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(12) **United States Design Patent**  
**Sakamoto**

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(54) **AIR CIRCULATOR**

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

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

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

USPC ..... **D23/370**; D23/355

(58) **Field of Classification Search**

USPC ..... D23/314, 317, 324, 328, 332-337, 342,  
D23/351, 352, 355, 356, 359, 362, 364,  
D23/370-376, 378, 379, 381-385,  
D23/411-414

CPC ..... F04D 25/08; F04D 29/38; F04D 29/384;  
F04D 29/386

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

- D113,643 S \* 3/1939 Von ..... D23/336
- D149,715 S \* 5/1948 Wisting et al. .... D23/336
- D156,589 S \* 12/1949 Wedderspoon ..... D23/336
- D157,824 S \* 3/1950 Wright ..... D23/333
- D157,840 S \* 3/1950 Carraway ..... D23/352
- 3,790,081 A \* 2/1974 Thornton ..... A01M 1/2055  
239/55
- D274,353 S \* 6/1984 Hoyle ..... D23/352
- D281,272 S \* 11/1985 Lynch, Jr. .... D23/364
- D341,417 S \* 11/1993 Wortham ..... D23/332
- D343,231 S \* 1/1994 Lim ..... D14/210
- D346,017 S \* 4/1994 Lim ..... D23/332
- D365,388 S \* 12/1995 Williams ..... D23/332
- D365,389 S \* 12/1995 Williams ..... D23/336
- D374,712 S \* 10/1996 Jane ..... D23/332
- D389,905 S \* 1/1998 Montague, III ..... D23/314
- D397,197 S \* 8/1998 Ito ..... D23/336
- D493,873 S \* 8/2004 Hayashi ..... D23/314

(Continued)

FOREIGN PATENT DOCUMENTS

- JP 1351974 S 2/2009
- JP 1430458 S 12/2011
- JP 1545555 S 3/2016

OTHER PUBLICATIONS

Levoit LV-H132 Air Purifier for Home with True HEPA Filter, date posted unknown, amazon.com, site visited Mar. 14, 2019, Copyright © 1996-2019, Available from Internet, <[https://www.amazon.com/LEVOIT-LV-H132-Purifier-Allergies-Eliminator/dp/B071D58ZY5/ref=sr\\_1\\_4?keywords=air+filter&qid=1552559986&s=gateway&sr=8-4](https://www.amazon.com/LEVOIT-LV-H132-Purifier-Allergies-Eliminator/dp/B071D58ZY5/ref=sr_1_4?keywords=air+filter&qid=1552559986&s=gateway&sr=8-4)>.\*

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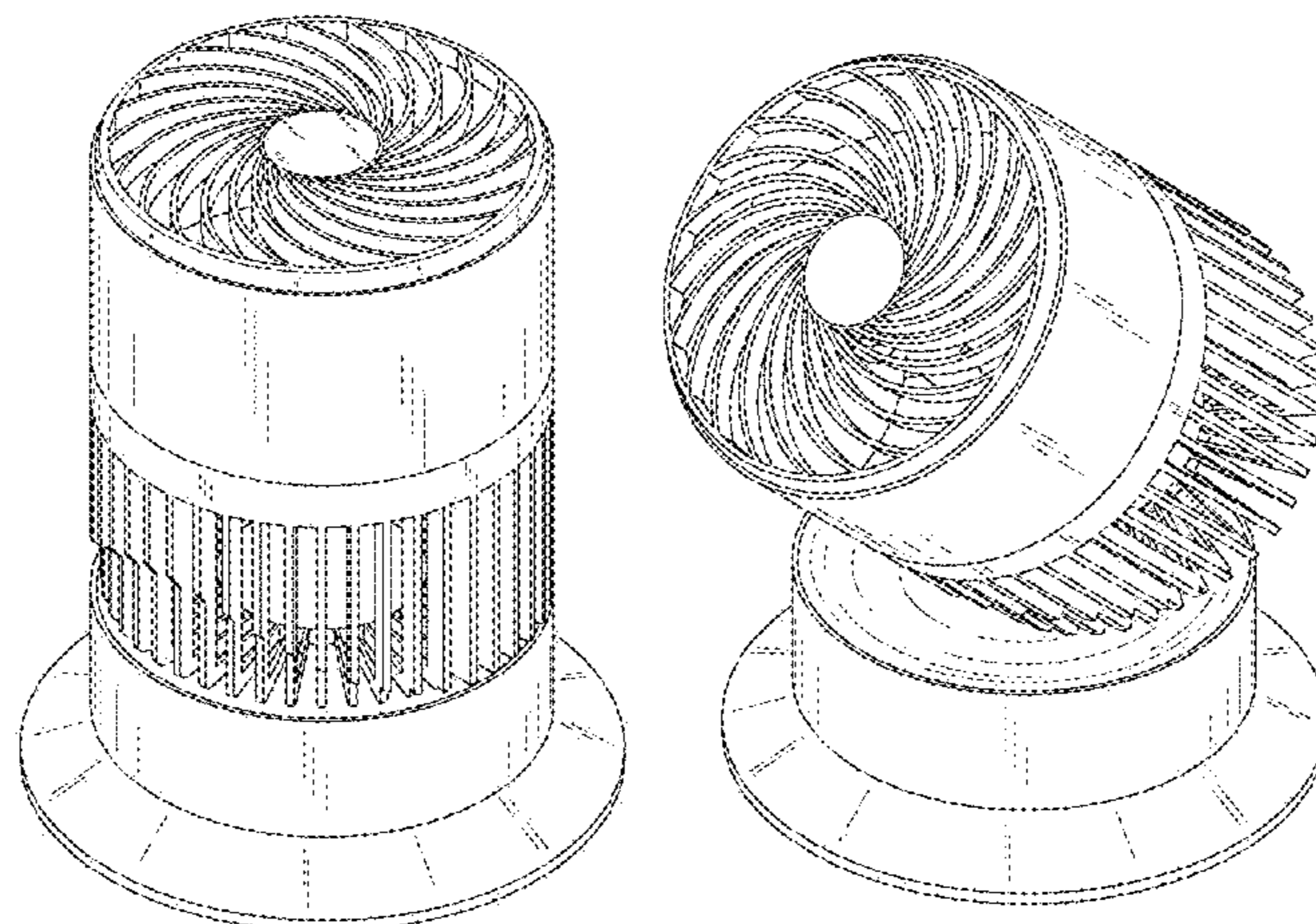
(57) **CLAIM**

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

**DESCRIPTION**

FIG. 1 is a front, top and right-side perspective view of an air circulator showing my new design; FIG. 2 is a front view thereof; FIG. 3 is a rear view thereof; FIG. 4 is a top view thereof; FIG. 5 is a bottom view thereof; FIG. 6 is a right-side view thereof, with a left-side view being a mirror image thereof; FIG. 7 is another perspective view thereof, but shown in an alternate position of use; and, FIG. 8 is another perspective view thereof, but shown in another alternate position of use.

**1 Claim, 8 Drawing Sheets**



(56)

**References Cited**

U.S. PATENT DOCUMENTS

D639,919 S \* 6/2011 Yu ..... D23/314  
D725,764 S \* 3/2015 Bisla ..... D23/370  
D831,811 S \* 10/2018 Cho ..... D23/364  
D835,766 S \* 12/2018 Chen ..... D23/364

OTHER PUBLICATIONS

Toshiba Corporation; Japan Patent Office Design Patent Department, publicly known reference No. HJ22017888; 3 pages.

Twinbird Industrial Co., Ltd.; KJ-EK01W; Japan Patent Office Design Patent Department, publicly known reference No. HJ20039720; 3 pages.

\* cited by examiner

FIG. 1

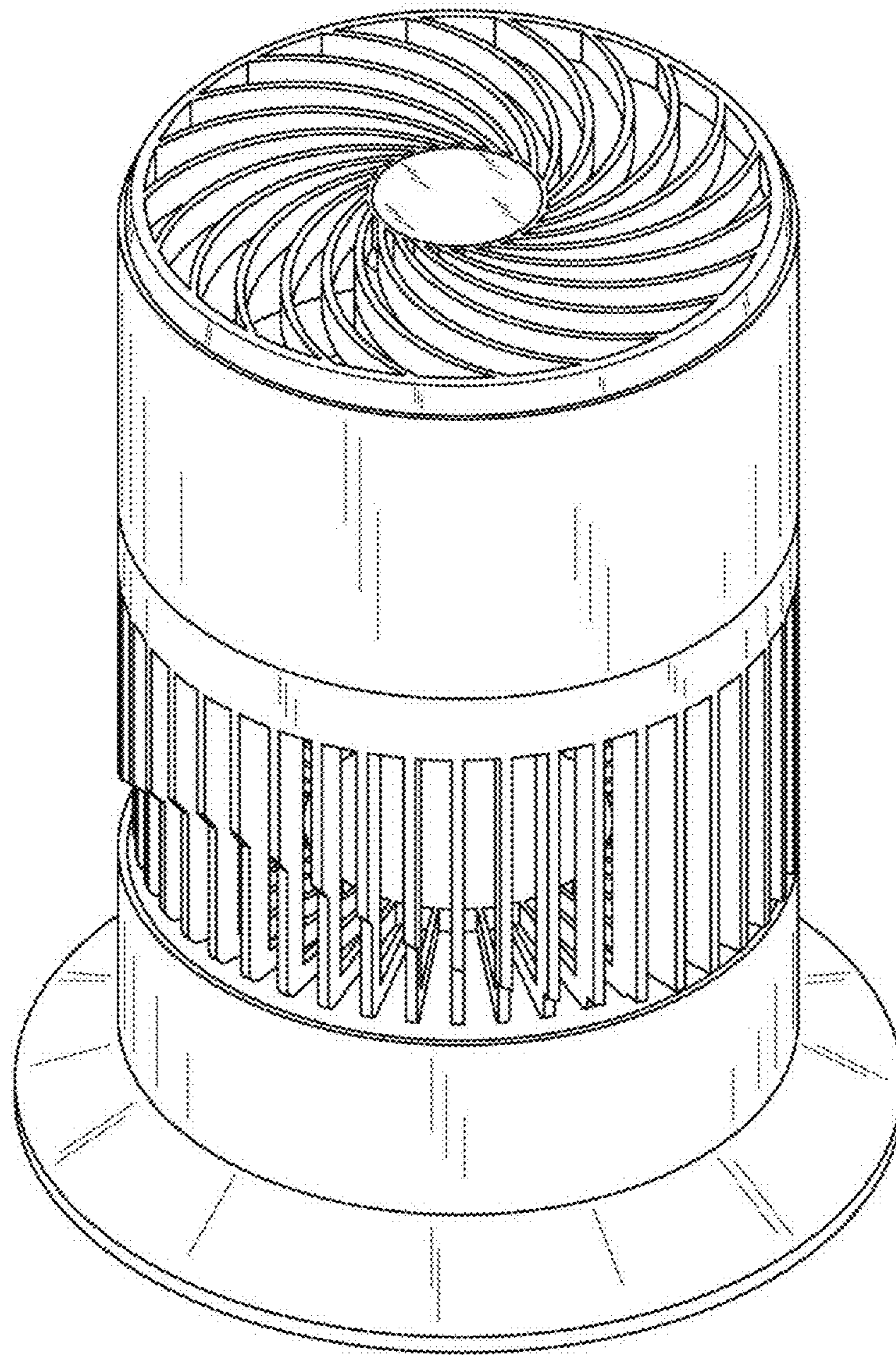


FIG. 2

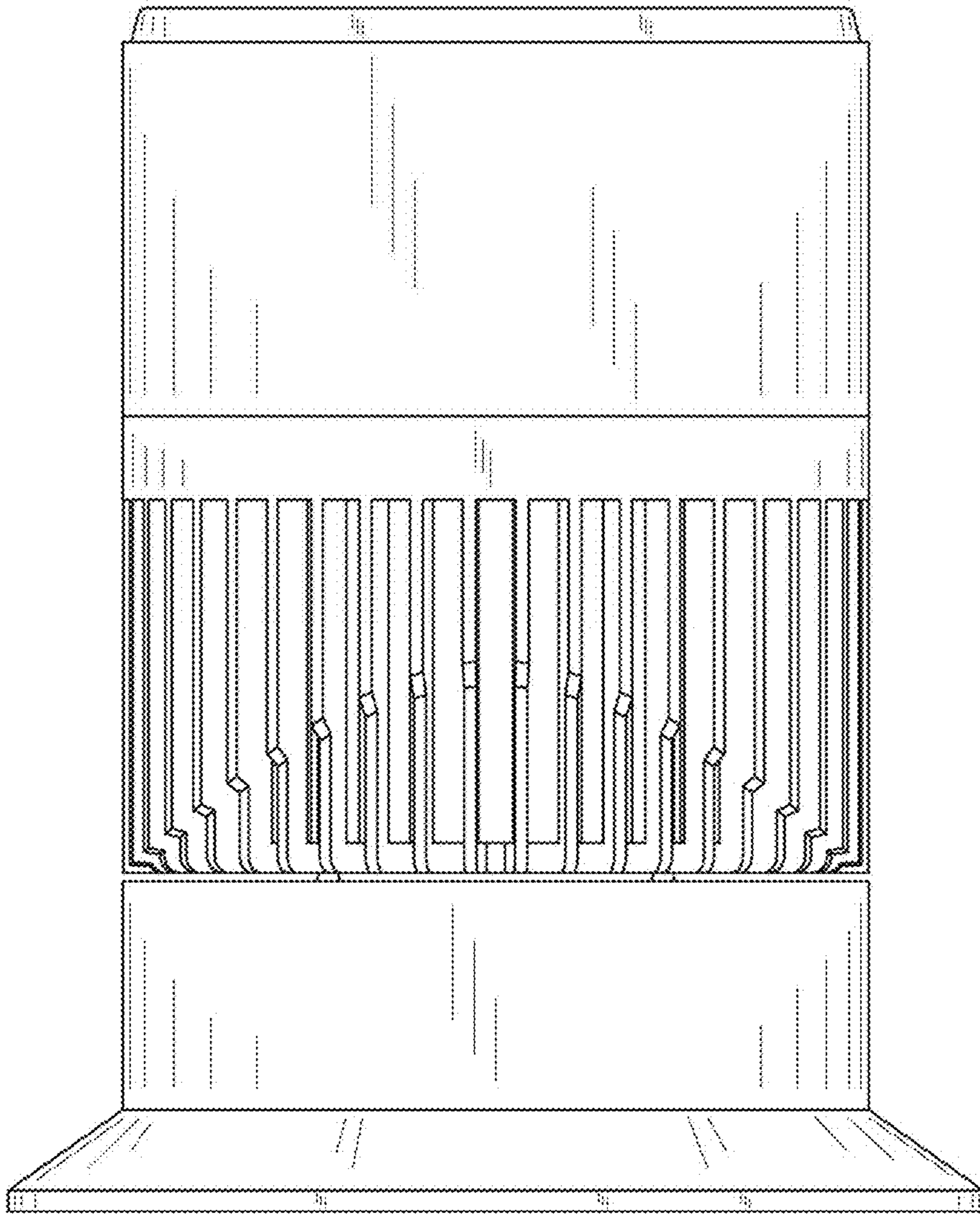


FIG. 3

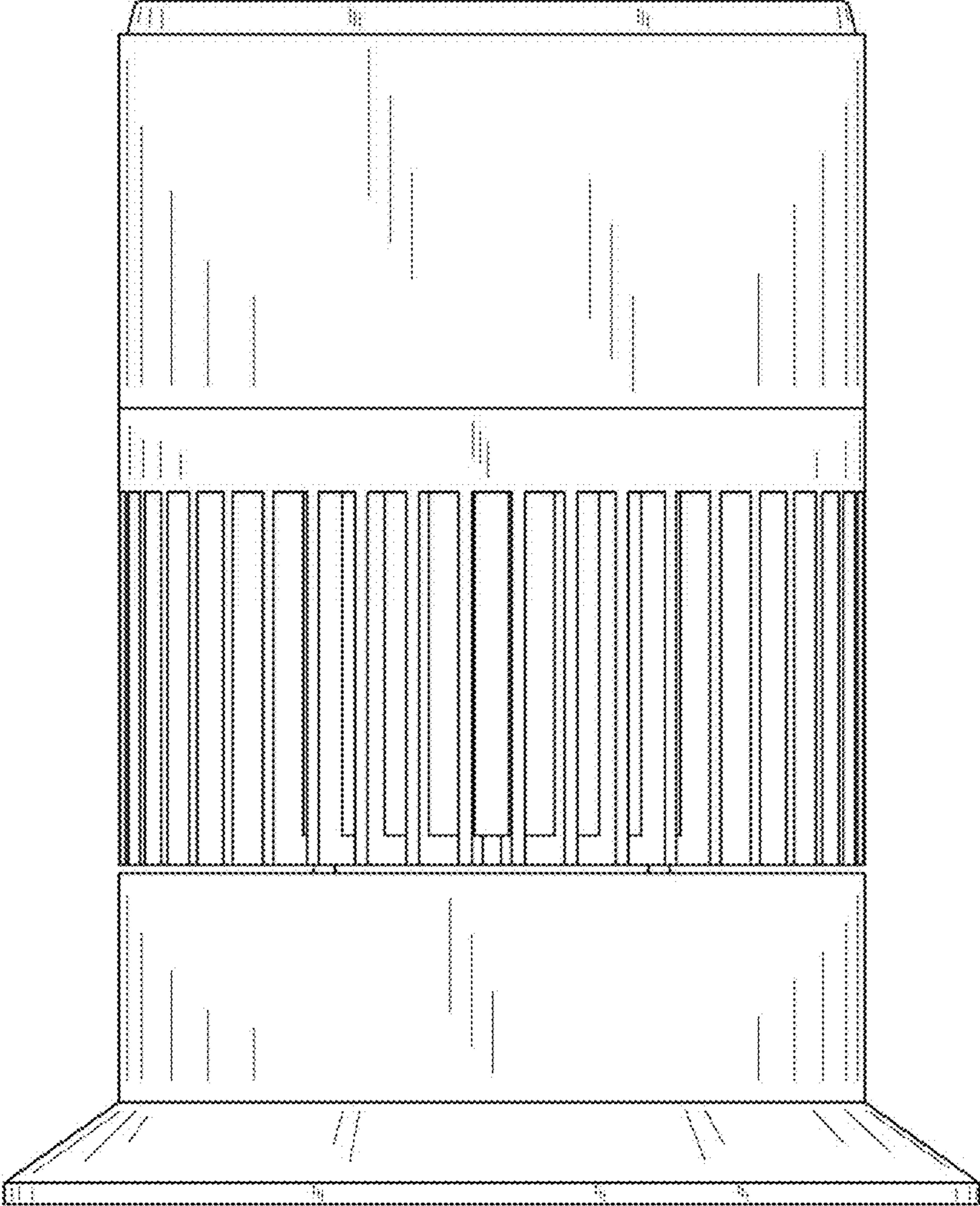


FIG. 4

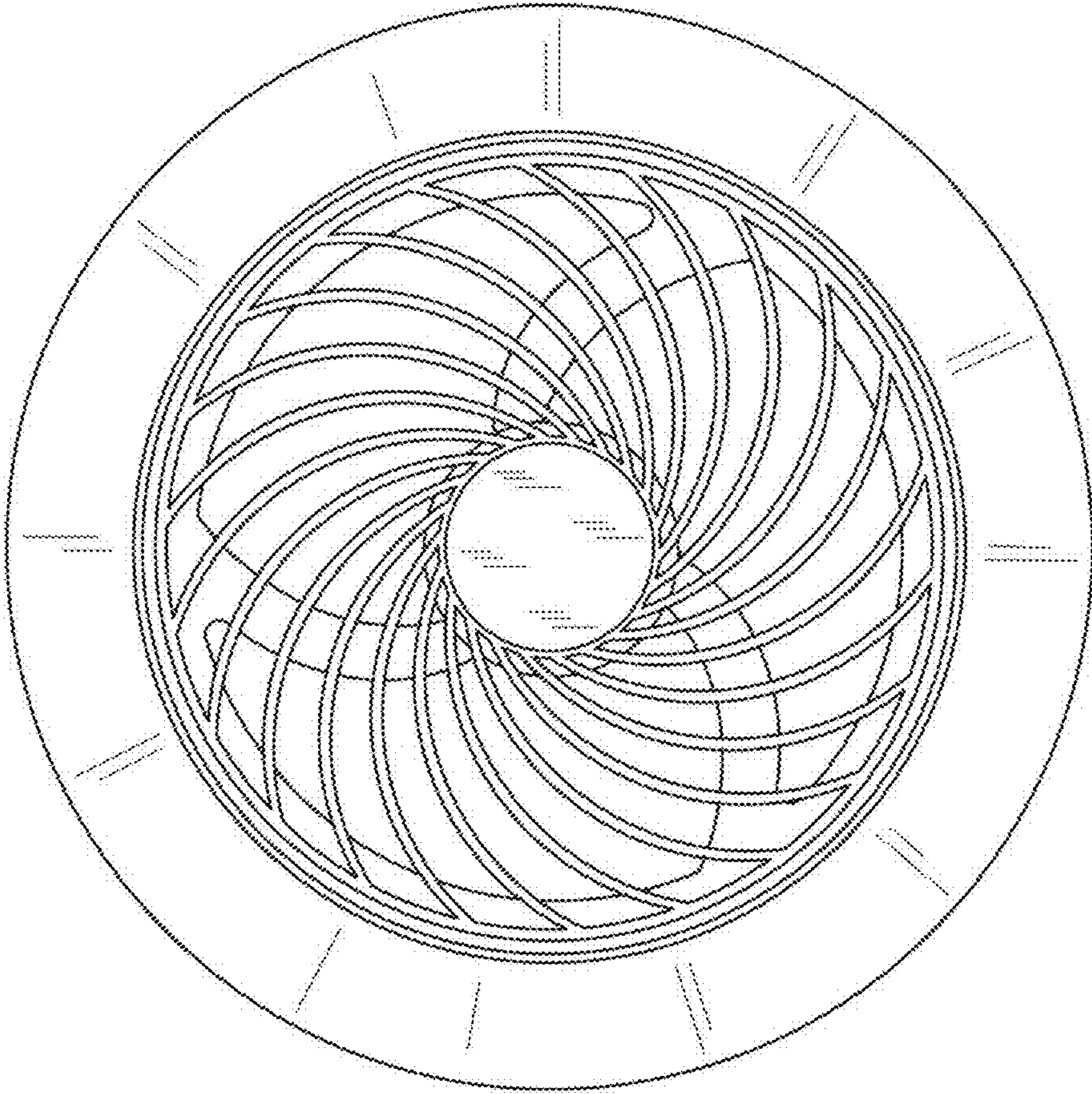


FIG. 5

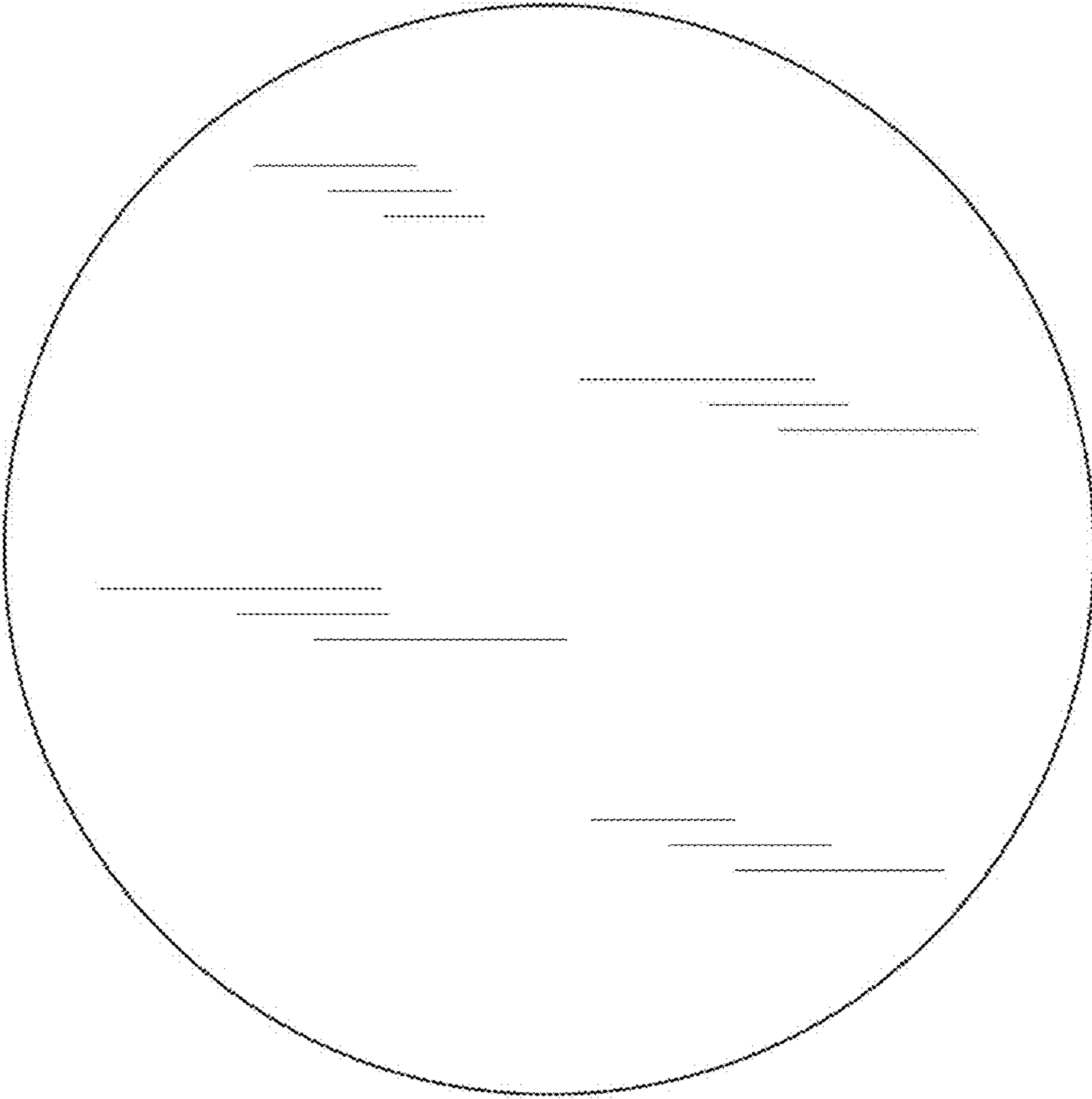


FIG. 6

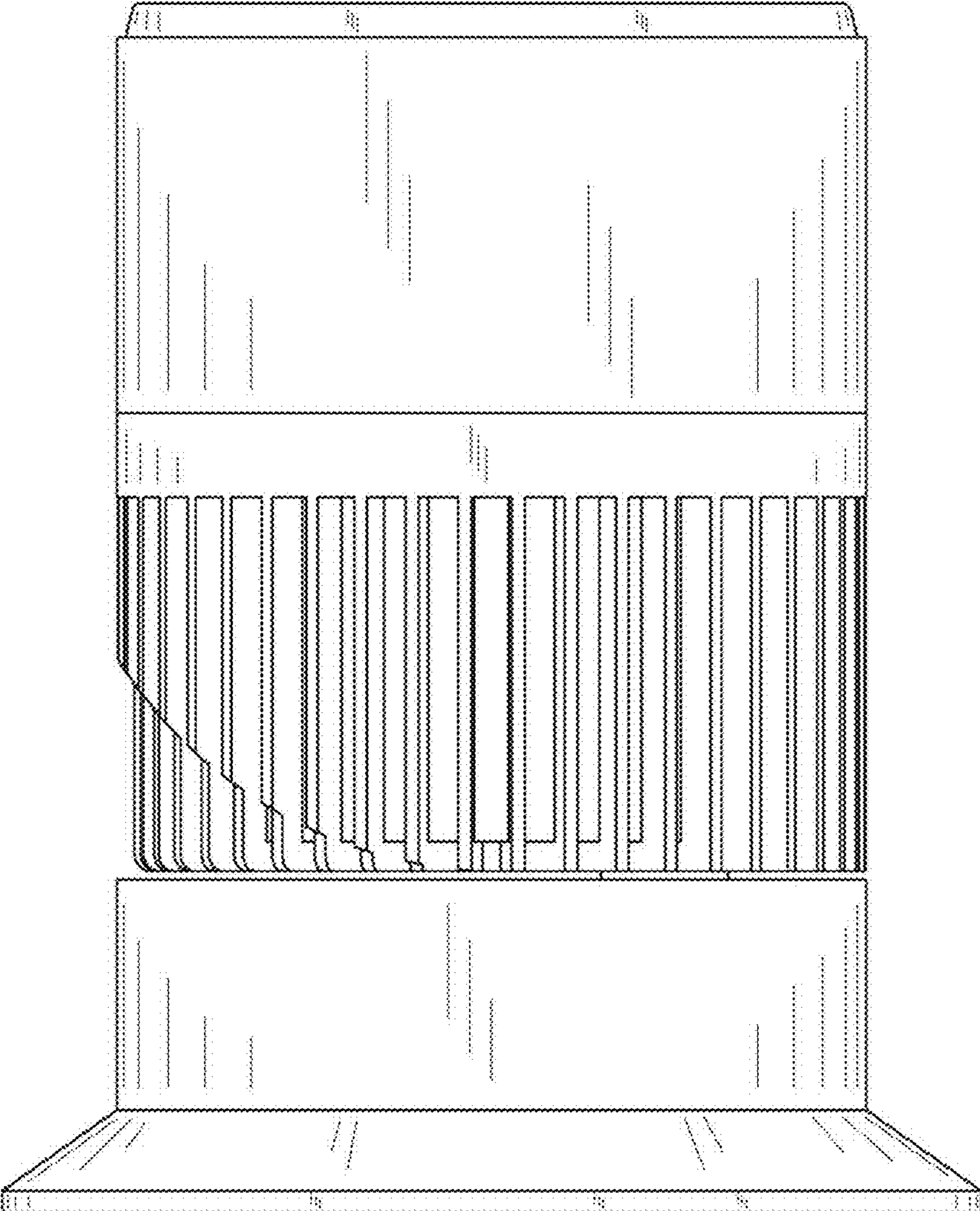




FIG. 7

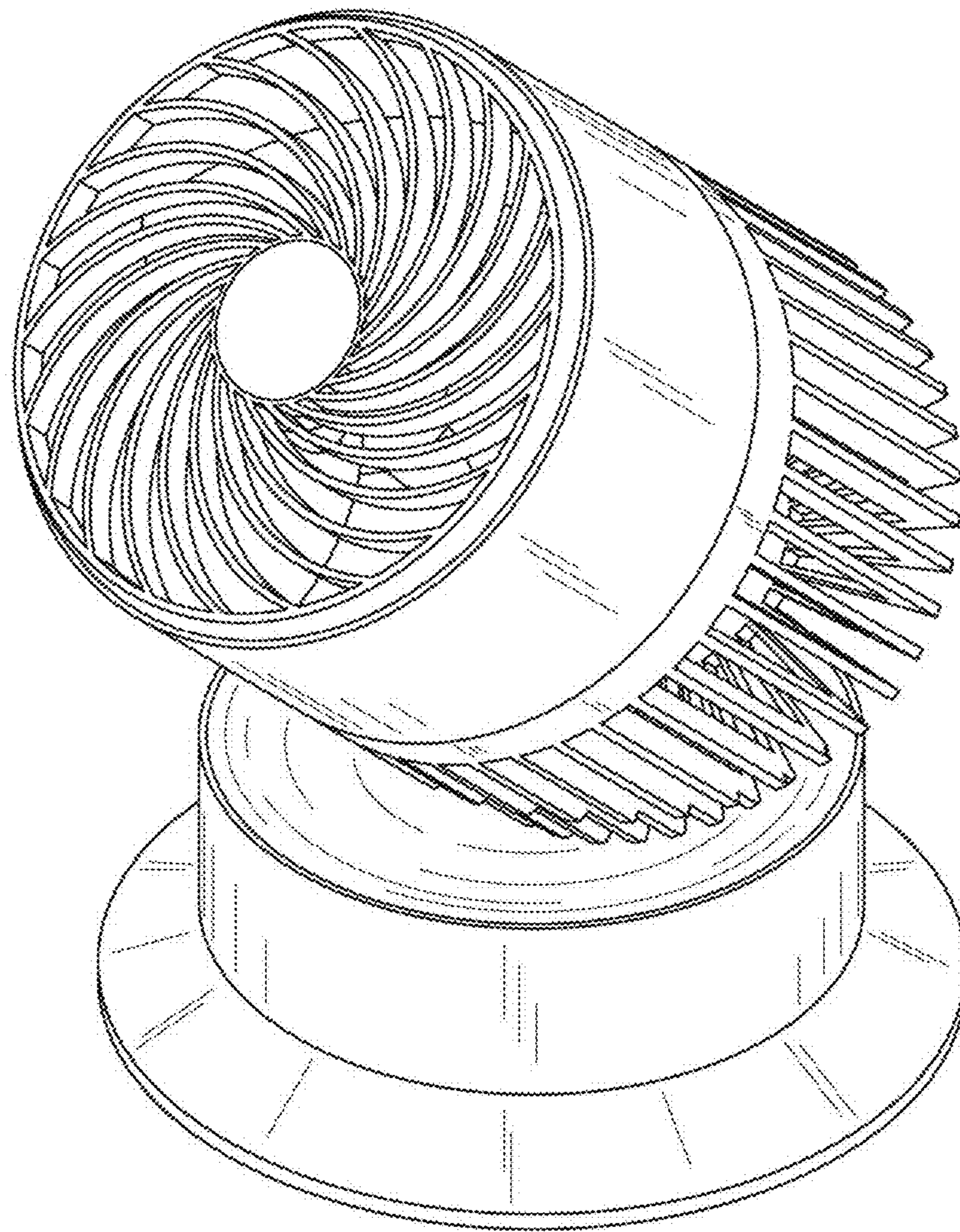


FIG. 8

