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(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

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

(Continued)

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OTHER PUBLICATIONS

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

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

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

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(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**

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.

**DESCRIPTION**

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.

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.

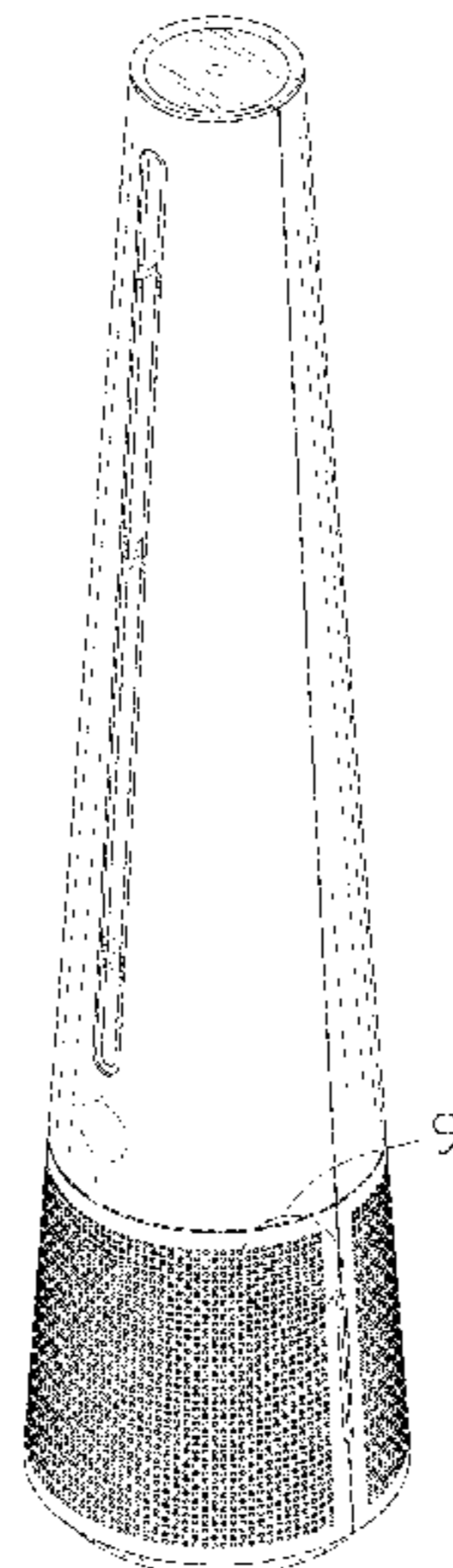
(56) **References Cited**

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

(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

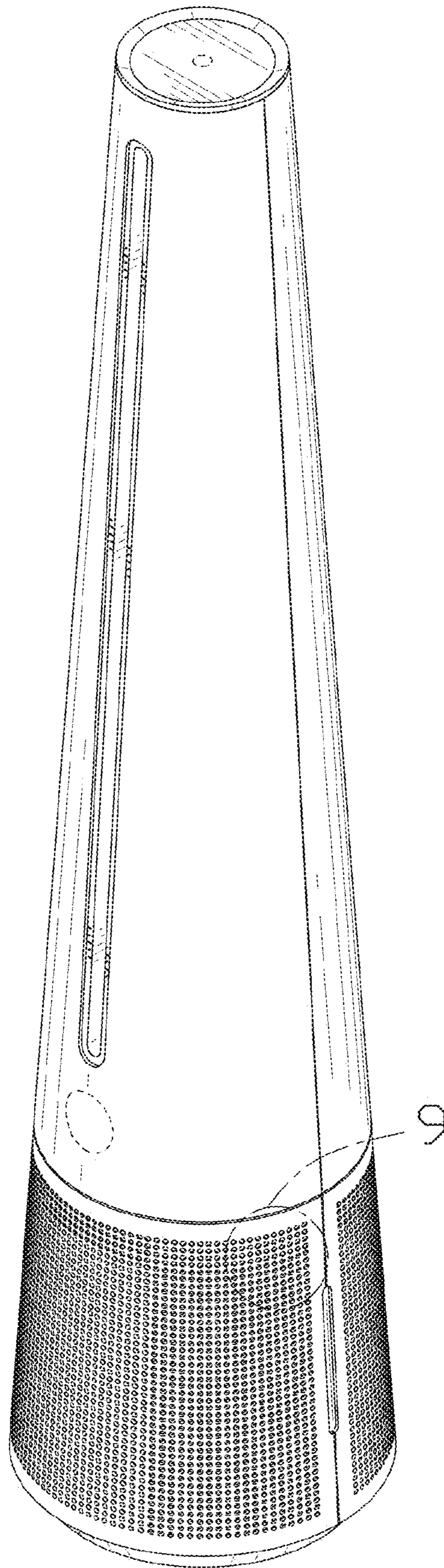


FIG. 1

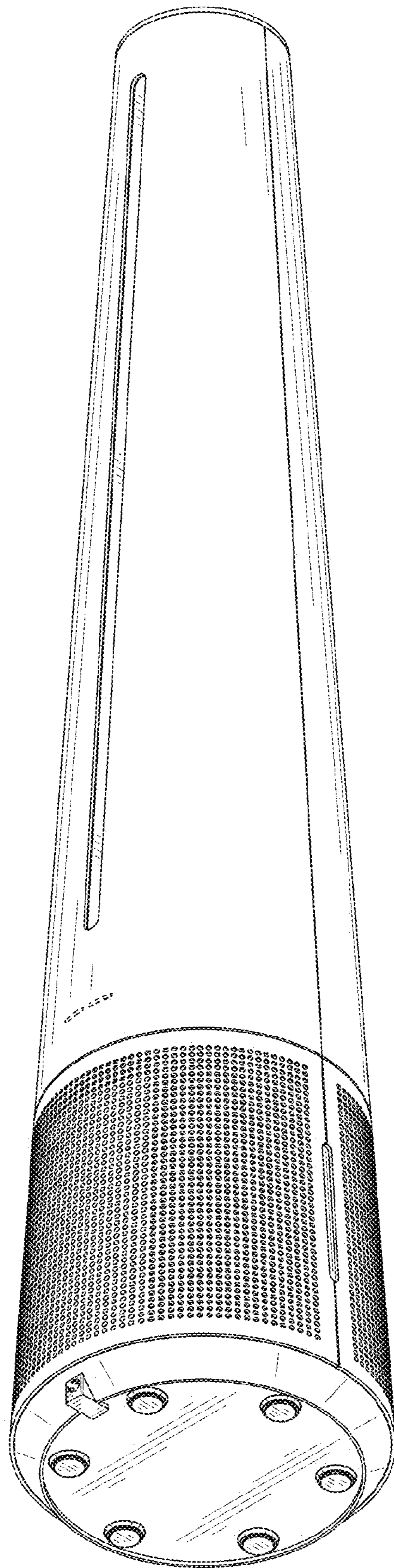


FIG. 2

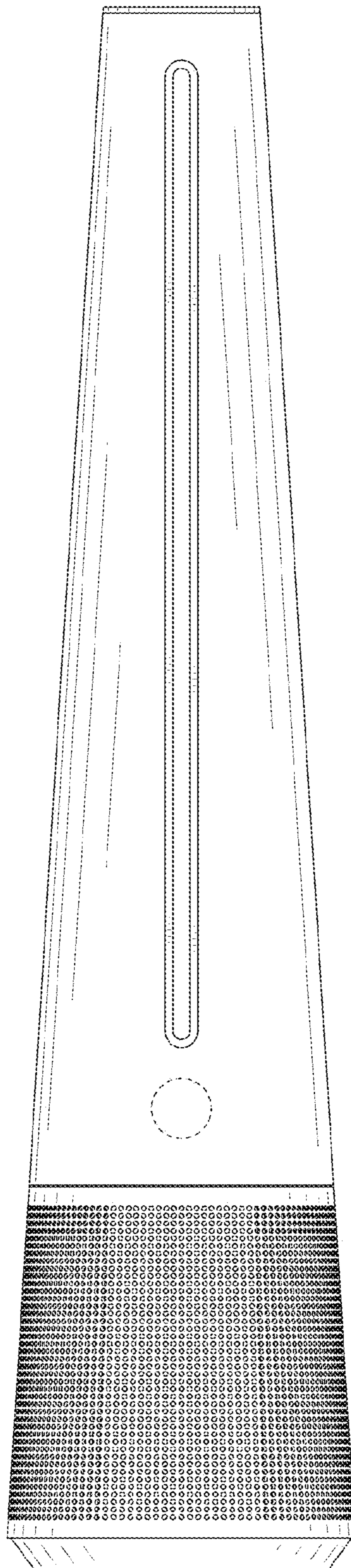


FIG. 3

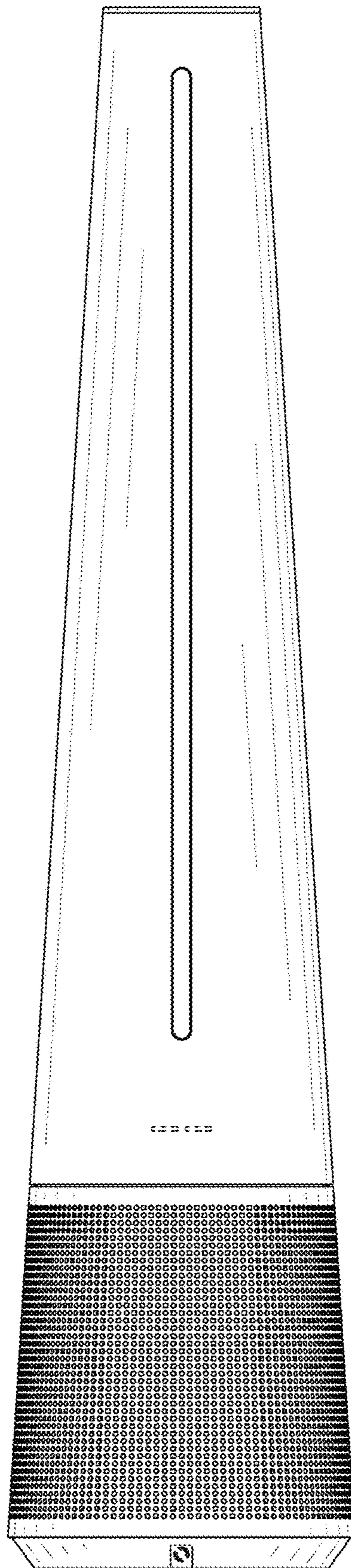


FIG. 4

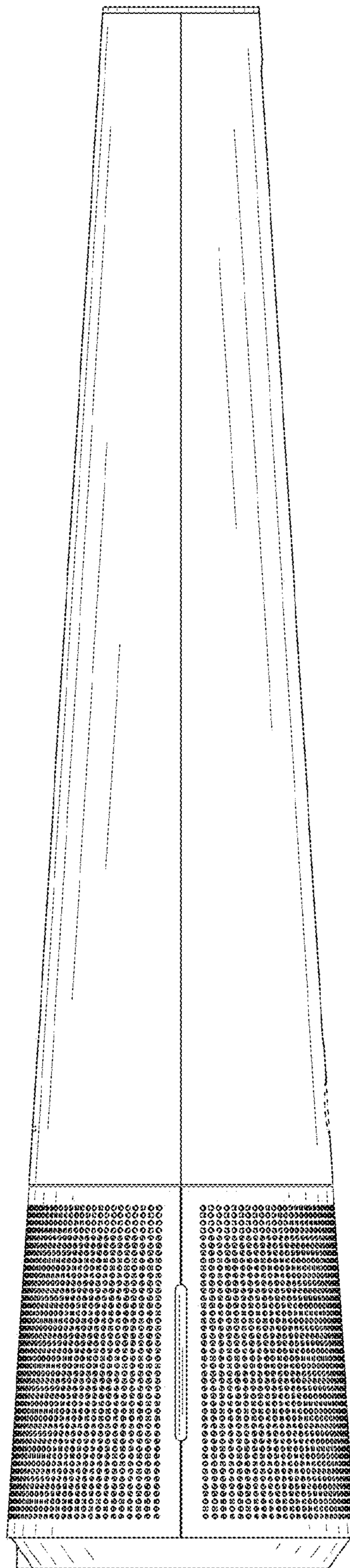


FIG. 5

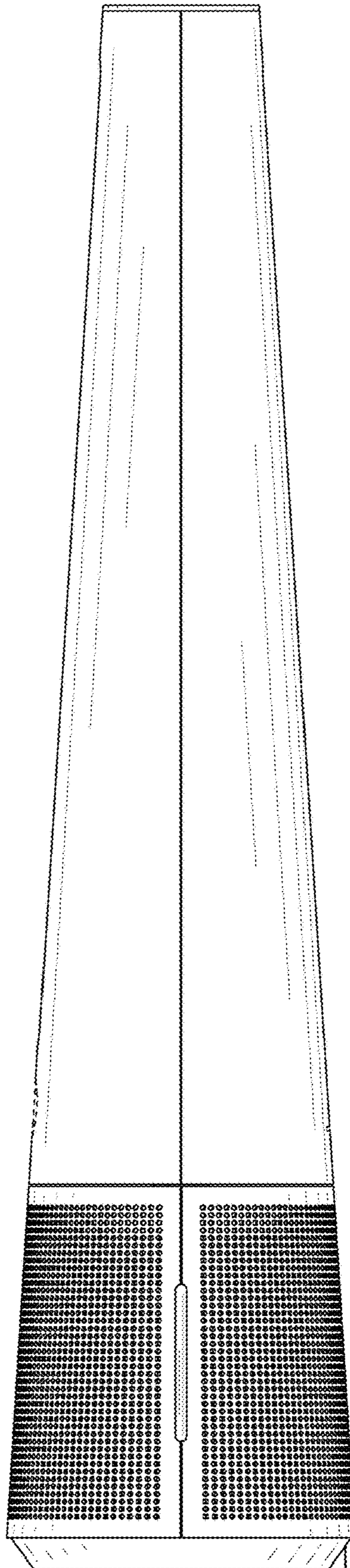


FIG. 6



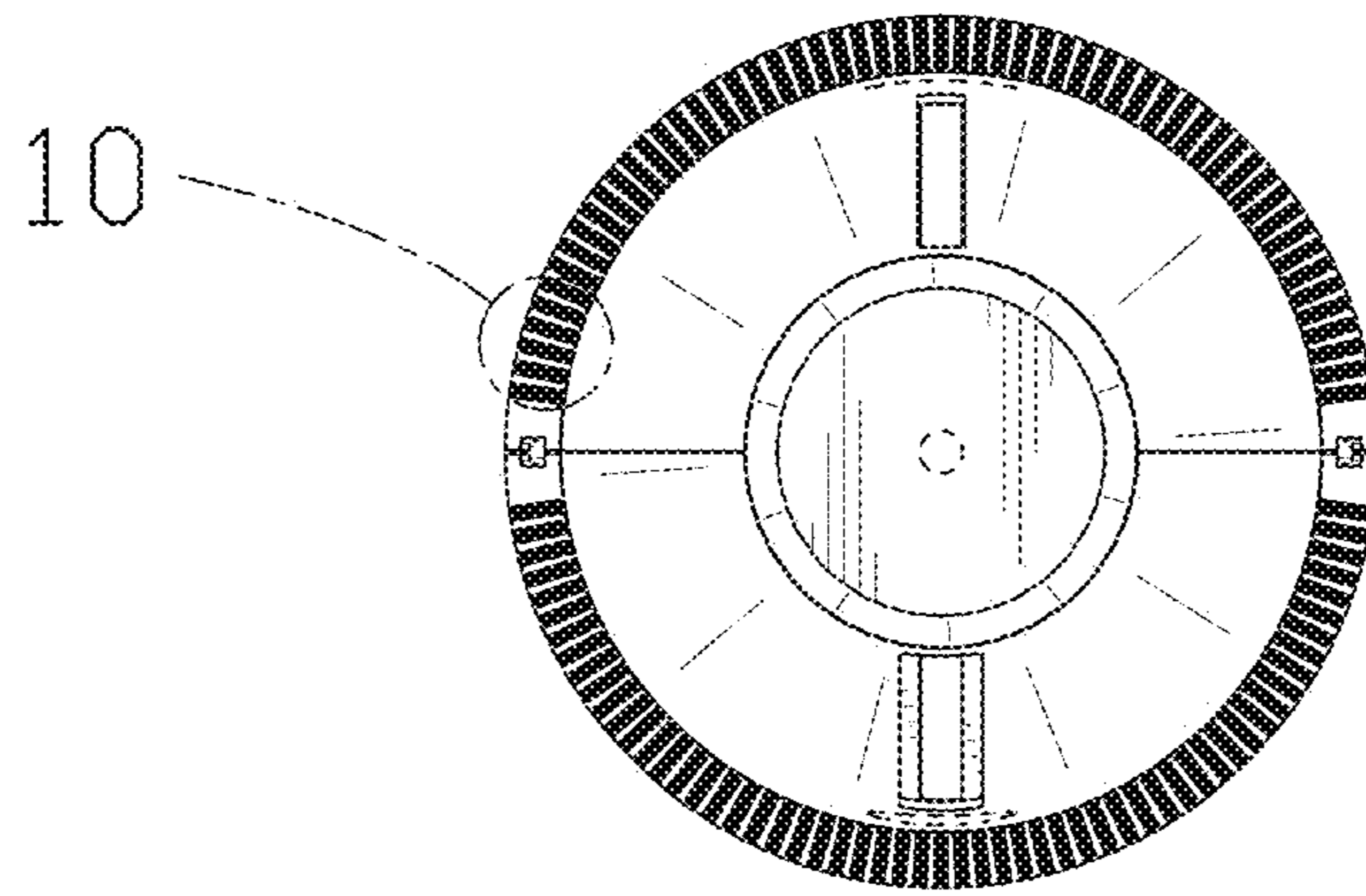


FIG. 7

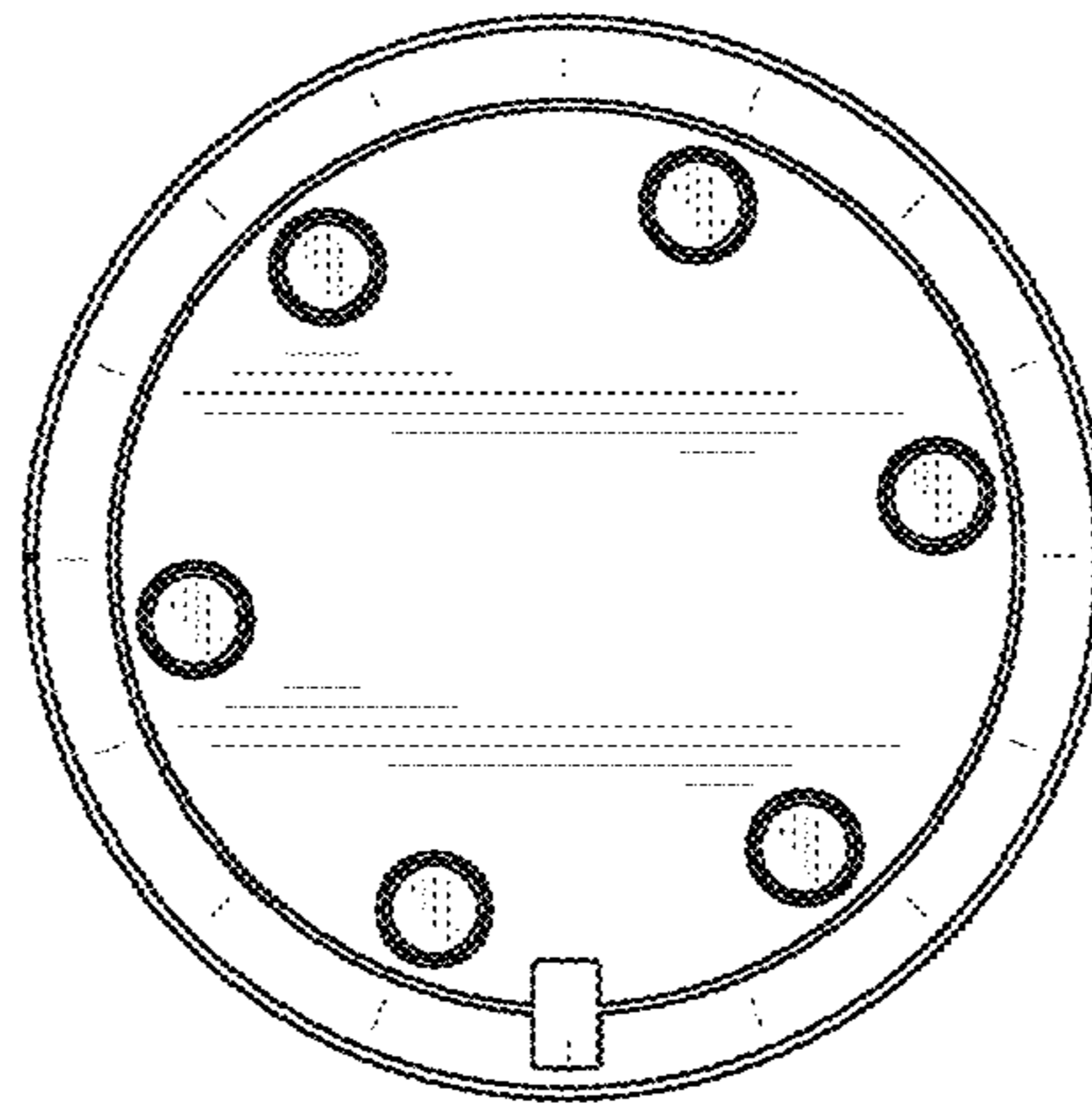


FIG. 8

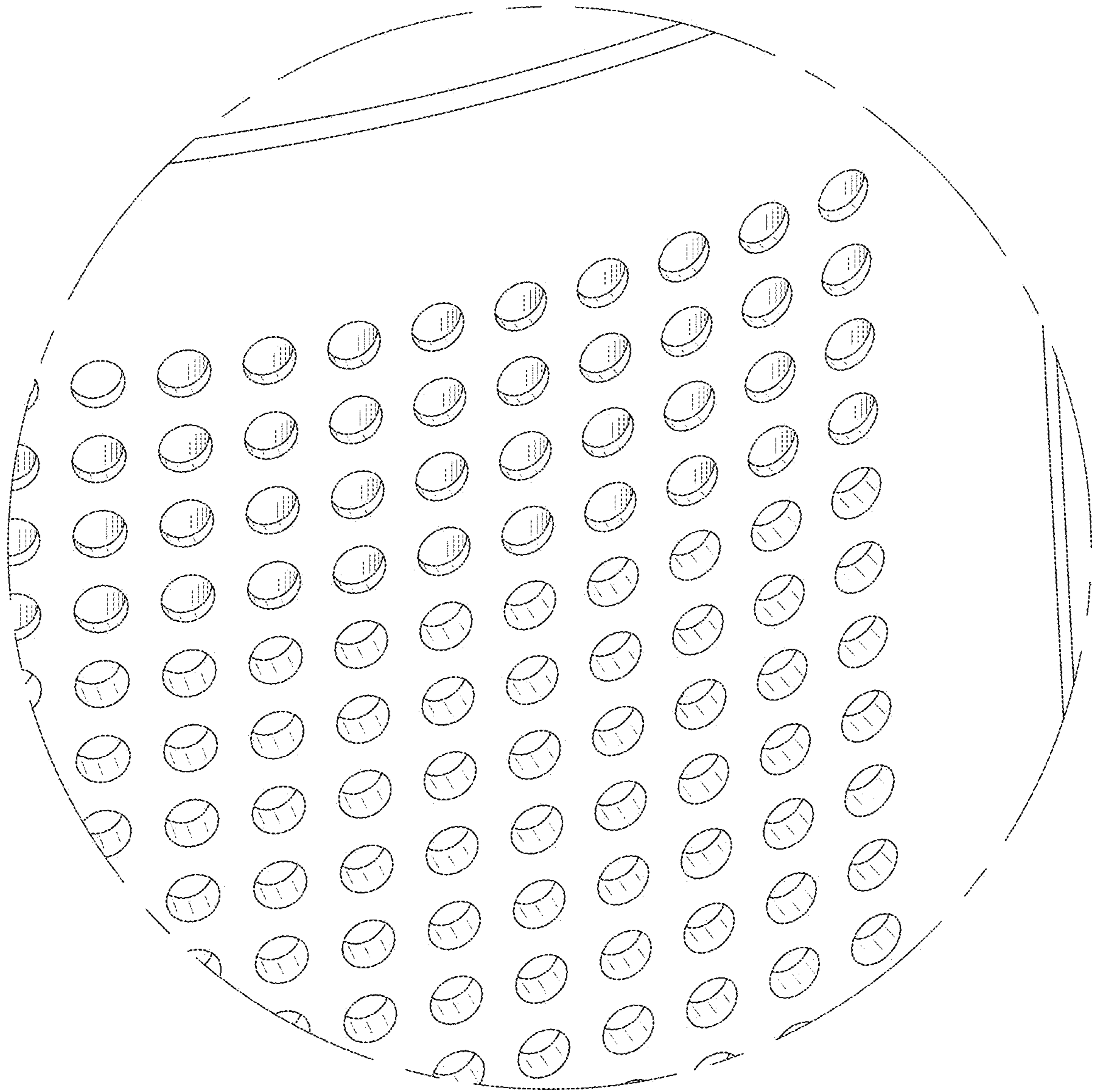


FIG. 9

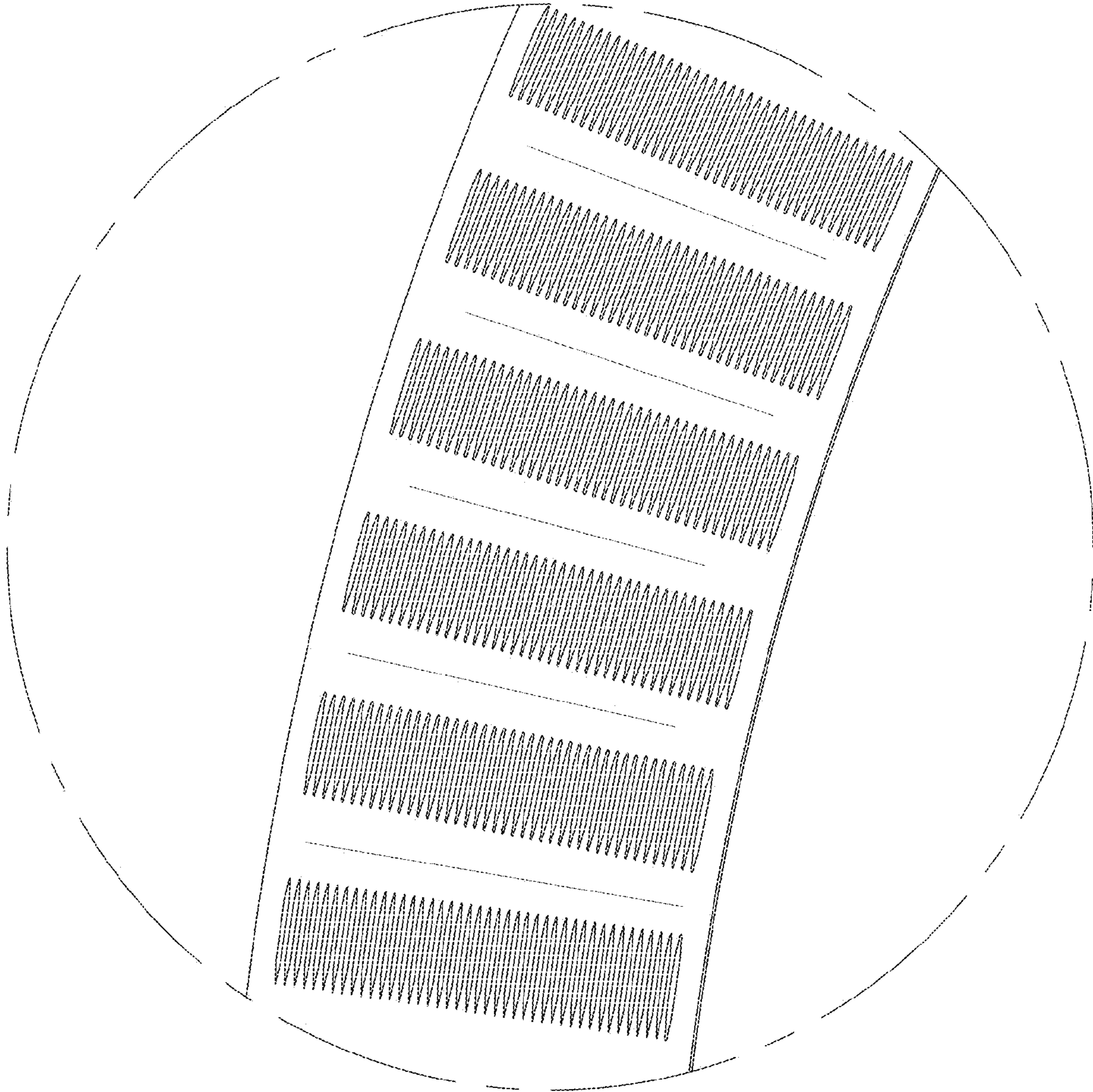


FIG. 10