



US00D977084S

(12) **United States Design Patent** (10) **Patent No.:** **US D977,084 S**
Yu (45) **Date of Patent:** **** Jan. 31, 2023**

(54) **BLADELESS FAN**

FOREIGN PATENT DOCUMENTS

(71) Applicant: **Dreame Technology (Shanghai) Limited**, Shanghai (CN)

CN 302809699 S 4/2014
CN 305612742 S 2/2020

(Continued)

(72) Inventor: **Hao Yu**, Shanghai (CN)

OTHER PUBLICATIONS

(73) Assignee: **DREAMTECHNOLOGY (SHANGHAI) LIMITED**, Shanghai (CN)

Notice of Allowance in Japanese Design Application No. 2020-019944 dated Apr. 30, 2021, 4 pages.

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

Primary Examiner — Sharon S Oum

(21) Appl. No.: **29/751,226**

(74) *Attorney, Agent, or Firm* — Suiter Swantz pc llo

(22) Filed: **Sep. 18, 2020**

(57) **CLAIM**

(30) **Foreign Application Priority Data**

The ornamental design for a bladeless fan, as shown and described.

Mar. 18, 2020 (CN) 202030091130.7

(51) **LOC (14) Cl.** **23-04**

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

USPC **D23/378**

(58) **Field of Classification Search**

DESCRIPTION

USPC D23/332–337, 341, 351, 352, 355, 356,
D23/364, 370, 378, 381–383, 386–390,
D23/411–412

CPC F04D 25/08; F04D 29/441; F04D 25/10;
F04D 29/403

See application file for complete search history.

FIG. 1 is a front, top, and side perspective view of a bladeless fan of the new design.
FIG. 2 is a back, bottom, and side perspective view thereof.
FIG. 3 is a front view thereof.
FIG. 4 is a back view thereof.
FIG. 5 is a left-side view thereof.
FIG. 6 is a right-side view thereof.
FIG. 7 is a top view thereof.
FIG. 8 is a bottom view thereof.

(56) **References Cited**

U.S. PATENT DOCUMENTS

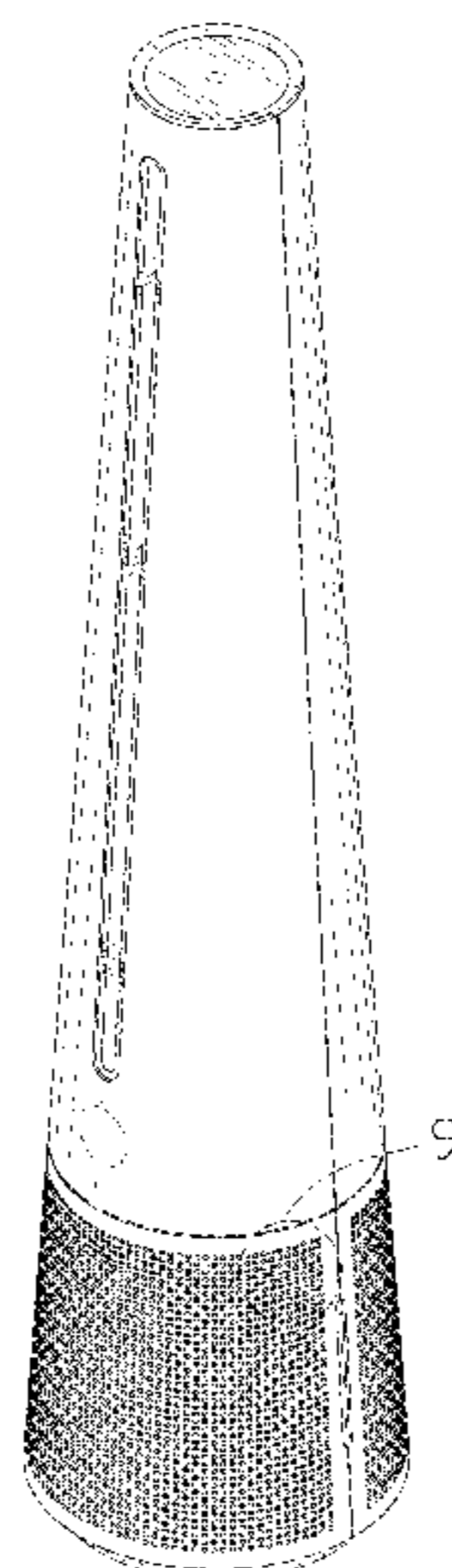
D729,377 S * 5/2015 Chen D23/378
D744,630 S * 12/2015 Ying D23/378
D794,170 S * 8/2017 Lopez D23/332
D812,209 S * 3/2018 Farone D23/355
D818,168 S * 5/2018 Chang D23/370
D838,355 S * 1/2019 Cho D23/365
D918,370 S * 5/2021 Jang D23/364
D923,166 S * 6/2021 Zhao D23/370
D923,767 S * 6/2021 Oram D23/356
D926,959 S * 8/2021 Jang D23/364

FIG. 9 is an enlarged view of a portion 9 shown in FIG. 1; and,
FIG. 10 is an enlarged view of a portion 10 shown in FIG. 7.

The dash-dash broken lines shown in the FIGURES illustrate portions of the bladeless fan that form no part of the claimed design. The dash-dot broken lines encircling portions of the bladeless fan in FIGS. 1, 7, 9, and 10 form no part of the claimed design.

(Continued)

1 Claim, 10 Drawing Sheets



(56)

References Cited

U.S. PATENT DOCUMENTS

D947,337 S * 3/2022 Jang D23/364
D947,340 S * 3/2022 Jang D23/364
2021/0324864 A1* 10/2021 Ying F04F 5/44
2021/0372413 A1* 12/2021 Kim F04D 25/08

FOREIGN PATENT DOCUMENTS

EP 002486647 6/2014
JP 1458343 11/2012
JP 1672041 S 11/2020

* cited by examiner

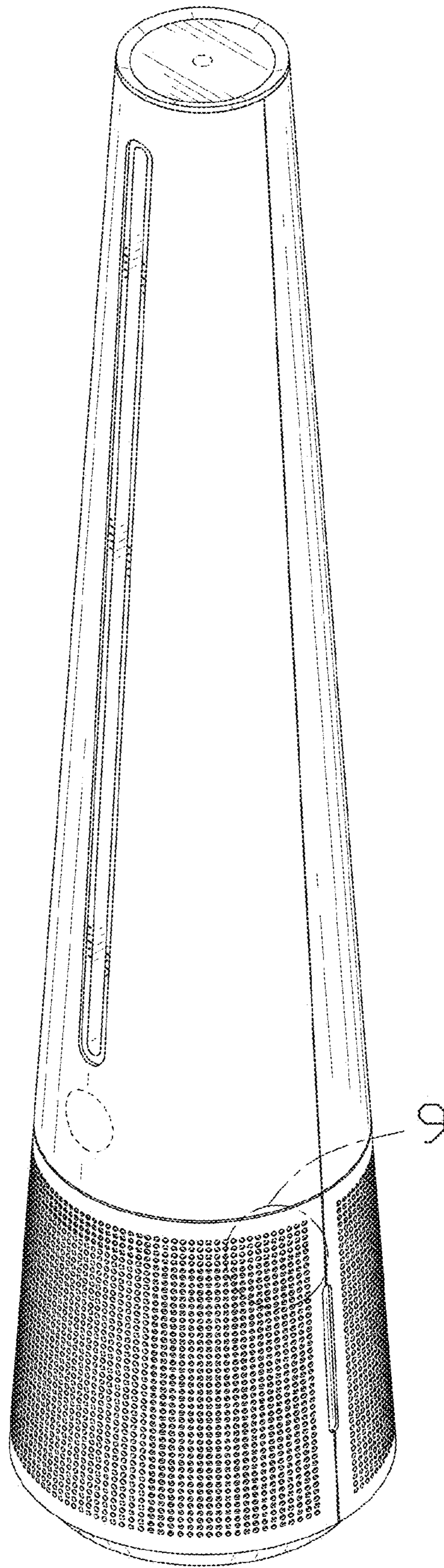


FIG. 1

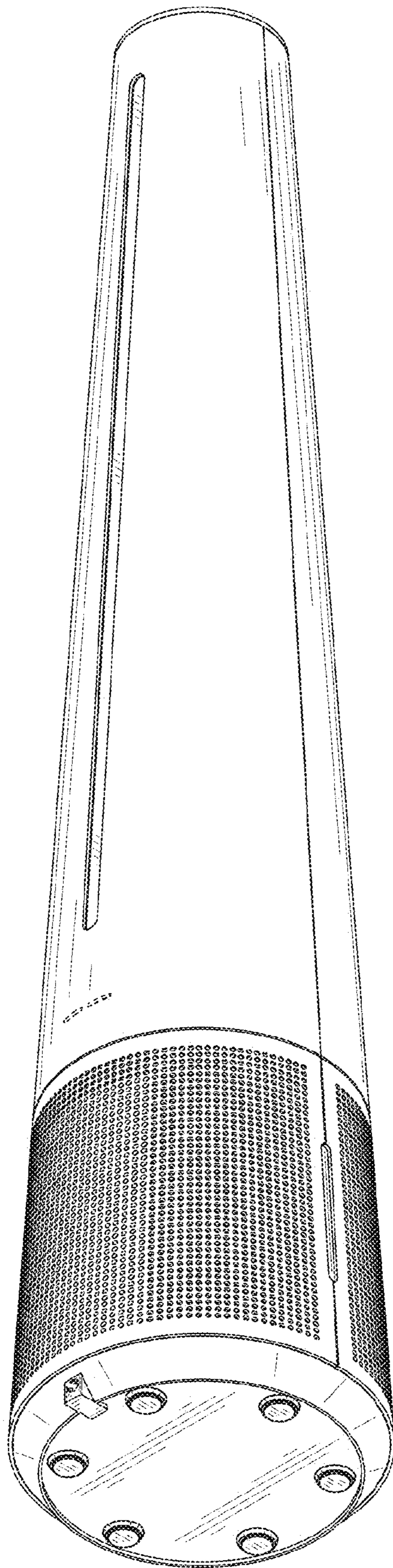


FIG. 2

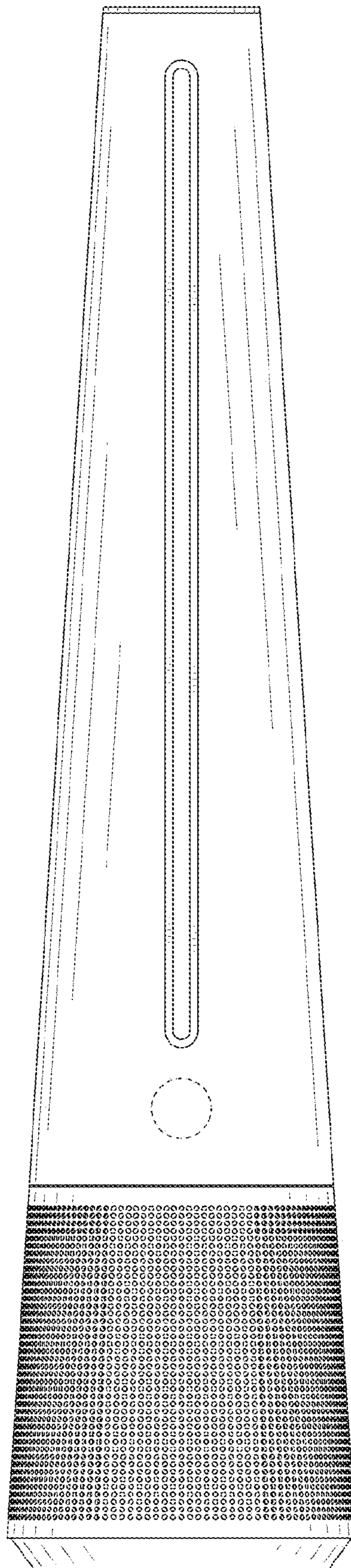


FIG. 3

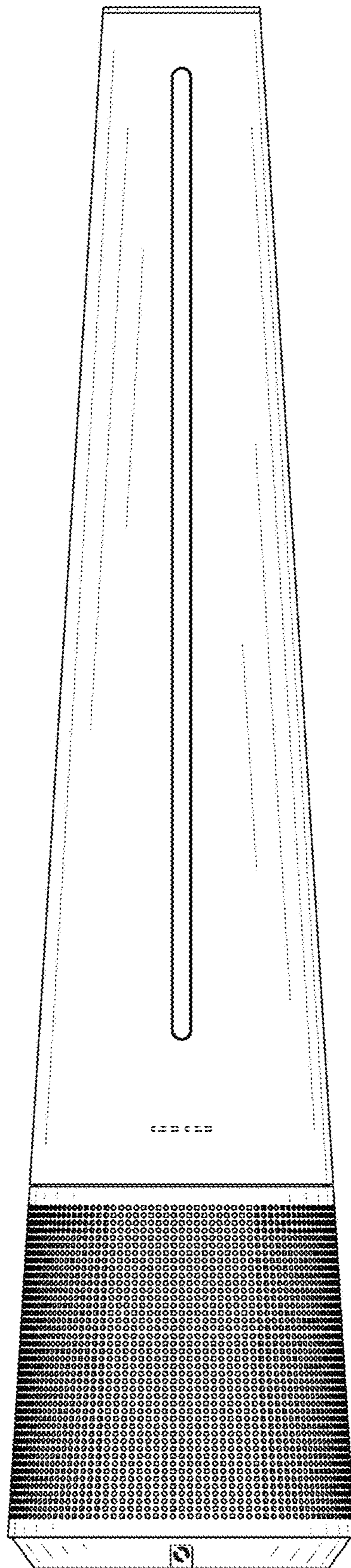


FIG. 4

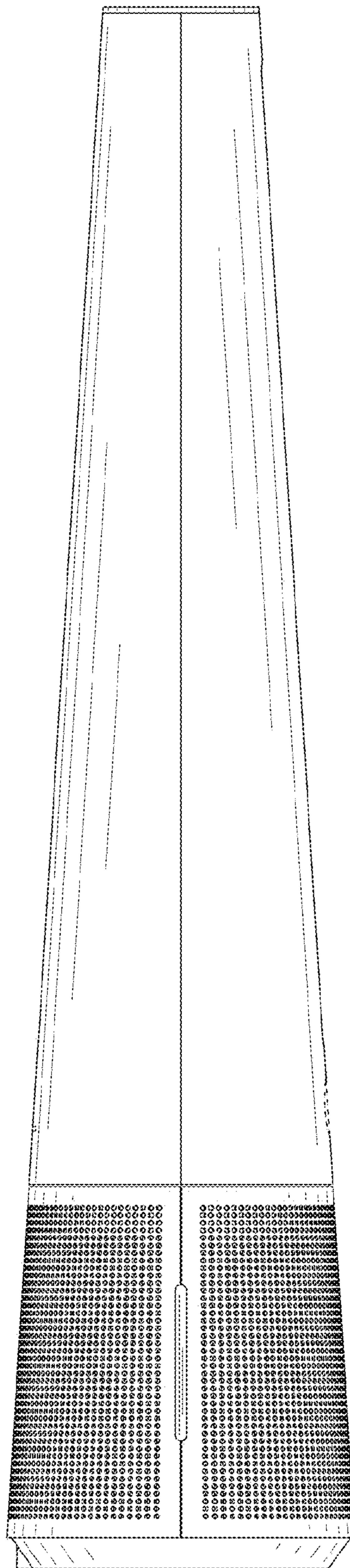


FIG. 5

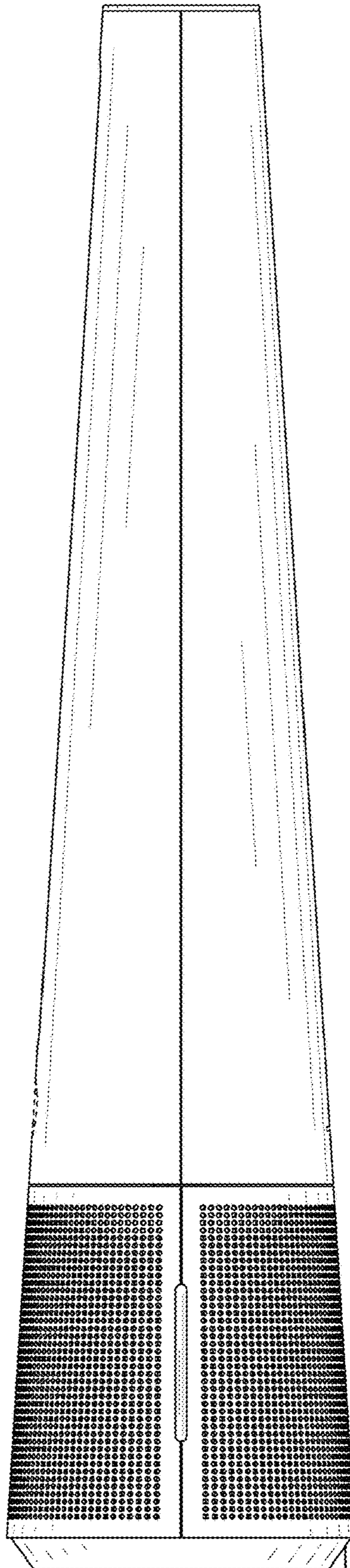


FIG. 6

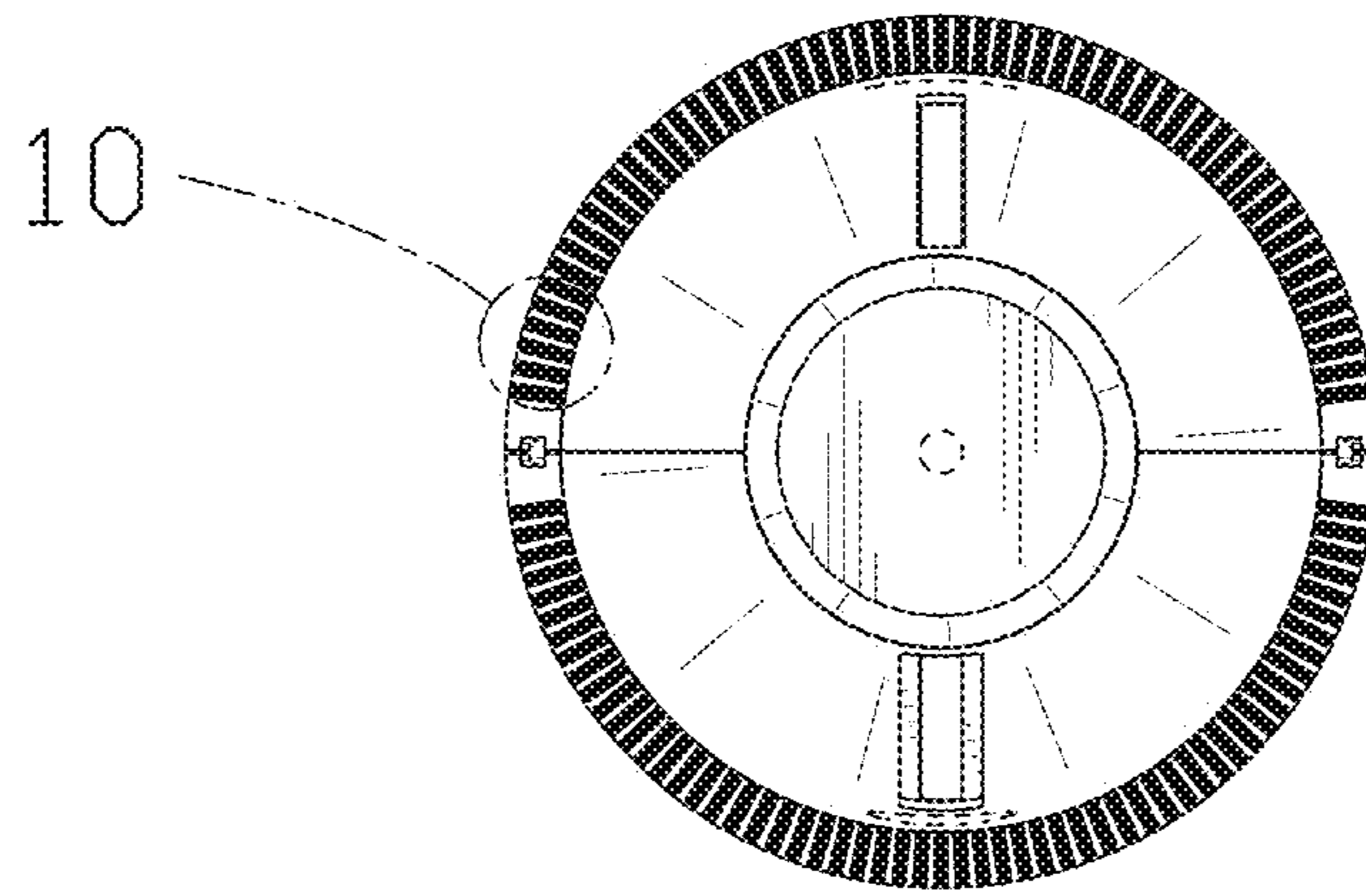


FIG. 7

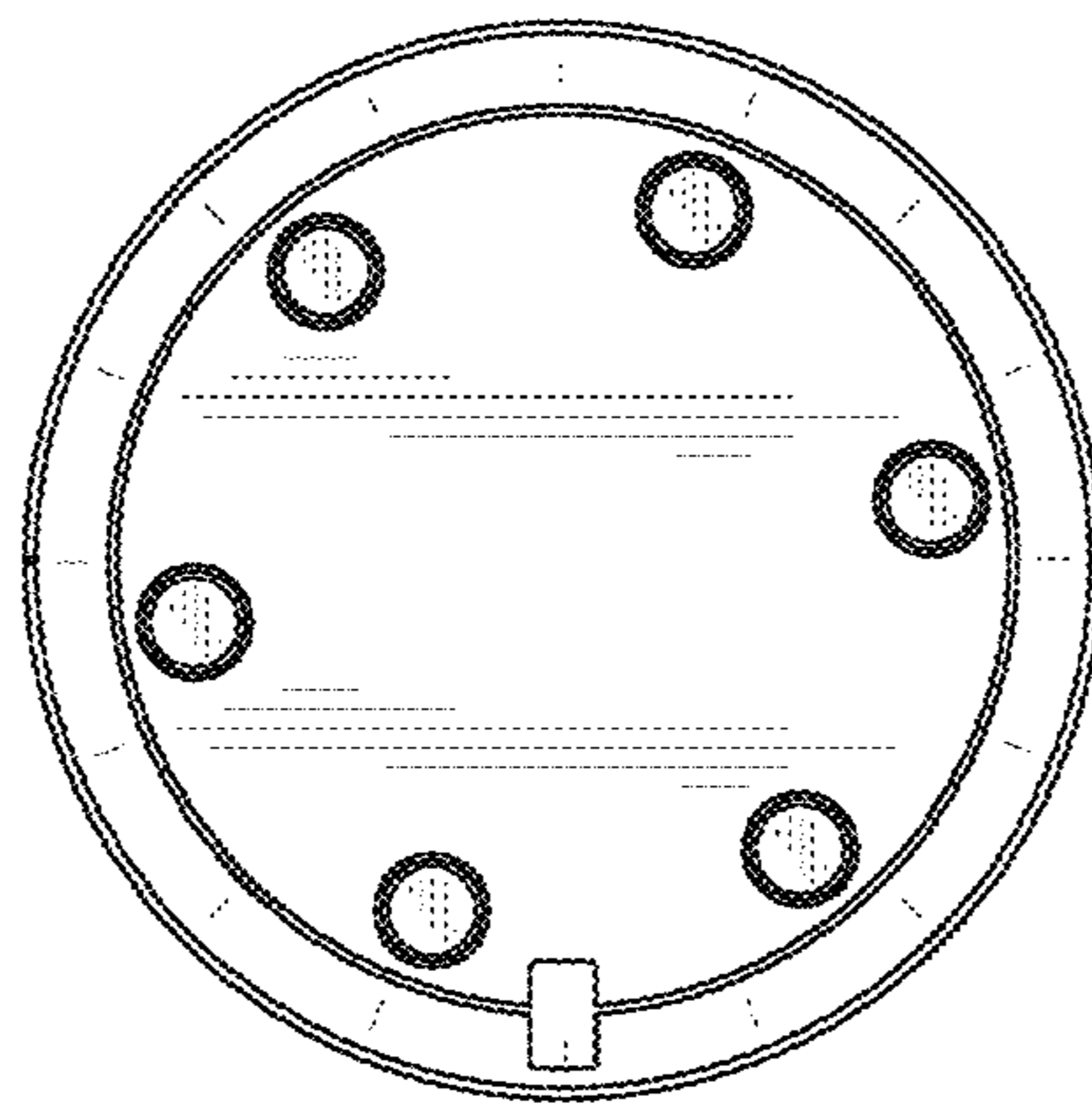


FIG. 8

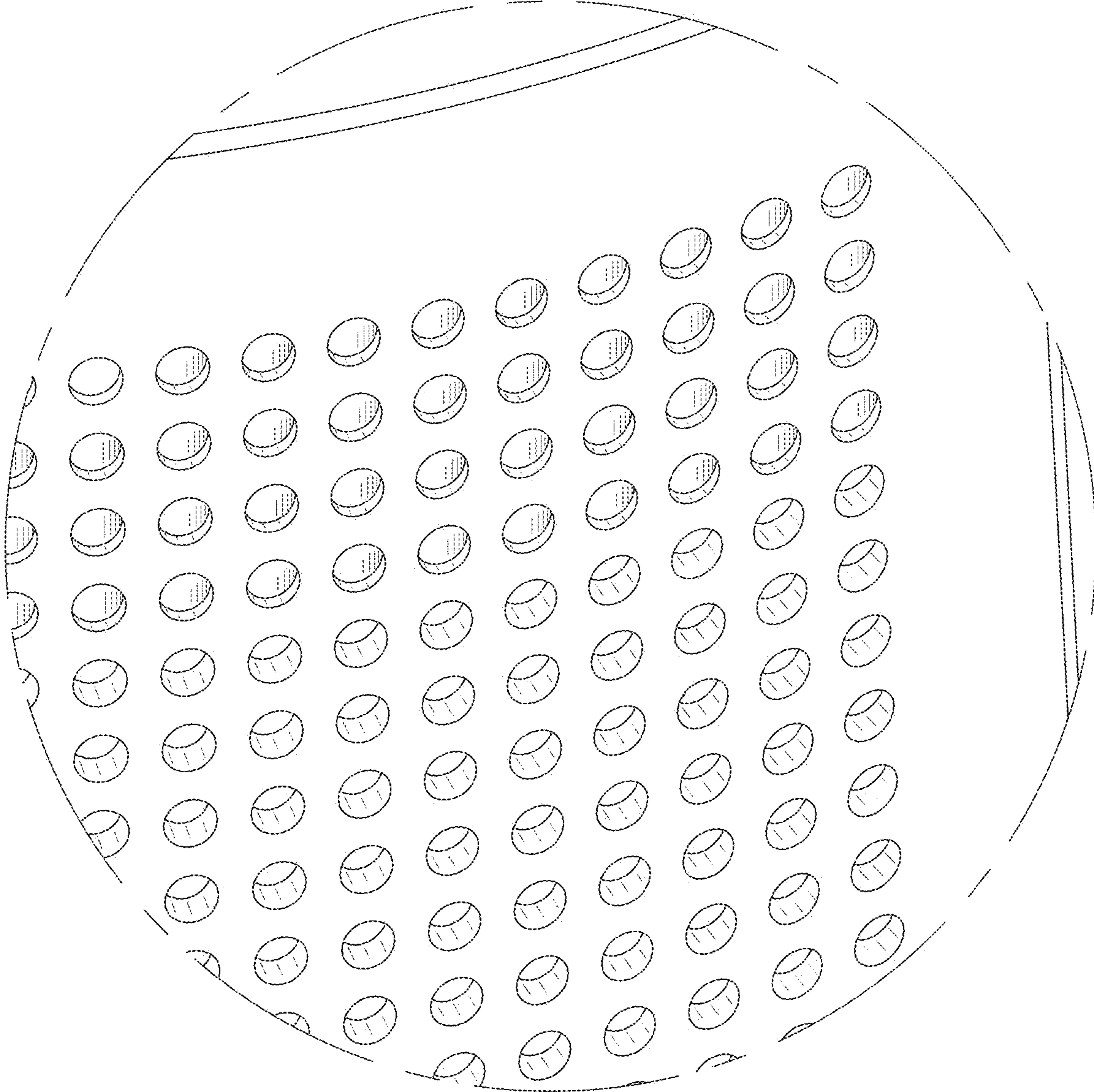


FIG. 9

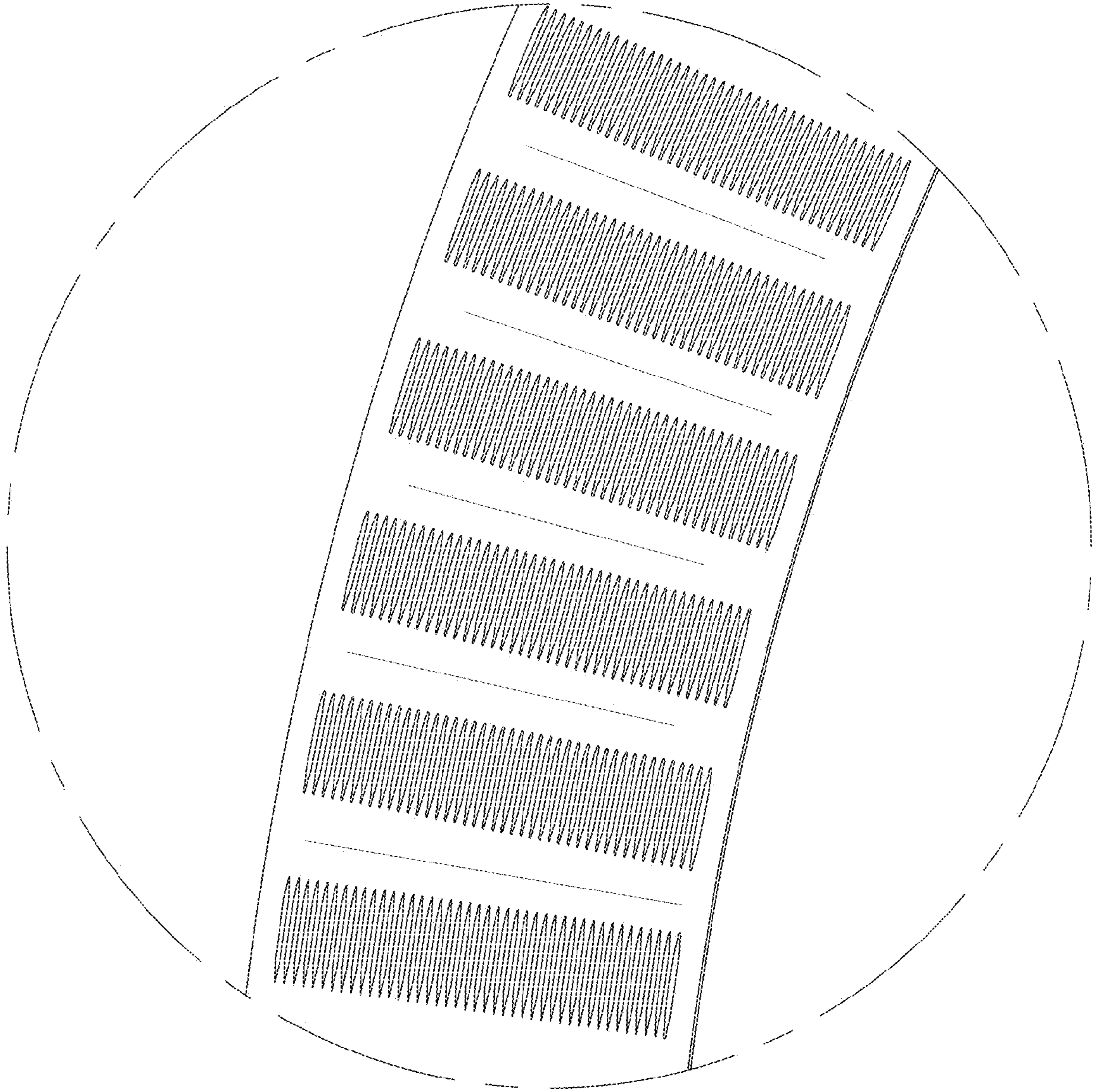


FIG. 10