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(12) **United States Design Patent** (10) **Patent No.:** **US D930,140 S**  
**Fu** (45) **Date of Patent:** **\*\* Sep. 7, 2021**

- (54) **HEATING AND COOLING FAN**
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- (72) Inventor: **Ruochen Fu**, Changsha (CN)
- (\*\*) Term: **15 Years**
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- (51) **LOC (13) Cl.** ..... **23-04**
- (52) **U.S. Cl.**  
USPC ..... **D23/370**
- (58) **Field of Classification Search**  
USPC ..... D23/370-385, 411  
See application file for complete search history.

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(Continued)

Primary Examiner — Janice Hallmark

(57) **CLAIM**

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

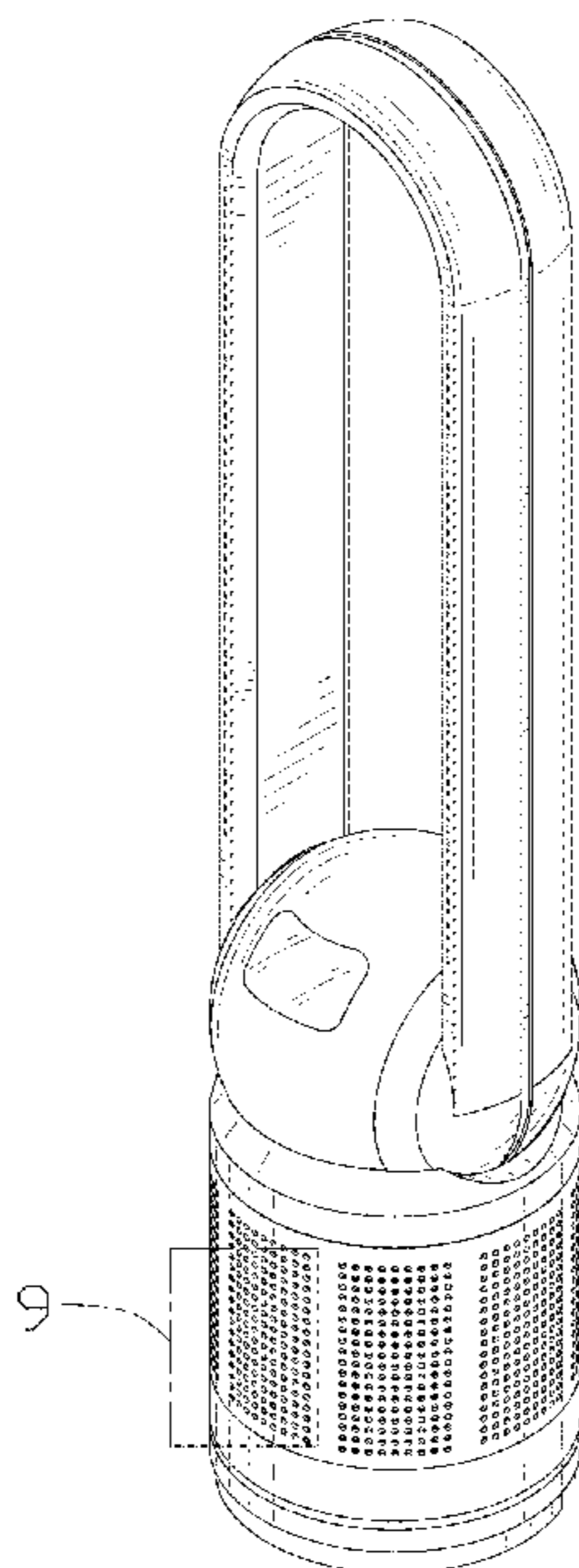
**DESCRIPTION**

FIG. 1 is a front and top perspective view of a heating, and cooling fan, showing my new design;  
 FIG. 2 is a rear and bottom perspective view thereof;  
 FIG. 3 is a front elevation view thereof;  
 FIG. 4 is a rear elevation view thereof;  
 FIG. 5 is a left side elevation view thereof;  
 FIG. 6 is a right side elevation view thereof;  
 FIG. 7 is a top plan view thereof;  
 FIG. 8 is a bottom plan view thereof; and,  
 FIG. 9 is an enlarged view of a portion indicated with numeric 9 in FIG. 1.

The broken lines in the figures illustrate portions of the heating and cooling fan that form no part of the claimed design. The dash dot dash lines in FIGS. 1 and 9 are for the purpose of depicting the cut line of the enlarged view and form no part of the claim.

**1 Claim, 9 Drawing Sheets**

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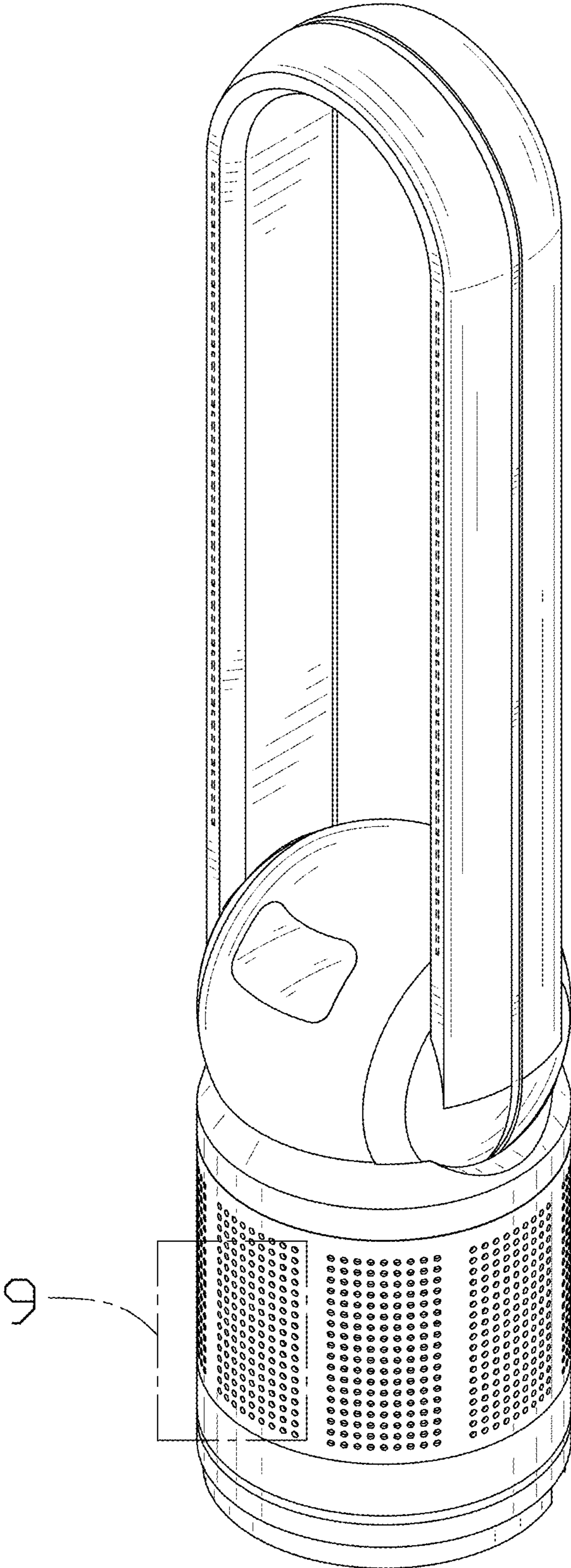


FIG. 1

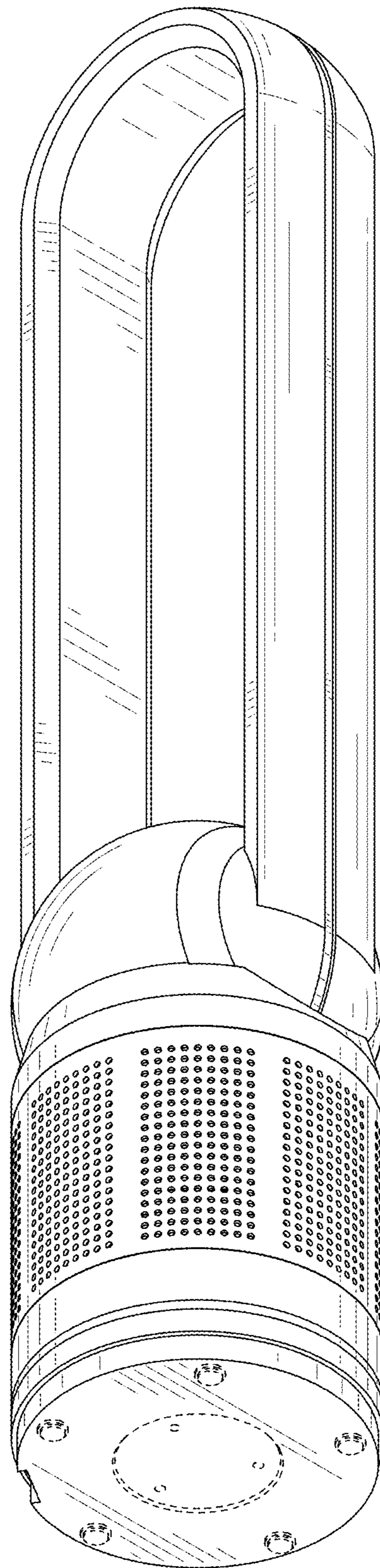


FIG. 2

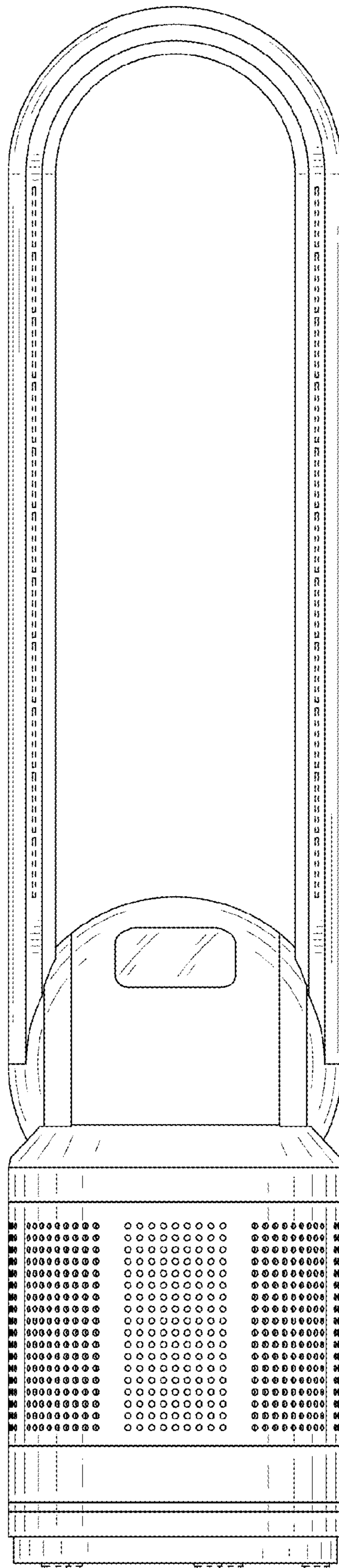


FIG. 3

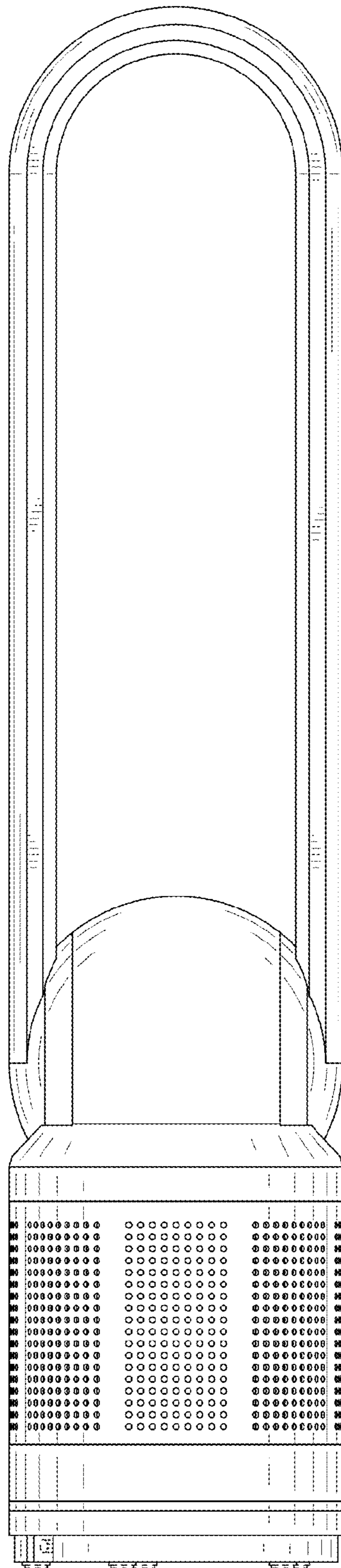


FIG. 4

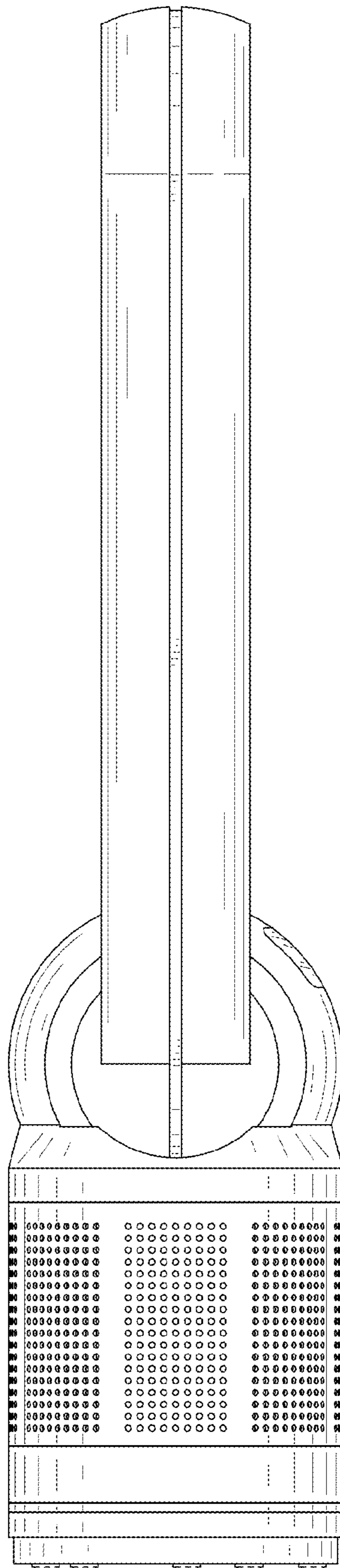


FIG. 5

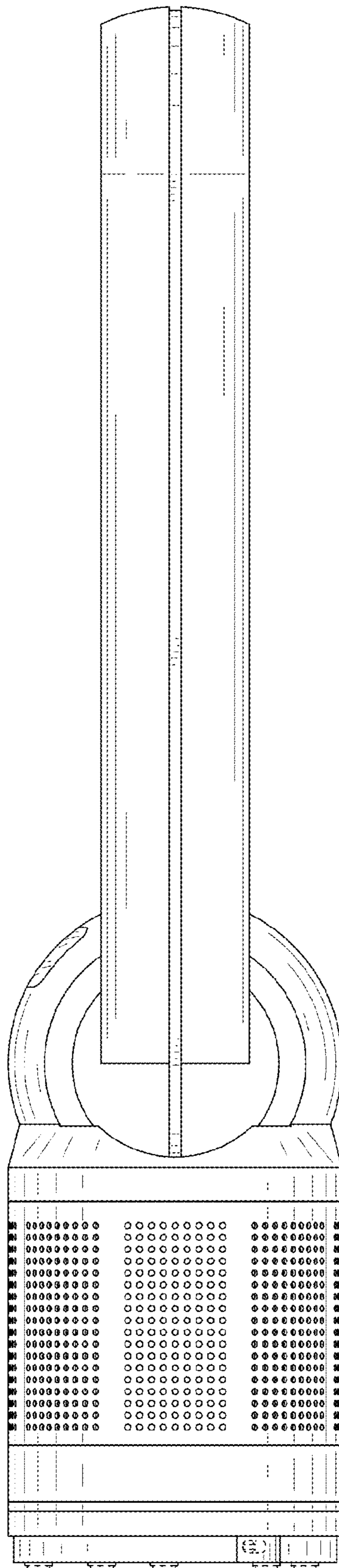


FIG. 6



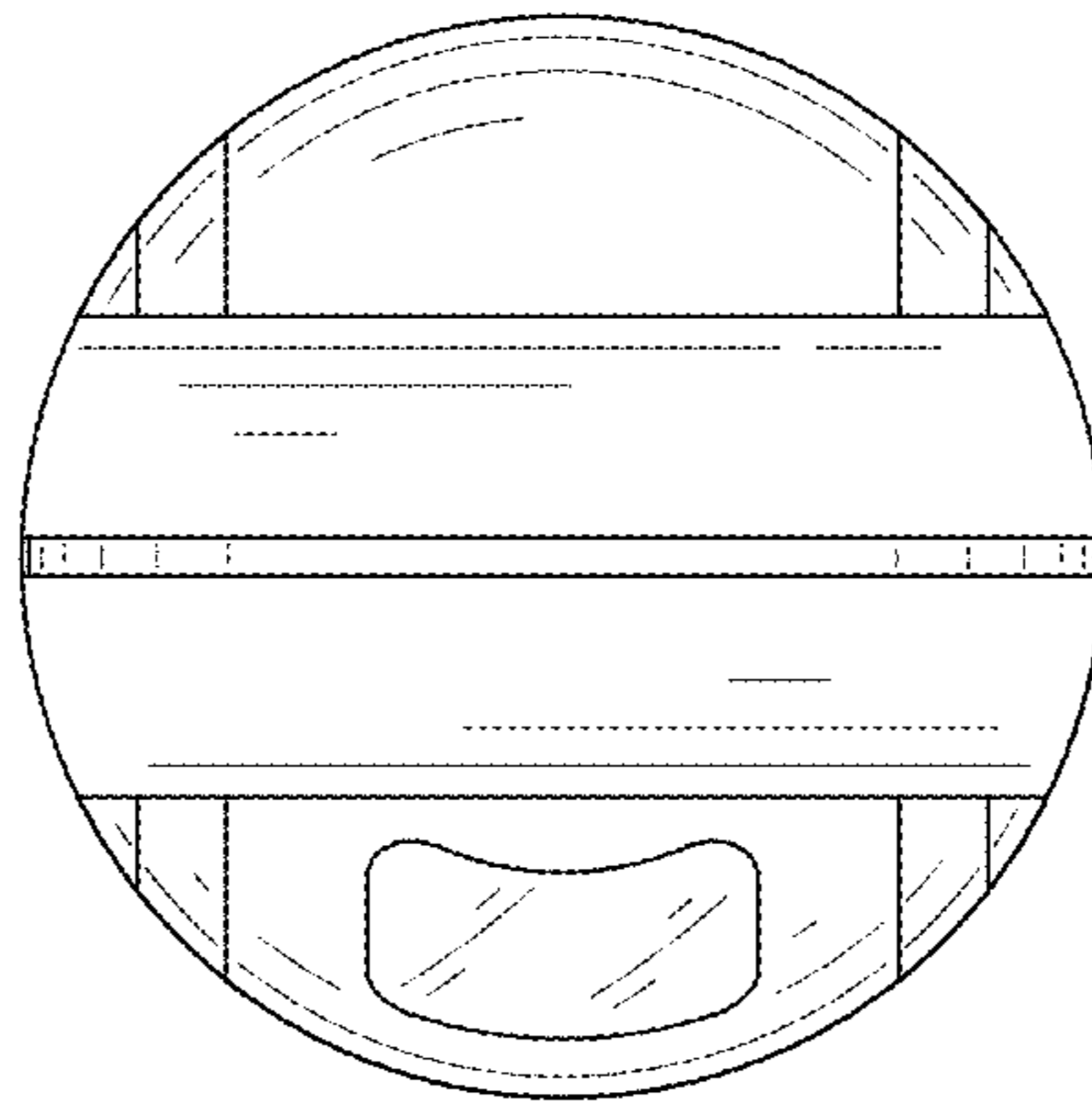


FIG. 7

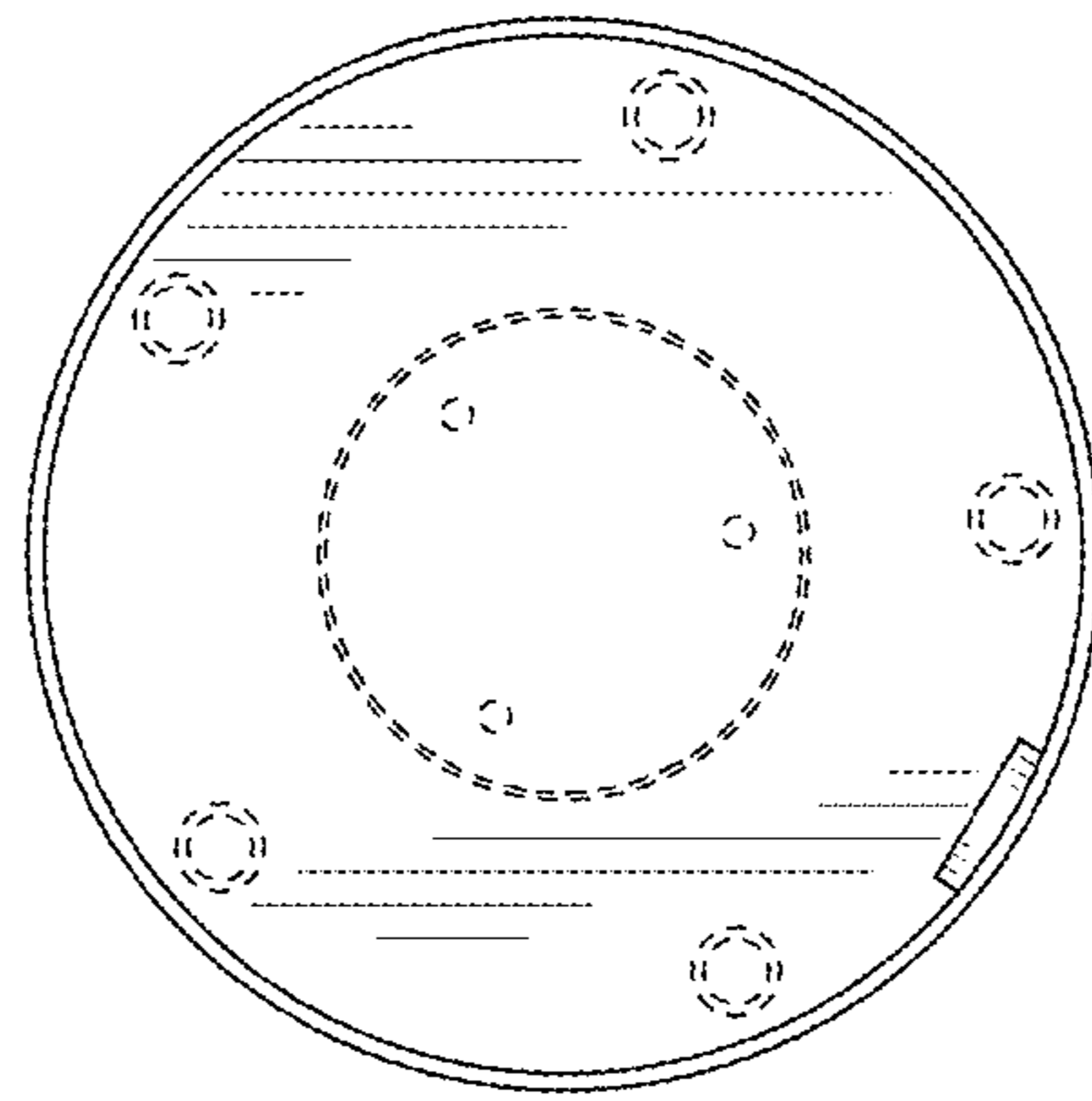


FIG. 8

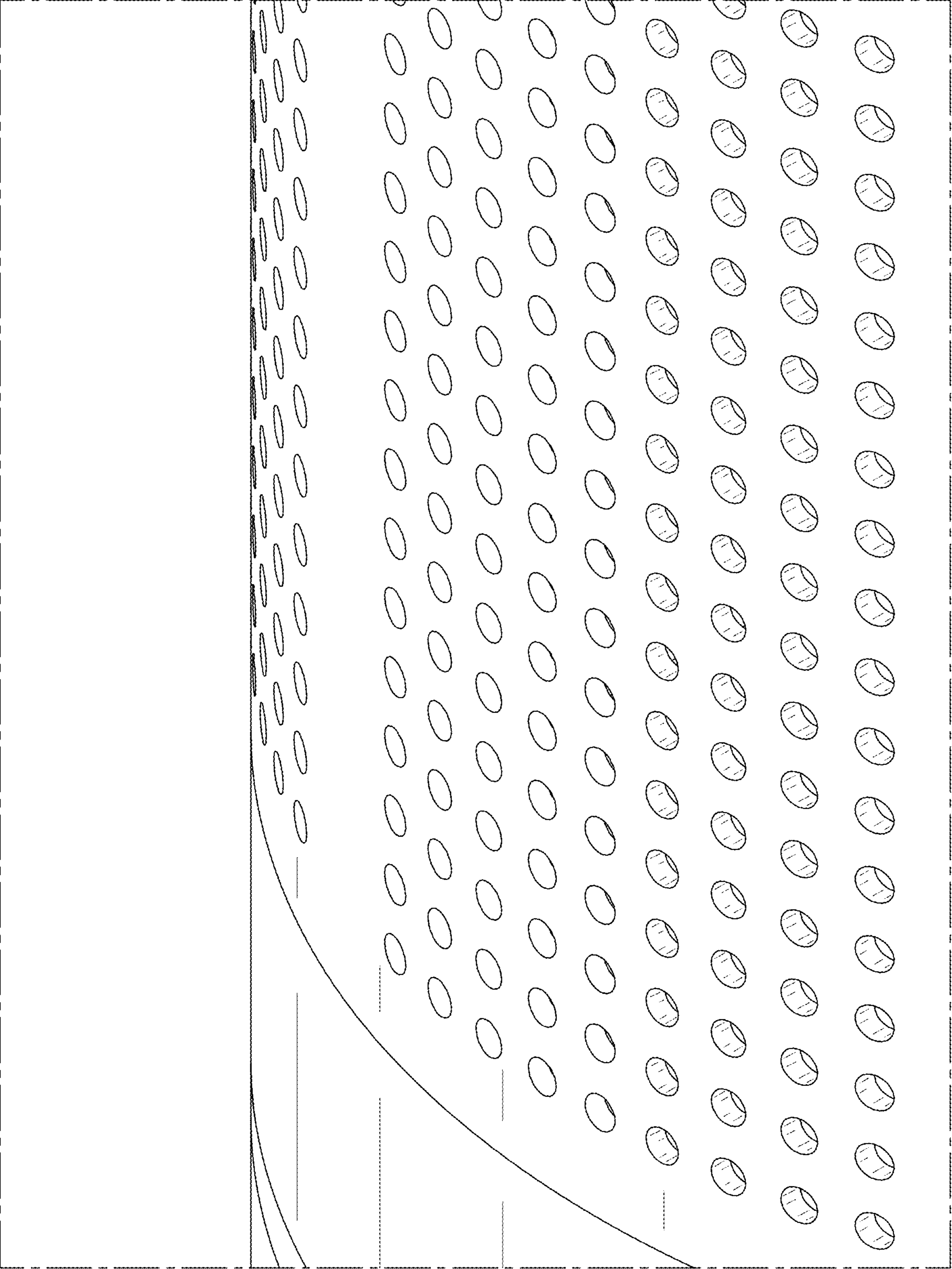


FIG. 9