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

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(45) **Date of Patent:** **** Nov. 28, 2017**

(54) **ELECTROSTATIC CHUCK FOR SEMICONDUCTOR MANUFACTURING EQUIPMENT**

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(Continued)

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JP D1184862 9/2003

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

Primary Examiner — Elizabeth J Oswecki

(21) Appl. No.: **29/553,360**

(74) *Attorney, Agent, or Firm* — Leydig Voit & Mayer

(22) Filed: **Feb. 1, 2016**

(57) **CLAIM**

(30) **Foreign Application Priority Data**

The ornamental design for an electrostatic chuck for semiconductor manufacturing equipment, as shown and described.

Aug. 18, 2015 (JP) 2015-018088

DESCRIPTION

(51) **LOC (10) Cl.** **13-03**

FIG. 1 is a front view of an electrostatic chuck for semiconductor manufacturing equipment, showing our new design;

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

FIG. 2 is a rear view thereof;

USPC **D13/182**

FIG. 3 is a top plan view thereof;

(58) **Field of Classification Search**

USPC D13/182; D15/140

FIG. 4 is a bottom plan view thereof;

CPC H01L 21/67098; H01L 21/67109; H01L 21/683; H01L 21/6831; H01L 21/6833; H01L 21/6835; H01L 21/68; H01L 21/67; B23Q 3/15; B23Q 3/154; B23Q 3/1543; B23Q 3/1546; B23B 2270/38; B23B 31/28; G03F 7/70708; G03F 7/707; H02N 13/00; H02N 15/00

FIG. 5 is a right side view thereof;

FIG. 6 is a left side view thereof;

FIG. 7 is a cross sectional view taken along the lines of 7-7 of FIG. 1; and,

See application file for complete search history.

FIG. 8 is an enlarged view of a portion taken along lines of 8-8 of FIG. 7.

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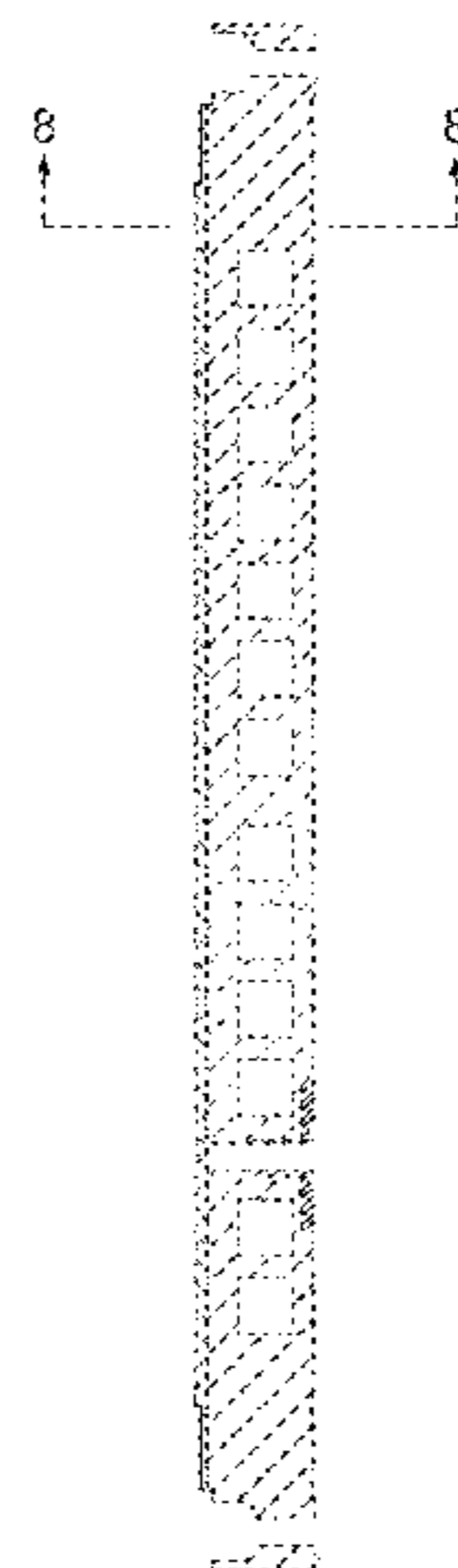
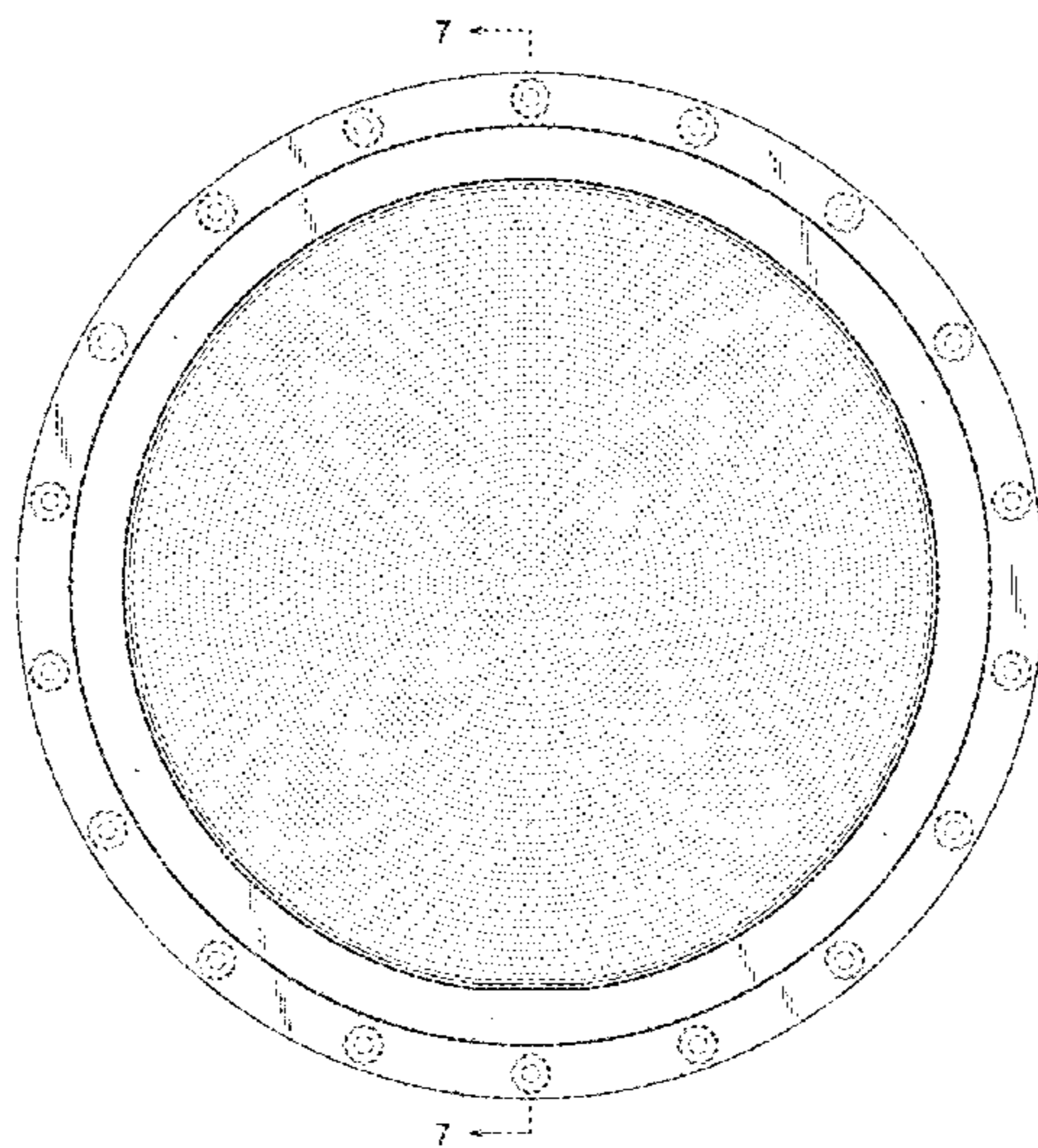
The features shown in broken lines depict environmental subject matter only and form no part of the claimed design. The alternate long and short dash lines are merely the boundary lines between the claimed parts and the non-claimed parts.

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In the FIG. 1, the area surrounded by the alternate long and short dash lines on the electrostatic chuck is not claimed.

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1 Claim, 8 Drawing Sheets



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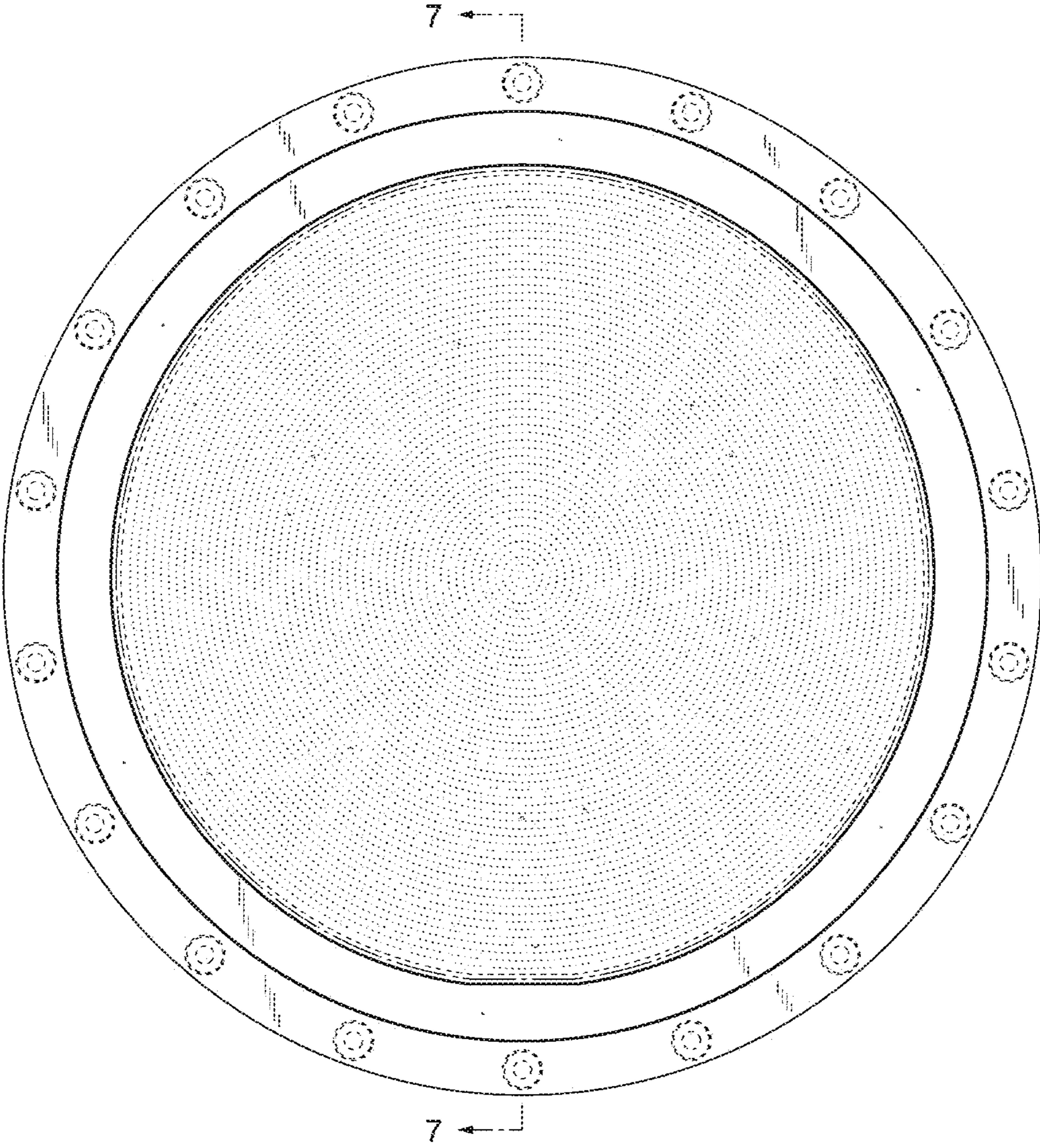


FIG. 1

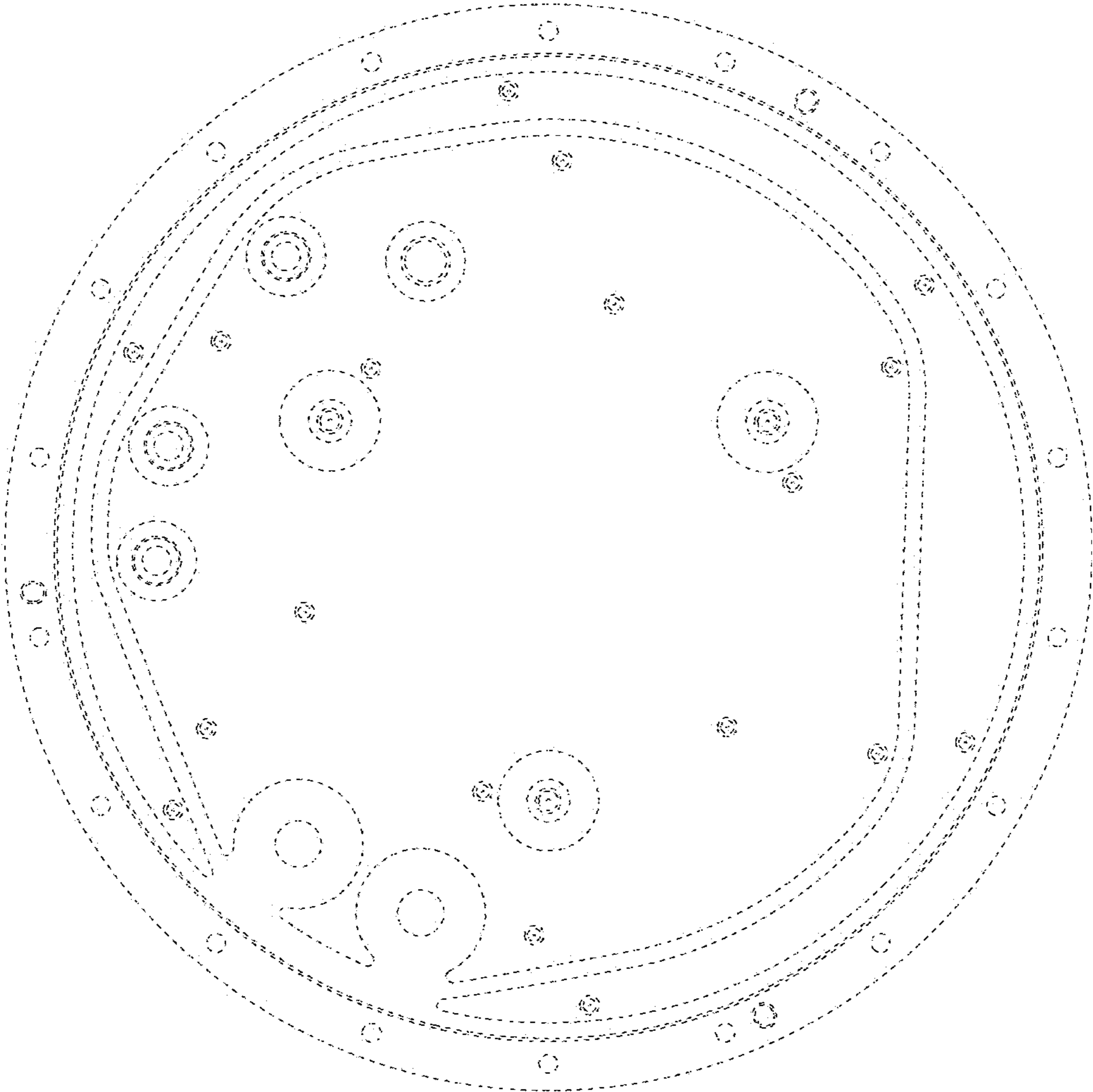


FIG. 2

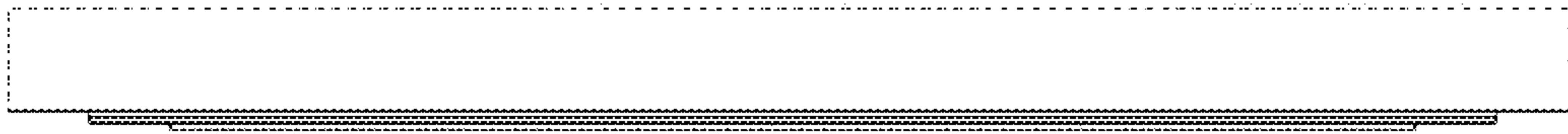


FIG. 3



FIG. 4

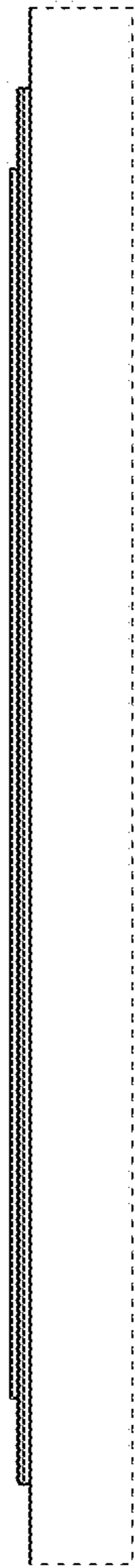


FIG. 5

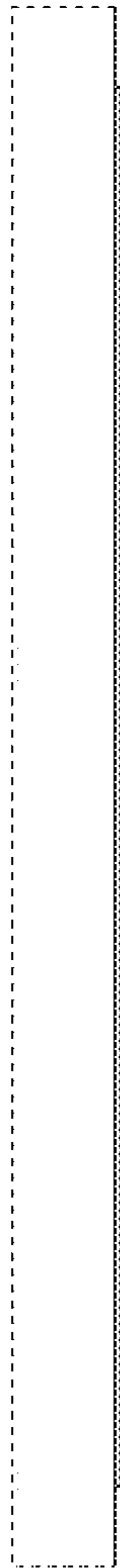


FIG. 6

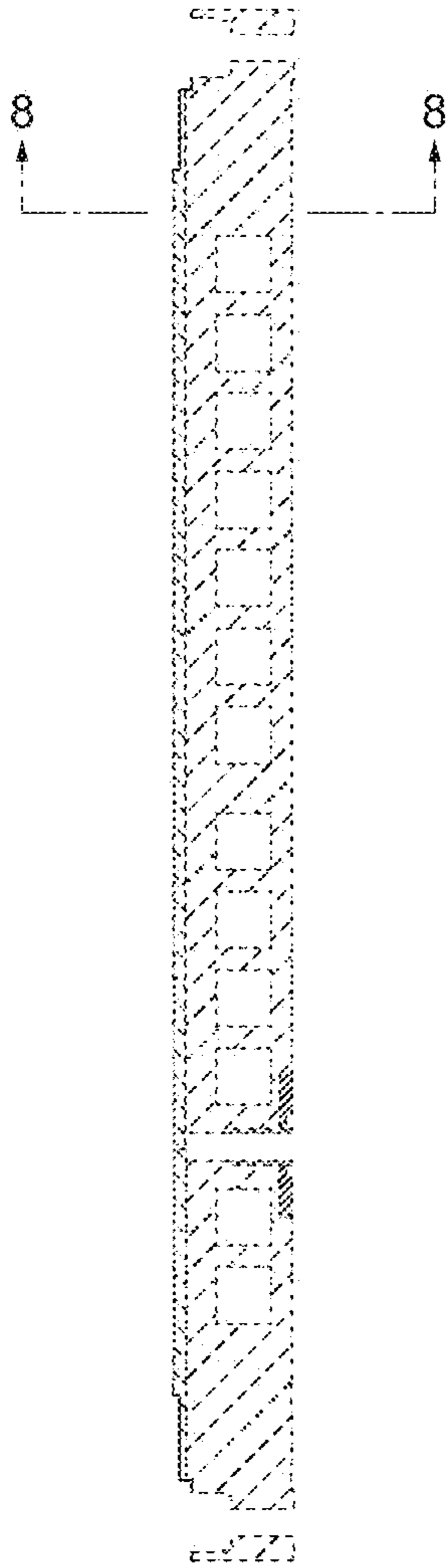


FIG. 7

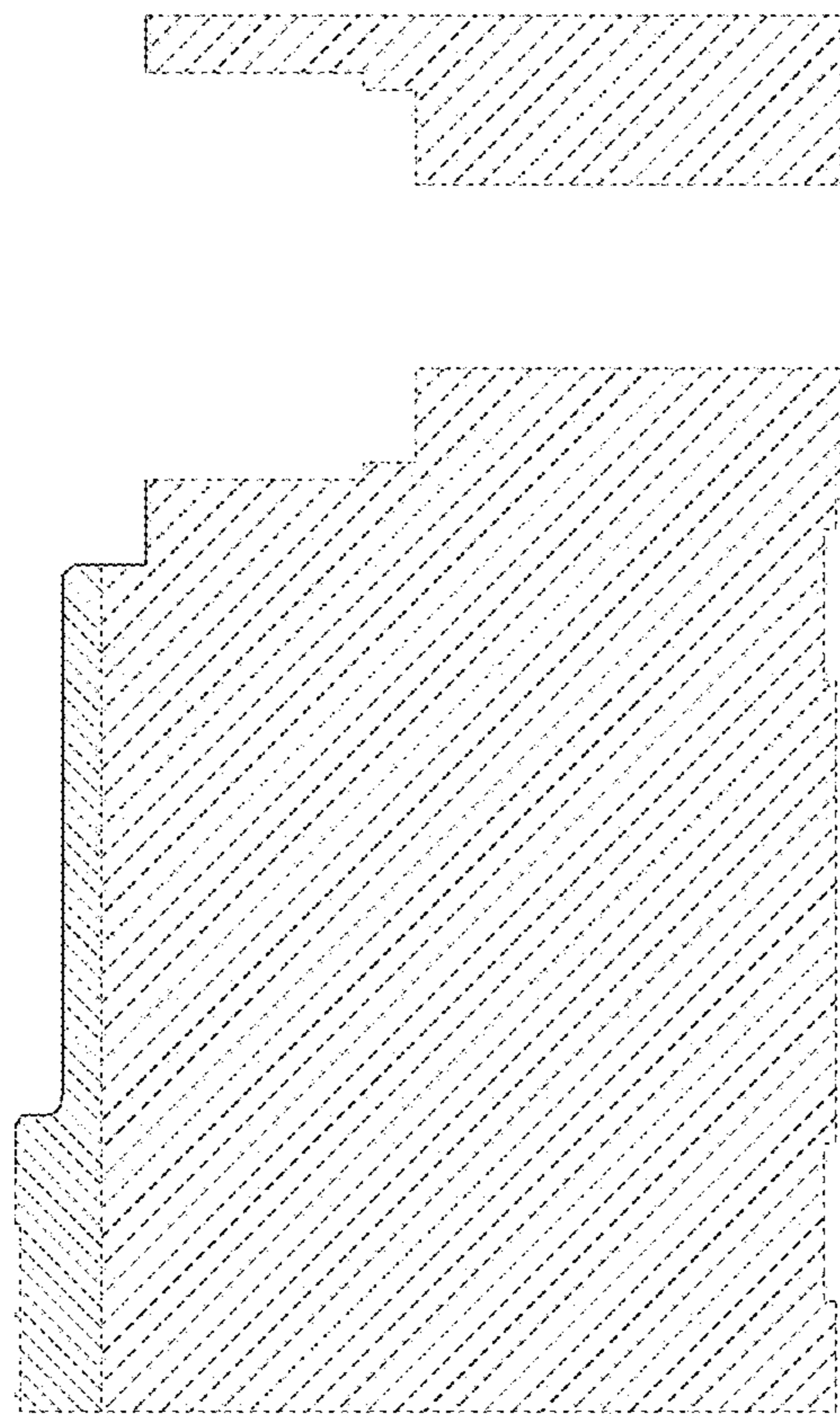


FIG. 8