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

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(54) **AIR PURIFIER**

FOREIGN PATENT DOCUMENTS

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CN 304180836 S 6/2017
CN 304360090 S 11/2017

(Continued)

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

(57) **CLAIM**

(21) Appl. No.: **29/673,873**

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

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(30) **Foreign Application Priority Data**

DESCRIPTION

Jun. 28, 2018 (JP) 2018-014273

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

(52) **U.S. Cl.**

USPC **D23/364**

(58) **Field of Classification Search**

USPC D23/355–366, 352, 369, 332, 333, 335,
D23/336, 342, 351; 422/120, 122;
55/356, 473, 504; 96/97; D14/188, 170,
D14/172; 261/DIG. 17, DIG. 65,
261/DIG. 88, DIG. 31; D18/34.6
CPC .. A61L 9/16; A61L 9/22; B01D 47/00; B01D
47/027; B01D 2221/02; B01D 2259/4508;
B03C 3/155; B03C 3/368; F24F 3/16;
F24F 13/20; F24F 13/28; F24F 3/1405;
F24F 3/1603; F24F 13/222

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D402,746 S * 12/1998 Clark D23/364
6,017,375 A * 1/2000 Duell F24F 1/0071
55/356
D465,567 S * 11/2002 Choi D23/364
D585,533 S * 1/2009 Gao D23/332

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FIG. 1 is a perspective view of an air purifier showing our new design;

FIG. 2 is another perspective view of the air purifier of FIG. 1;

FIG. 3 is a front elevational view of the air purifier of FIG. 1;

FIG. 4 is a rear elevational view of the air purifier of FIG. 1;

FIG. 5 is a left-side elevational view of the air purifier of FIG. 1;

FIG. 6 is a right-side elevational view of the air purifier of FIG. 1;

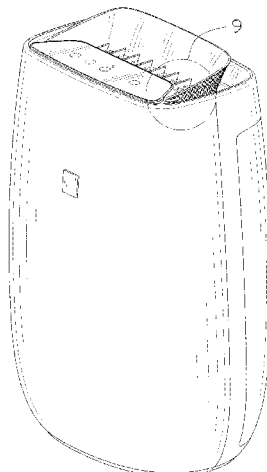
FIG. 7 is a top plan view of the air purifier of FIG. 1;

FIG. 8 is a bottom plan view of the air purifier of FIG. 1; and,

FIG. 9 is an enlarged detailed view of the air purifier in FIG. 1.

The broken lines in the drawings are for the purpose of illustration elements of the air purifier that form no part of the claimed design. The unshaded recessed interior surfaces within the grill of the air purifier form no part of the claimed design.

1 Claim, 9 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D653,743 S * 2/2012 Lacotta D23/366
 D673,665 S * 1/2013 Langford D23/359
 D684,247 S * 6/2013 Chouji D23/364
 D797,272 S * 9/2017 Poindexter D23/364
 D802,112 S * 11/2017 Jeon D23/364
 D819,189 S * 5/2018 Chen D23/332
 D850,592 S * 6/2019 Jacobs D23/317
 2018/0250622 A1 * 9/2018 Kwon B01D 46/42
 2019/0358647 A1 * 11/2019 So B03C 3/014

FOREIGN PATENT DOCUMENTS

CN 304395202 12/2017
 CN 304401797 S 12/2017
 JP 1397782 S 10/2010
 JP 1411936 S 4/2011
 JP 1487048 S 12/2013
 JP 1554046 S 7/2016
 JP 1578350 S 6/2017
 JP 1594457 S 1/2018

JP 1605062 S 5/2018
 KR 3020040000594 S 5/2004
 KR 3006637180000 S 10/2012
 KR 3006678670000 S 11/2012
 KR 3007692840000 S 11/2014
 KR 3007714710000 S 11/2014
 KR 3007884720000 S 3/2015
 KR 3008233560000 S 11/2015
 KR 3008247500000 S 11/2015
 KR 3008247810000 S 11/2015
 KR 3008424000000 S 3/2016
 KR 3008598990000 S 6/2016
 KR 3008691230000 S 8/2016
 KR 3008751570000 S 10/2016
 KR 3008751580000 S 10/2016
 KR 3008751650000 S 10/2016
 KR 3009072540000 S 5/2017
 KR 3009155490000 S 7/2017
 KR 3009193930000 S 8/2017
 KR 3009240660000 S 9/2017
 KR 3009288270000 S 10/2017
 KR 3009341220000 S 12/2017
 KR 3009354150000 S 12/2017

* cited by examiner

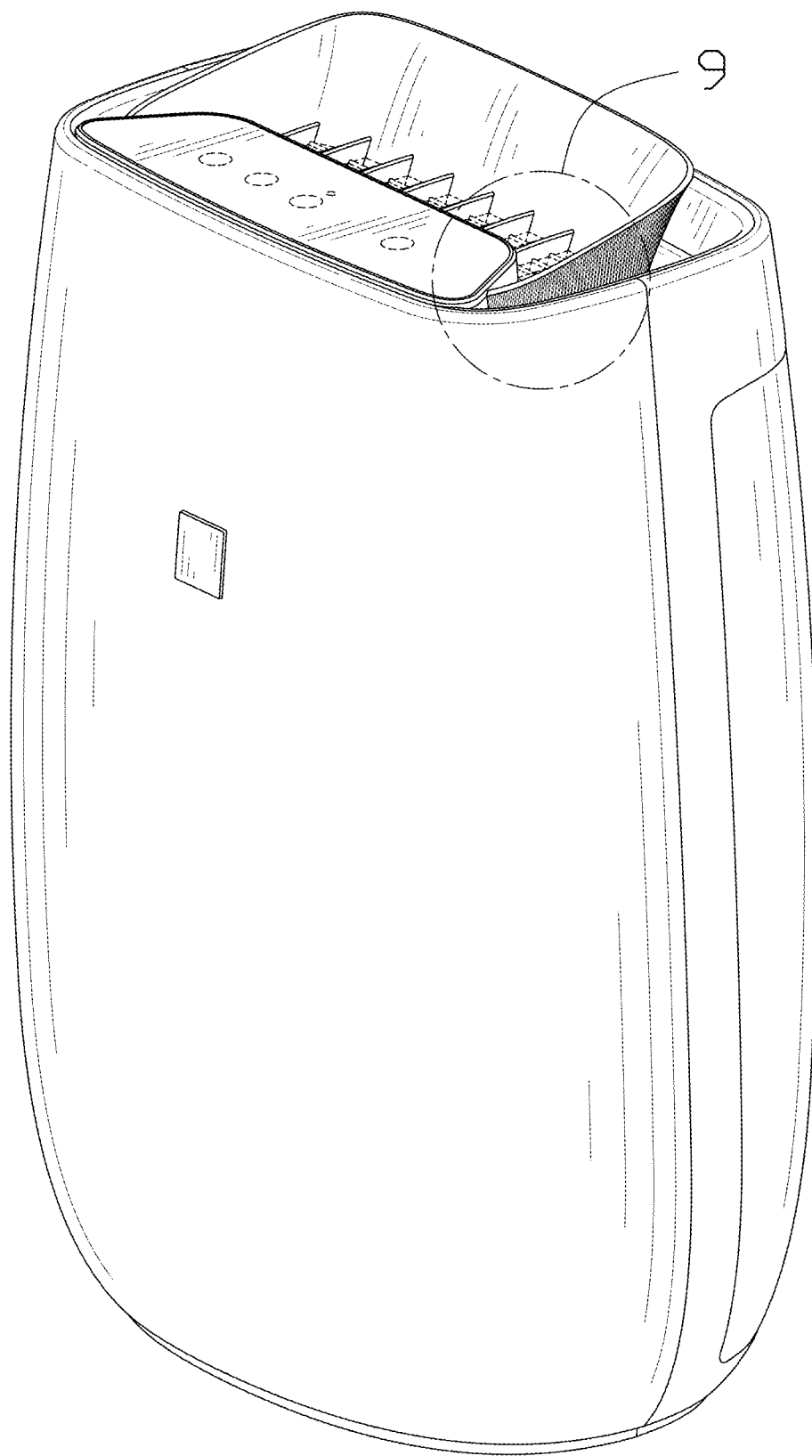


FIG. 1

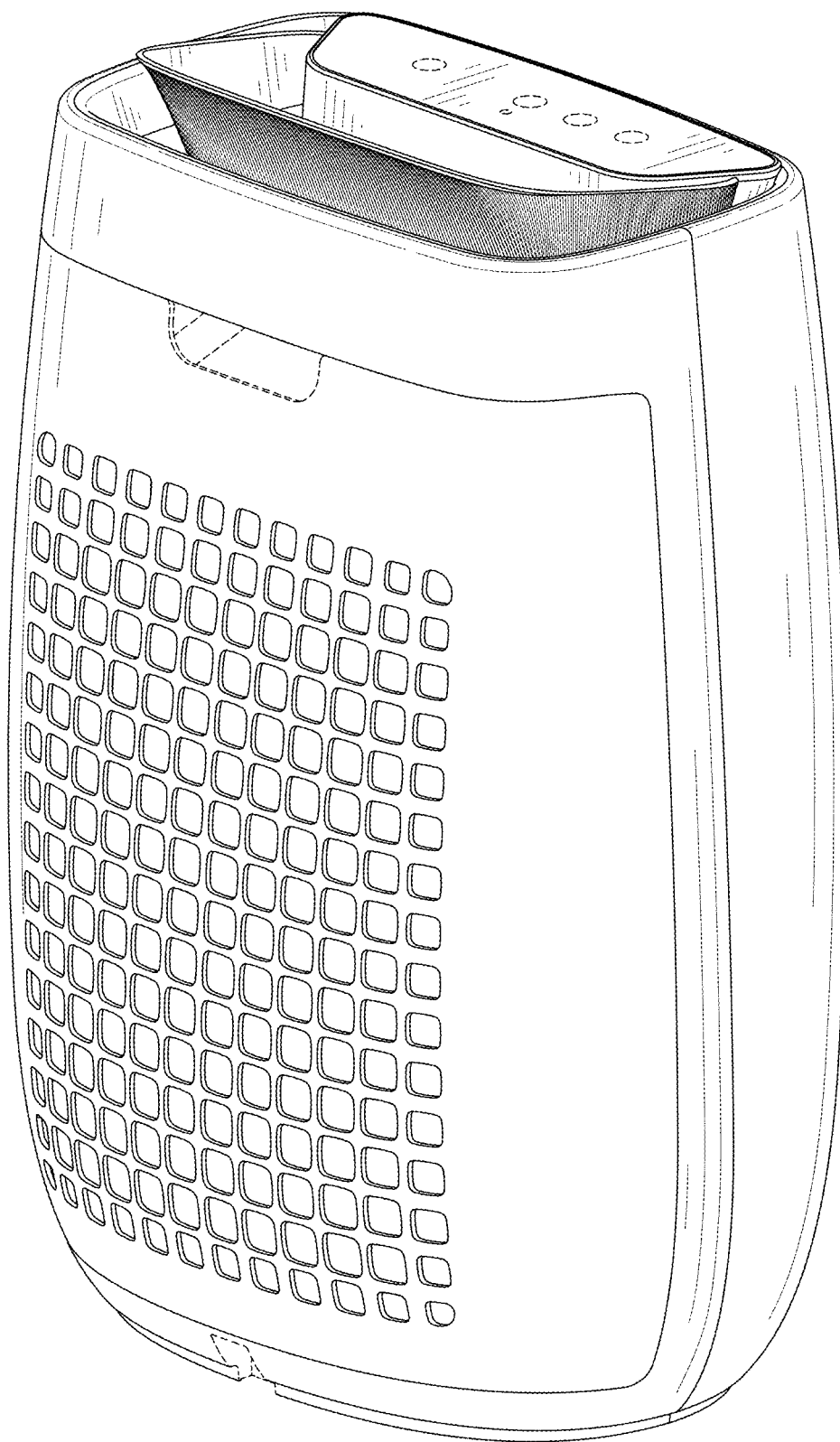


FIG. 2

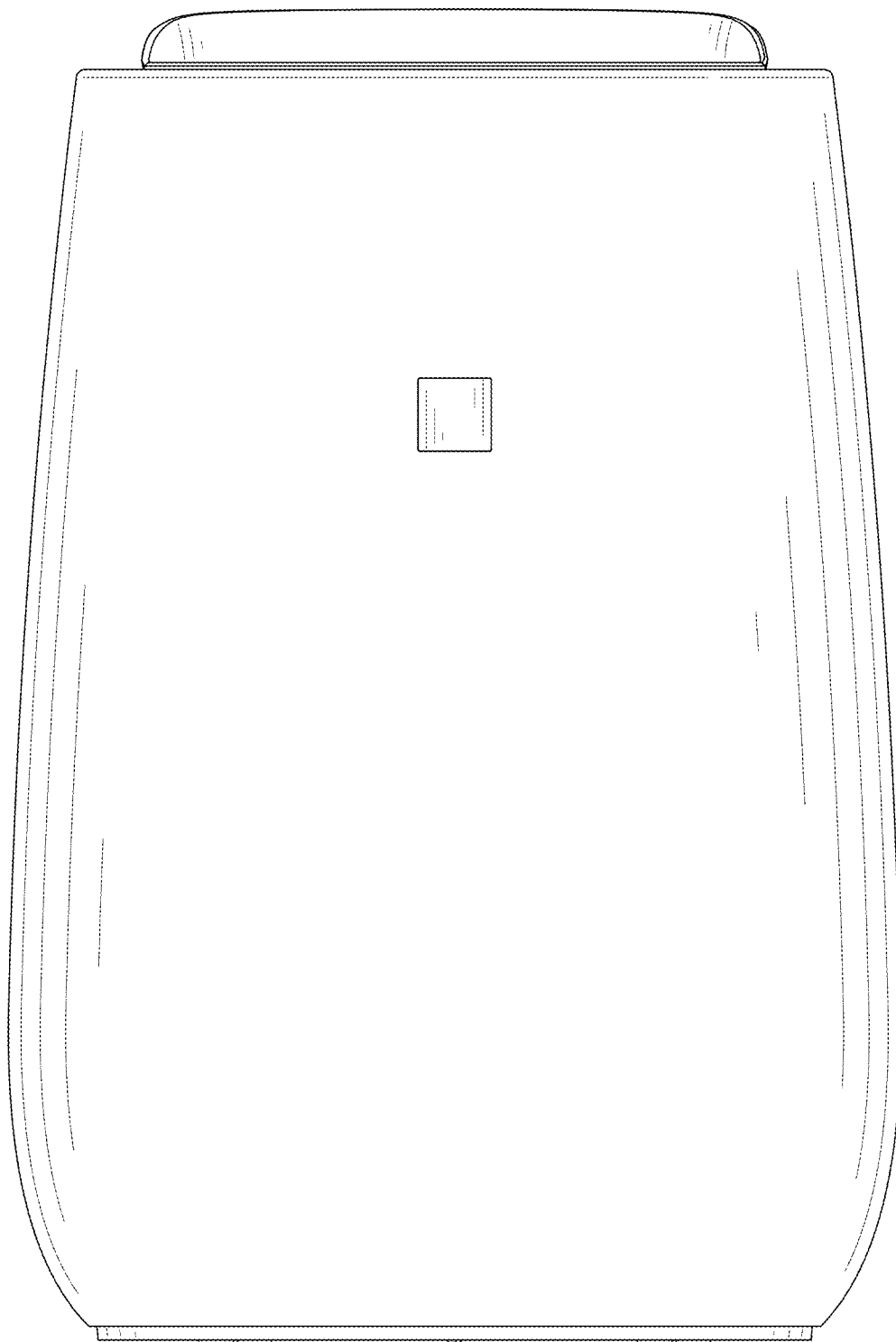


FIG. 3

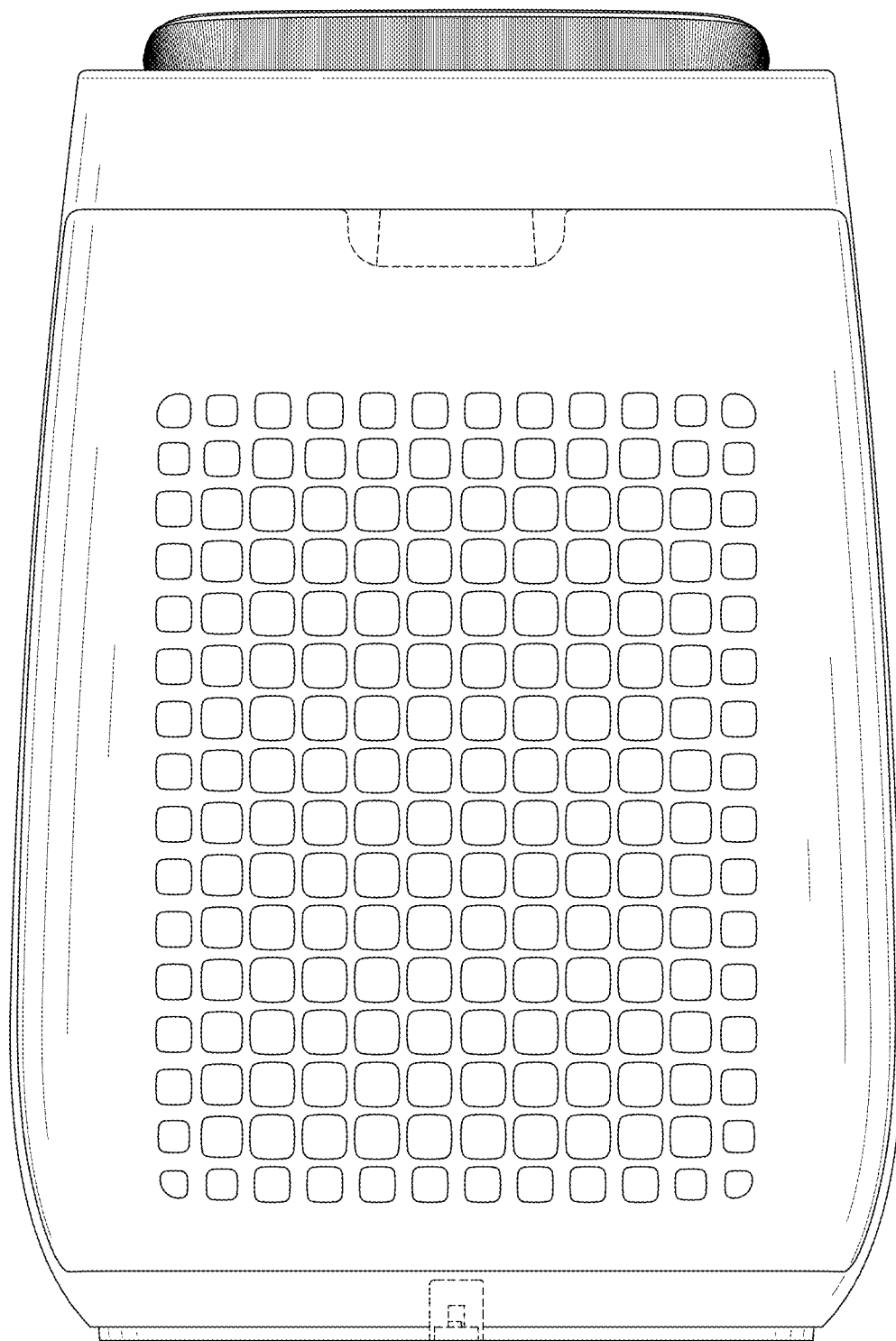


FIG. 4

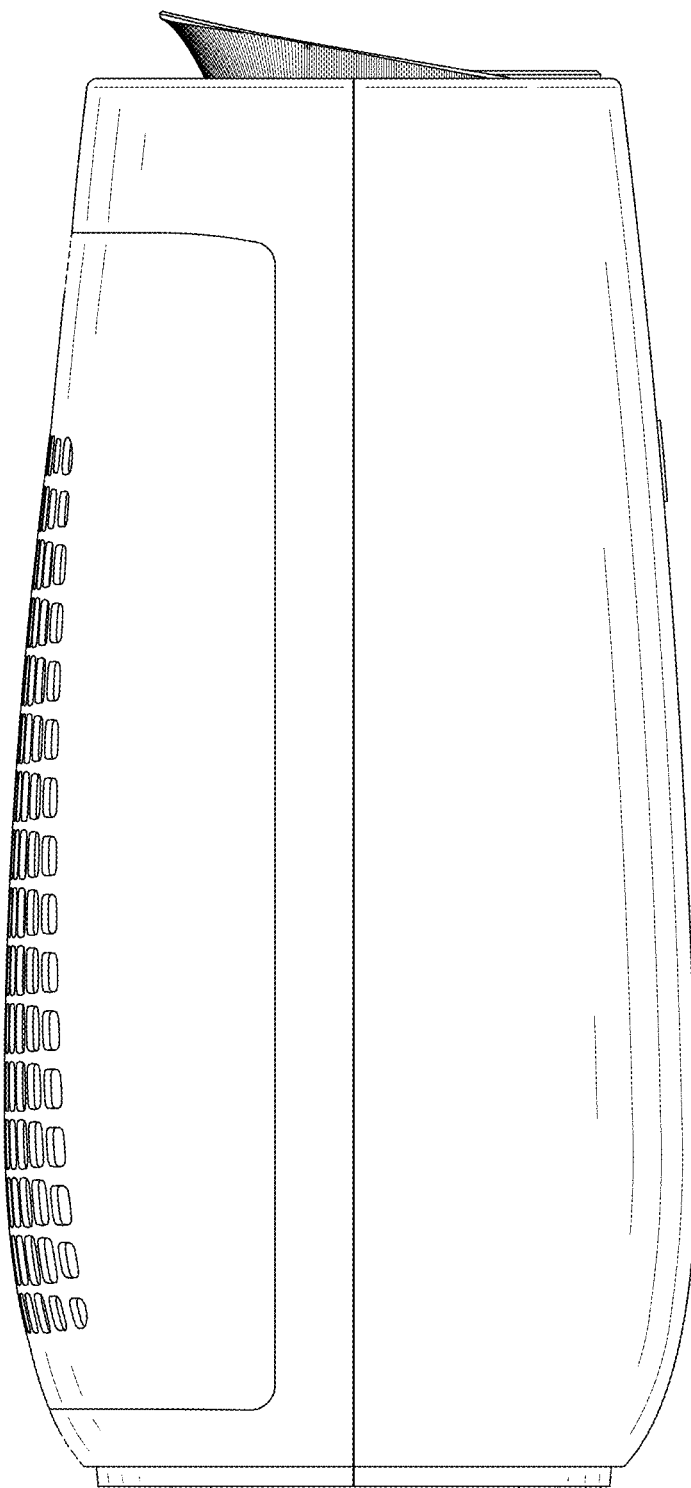


FIG. 5

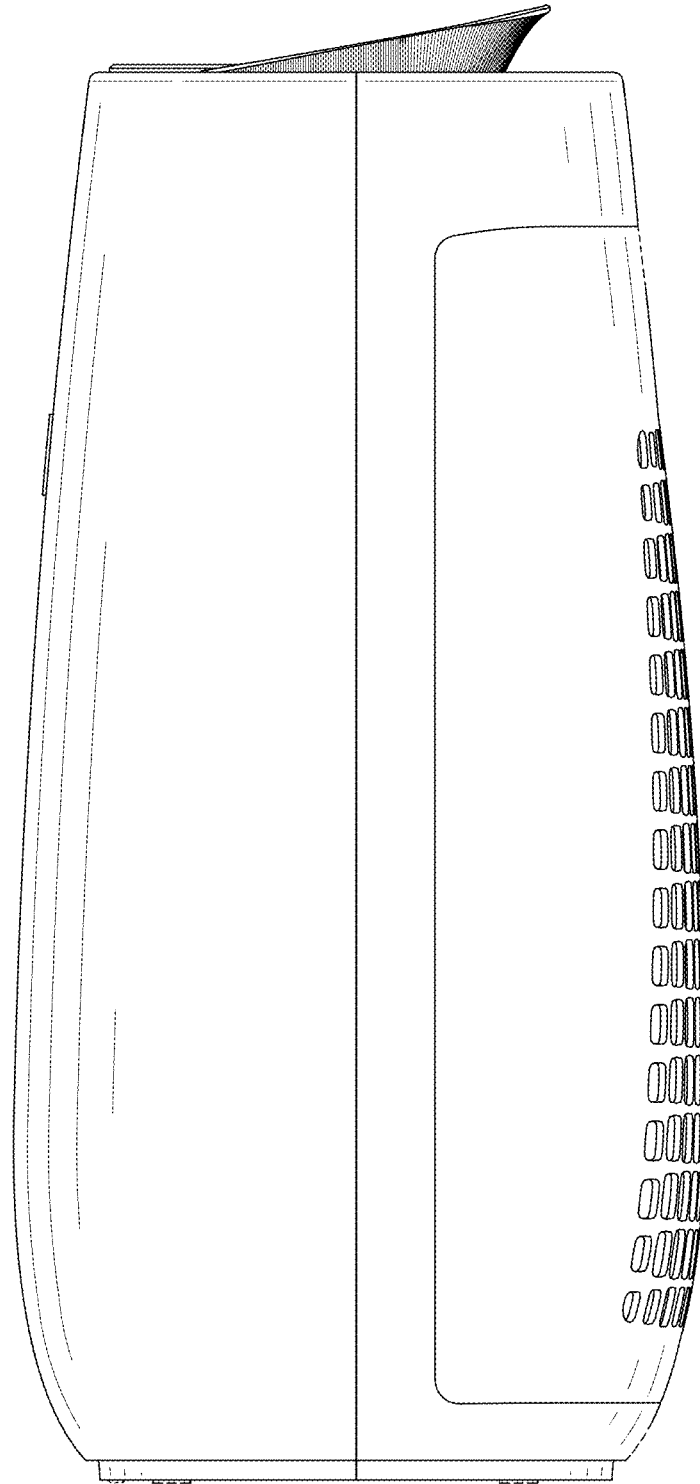


FIG. 6

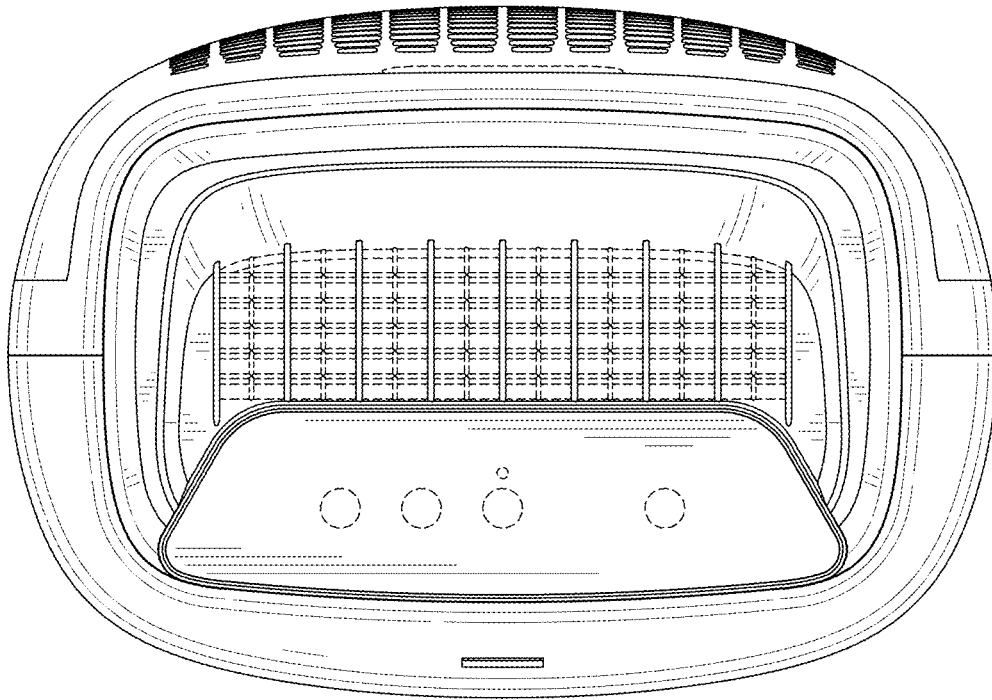


FIG. 7

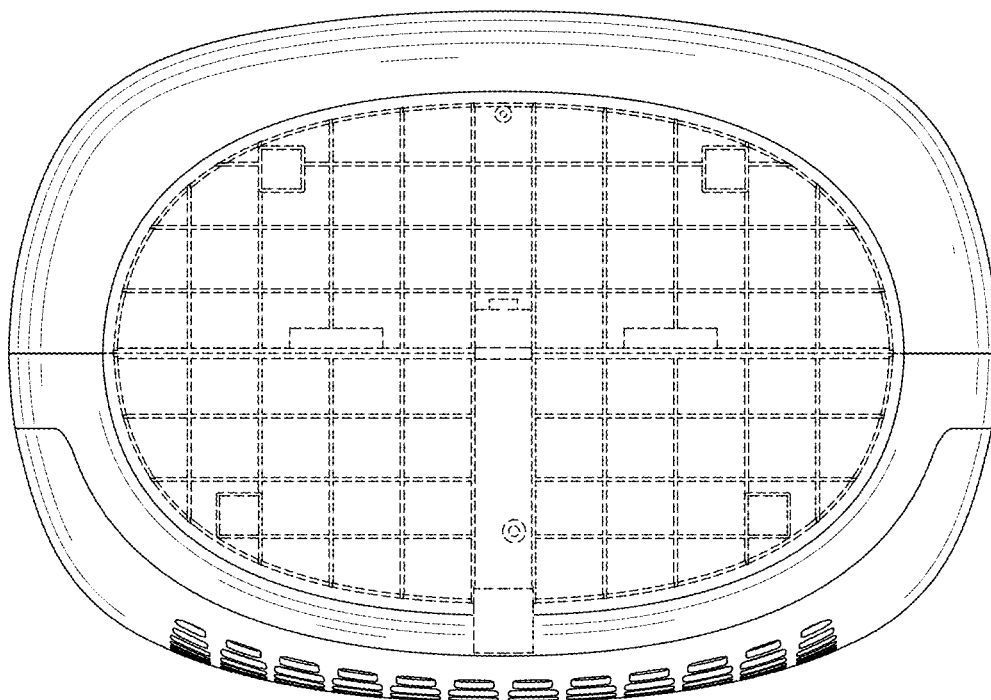


FIG. 8

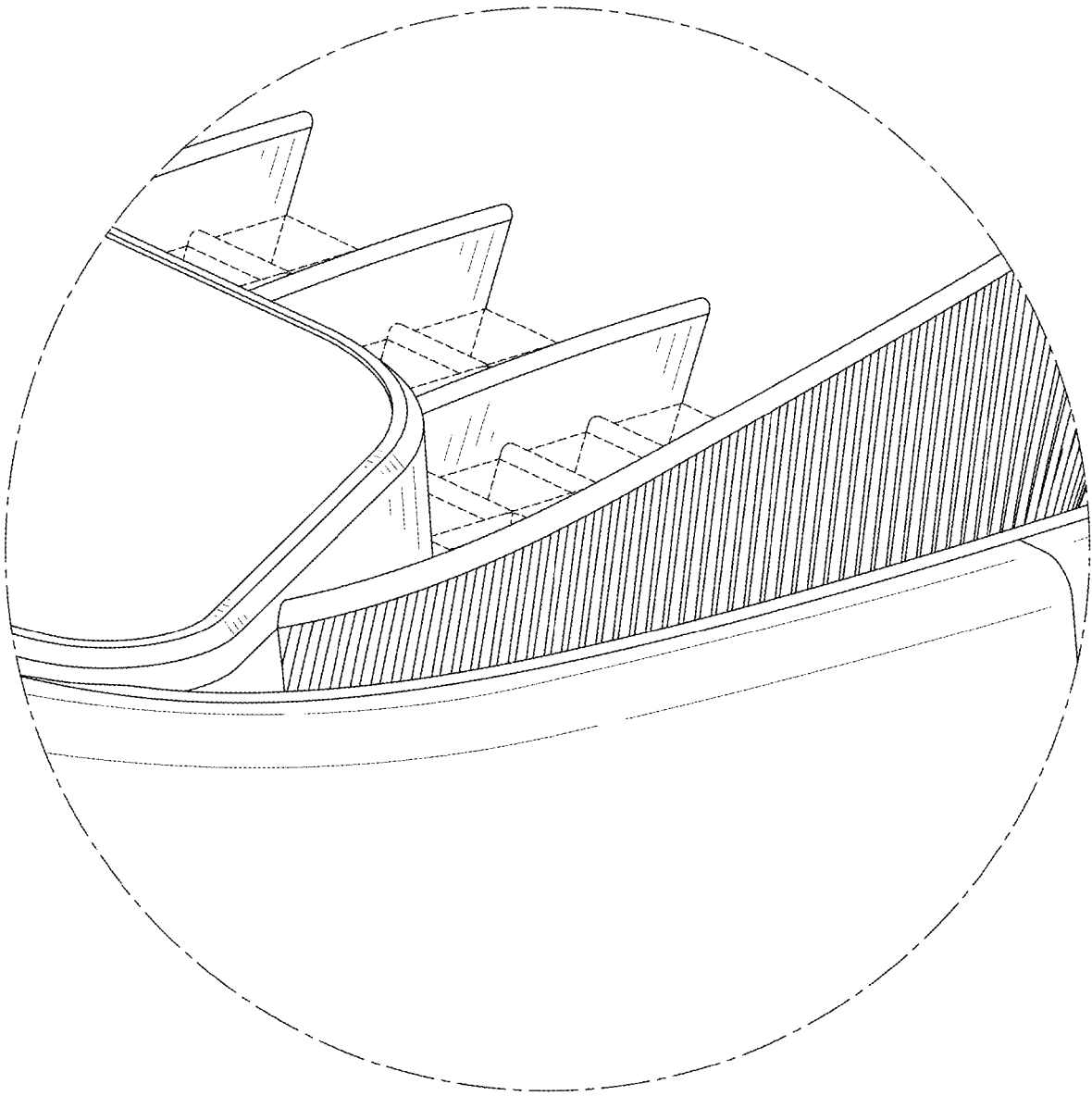


FIG. 9