



US00D927663S

(12) **United States Design Patent** (10) **Patent No.:** **US D927,663 S**
Chen et al. (45) **Date of Patent:** **** Aug. 10, 2021**

(54) **HUMIDIFIER**

(71) Applicant: **GREE ELECTRIC APPLIANCES, INC. OF ZHUHAI**, Guangdong (CN)

(72) Inventors: **Shixiong Chen**, Guangdong (CN); **Sha Li**, Guangdong (CN); **Nanfei Chen**, Guangdong (CN); **Qiding Liu**, Guangdong (CN); **Yan Ruan**, Guangdong (CN); **Linfeng Huang**, Guangdong (CN); **Yanli Huang**, Guangdong (CN); **Yuting Fan**, Guangdong (CN)

(73) Assignee: **Gree Electric Appliances, Inc. of Zhuhai**, Zhuhai (CN)

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

(21) Appl. No.: **29/759,029**

(22) Filed: **Nov. 19, 2020**

Related U.S. Application Data

(62) Division of application No. 35/508,191, filed on Sep. 2, 2019 (U.S. filing date under 35 U.S.C. 384), and (Continued)

(51) **LOC (13) Cl.** **23-04**

(52) **U.S. Cl.**
USPC **D23/351**

(58) **Field of Classification Search**
USPC D23/333, 335, 341, 342, 351, 353-359, D23/364, 365, 370, 385-388, 393
CPC .. F24F 11/30; F24F 11/52; F24F 11/46; F24F 11/83; F24F 2110/10; F24F 3/14; F24F 11/001; F24F 11/54; F24F 11/56; F24F 11/58; F24F 11/62; F24F 11/64; F24F 11/66; F24F 11/70; F24F 11/72; F24F 11/74; F24F 11/76; F24F 11/77; F24F 11/84; F24F 11/85; F24F 11/86; F24F 11/89; F24F 13/20; F24F 13/28; F24F

1/022; F24F 1/38; F24F 2006/008; F24F 2006/046; F24F 2110/00; F24F 2110/40; F24F 2110/50; F24F 2110/64; F24F 2120/10; F24F 2140/12; F24F 2140/40; F24F 2140/50; F24F 2221/54; F24F 3/044; F24F 3/0442; F24F 3/0444; F24F 3/08; F24F 5/00; F24F 5/0003; F24F 6/04; F24F 6/16; F24F 7/007; F24F 7/10

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D580,537 S * 11/2008 Niki D23/351
D624,167 S * 9/2010 Mishiro D23/351
(Continued)

Primary Examiner — Richard E Chilcot

(74) *Attorney, Agent, or Firm* — McAndrews, Held & Malloy, Ltd.

(57) **CLAIM**

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

DESCRIPTION

The patent or application file contains at least one drawing executed in color. Copies of this patent or patent application publication with color drawing(s) will be provided by the Office upon request and payment of the necessary fee.

FIG. 1 is a front view of a humidifier showing our new design;

FIG. 2 is a back view thereof;

FIG. 3 is a left view thereof;

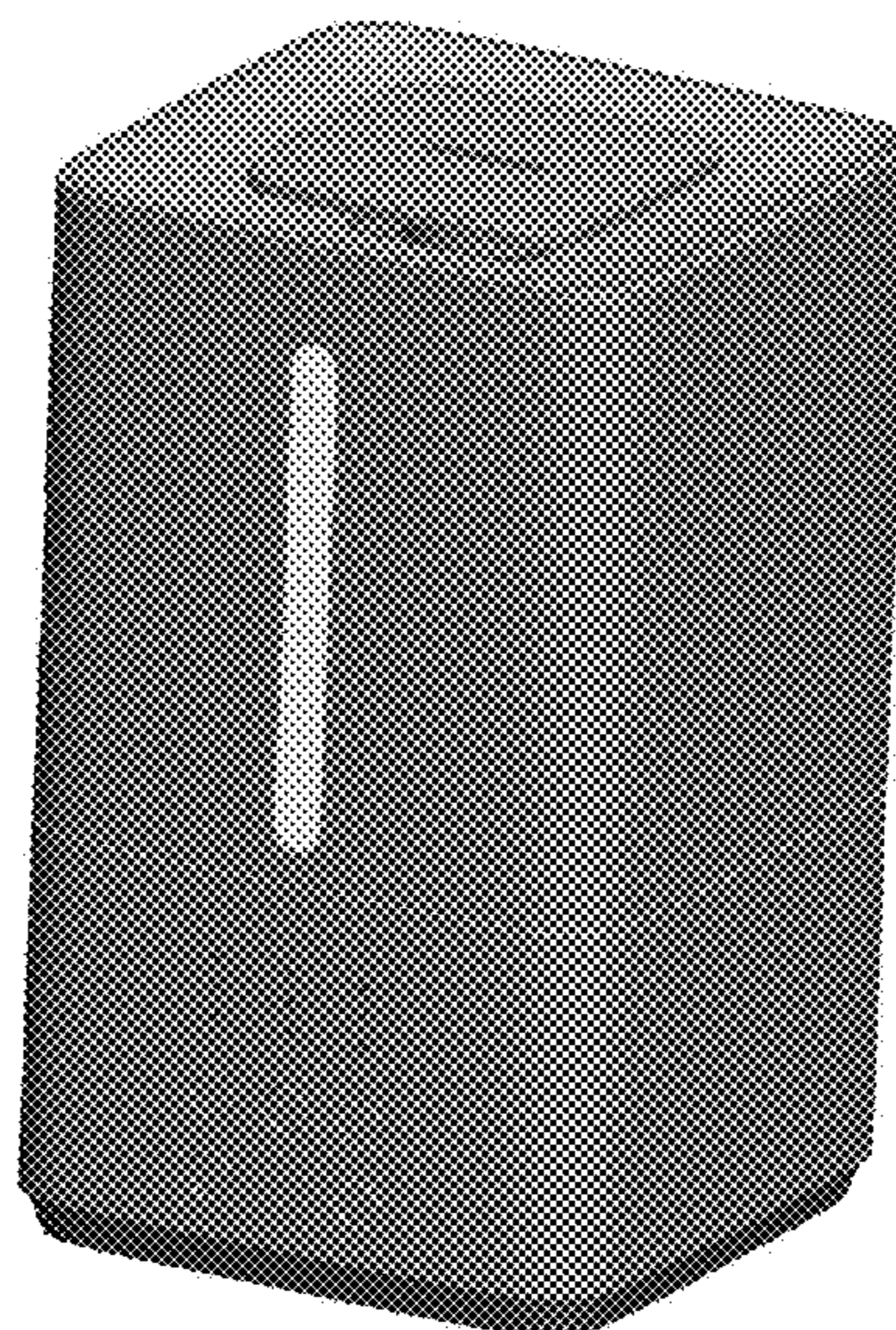
FIG. 4 is a right view thereof;

FIG. 5 is a top view thereof;

FIG. 6 is a bottom view thereof; and,

FIG. 7 is a perspective view thereof.

1 Claim, 7 Drawing Sheets
(7 of 7 Drawing Sheet(s) Filed in Color)



Related U.S. Application Data

having an international filing date of Sep. 2, 2019,
now Pat. No. Des. 916,261.

- (52) **U.S. Cl.**
CPC *F24F 11/30* (2018.01)

(56) **References Cited**

U.S. PATENT DOCUMENTS

| | | | | |
|--------------|---------|----------|-------|---------|
| D685,072 S * | 6/2013 | Li | ..... | D23/351 |
| D690,679 S * | 10/2013 | Chang | ..... | D14/204 |
| D701,295 S * | 3/2014 | Chouji | ..... | D23/351 |
| D706,914 S * | 6/2014 | Chen | ..... | D23/351 |
| D720,444 S * | 12/2014 | Chouji | ..... | D23/351 |
| D720,842 S * | 1/2015 | Chouji | ..... | D23/351 |
| D726,295 S * | 4/2015 | Kim | ..... | D23/351 |
| D735,308 S * | 7/2015 | Chen | ..... | D23/351 |
| D764,645 S * | 8/2016 | Lee | ..... | D23/351 |
| D764,646 S * | 8/2016 | Miyazaki | ..... | D23/351 |
| D766,412 S * | 9/2016 | Lee | ..... | D23/351 |
| D774,632 S * | 12/2016 | Park | ..... | D23/351 |
| D802,108 S * | 11/2017 | Birchler | ..... | D23/351 |
| D824,502 S * | 7/2018 | Kudo | ..... | D23/351 |
| D827,798 S * | 9/2018 | Guan | ..... | D23/351 |
| D855,166 S * | 7/2019 | Bae | ..... | D23/351 |
| D873,398 S * | 1/2020 | Seo | ..... | D23/364 |

* cited by examiner



FIG. 1

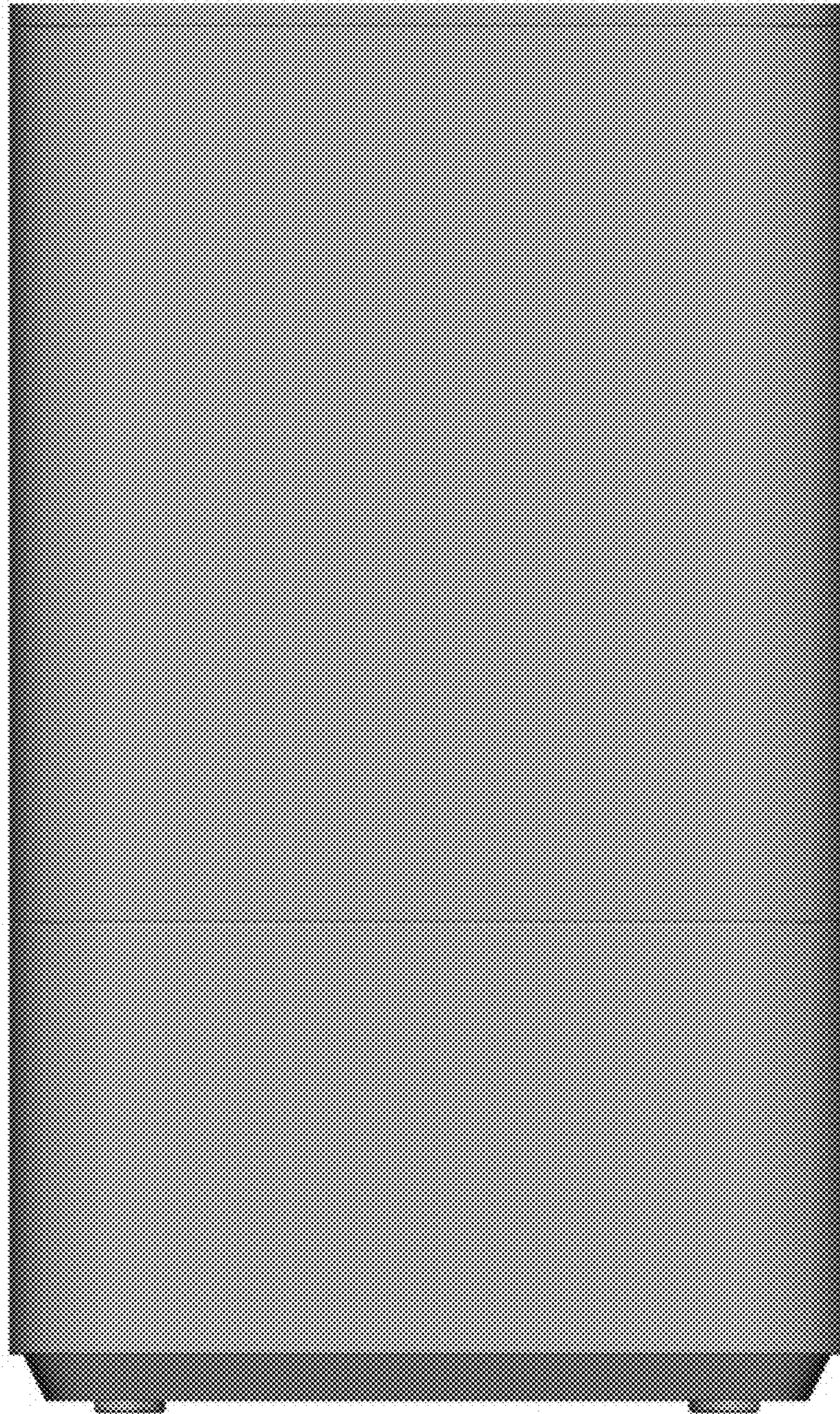


FIG. 2

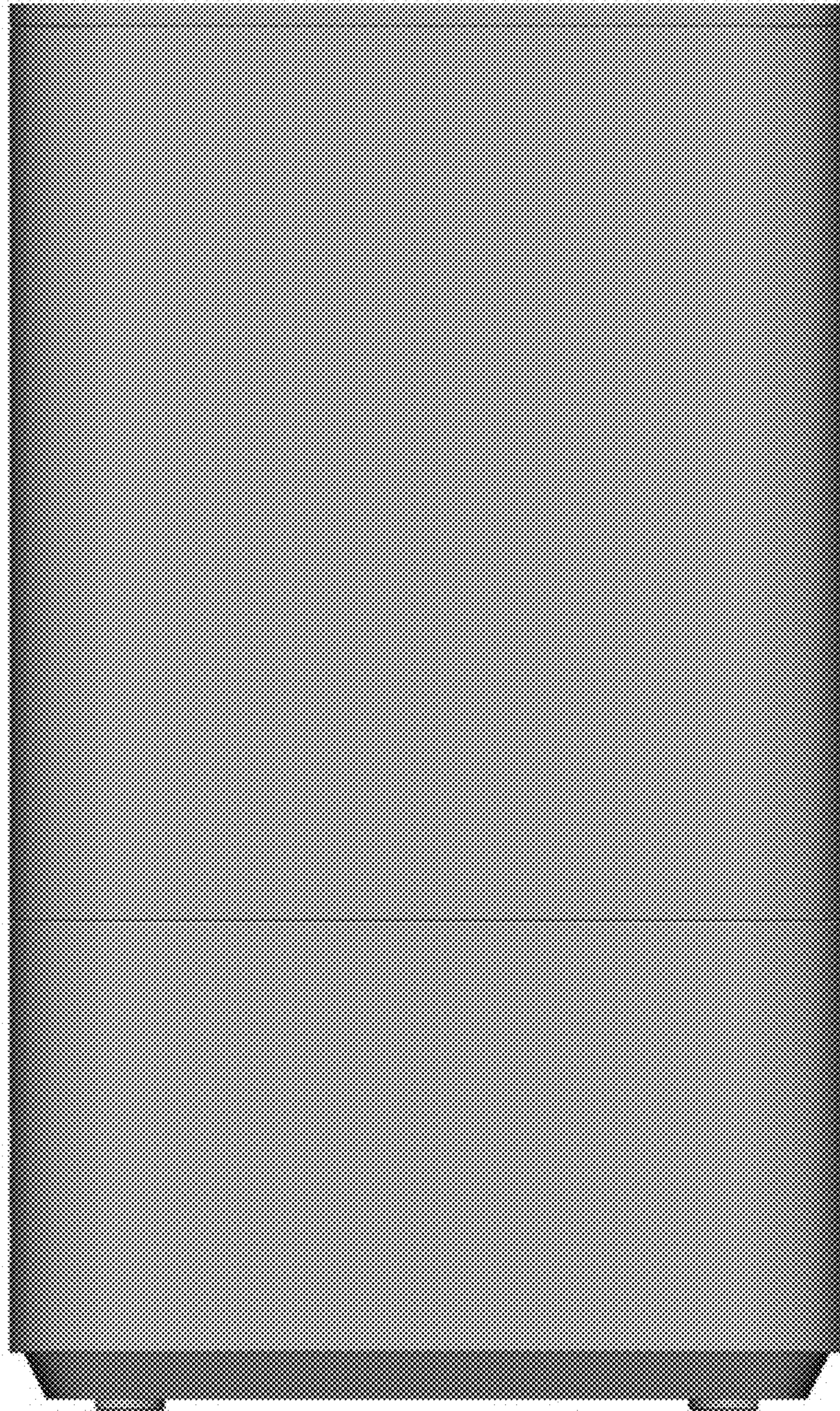


FIG. 3

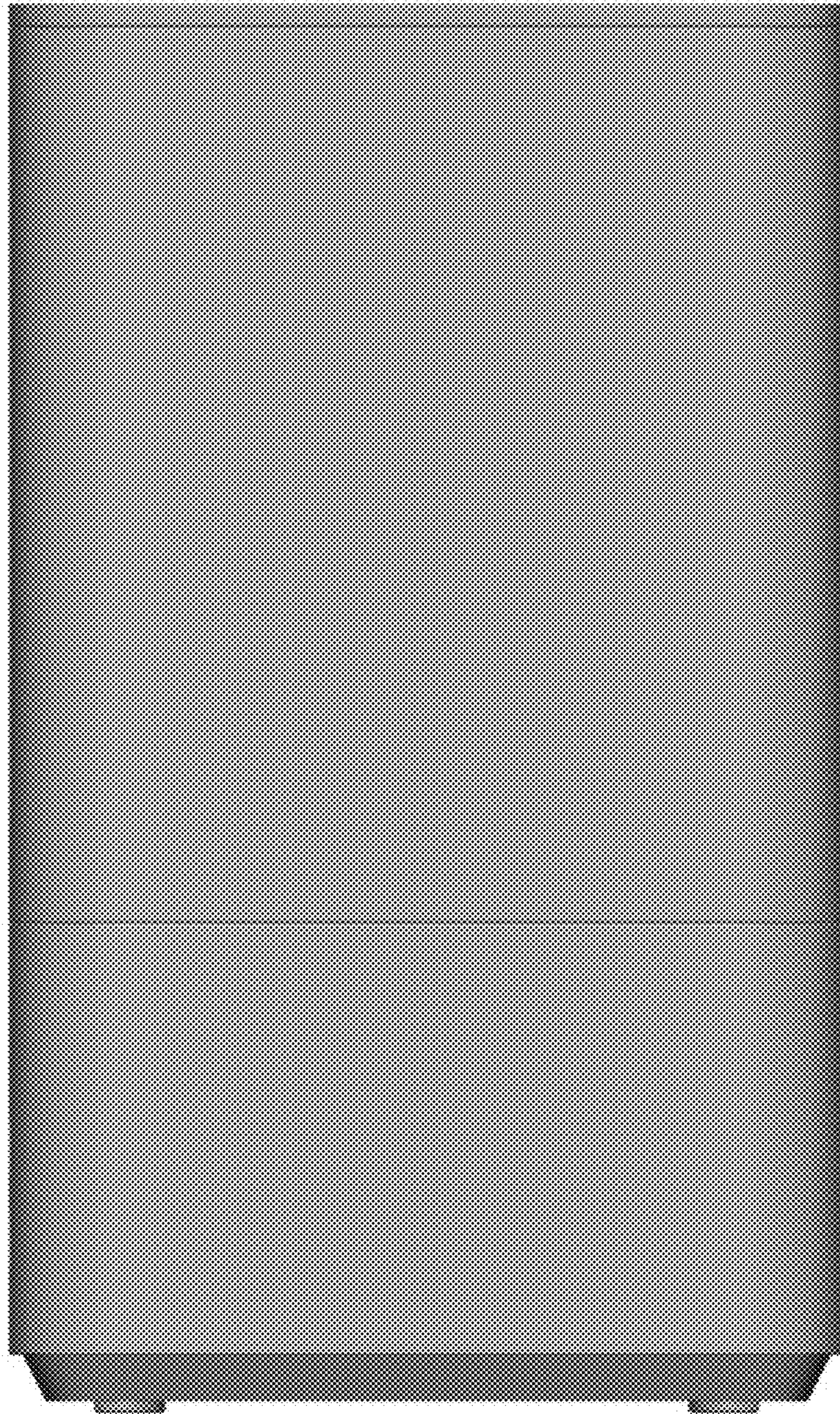


FIG. 4



FIG. 5



FIG. 6



FIG. 7