



US00D901407S

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

(10) **Patent No.:** **US D901,407 S**

(45) **Date of Patent:** **\*\* Nov. 10, 2020**

(54) **INTEGRATED TYPE ION SHIELD FOR SEMICONDUCTOR MANUFACTURING APPARATUS**

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(71) Applicant: **Hitachi High-Tech Corporation**,  
Tokyo (JP)

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(72) Inventors: **Yutaka Kouzuma**, Tokyo (JP);  
**Michiaki Kobayashi**, Tokyo (JP);  
**Kazuyuki Hirozane**, Tokyo (JP);  
**Nobuya Miyoshi**, Tokyo (JP); **Kohei Kawamura**, Tokyo (JP); **Hiroyuki Kobayashi**, Tokyo (JP)

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(73) Assignee: **Hitachi High-Tech Corporation**,  
Tokyo (JP)

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

*Primary Examiner* — Janice Hallmark

*Assistant Examiner* — Harold E Blackwell, II

(74) *Attorney, Agent, or Firm* — Crowell & Moring LLP

(21) Appl. No.: **29/677,764**

(22) Filed: **Jan. 23, 2019**

(57) **CLAIM**

(30) **Foreign Application Priority Data**

The ornamental design for an integrated type ion shield for semiconductor manufacturing apparatus, as shown and described.

Jul. 24, 2018 (JP) ..... 2018-016191

(51) **LOC (12) Cl.** ..... **13-03**

(52) **U.S. Cl.**  
USPC ..... **D13/184; D26/138**

(58) **Field of Classification Search**  
USPC .... D13/184; D26/1, 24, 74, 72, 36, 59, 118,  
D26/133, 134

CPC ..... H01R 5/00; H01R 13/46; H01R 13/514;  
H01R 31/02; F21V 5/00; H01J 19/54;  
H01J 5/48; H01J 1/02; H01J 5/16; H01J  
5/00; H01J 5/50; H01L 33/642; H01L  
33/643; H01L 33/644

See application file for complete search history.

**DESCRIPTION**

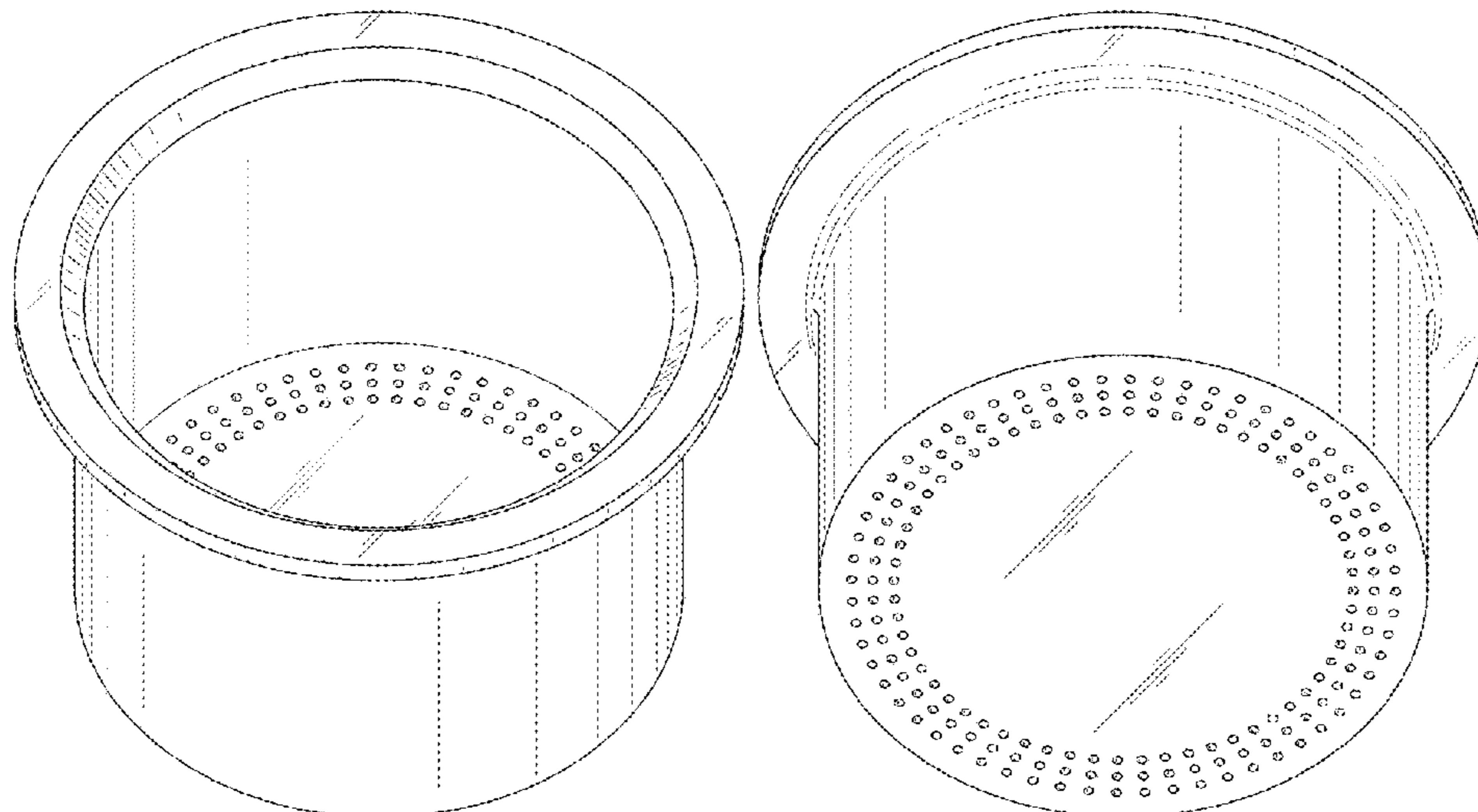
FIG. 1 is a front, top and right side perspective view of an integrated type ion shield for semiconductor manufacturing apparatus according to the design;  
FIG. 2 is a rear, bottom and left side perspective view thereof;  
FIG. 3 is a front elevational view thereof;  
FIG. 4 is a rear elevational view thereof;  
FIG. 5 is a right side elevational view thereof;  
FIG. 6 is a left side elevational view thereof;  
FIG. 7 is a top plan view thereof;  
FIG. 8 is a bottom plan view thereof; and,  
FIG. 9 is a cross-sectional view taken along line 9-9 of FIG. 7.

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**1 Claim, 7 Drawing Sheets**



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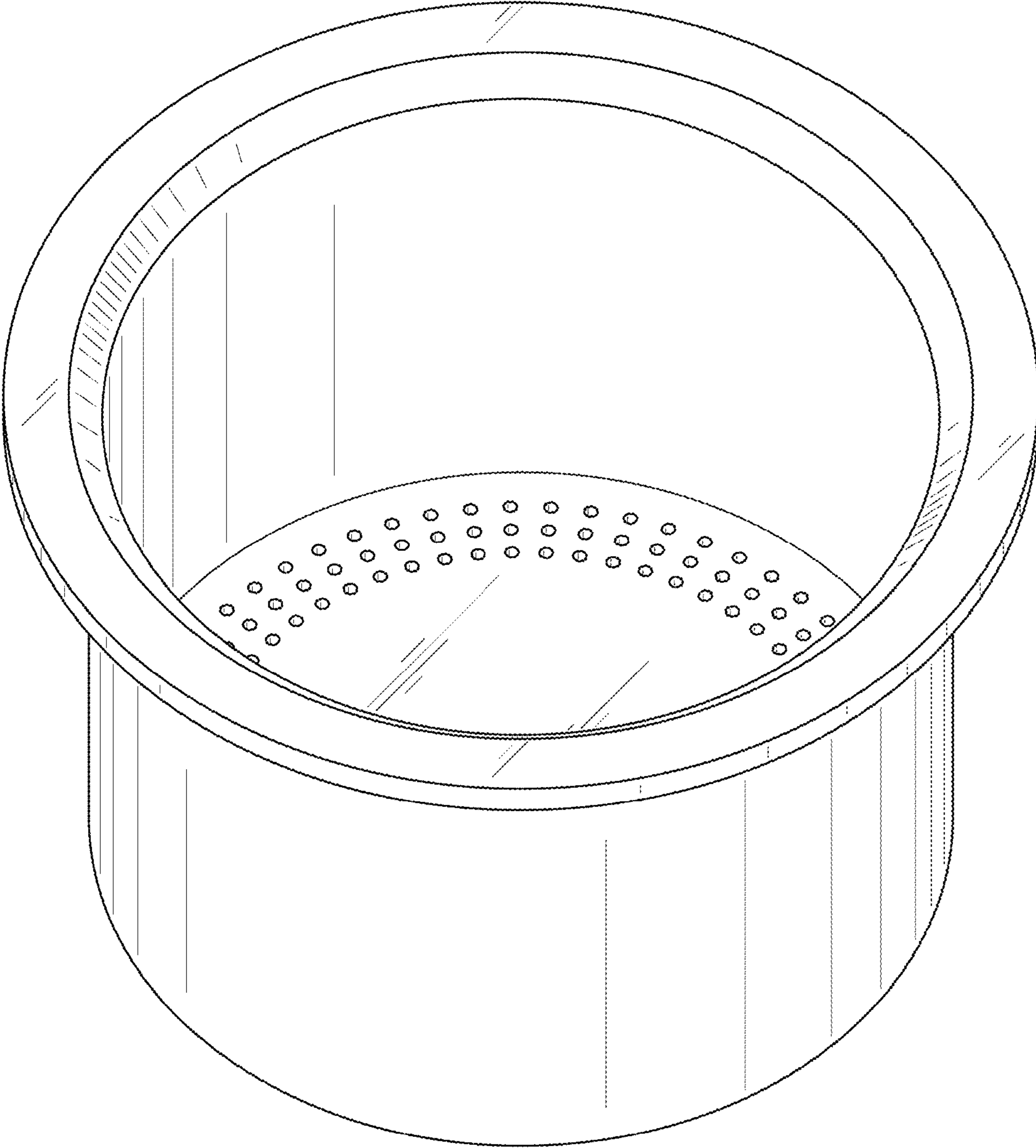


FIG. 1

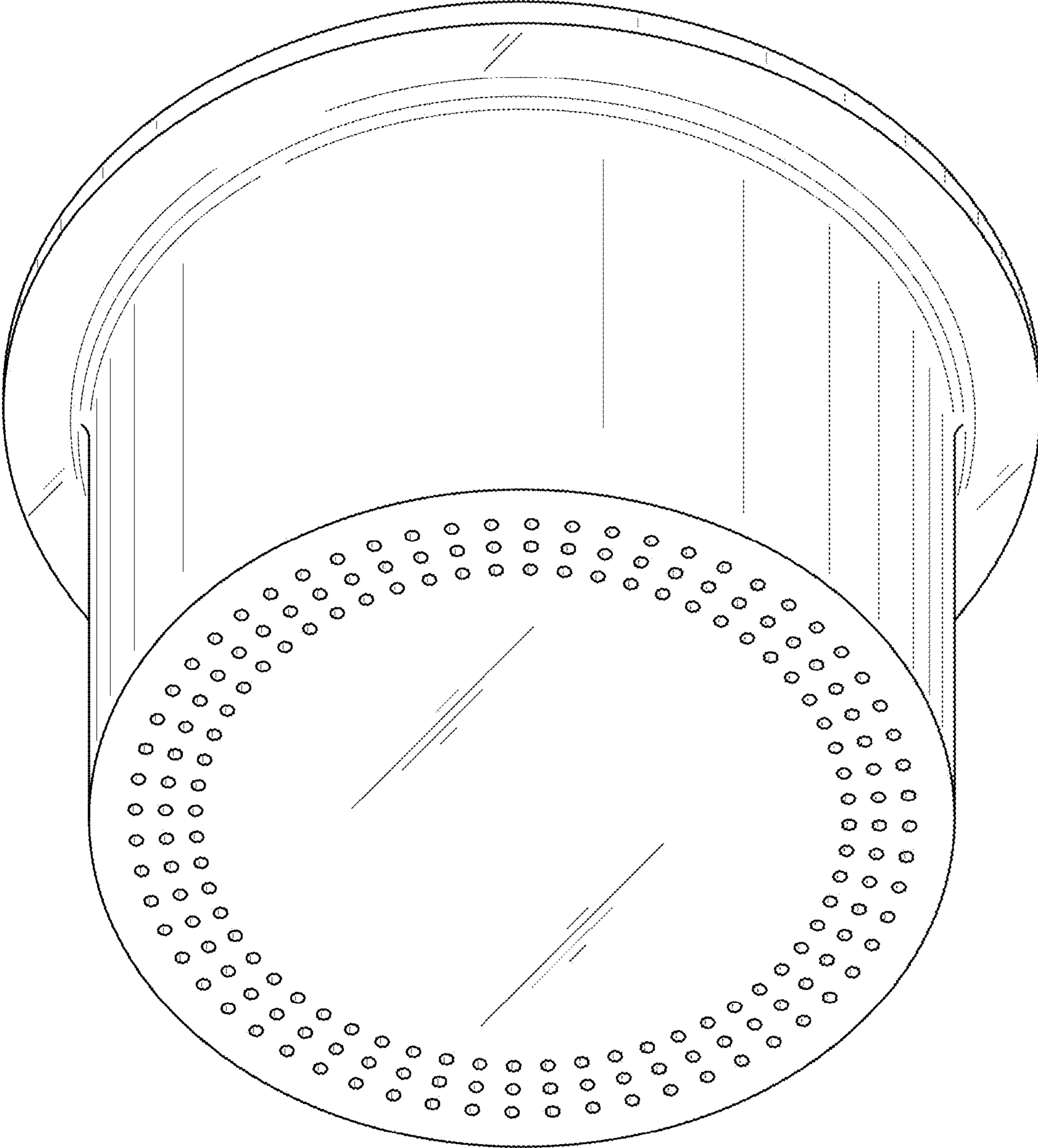
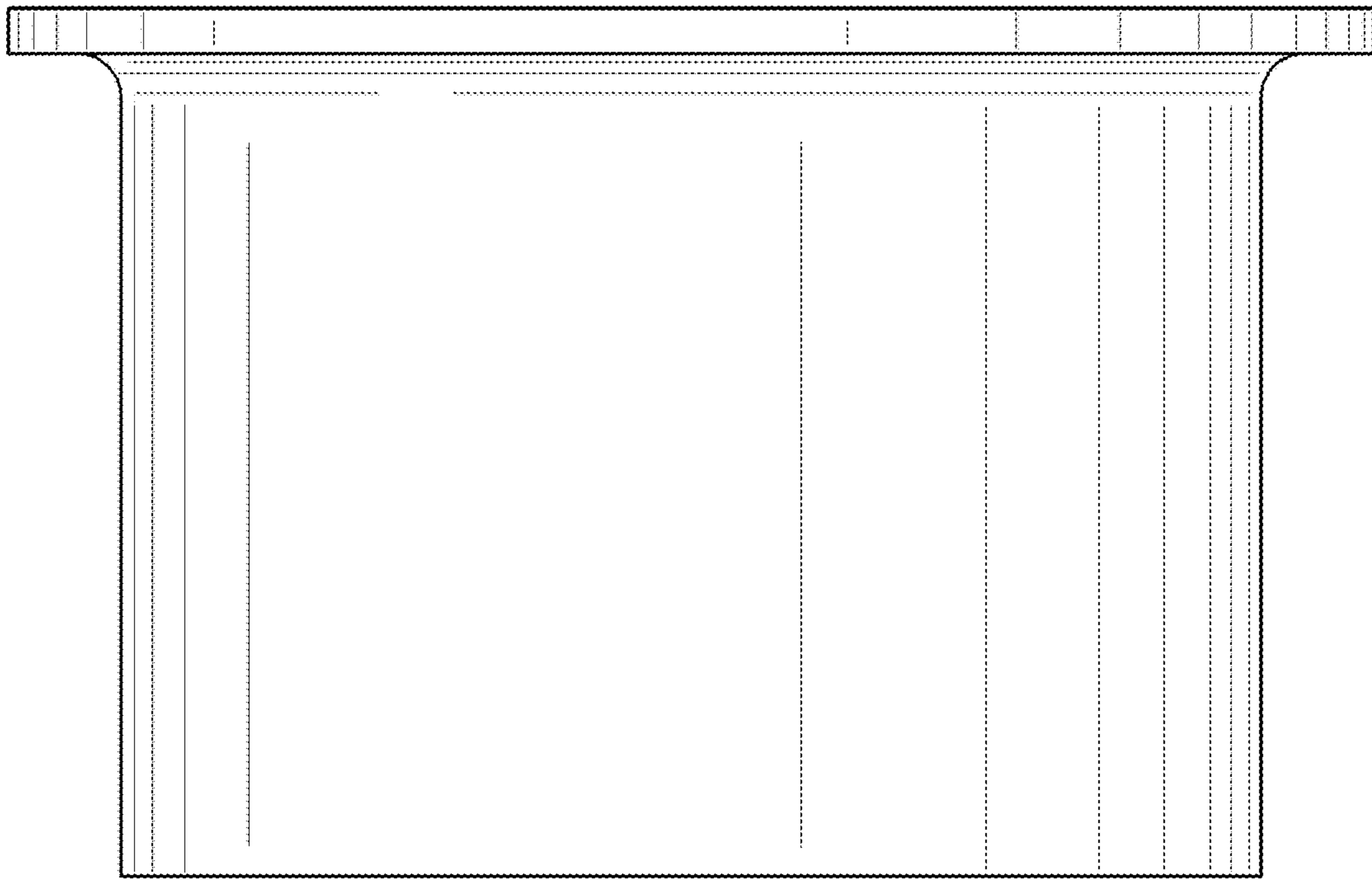
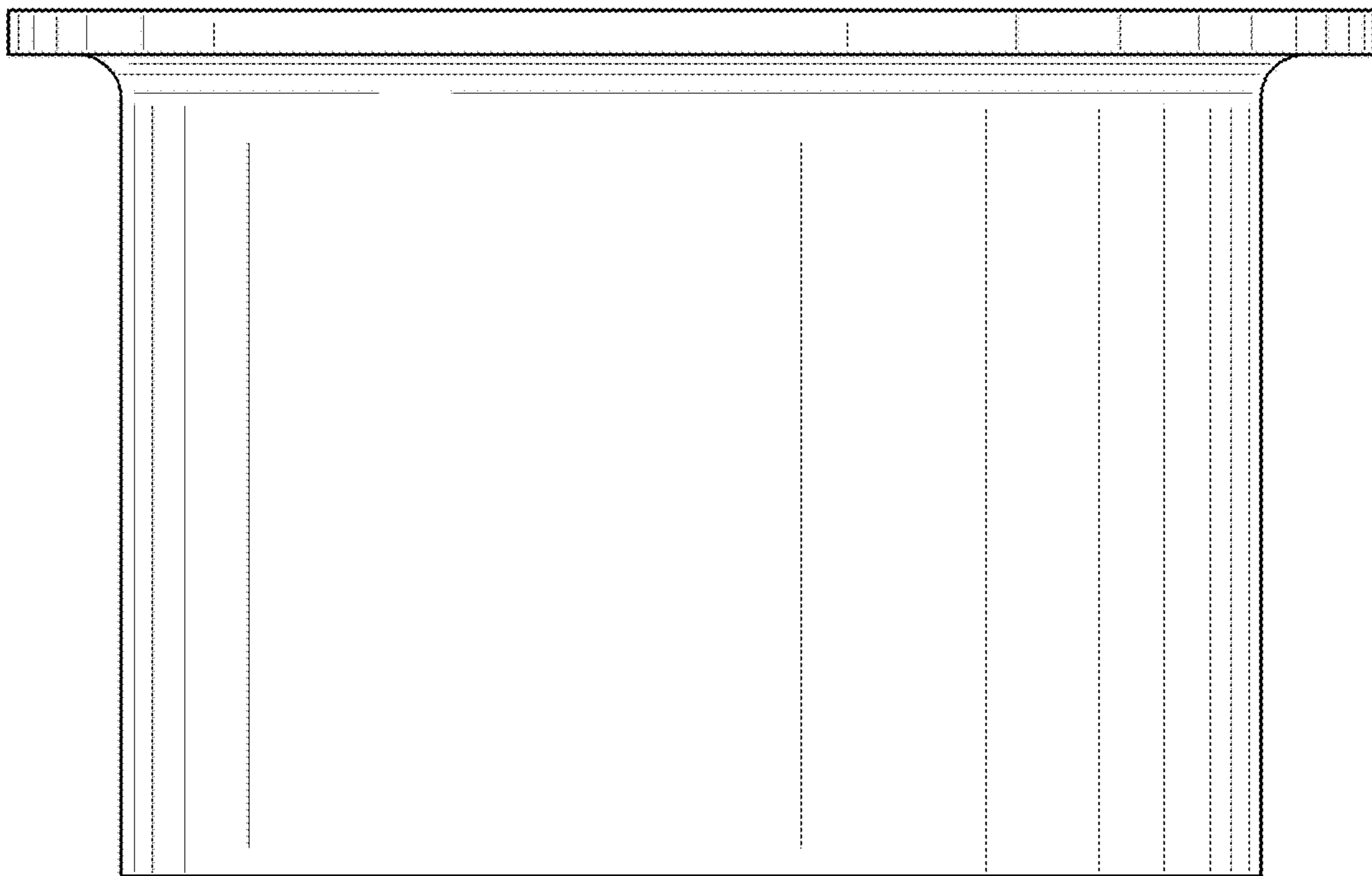


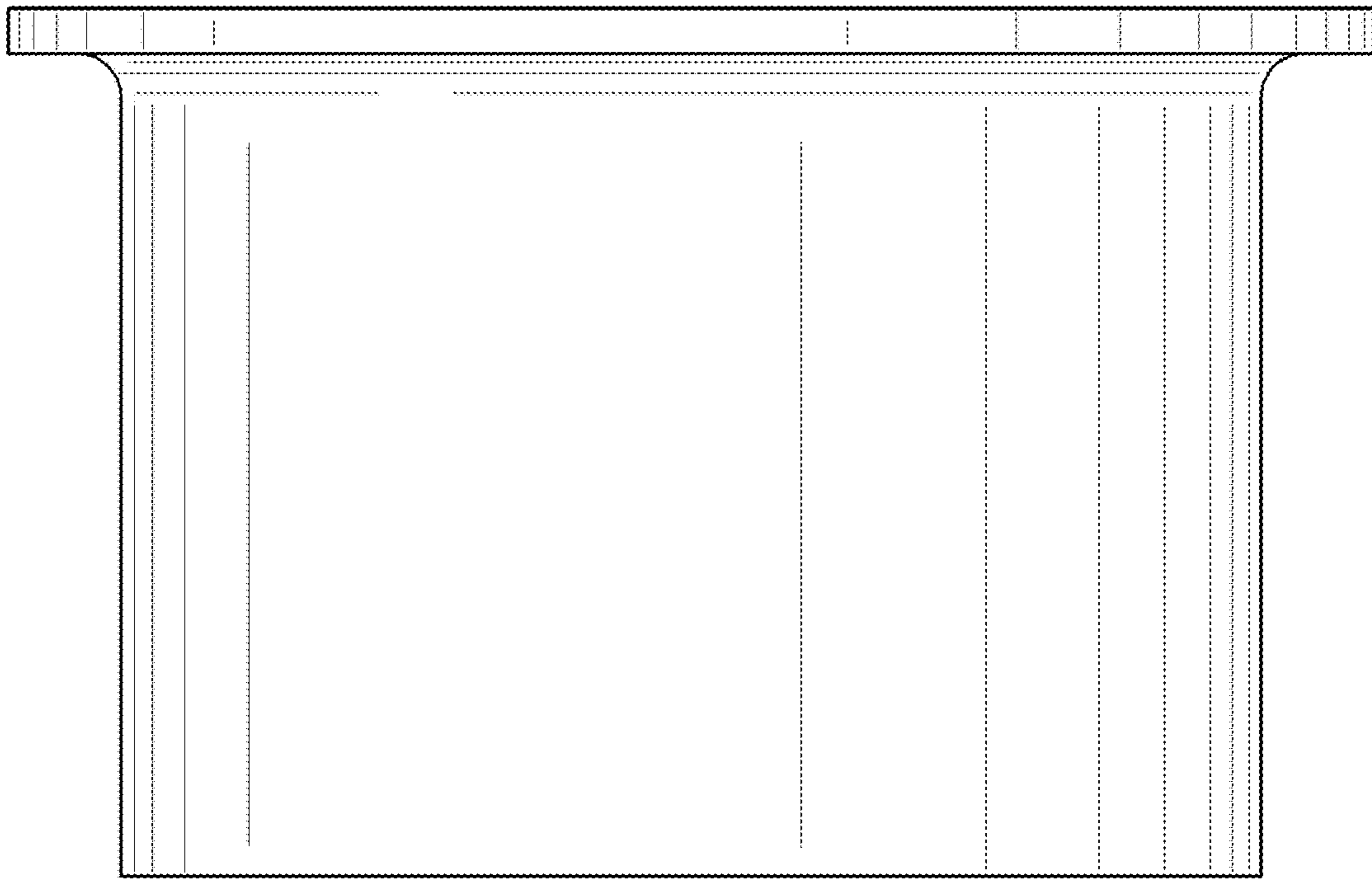
FIG. 2



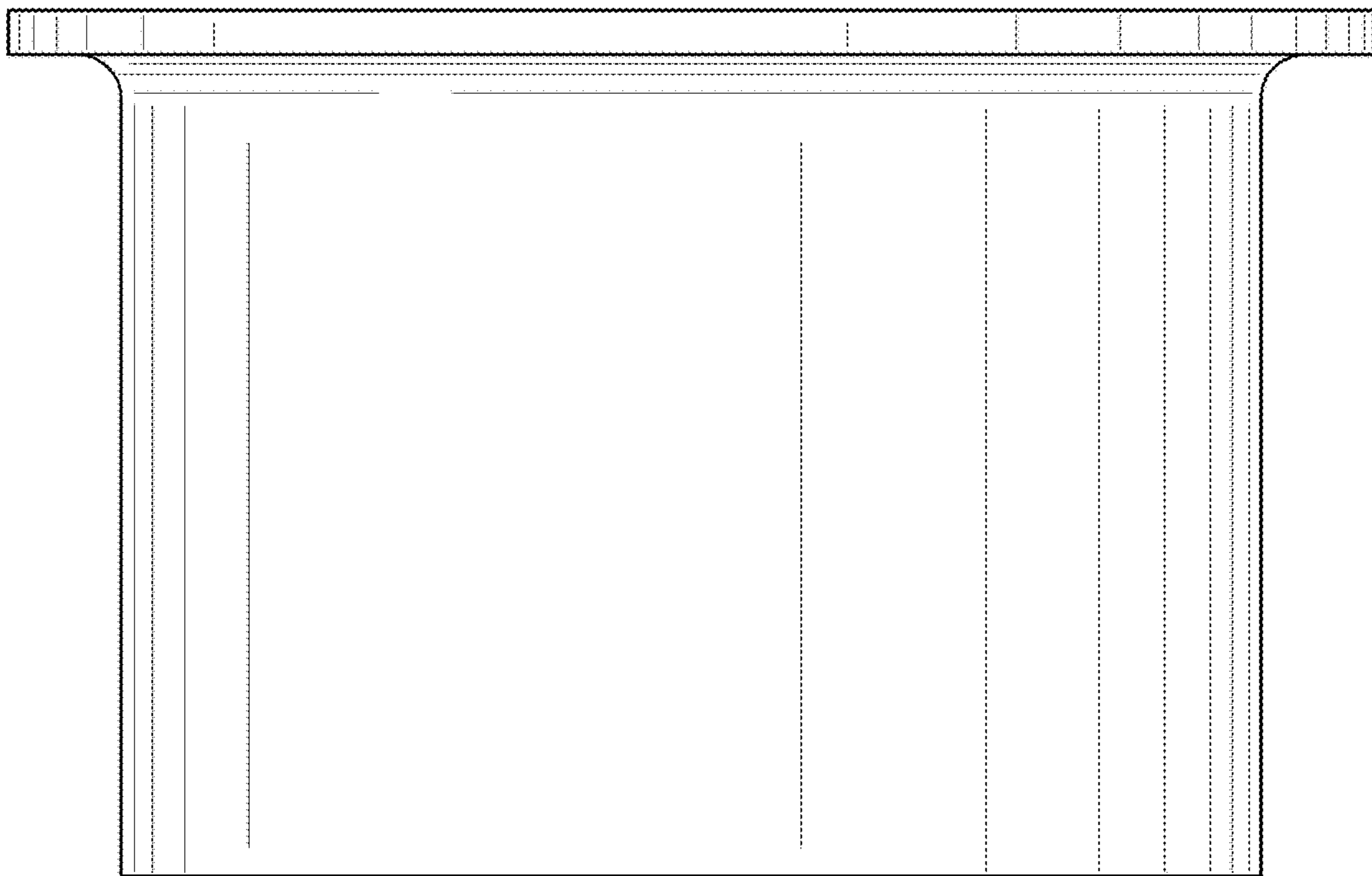
*FIG. 3*



*FIG. 4*



*FIG. 5*



*FIG. 6*

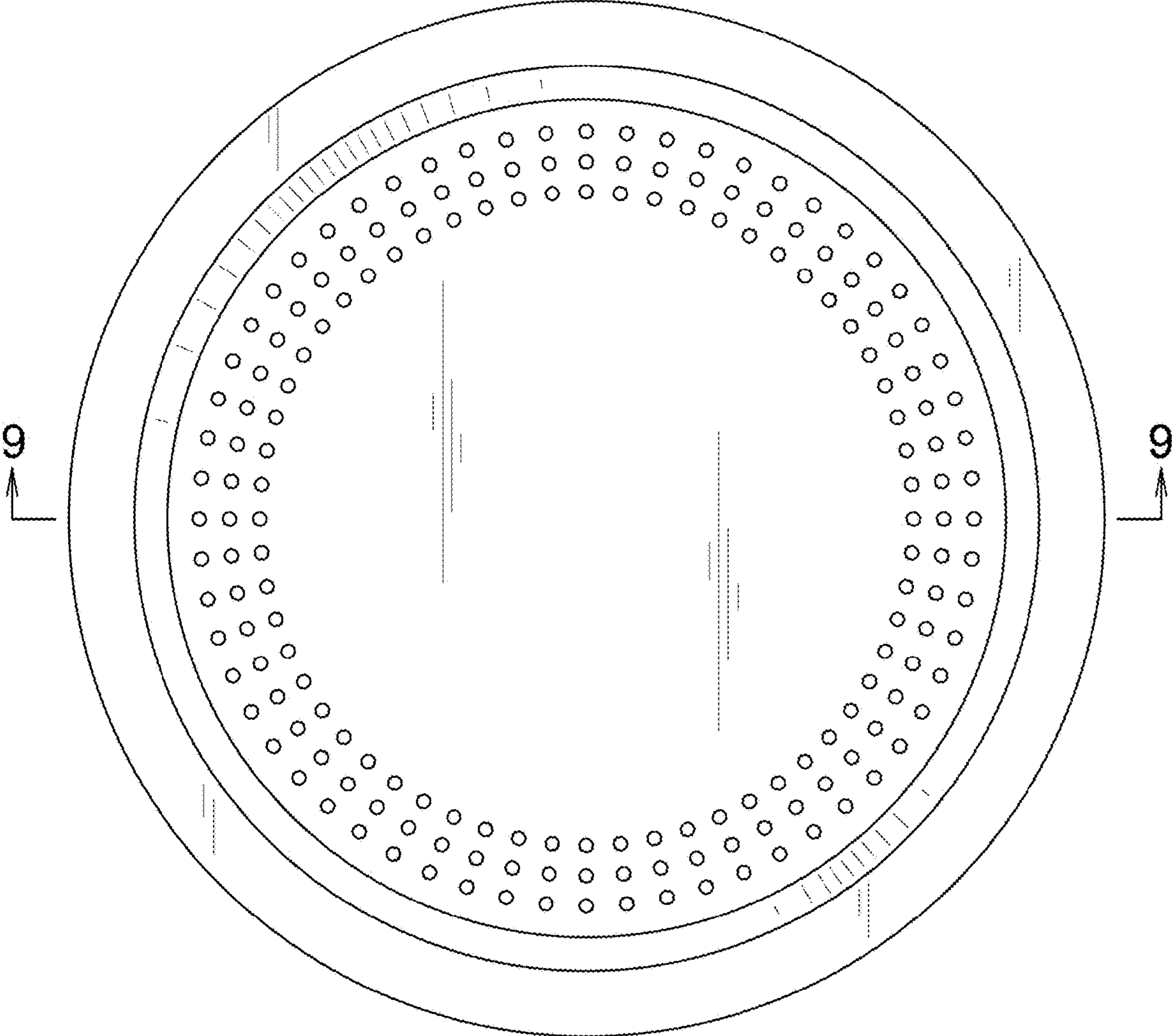


FIG. 7

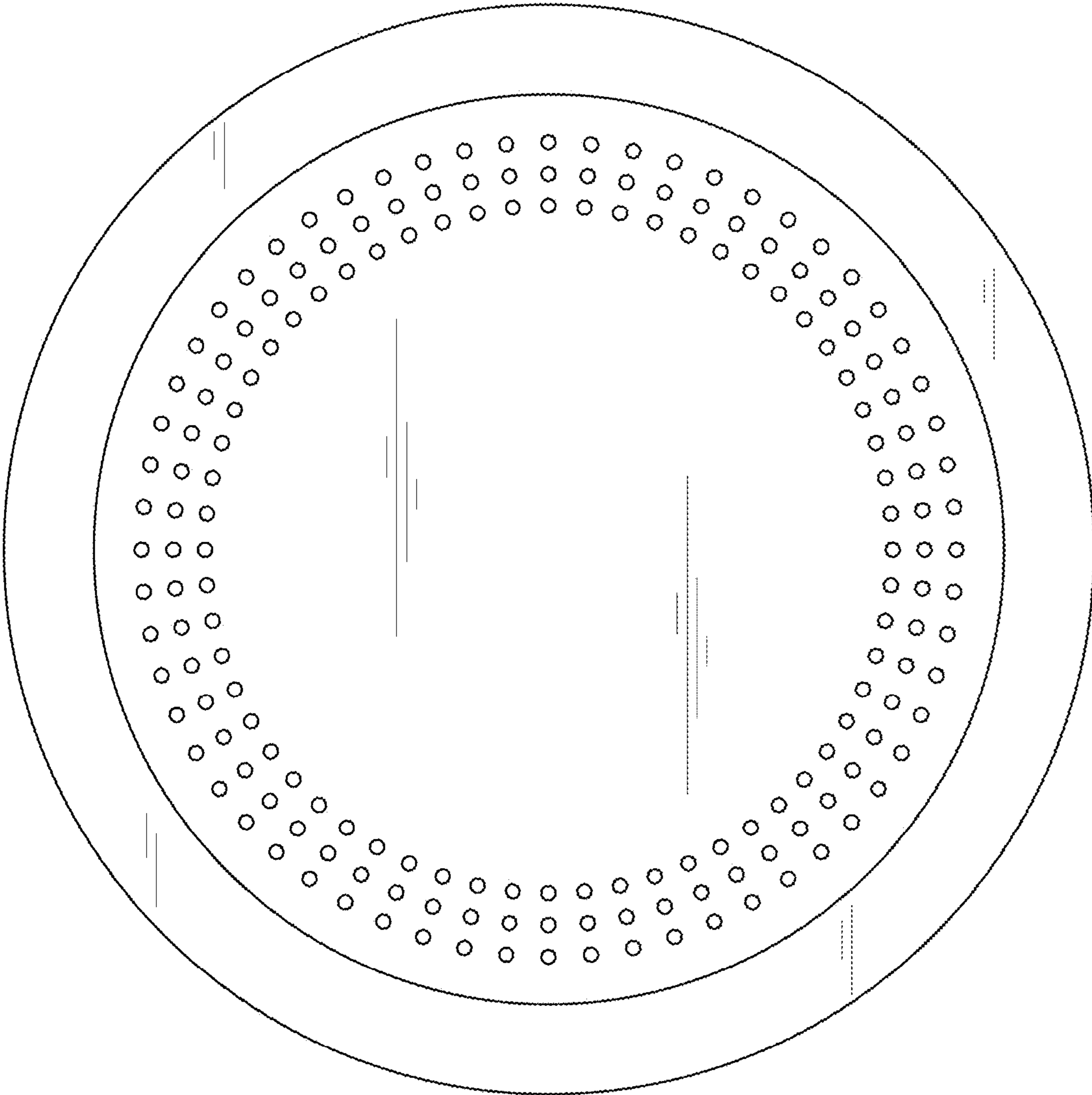


FIG. 8



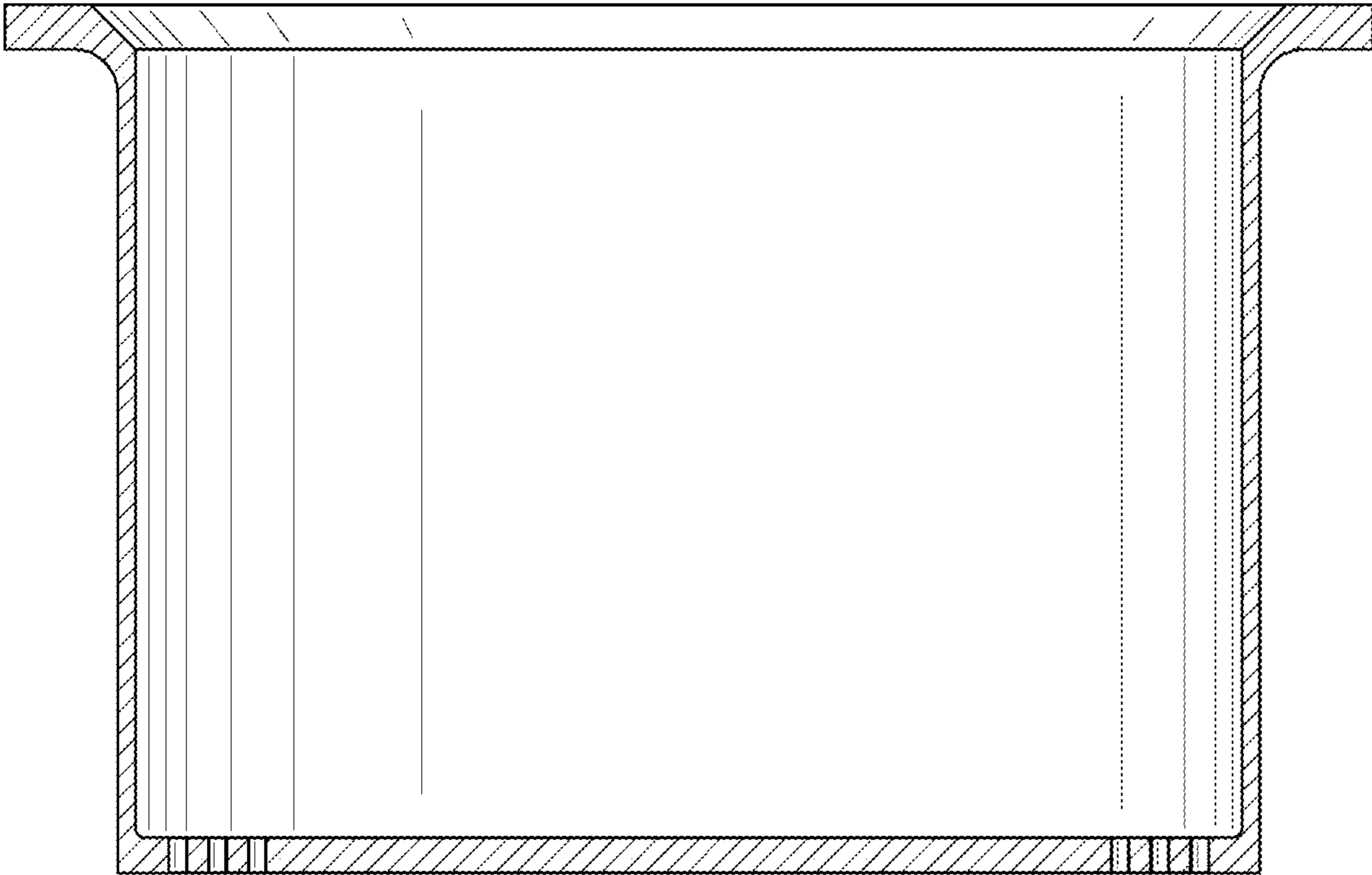


FIG. 9