



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;

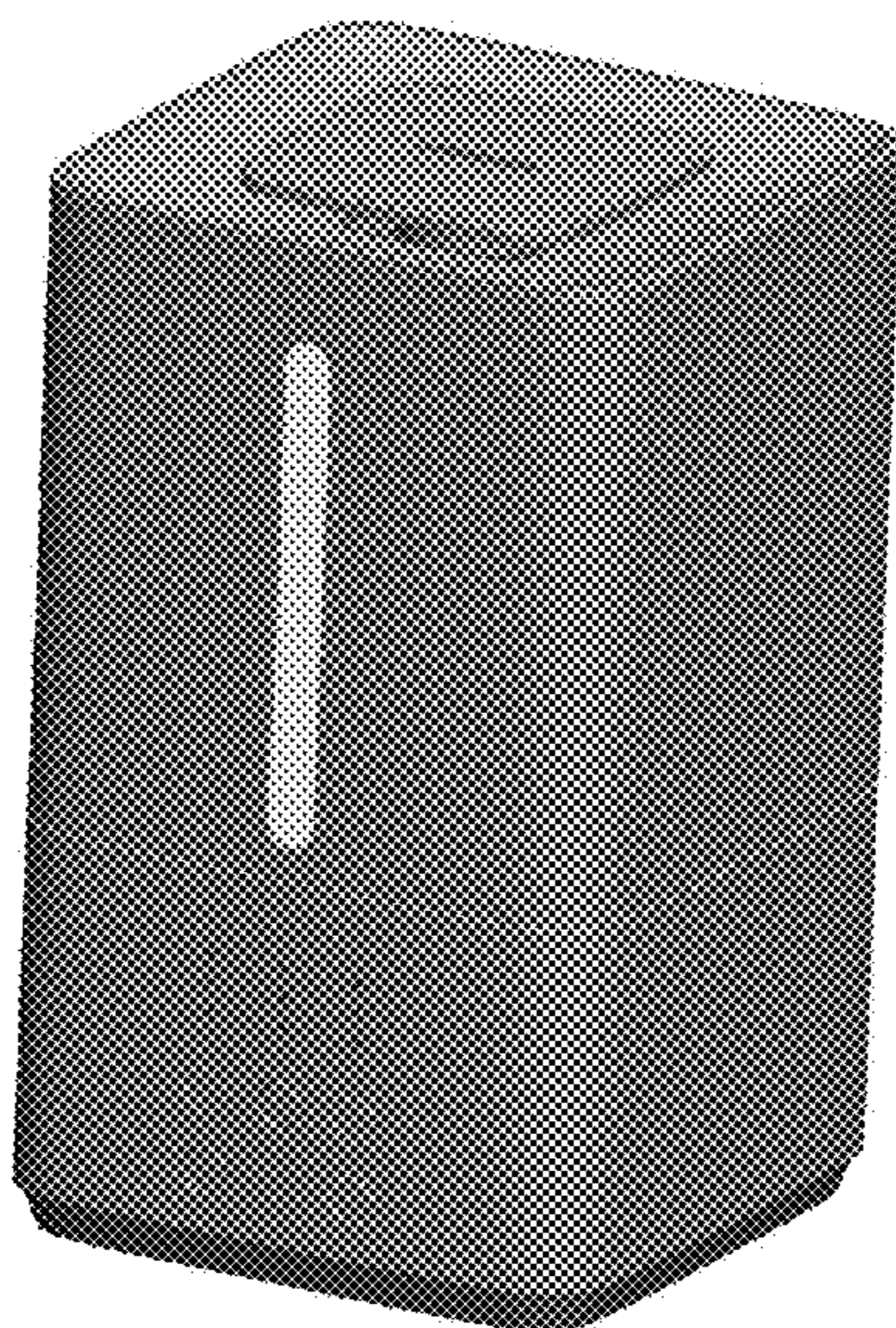
FIG. 4 is a right view thereof;

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

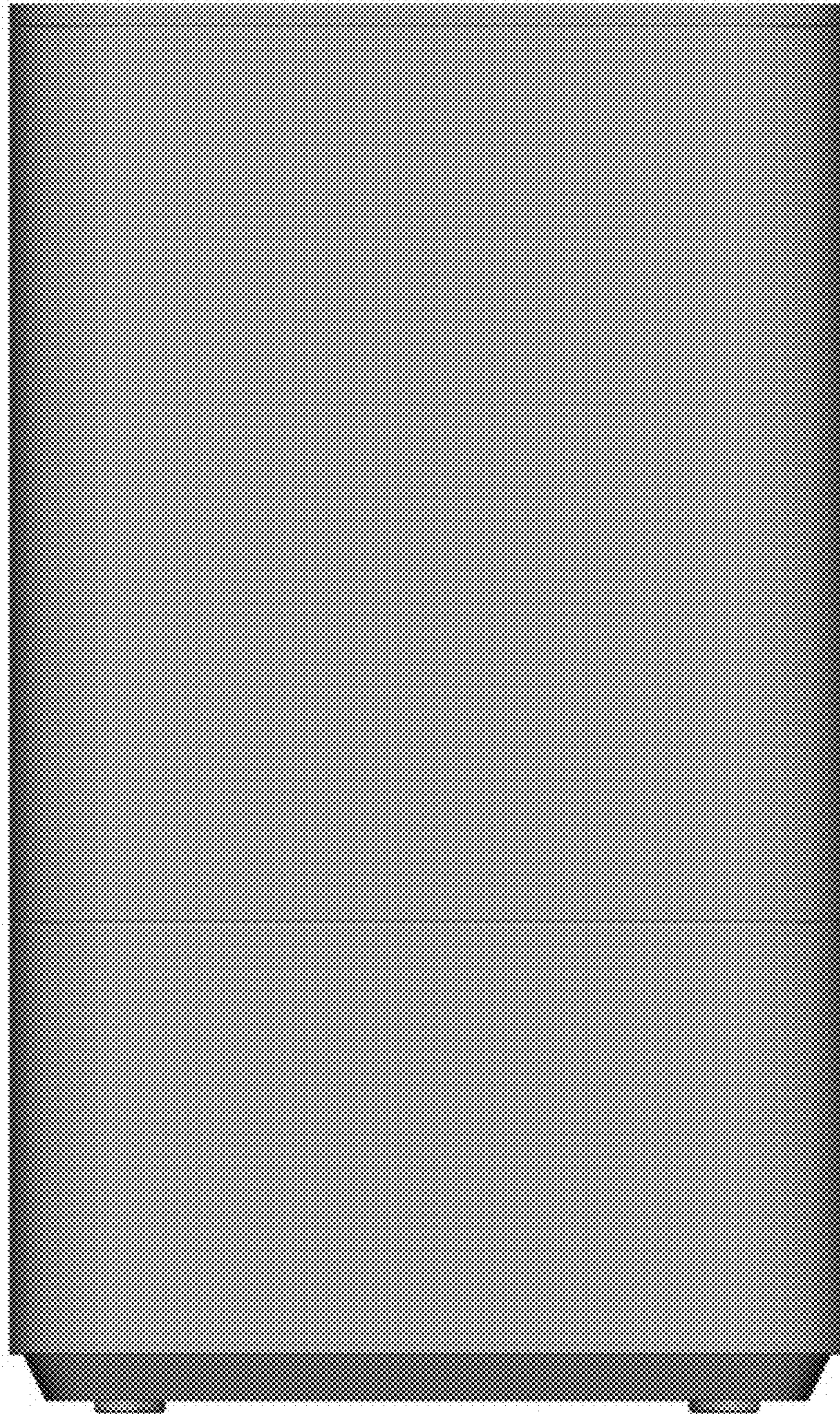
\* cited by examiner





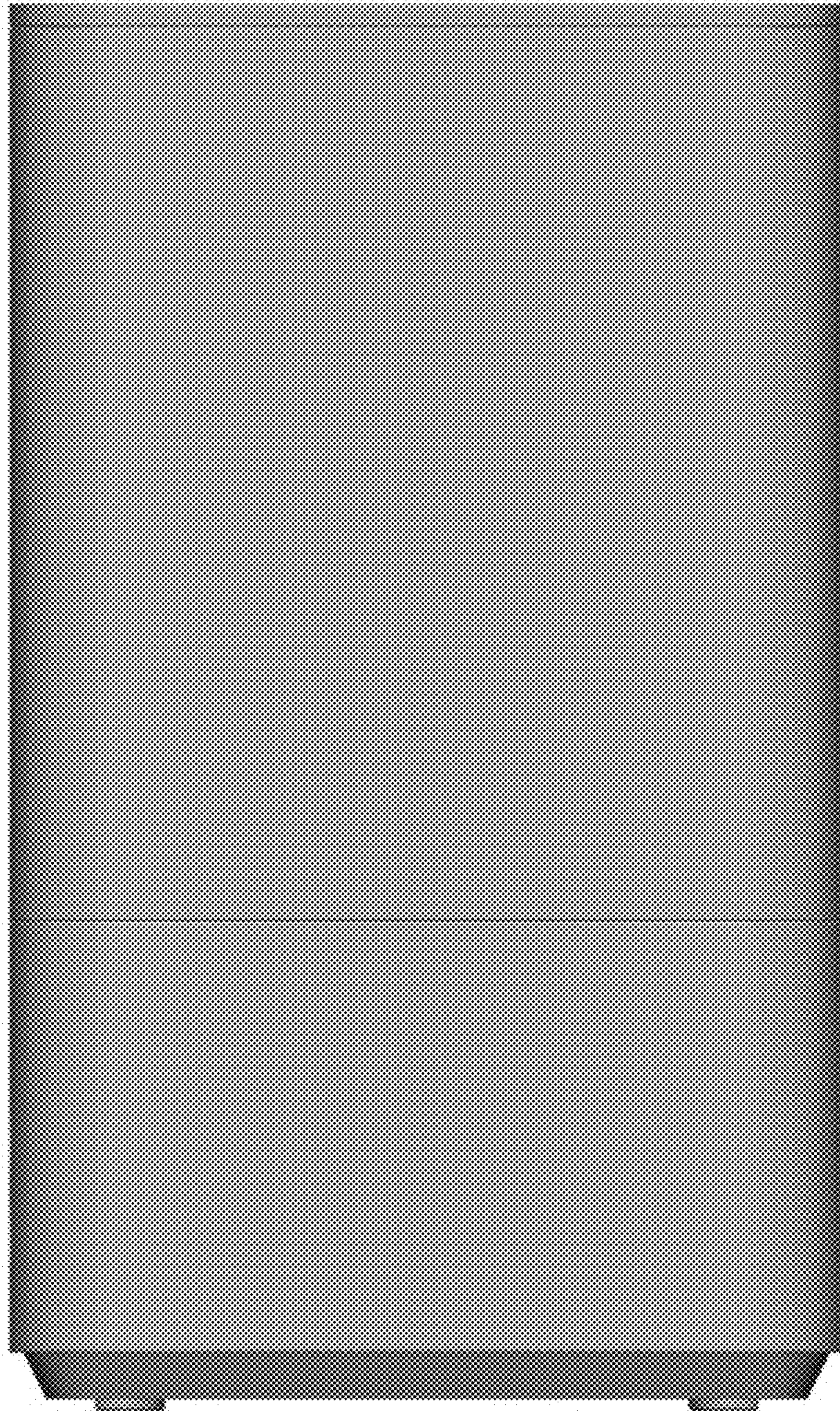
**FIG. 1**





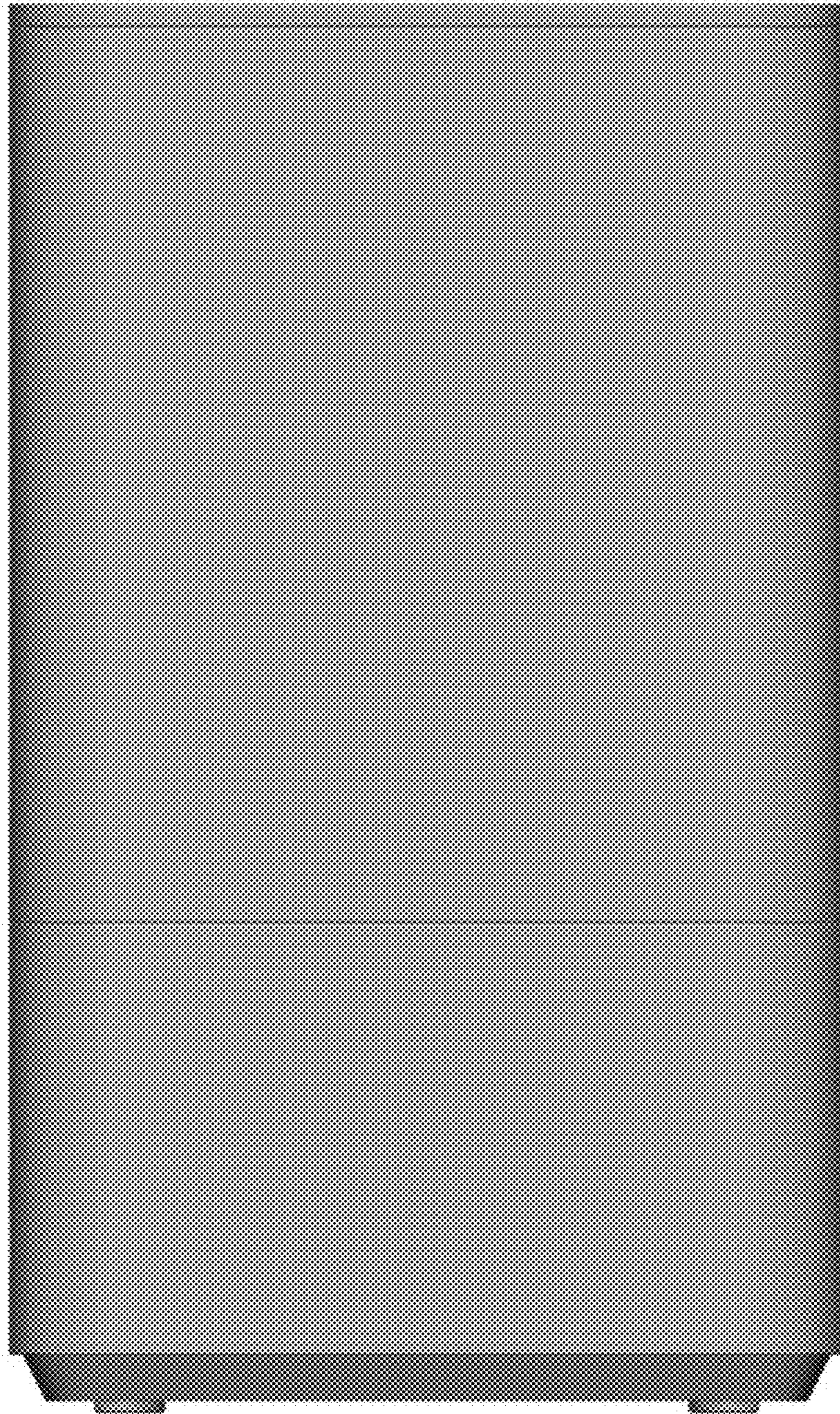
**FIG. 2**





**FIG. 3**





**FIG. 4**





**FIG. 5**





**FIG. 6**





**FIG. 7**