



US00D909556S

(12) **United States Design Patent** (10) **Patent No.:** **US D909,556 S**  
**Chen et al.** (45) **Date of Patent:** **\*\* Feb. 2, 2021**

(54) **HUMIDIFIER**

(71) Applicant: **MIDEA GROUP CO., LTD.**, Foshan (CN)

(72) Inventors: **Wei Chen**, Foshan (CN); **Sizhan Hong**, Foshan (CN)

(73) Assignee: **MIDEA GROUP CO., LTD.**, Foshan (CN)

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

(21) Appl. No.: **35/507,918**

(22) Filed: **Jul. 1, 2019**

(80) **Hague Agreement Data**

Int. Filing Date: **Jul. 1, 2019**

Int. Reg. No.: **DM/204206**

Int. Reg. Date: **Jul. 1, 2019**

Int. Reg. Pub. Date: **Nov. 29, 2019**

(30) **Foreign Application Priority Data**

Mar. 4, 2019 (CN) ..... 2019 3 0086268

(51) **LOC (13) Cl.** ..... **23-02**

(52) **U.S. Cl.**  
USPC ..... **D23/356**  
CPC ..... **F24F 11/30** (2018.01)

(58) **Field of Classification Search**

USPC ..... D23/332-336, 342, 351-366  
CPC ..... F24F 11/30; F24F 11/62; F24F 2110/10;  
F24F 11/46; F24F 11/56; F24F 2110/00;  
F24F 11/58; F24F 2140/60; F24F 11/52;  
F24F 11/32; F24F 11/63; F24F 11/64;  
F24F 2006/008; F24F 3/14; F24F 11/59;  
F24F 11/70; F24F 11/83; F24F 13/28;  
F24F 1/0007; F24F 2110/20; F24F  
2120/10; F24F 2120/20; F24F 2140/50;  
F24F 11/0001; F24F 11/54; F24F 11/61;  
F24F 11/76; F24F 11/85; F24F 11/88;  
F24F 11/89; F24F 13/20; F24F 13/24;

F24F 1/02; F24F 1/022; F24F 1/08; F24F  
1/12; F24F 1/32; F24F 2006/046; F24F  
2110/70; F24F 2120/12; F24F 2120/14;  
F24F 2130/00; F24F 2130/10; F24F  
2130/30; F24F 2221/12; F24F 3/147;  
F24F 3/1603; F24F 5/0035; F24F 6/02;  
F24F 6/04; F24F 6/043; F24F 6/10; F24F  
6/12; F24F 6/14; F24F 7/08

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D462,754 S *	9/2002	Briggs .....	D23/364
D536,433 S *	2/2007	Murai .....	D23/364
D537,512 S *	2/2007	Nakajima .....	D23/359
D549,308 S *	8/2007	Chiu .....	D23/333
D550,343 S *	9/2007	Chen .....	D23/364
D557,783 S *	12/2007	Yoo .....	D23/359
D572,352 S *	7/2008	Chiu .....	D23/333
D575,857 S *	8/2008	Chiu .....	D23/333
D578,629 S *	10/2008	Yoo .....	D23/333
D578,632 S *	10/2008	Chen .....	D23/364
D586,451 S *	2/2009	Murai .....	D23/364
D587,794 S *	3/2009	Yoo .....	D23/359
D589,132 S *	3/2009	Chiu .....	D23/333
D617,437 S *	6/2010	Matsuzaki .....	D23/364
D635,655 S *	4/2011	Chen .....	D23/364

(Continued)

*Primary Examiner* — Richard E Chilcot

(57) **CLAIM**

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

**DESCRIPTION**

FIG. 3.1 is a front elevation view of a humidifier, showing our new design;

FIG. 3.2 is a rear elevation view thereof;

FIG. 3.3 is a left elevation view thereof;

FIG. 3.4 is a right elevation view thereof;

FIG. 3.5 is a top plan view thereof;

(Continued)

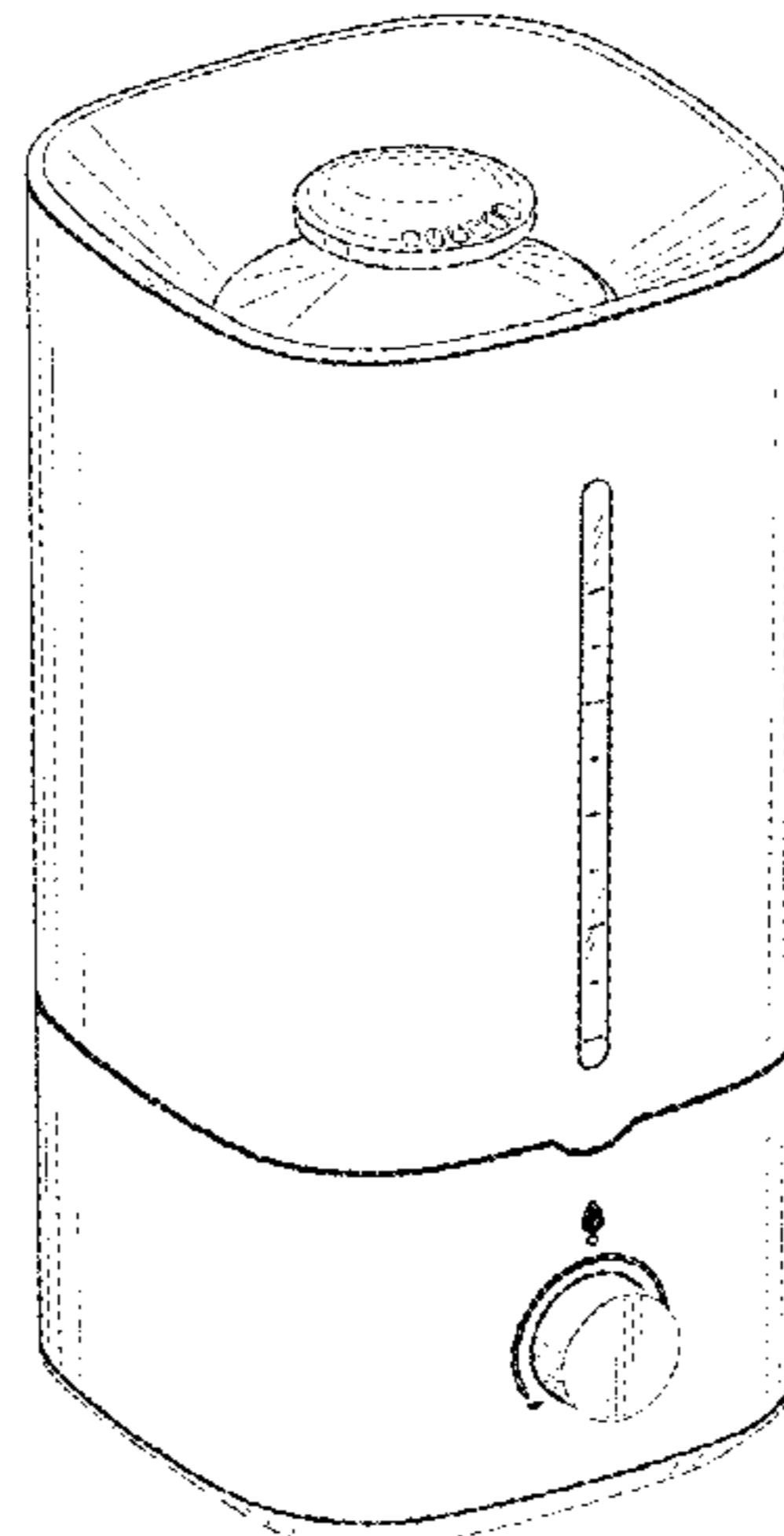


FIG. 3.6 is a bottom plan view thereof; and  
 FIG. 3.7 is a front perspective view thereof.

**1 Claim, 7 Drawing Sheets**

(56)

**References Cited**

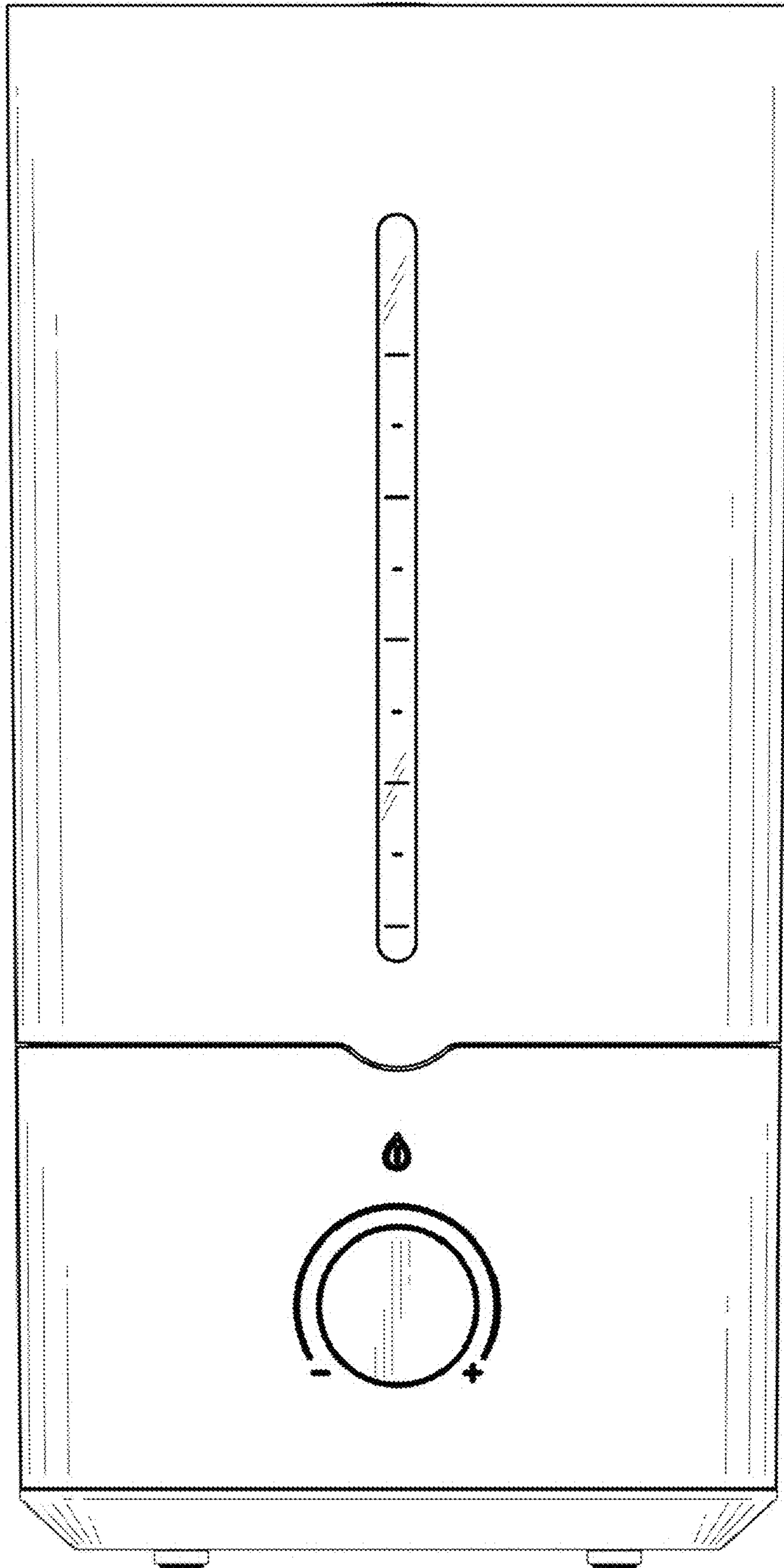
U.S. PATENT DOCUMENTS

D656,597 S \* 3/2012 Liu ..... D23/356  
 D662,576 S \* 6/2012 Shore ..... D23/364  
 D664,247 S \* 7/2012 Paterson ..... D23/364  
 D683,439 S \* 5/2013 Choi ..... D23/364  
 D725,253 S \* 3/2015 Choi ..... D23/359  
 D737,944 S \* 9/2015 Shore ..... D23/364  
 D744,077 S \* 11/2015 Yasukochi ..... D23/364  
 D791,297 S \* 7/2017 Ljungstrom ..... D23/364  
 9,694,369 B2 \* 7/2017 Engberg ..... B03C 3/08  
 D797,914 S \* 9/2017 Nygren ..... D23/364

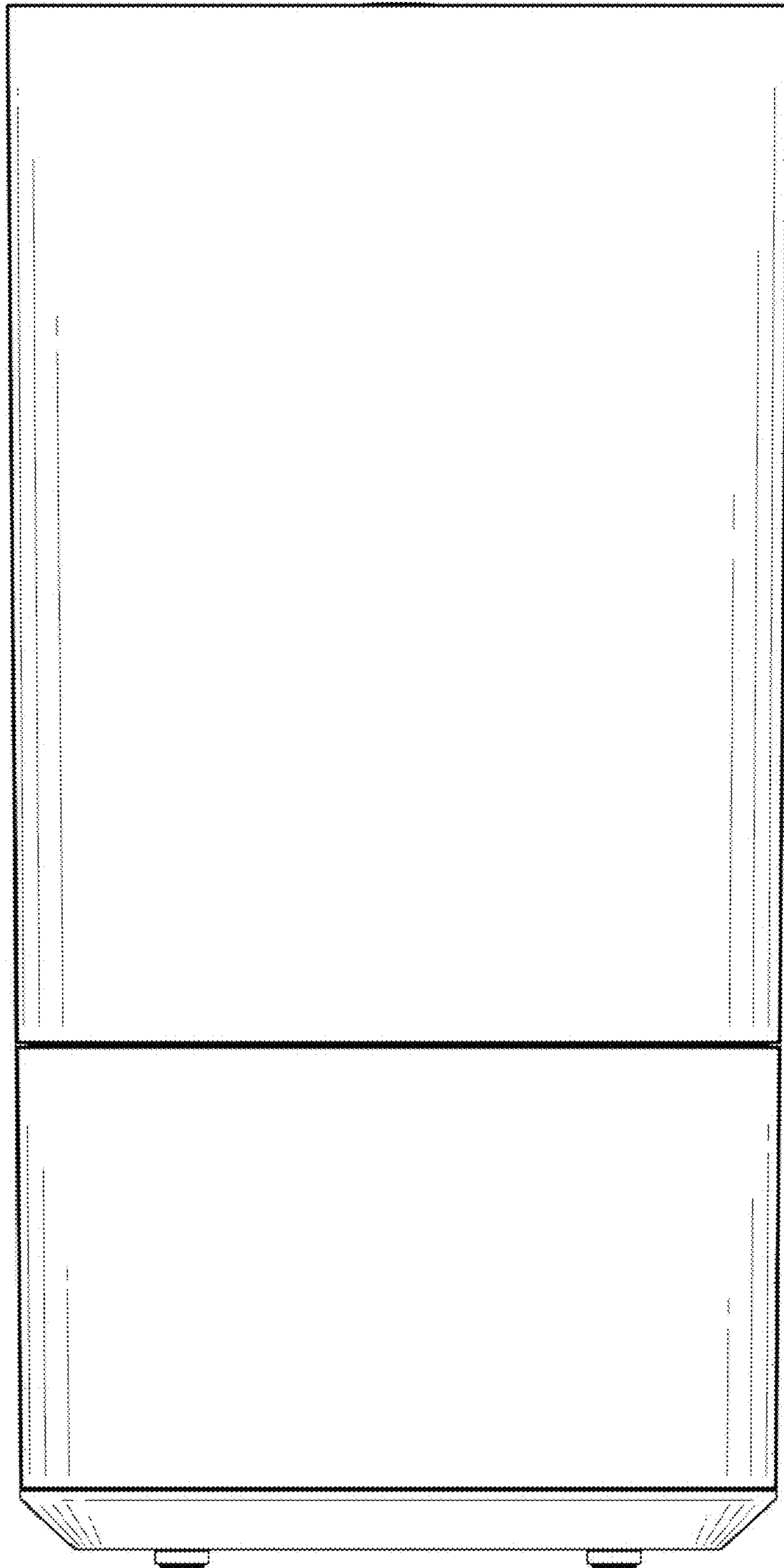
D798,430 S \* 9/2017 Nord ..... D23/364  
 D799,016 S \* 10/2017 Su ..... D23/364  
 D803,369 S \* 11/2017 Kim ..... D23/364  
 D806,844 S \* 1/2018 Kim ..... D23/364  
 D806,845 S \* 1/2018 Kim ..... D23/364  
 D807,998 S \* 1/2018 Kim ..... D23/364  
 9,919,252 B2 \* 3/2018 Wennerstrom ..... B01D 46/0032  
 D820,422 S \* 6/2018 Kim ..... D23/364  
 D821,556 S \* 6/2018 Shore ..... D23/364  
 D835,765 S \* 12/2018 Chen ..... D23/364  
 D837,354 S \* 1/2019 Su ..... D23/364  
 D862,673 S \* 10/2019 Tang ..... D23/364  
 D863,524 S \* 10/2019 Shin ..... D23/364  
 D865,148 S \* 10/2019 Yoon ..... D23/364  
 D869,626 S \* 12/2019 Reisenberger ..... D23/364  
 D892,289 S \* 8/2020 Baillie ..... D23/356  
 D898,886 S \* 10/2020 Israel ..... D23/356  
 D900,989 S \* 11/2020 Liu ..... D23/356  
 2010/0293981 A1 \* 11/2010 Jang ..... F24F 13/222  
 62/291  
 2018/0172290 A1 \* 6/2018 Zhou ..... F24F 13/20

\* cited by examiner

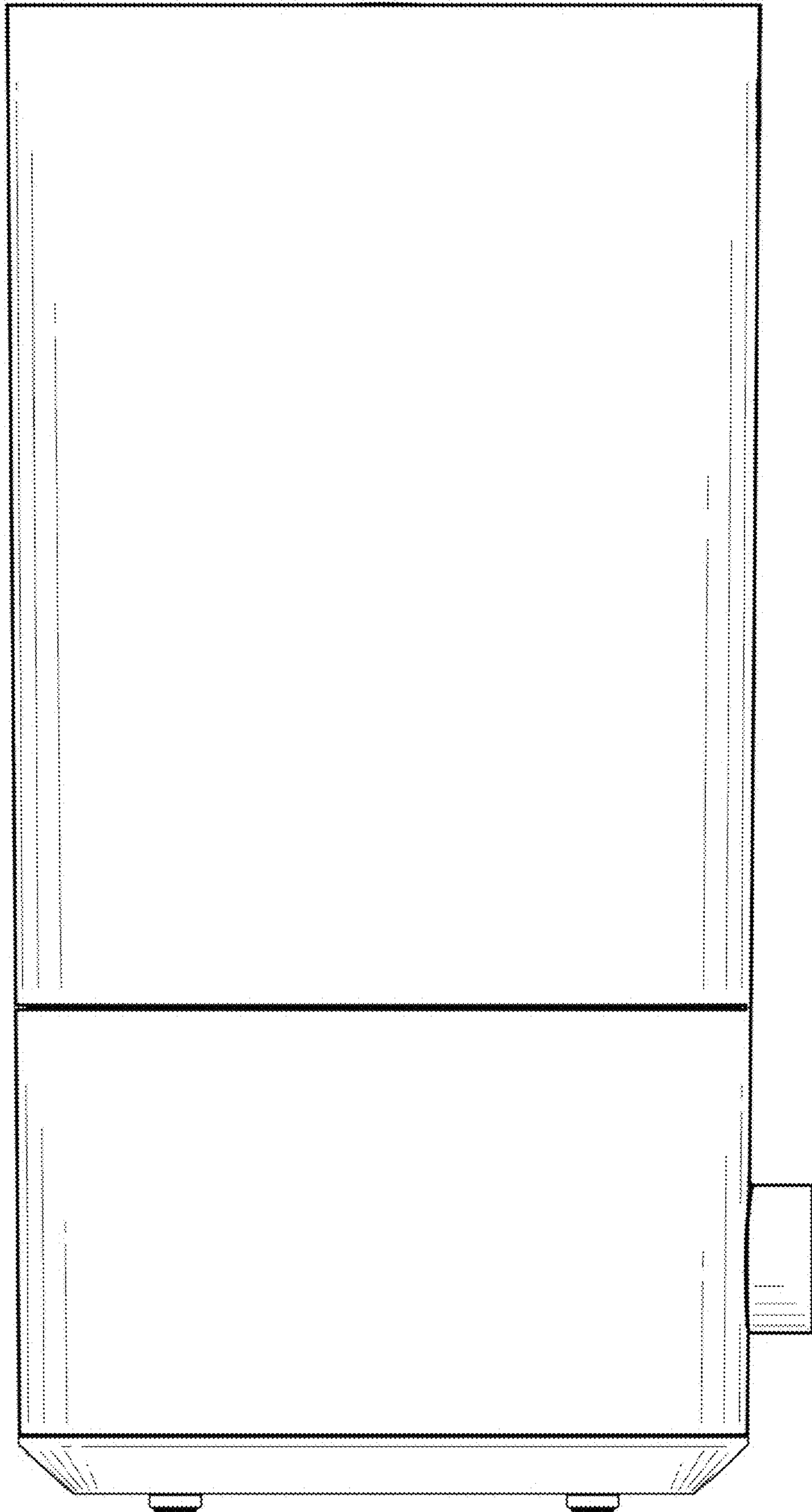
3.1



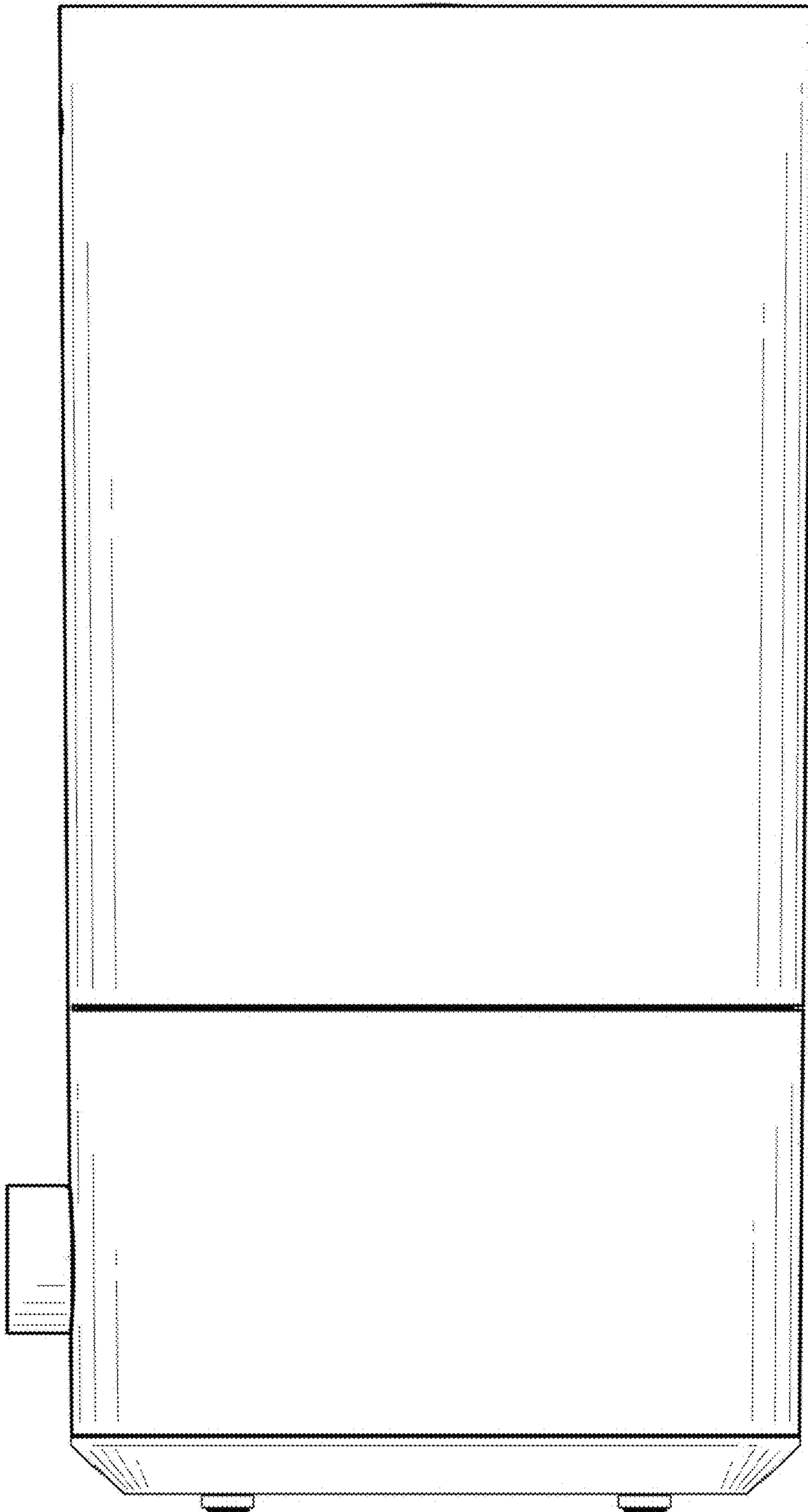
3.2



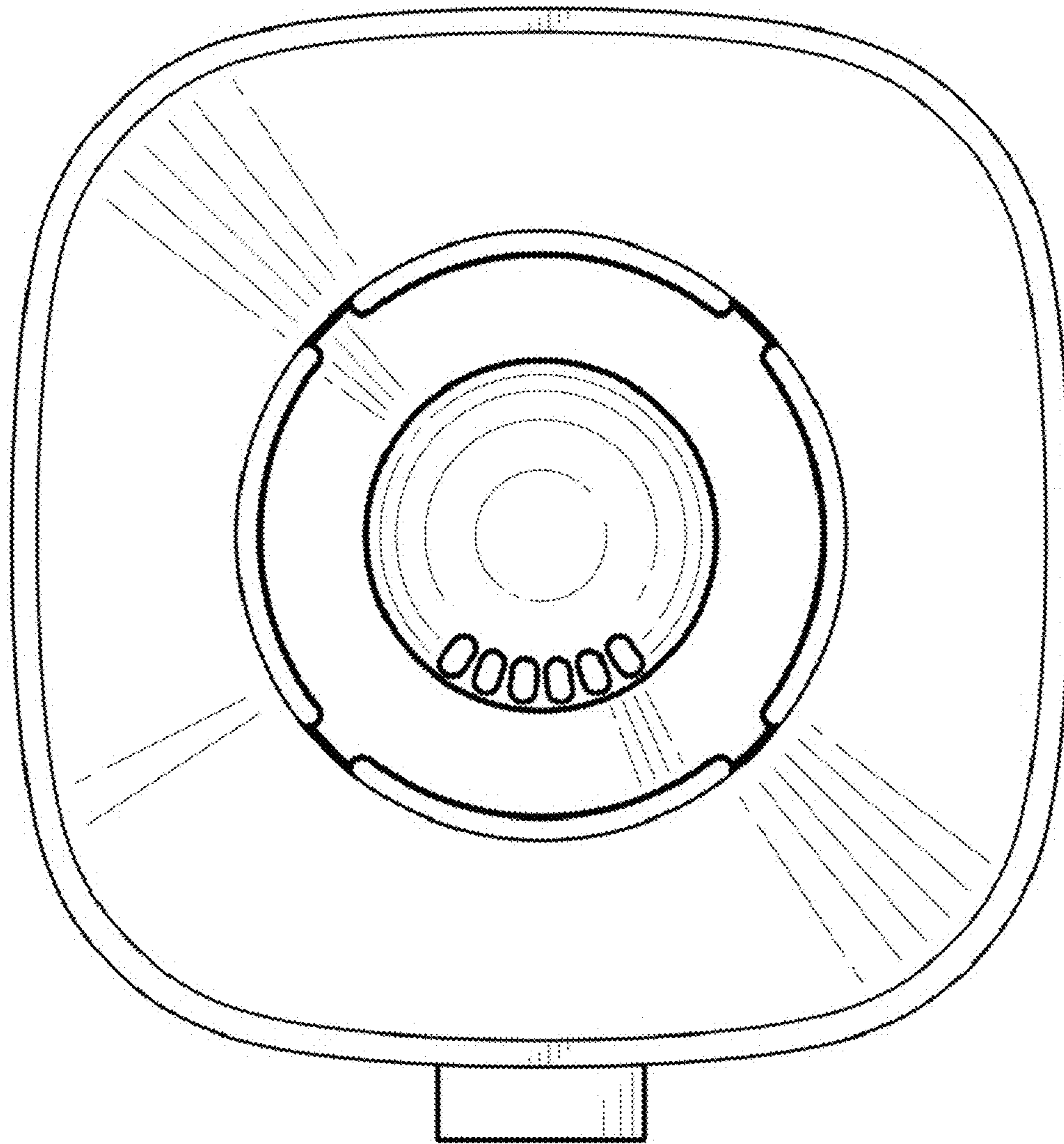
3.3



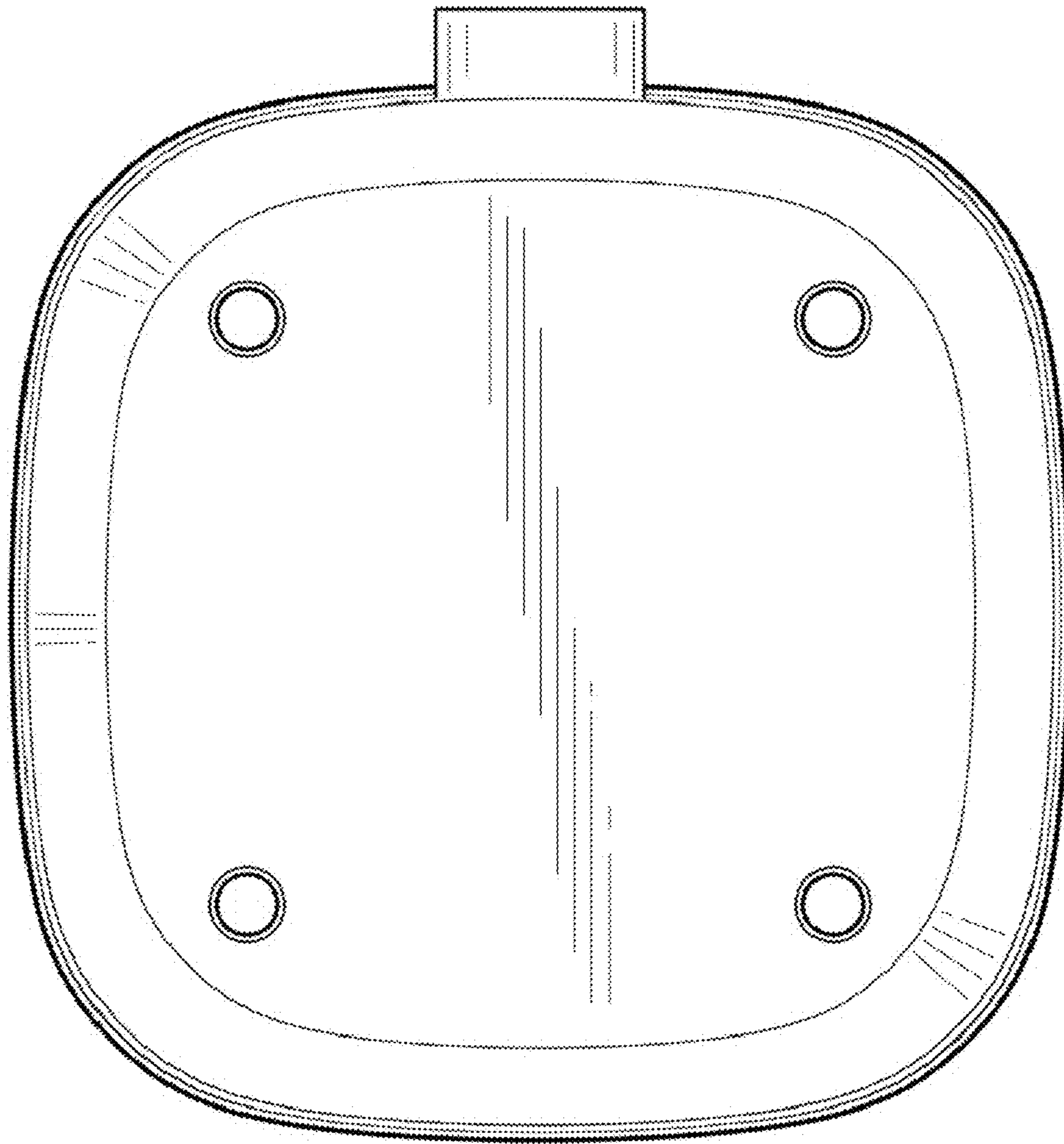
3.4



3.5



3.6





3.7

