494,565 S \* 8/2004 Yao ..... D14/211  
 D512,986 S \* 12/2005 Lee ..... D14/211  
 D534,525 S \* 1/2007 Peng ..... D14/216  
 D575,770 S \* 8/2008 Lewis ..... D14/216  
 D615,962 S \* 5/2010 Lee ..... D14/188  
 D619,119 S \* 7/2010 Graber ..... D14/216  
 D658,159 S \* 4/2012 Janky ..... D14/214  
 D659,120 S \* 5/2012 Kim ..... D14/211  
 D680,517 S \* 4/2013 Khoo ..... D14/213

D686,186 S \* 7/2013 Kaneko ..... D14/168  
 D687,017 S \* 7/2013 Ashcraft ..... D14/216  
 D691,117 S \* 10/2013 Silvera ..... D14/216  
 D697,496 S \* 1/2014 Ashcraft ..... D14/216  
 D723,514 S \* 3/2015 Lukic ..... D14/213  
 D729,777 S \* 5/2015 Ono ..... D14/224  
 D739,397 S \* 9/2015 Akana ..... D14/314  
 D758,347 S \* 6/2016 Hinokio ..... D14/215  
 D765,071 S \* 8/2016 Sun ..... D14/314  
 D766,213 S \* 9/2016 Hinokio ..... D14/216  
 D784,412 S \* 4/2017 Akana ..... D14/496  
 D808,928 S \* 1/2018 Schaal ..... D14/216  
 D810,137 S \* 2/2018 Tsang ..... D14/496  
 10,021,486 B1 \* 7/2018 Brennan ..... H04R 5/02  
 D826,276 S \* 8/2018 Langhammer ..... D14/496  
 D837,182 S \* 1/2019 Elmieh ..... D14/204  
 D839,855 S \* 2/2019 Park ..... D14/216  
 D853,354 S \* 7/2019 Demin ..... D14/211  
 D878,333 S \* 3/2020 Vaclavik ..... D14/209.1  
 D886,788 S \* 6/2020 Wang ..... D14/204  
 2017/0187206 A1 \* 6/2017 Lafountain ..... H02J 7/0044

\* cited by examiner

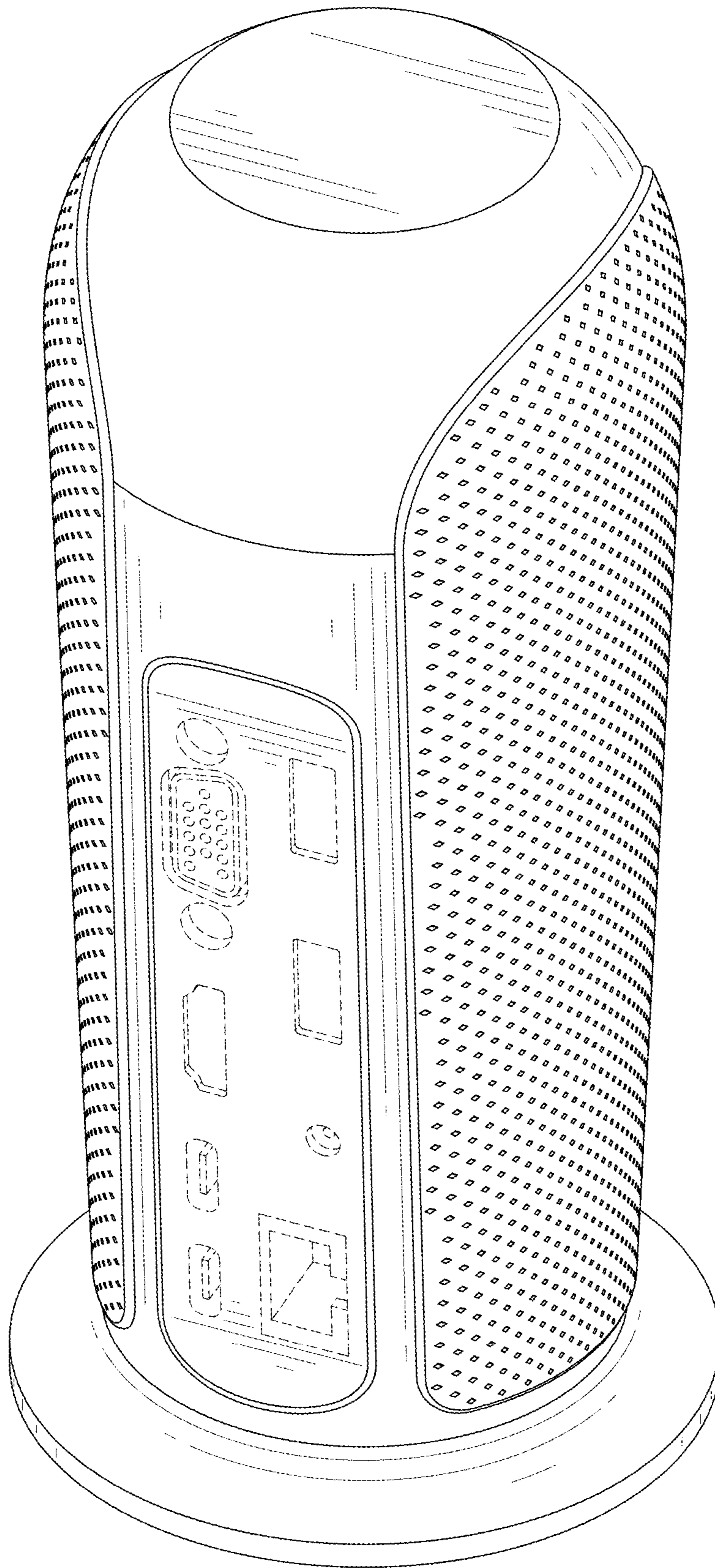


FIG. 1



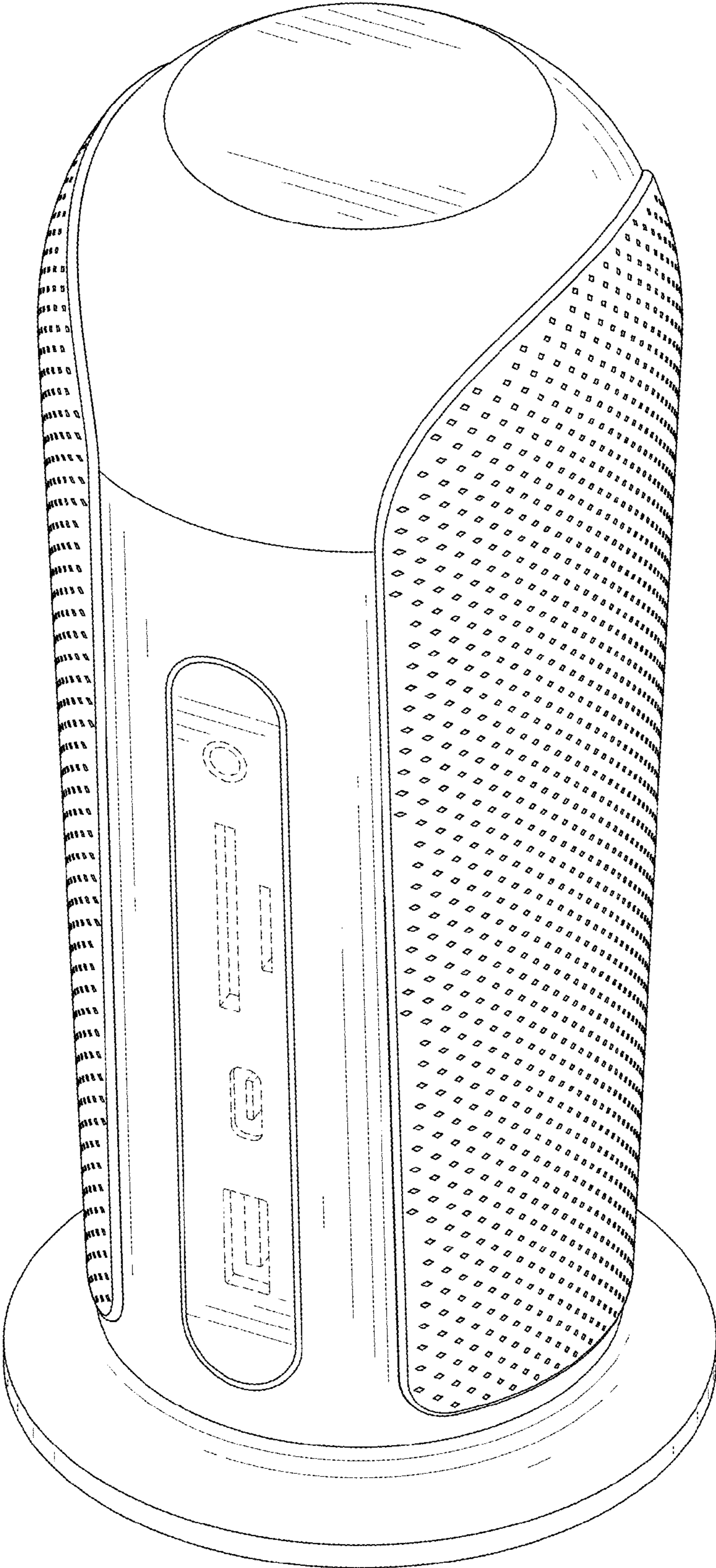


FIG. 2

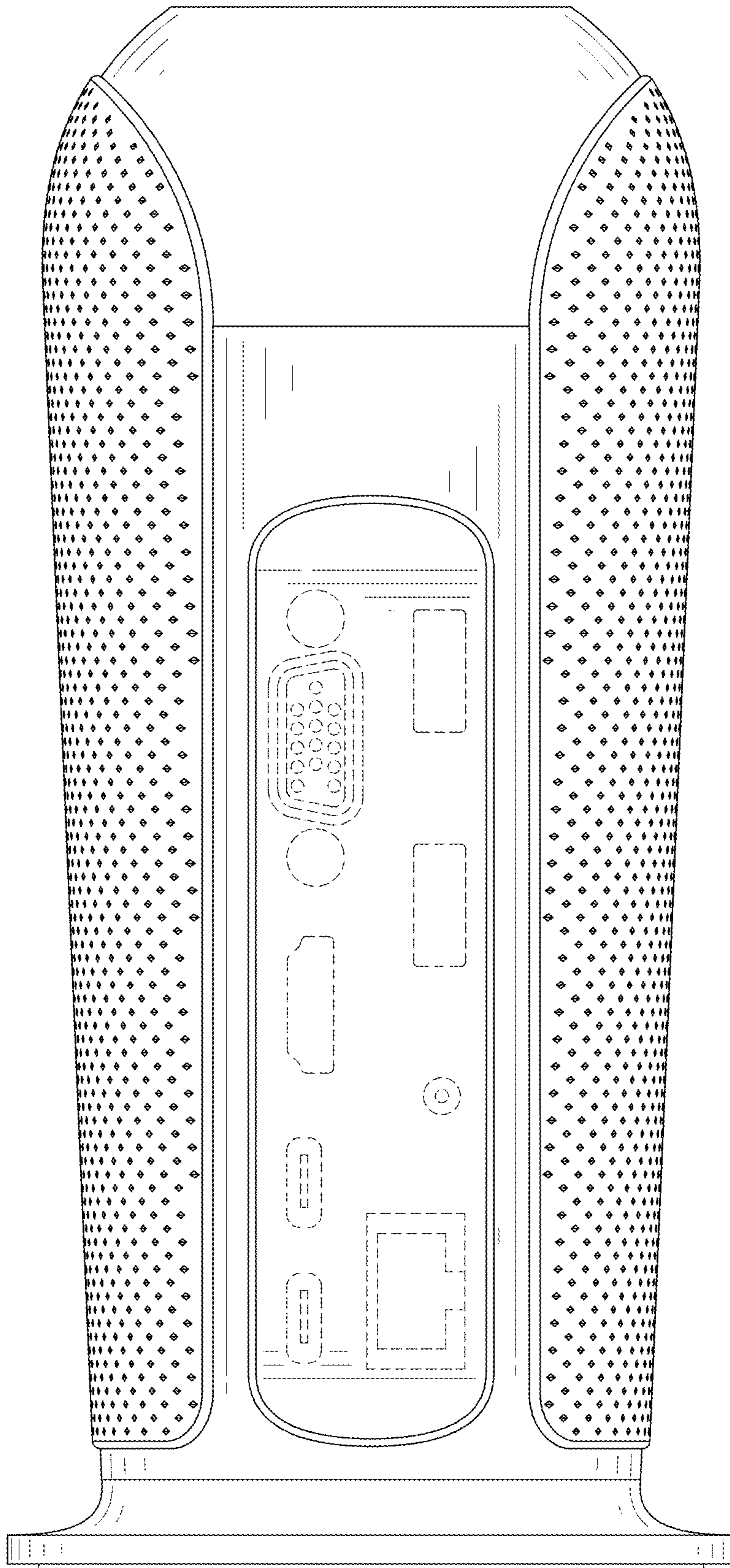


FIG. 3

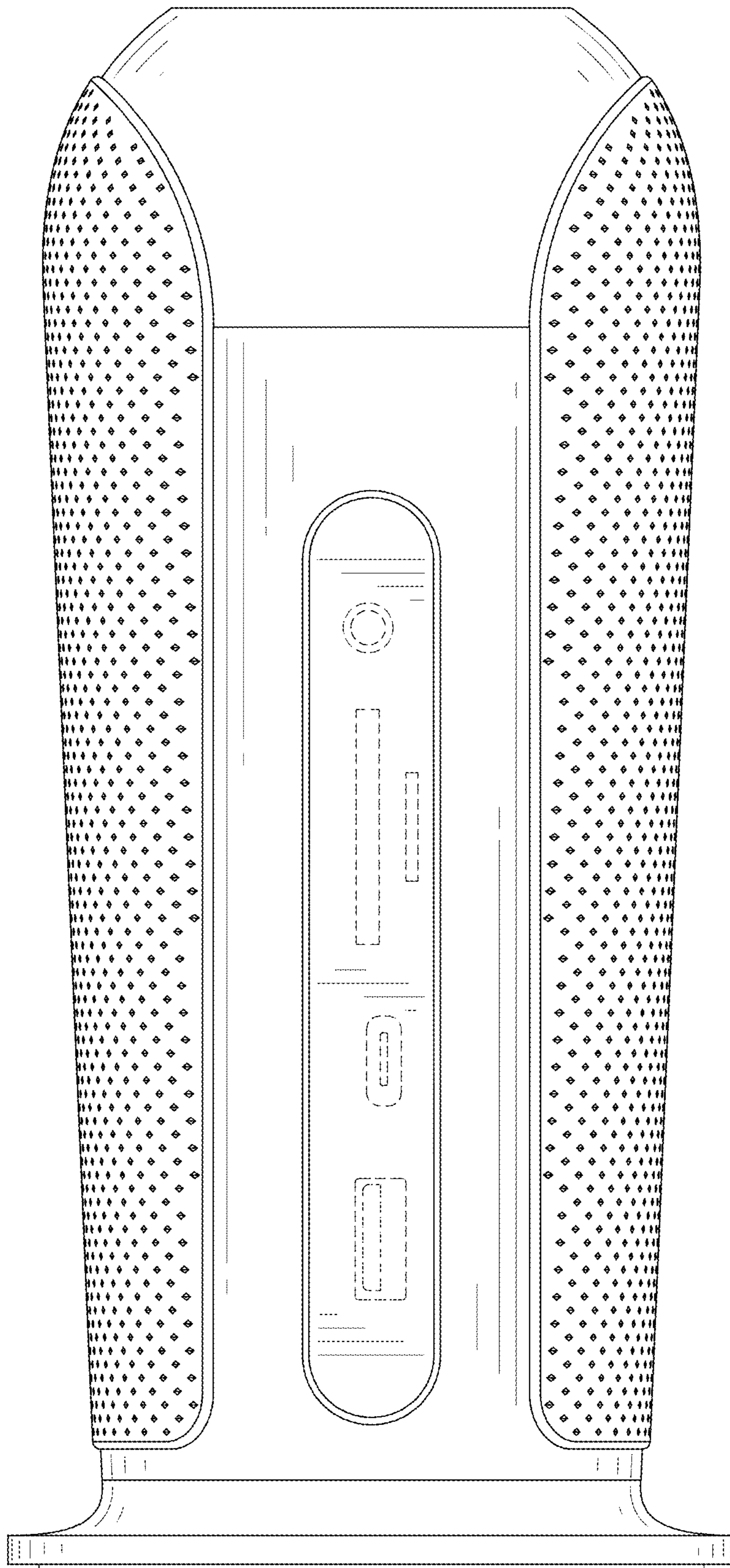


FIG. 4



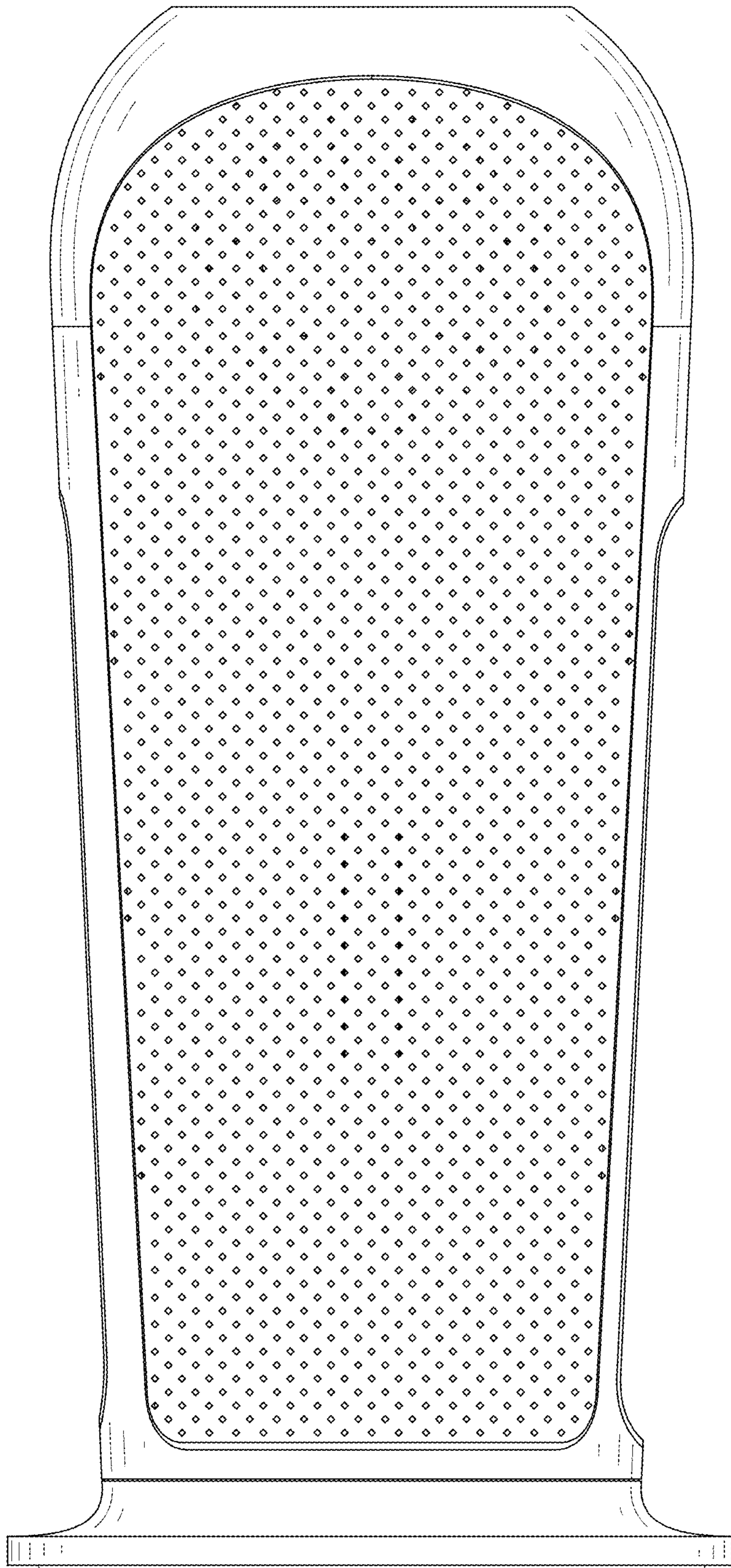


FIG. 5

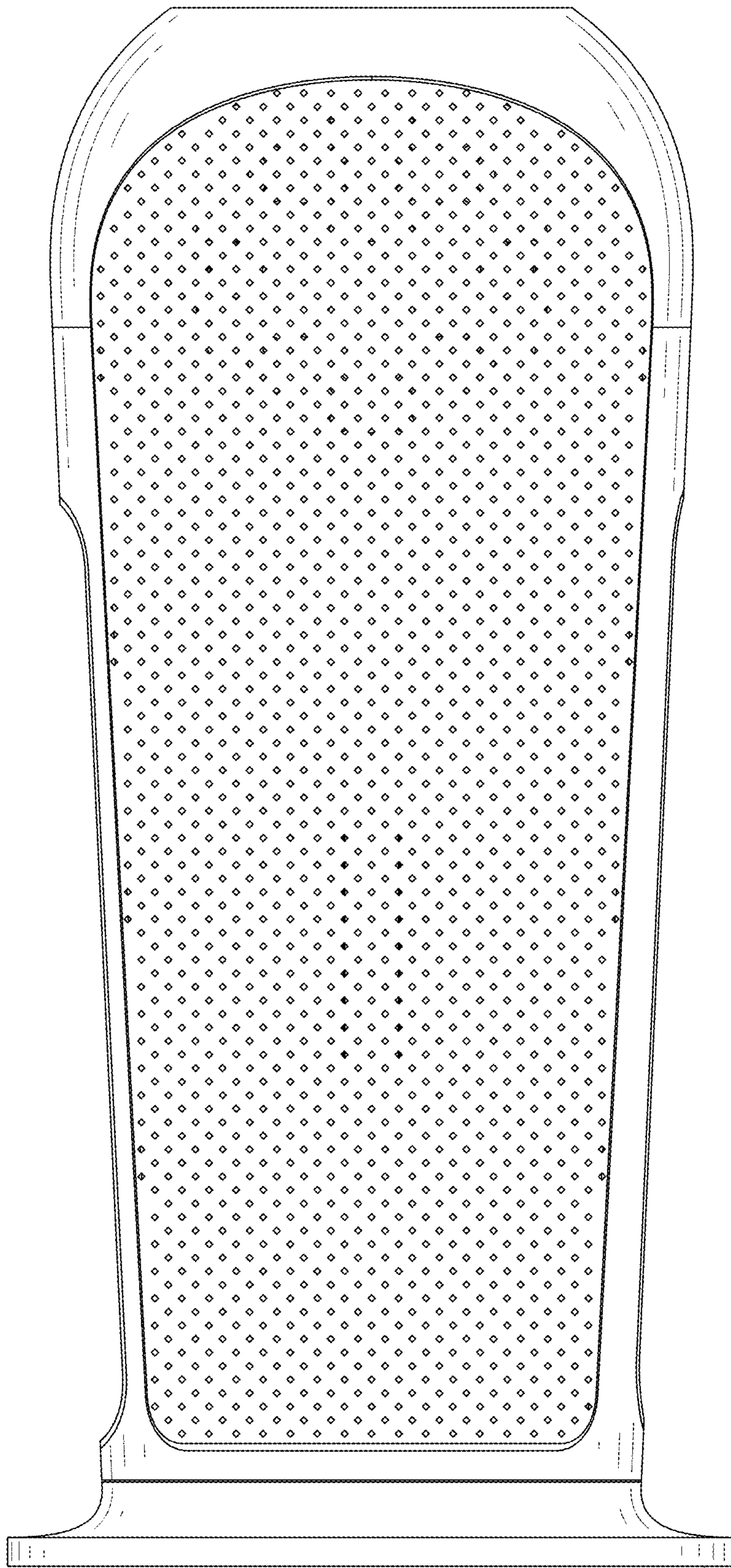


FIG. 6



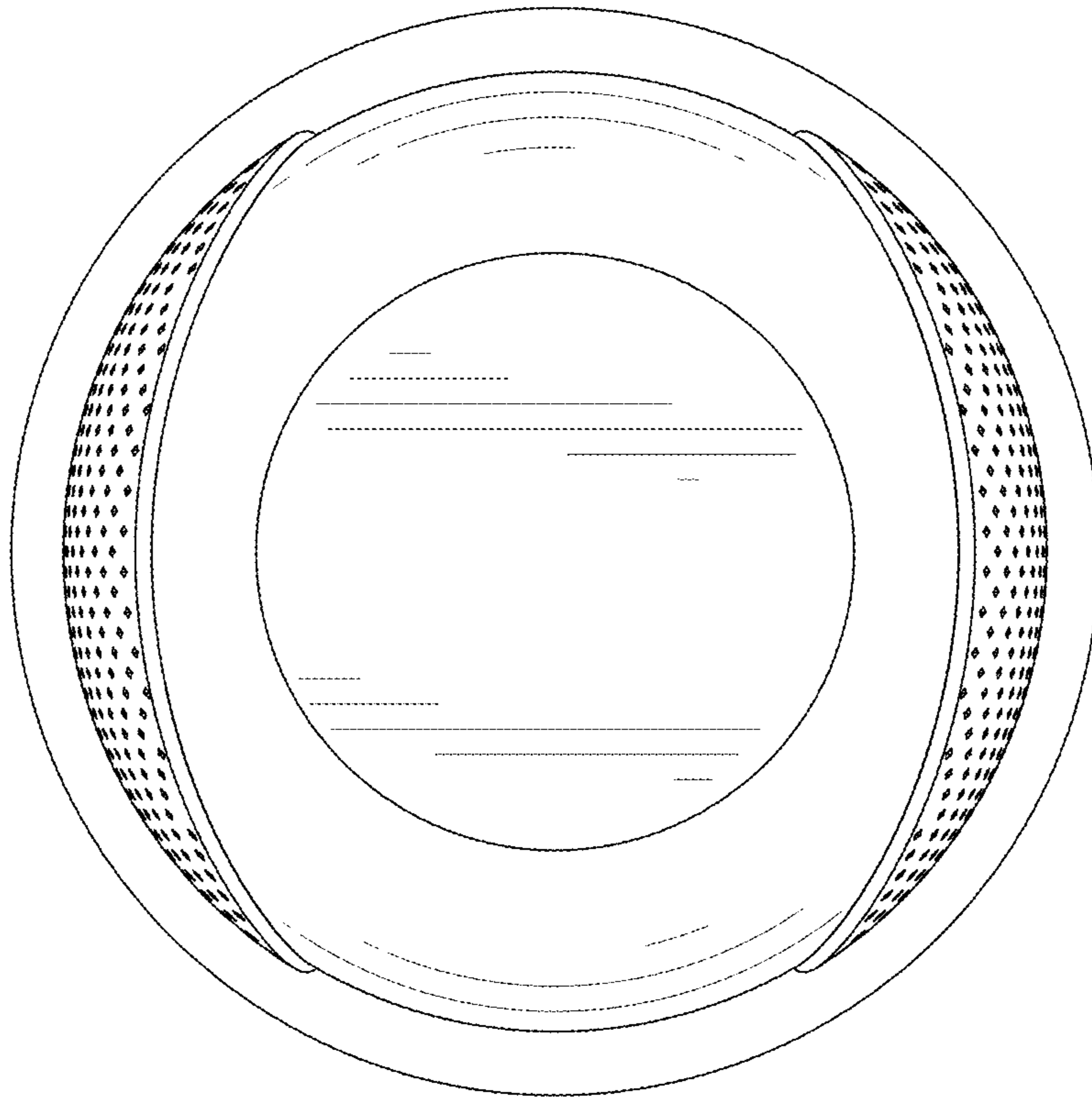


FIG. 7

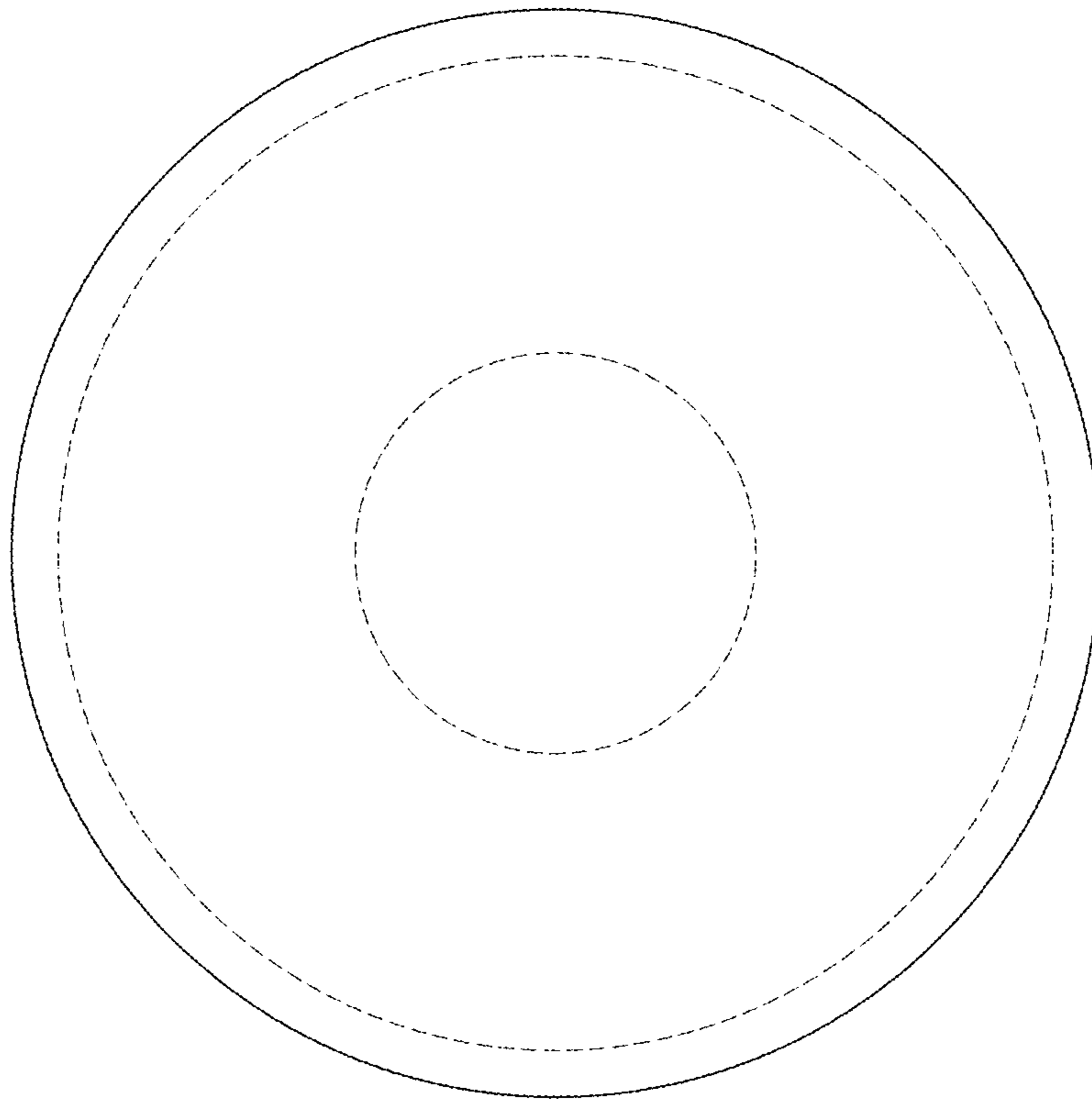


FIG. 8