



US00D341845S

United States Patent [19]

[11] Patent Number: **Des. 341,845**

Caruso et al.

[45] Date of Patent: **** Nov. 30, 1993**

[54] **THERMAL BINDING UNIT**

[75] Inventors: **James F. Caruso**, Chicago; **Walter B. Herbst**, Evanston, both of Ill.

[73] Assignee: **General Binding Corporation**, Northbrook, Ill.

[**] Term: **14 Years**

[21] Appl. No.: **849,676**

[22] Filed: **Mar. 11, 1992**

[52] U.S. Cl. **D15/146**

[58] Field of Search ... **D15/146; 53/373, 374.8-374.9, 53/390, 405, 432-434, 510-512, DIG. 2; 156/497, 583.1-583.91**

[56] **References Cited**

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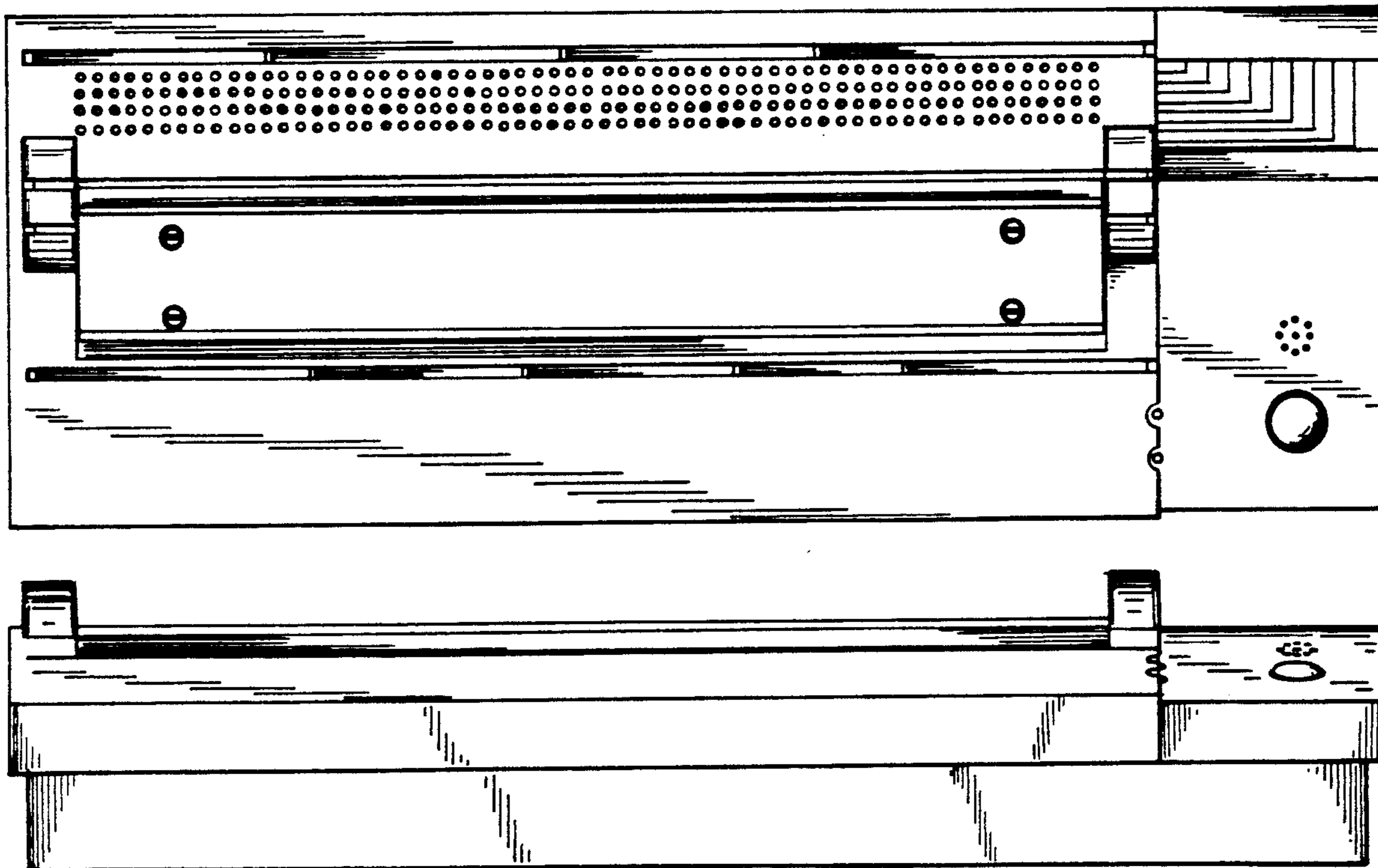
Primary Examiner—Alan P. Douglas
Assistant Examiner—Antoine D. Davis
Attorney, Agent, or Firm—Hill, Steadman & Simpson

[57] **CLAIM**

The ornamental design for a thermal binding unit, as shown and described.

DESCRIPTION

FIG. 1 is a top plan view of a thermal binding unit for binding books showing our new design;
 FIG. 2 is a front elevational view thereof;
 FIG. 3 is a rear elevational view thereof;
 FIG. 4 is a right side elevational view thereof;
 FIG. 5 is a left side elevational view thereof;
 FIG. 6 is a top plan view of the thermal binding unit of FIG. 1 showing a series of binding supports in operative position;
 FIG. 7 is a front elevational view of FIG. 6;
 FIG. 8 is a rear elevational view of FIG. 6;
 FIG. 9 is a right side elevational view of FIG. 6;
 FIG. 10 is a left side elevational view of FIG. 6; and,
 FIG. 11 is a front, right side perspective view of FIG. 6.



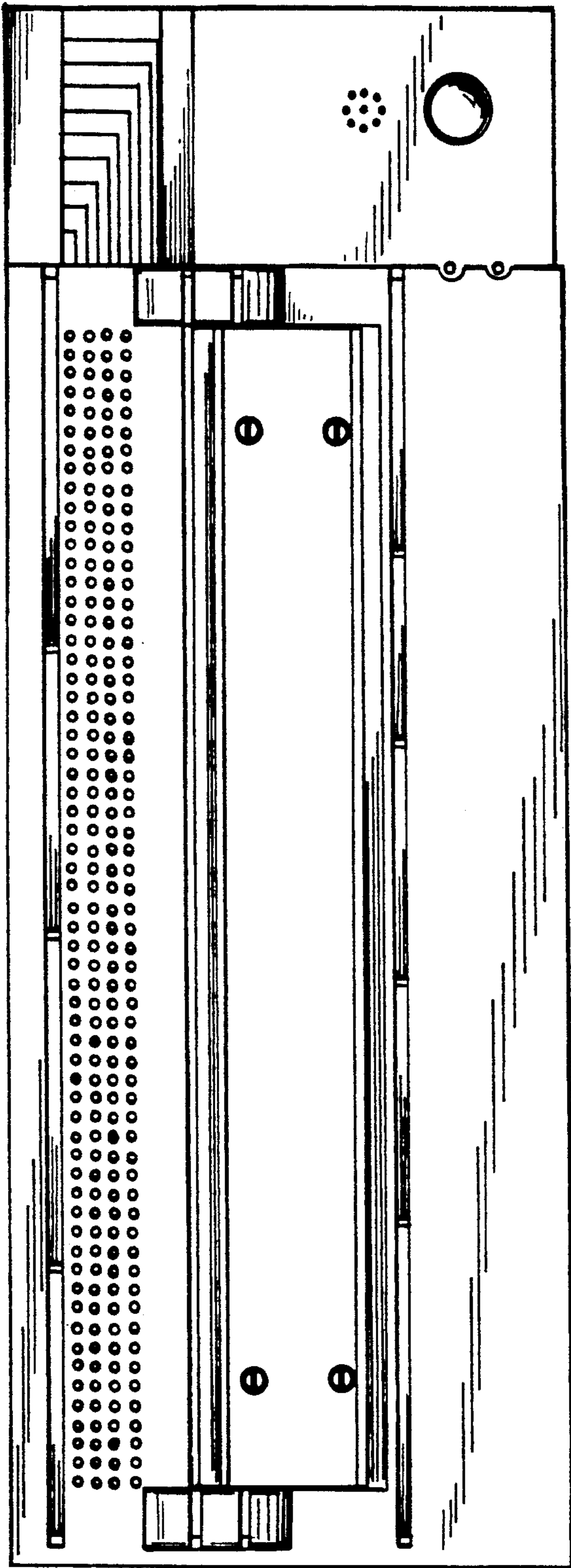


FIG. 1

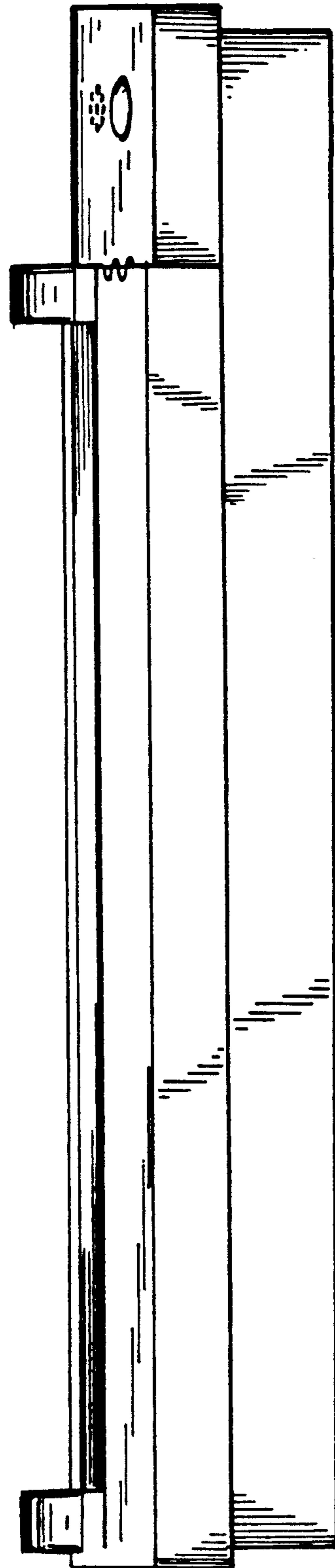


FIG. 2

FIG. 3

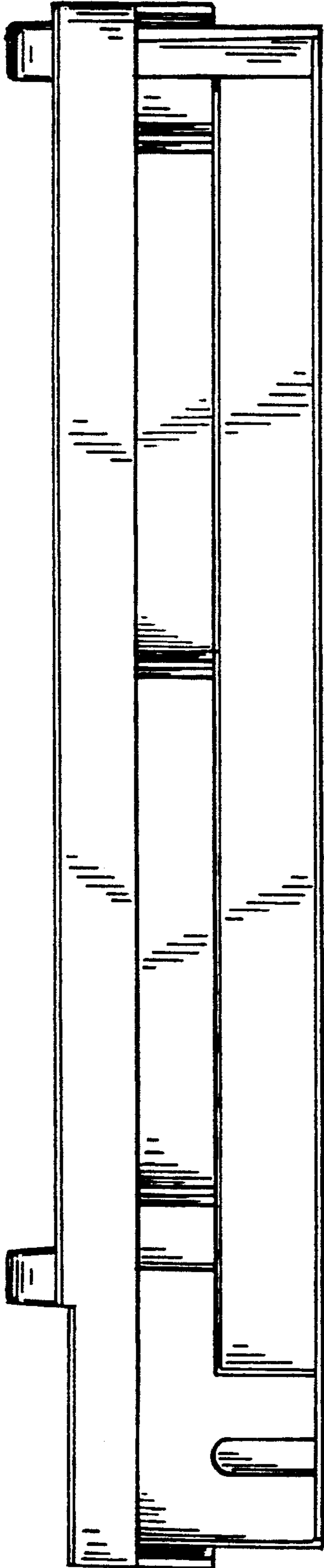


FIG. 5

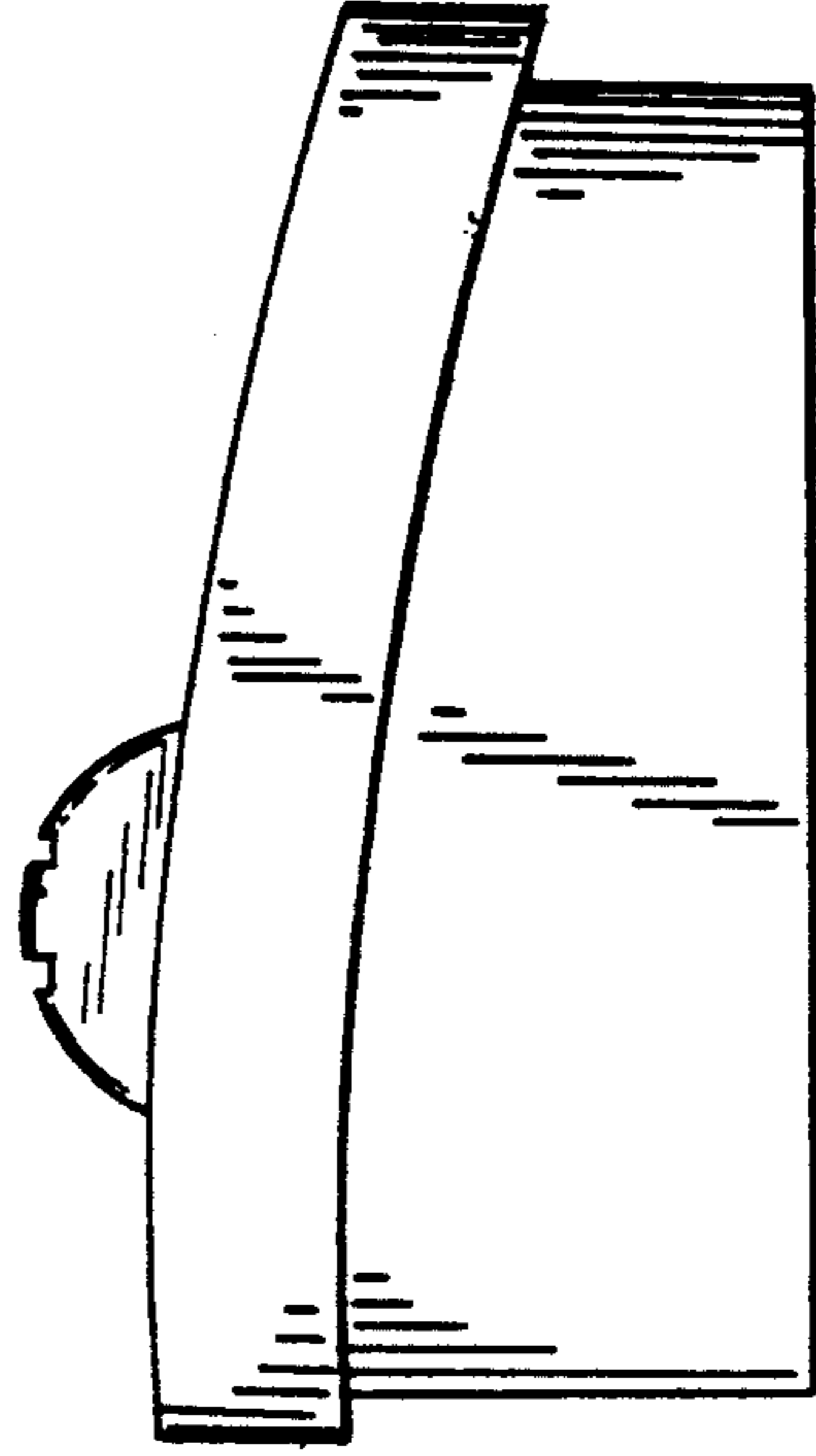
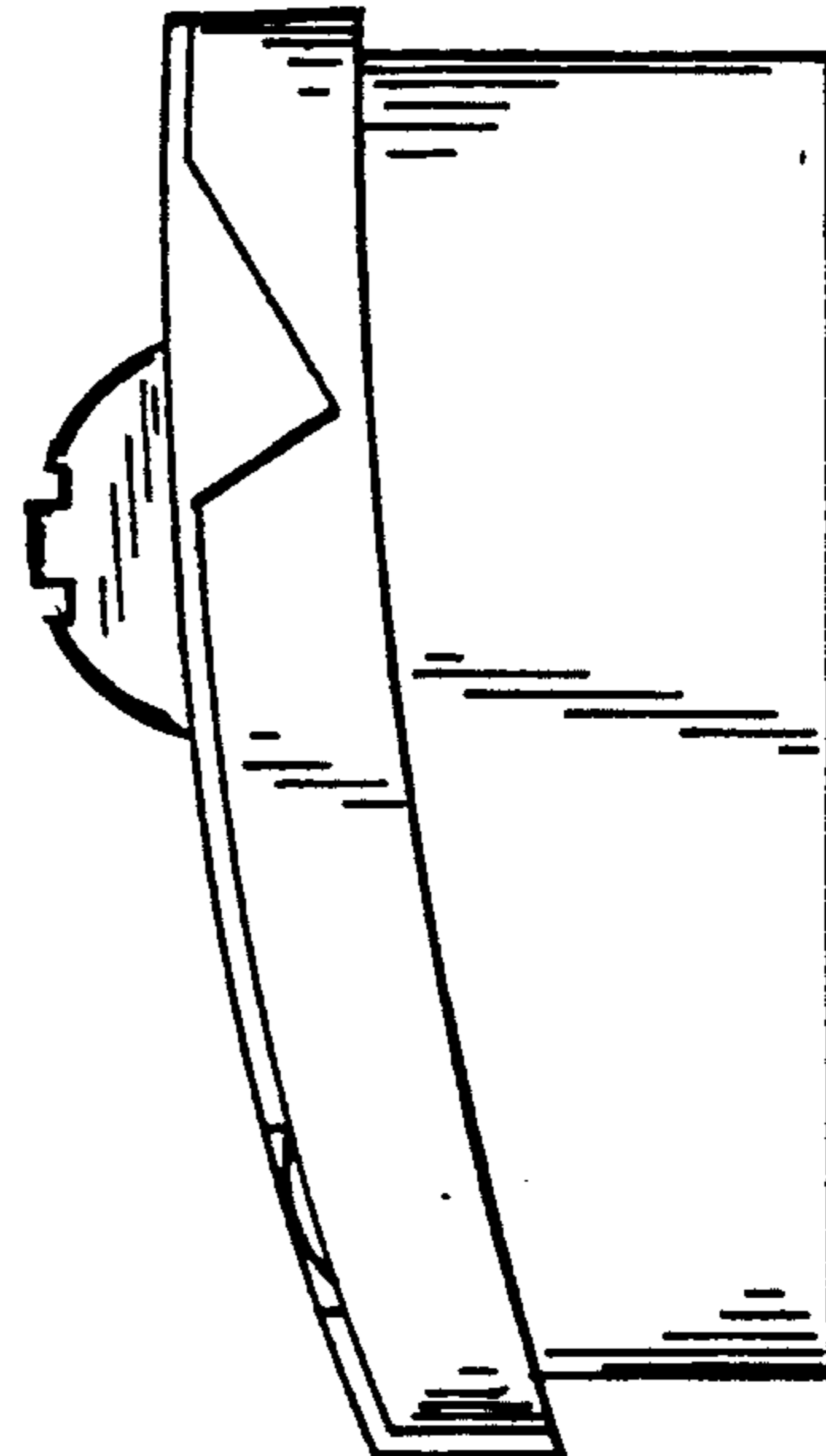


FIG. 4



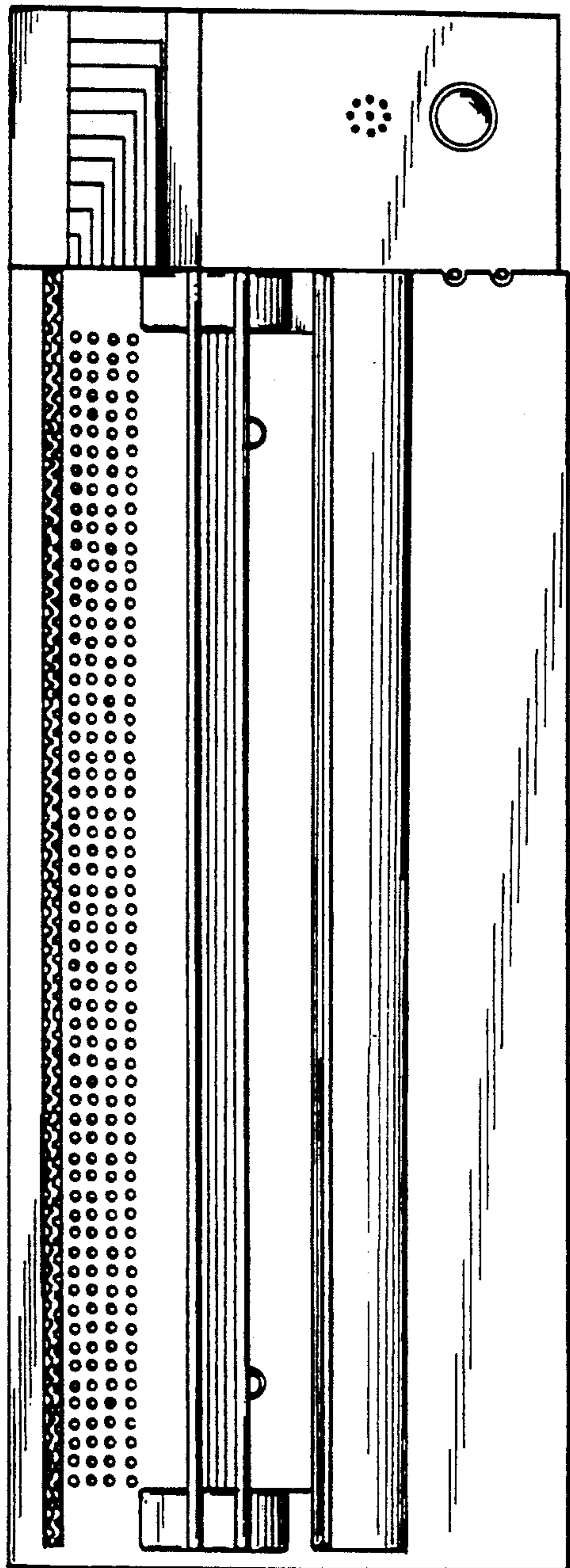


FIG. 6

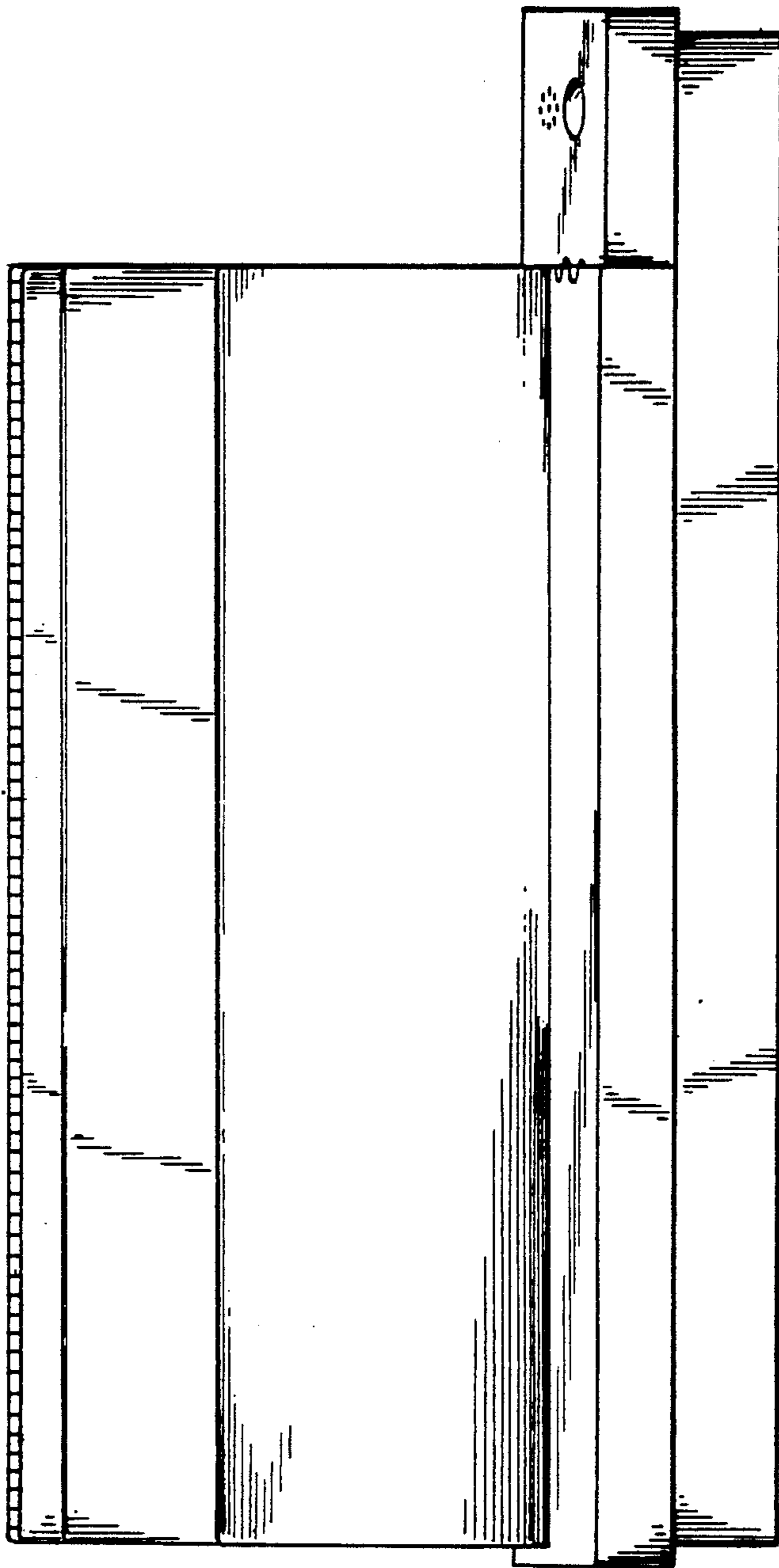


FIG. 7

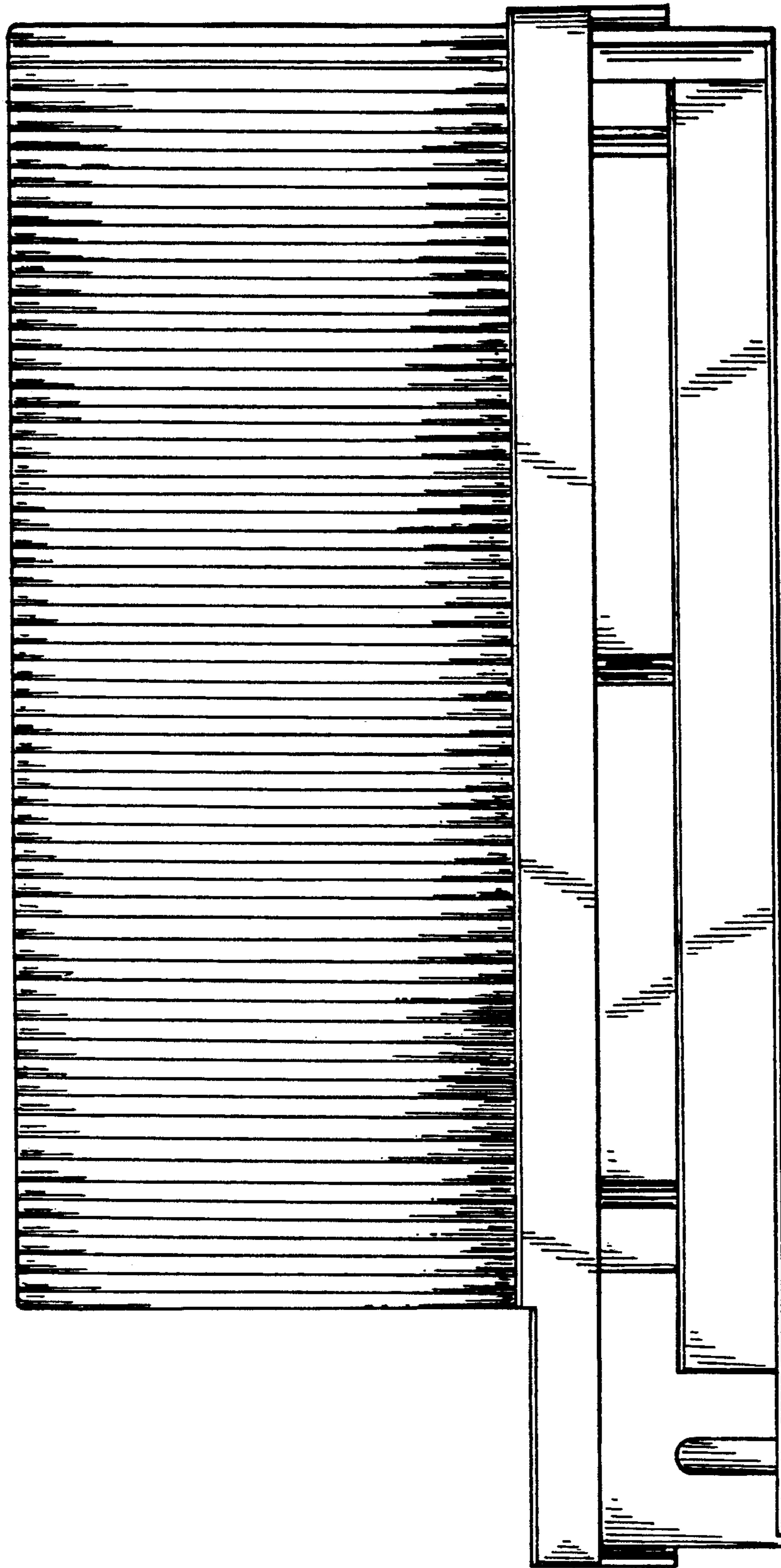


FIG. 8

FIG. 9

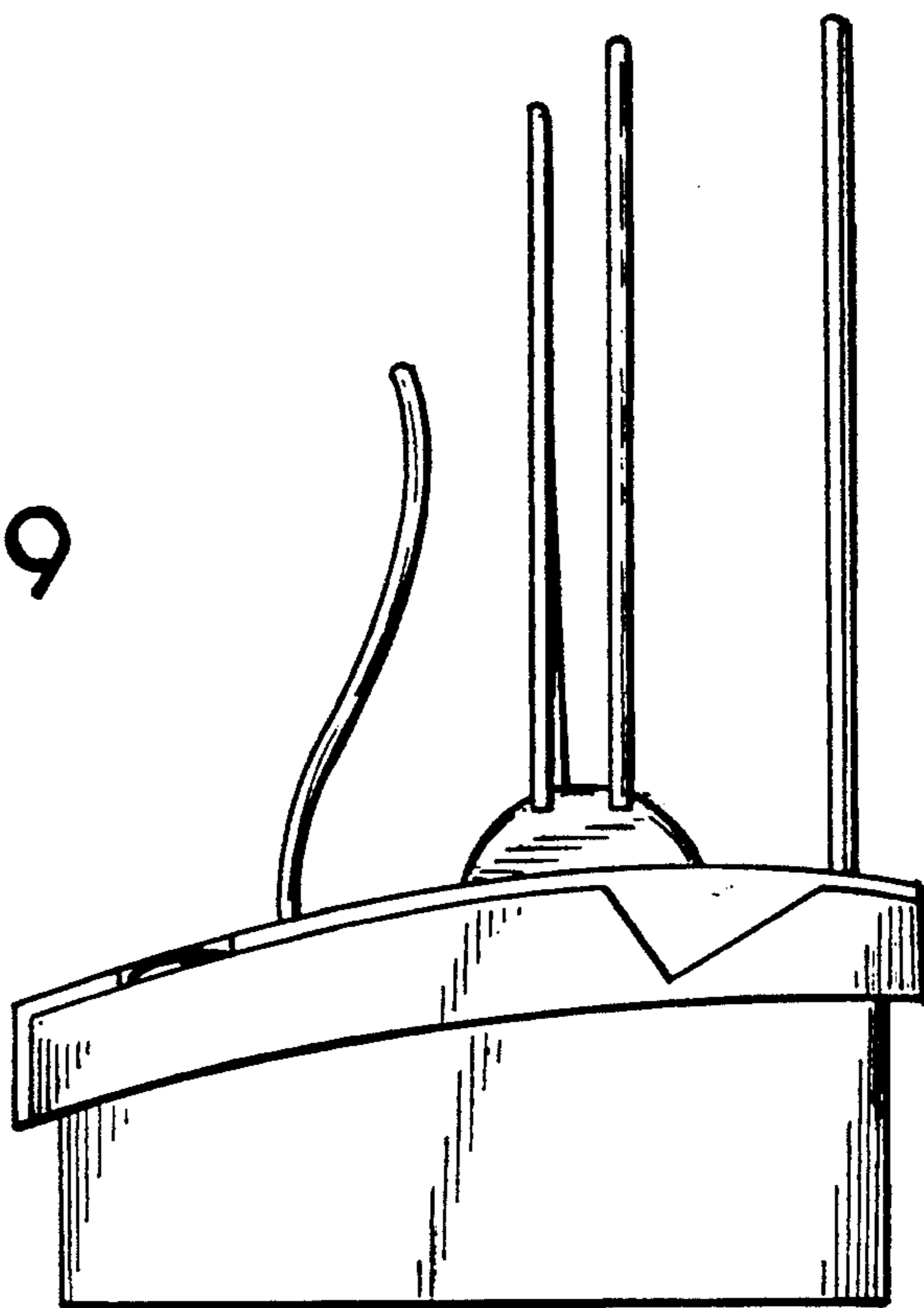
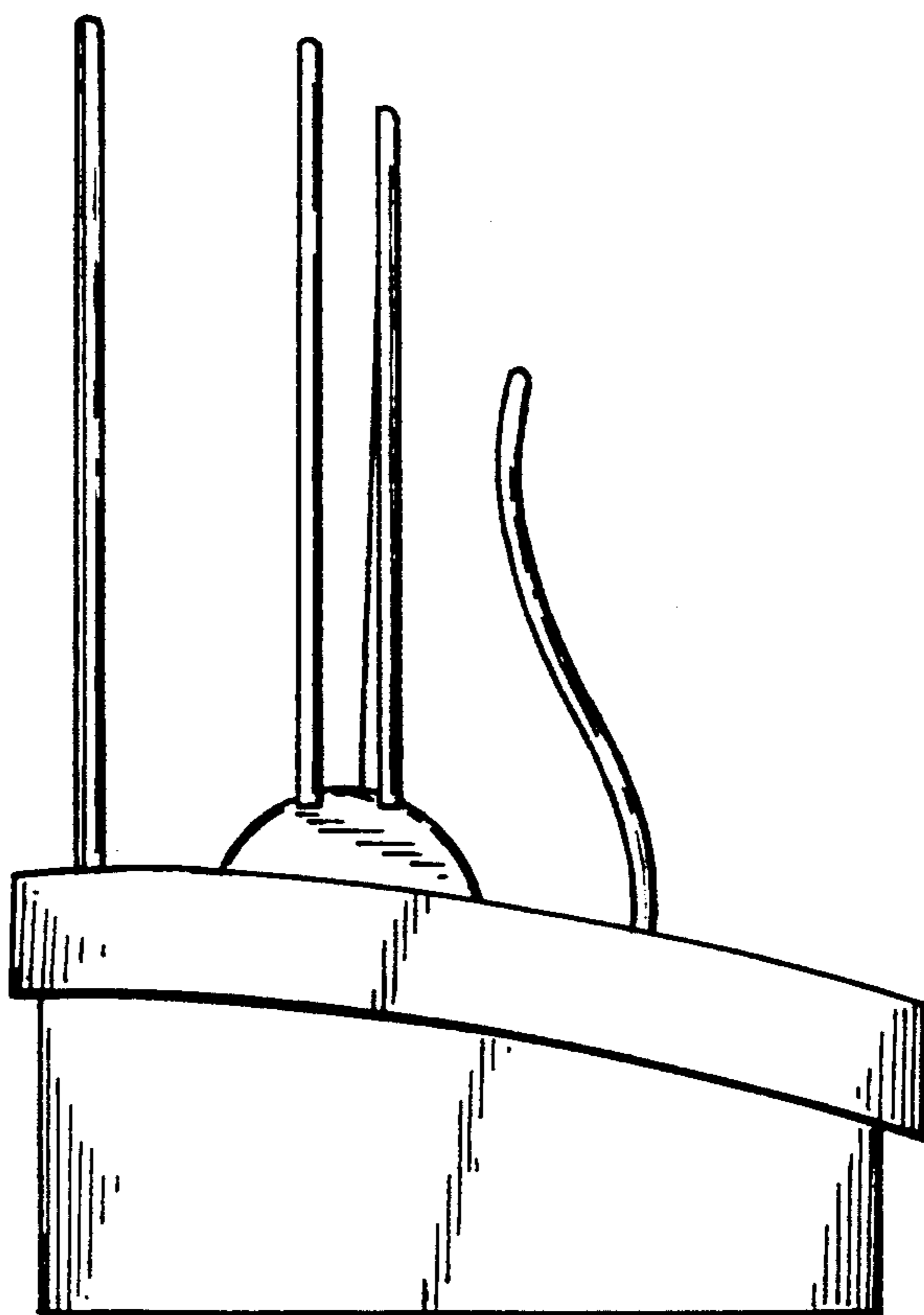


FIG. 10



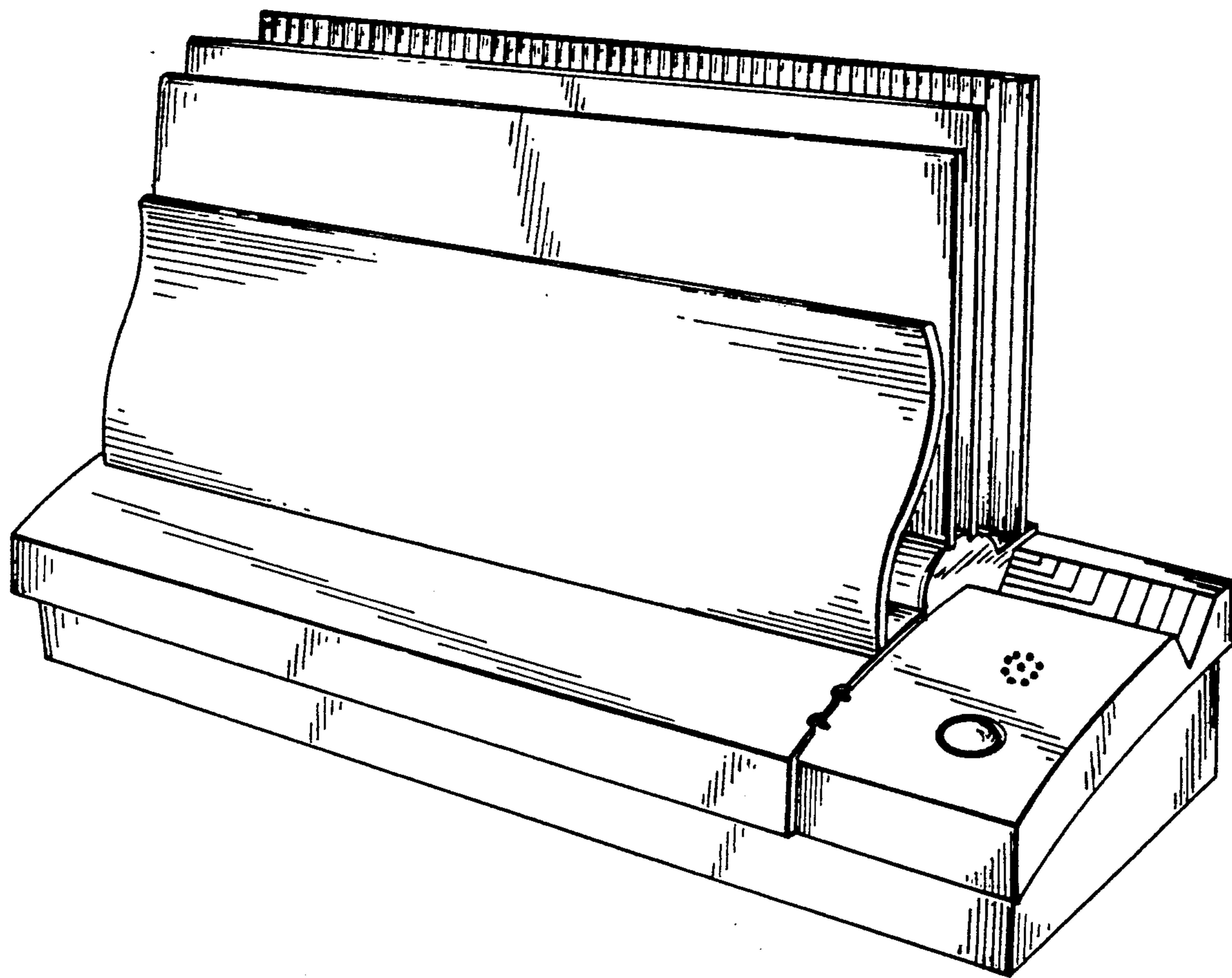


FIG. 11