



US00D420297S

**United States Patent** [19]  
**Cattaneo**

[11] **Patent Number: Des. 420,297**  
[45] **Date of Patent: \*\* Feb. 8, 2000**

[54] **ELECTRICAL CURRENT SENSOR**

[75] Inventor: **Pierre Cattaneo**, Collonges s/Saleve, France  
[73] Assignee: **Liaisons Electroniques-Mecaniques LEM S.A.**, Plan-les-Ouates, Switzerland  
[\*\*] Term: **14 Years**  
[21] Appl. No.: **29/098,950**  
[22] Filed: **Jan. 8, 1999**

**Related U.S. Application Data**

[63] Continuation-in-part of application No. 29/085,216, Mar. 18, 1998, abandoned.  
[51] **LOC (7) Cl.** ..... **10-04**  
[52] **U.S. Cl.** ..... **D10/78**  
[58] **Field of Search** ..... D10/78, 75; 324/117 R, 324/127; 336/178, 175, 200, 216

**References Cited**

**U.S. PATENT DOCUMENTS**

D. 396,013 7/1998 Luebke ..... D10/78  
D. 401,171 11/1998 Cattaneo ..... D10/78

*Primary Examiner*—Antoine Duval Davis  
*Attorney, Agent, or Firm*—Clifford W. Browning; Woodard, Emhardt, Naughton, Moriarty & McNett

**CLAIM**

The ornamental design for an electrical current sensor, as shown.

**DESCRIPTION**

FIG. 1 is a front elevational view of an electrical current sensor, showing my new design.  
FIG. 2 is a bottom view of the electrical current sensor.  
FIG. 3 is a top view of the electrical current sensor.  
FIG. 4 is a left view of the electrical current sensor.  
FIG. 5 is a right view of the electrical current sensor.

FIG. 6 is a rear elevational view of the electrical current sensor.  
FIG. 7 is a front elevational view of an alternative embodiment of an electrical current sensor, showing my new design.  
FIG. 8 is a bottom view of the electrical current sensor.  
FIG. 9 is a top view of the electrical current sensor.  
FIG. 10 is a left view of the electrical current sensor.  
FIG. 11 is a right view of the electrical current sensor.  
FIG. 12 is a rear elevational view of the electrical current sensor.  
FIG. 13 is a front elevational view of an alternative embodiment of an electrical current sensor, showing my new design.  
FIG. 14 is a bottom view of the electrical current sensor.  
FIG. 15 is a top view of the electrical current sensor.  
FIG. 16 is a left view of the electrical current sensor.  
FIG. 17 is a right view of the electrical current sensor.  
FIG. 18 is a rear elevational view of the electrical current sensor.  
FIG. 19 is a front elevational view of an alternative embodiment of an electrical current sensor, showing my new design.  
FIG. 20 is a bottom view of the electrical current sensor.  
FIG. 21 is a top view of the electrical current sensor.  
FIG. 22 is a left view of the electrical current sensor.  
FIG. 23 is a right view of the electrical current sensor.  
FIG. 24 is a rear elevational view of the electrical current sensor.  
FIG. 25 is a perspective view of the electrical current sensor.  
FIG. 26 is a front elevational view of an alternative embodiment of an electrical current sensor, showing my new design.  
FIG. 27 is a bottom view of the electrical current sensor.  
FIG. 28 is a top view of the electrical current sensor.  
FIG. 29 is a left view of the electrical current sensor.  
FIG. 30 is a right view of the electrical current sensor.  
FIG. 31 is a rear elevational view of the electrical current sensor; and,  
FIG. 32 is a perspective view of the electrical current sensor.

**1 Claim, 7 Drawing Sheets**

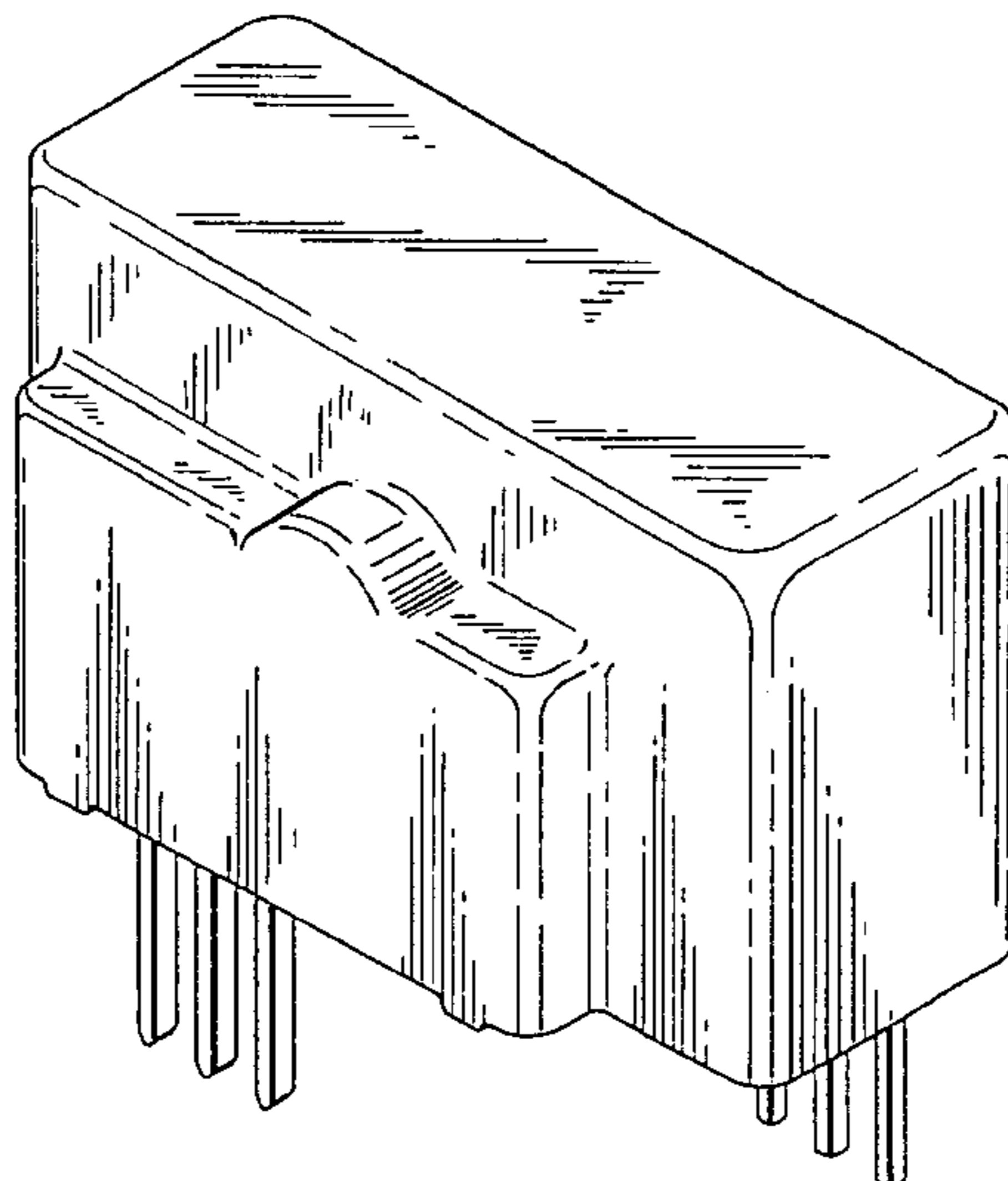


FIG. 4

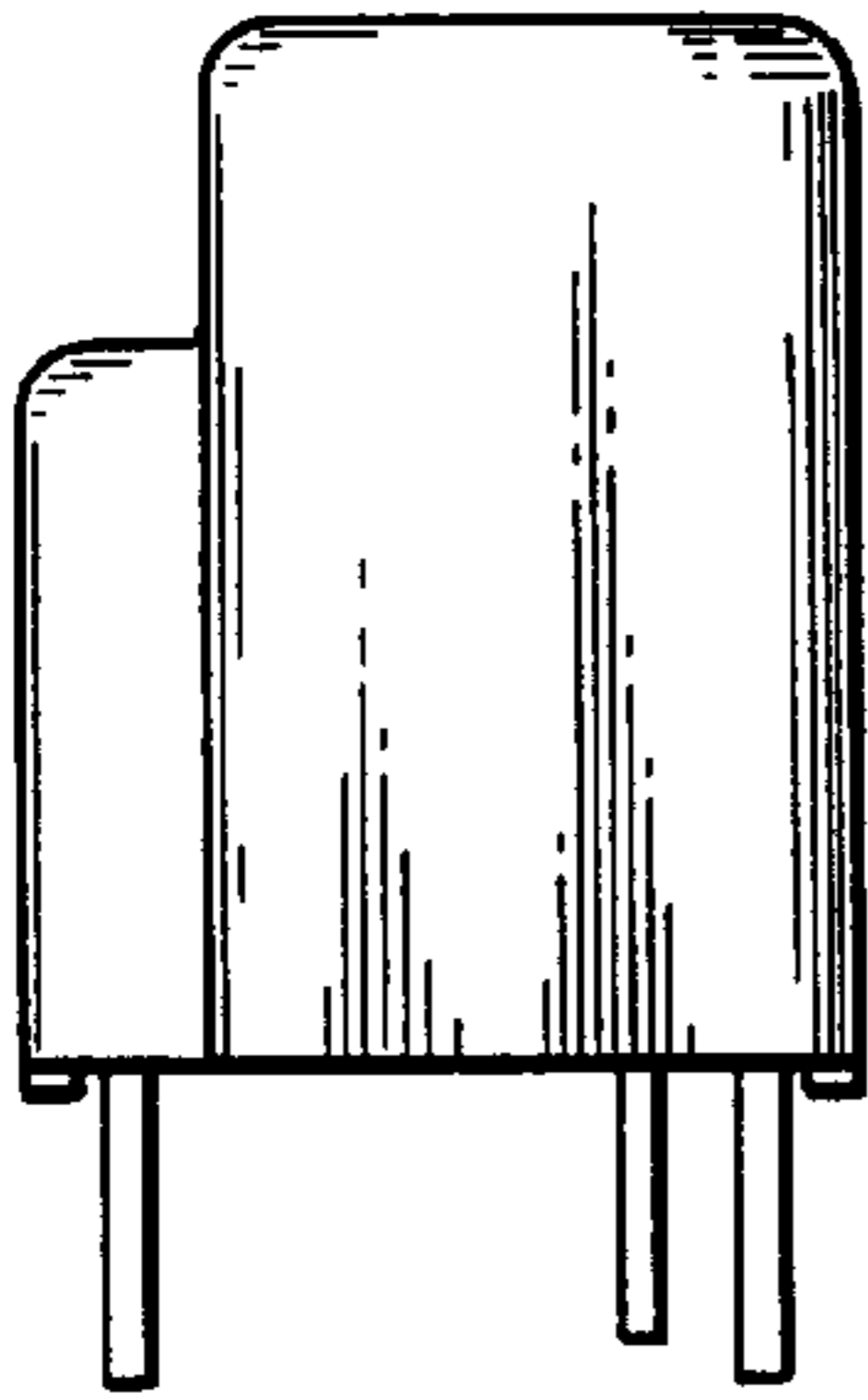


FIG. 1

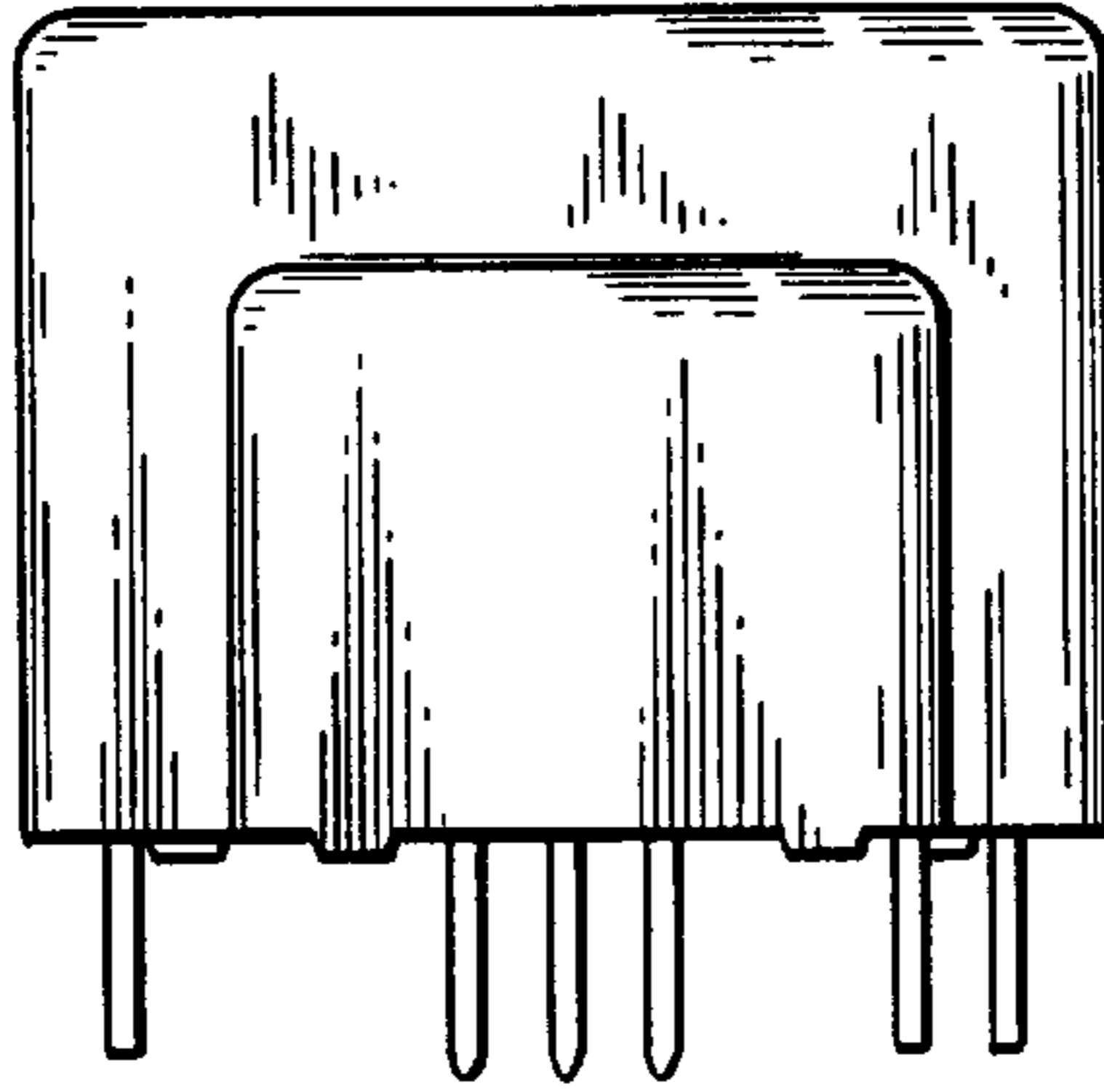


FIG. 5

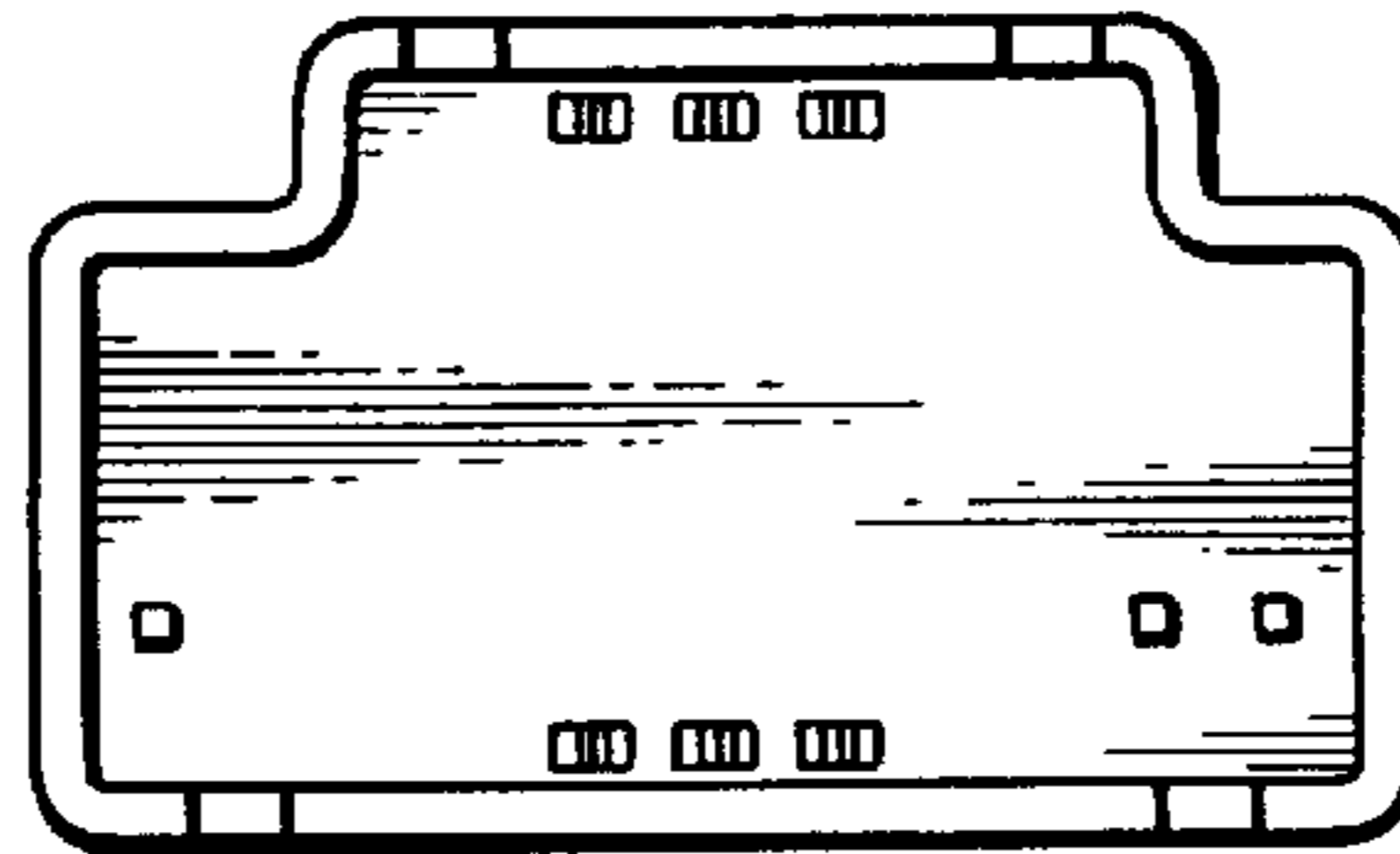
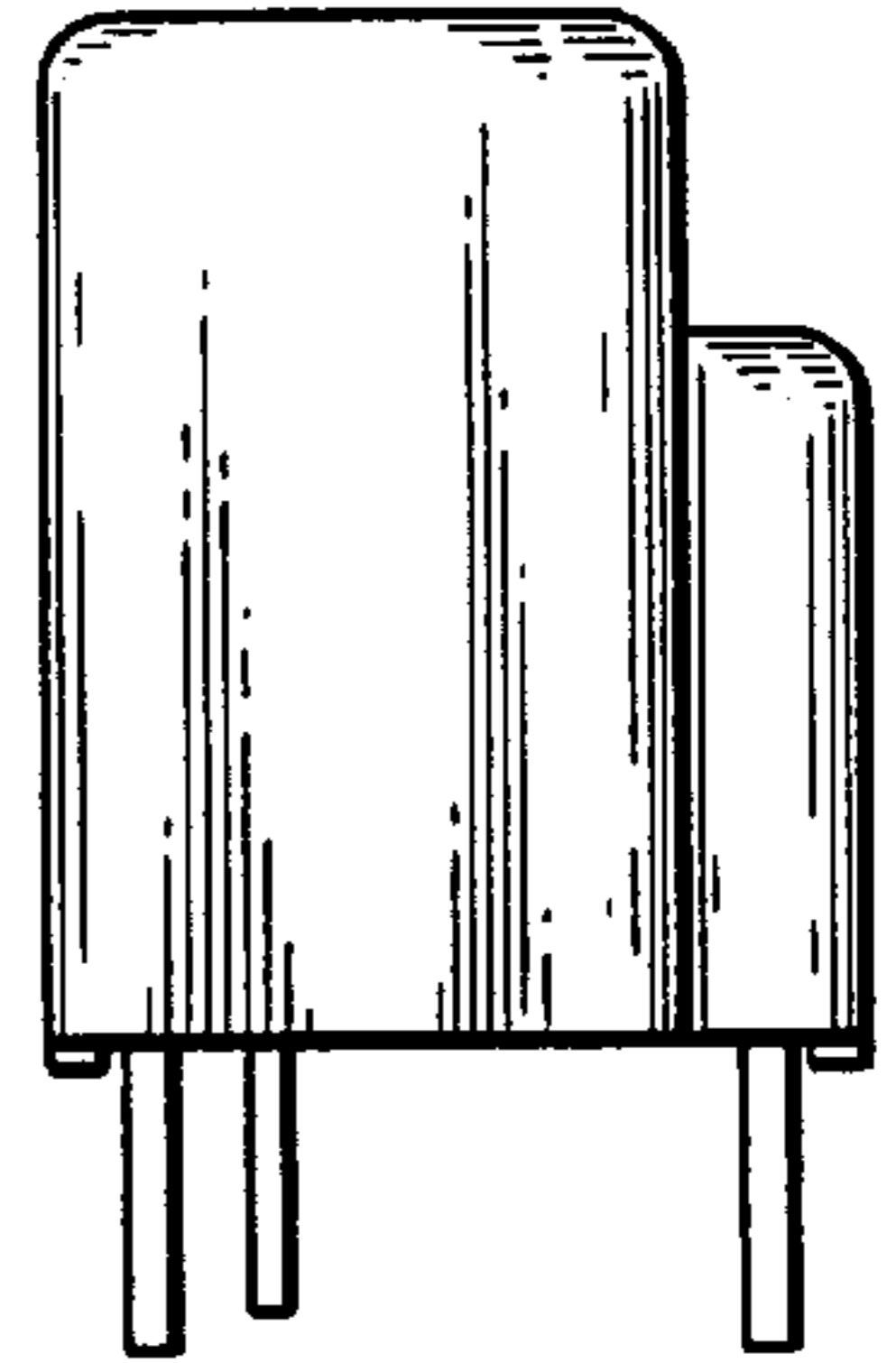


FIG. 2

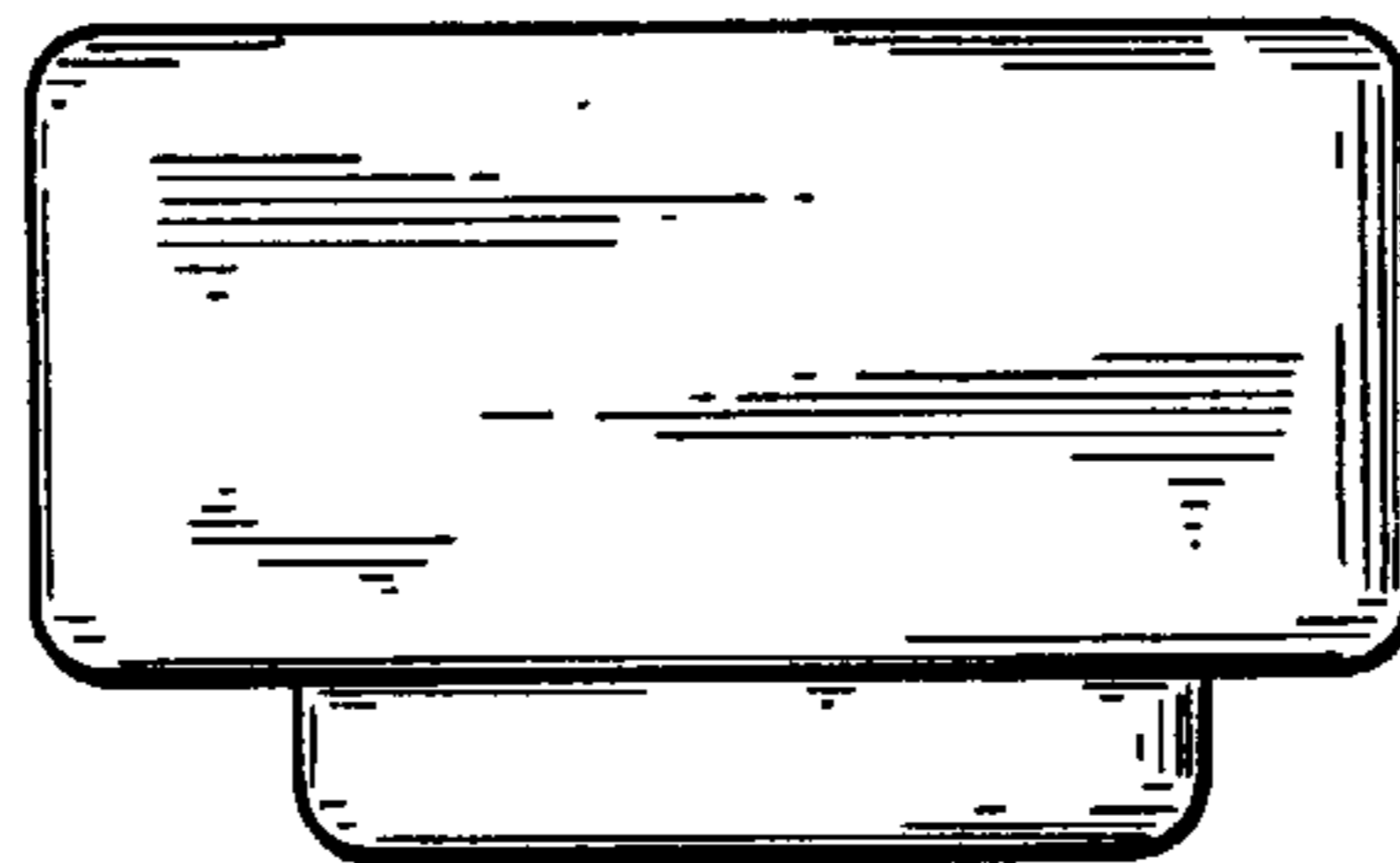


FIG. 3

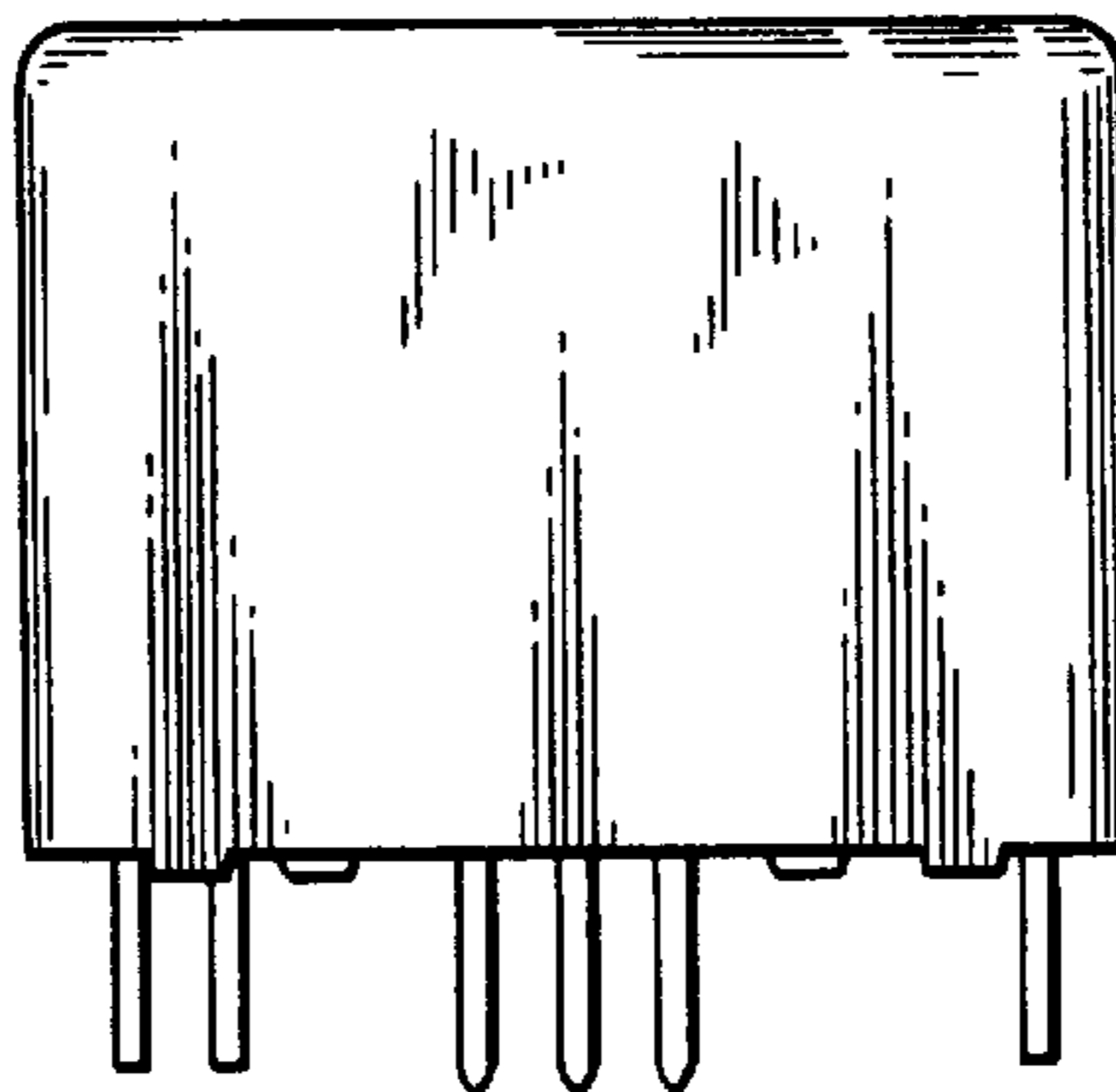


FIG. 6

FIG. 10

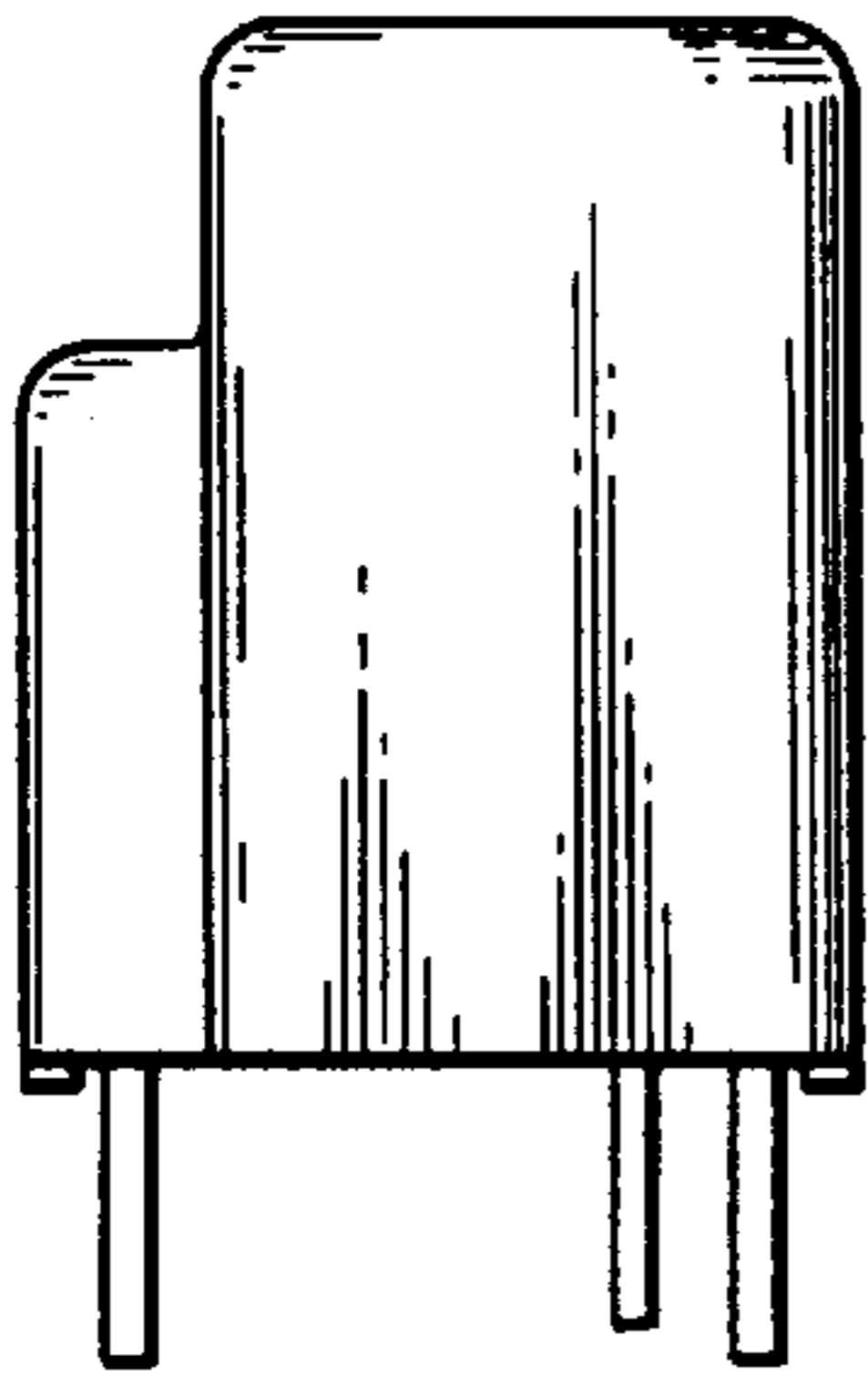


FIG. 7

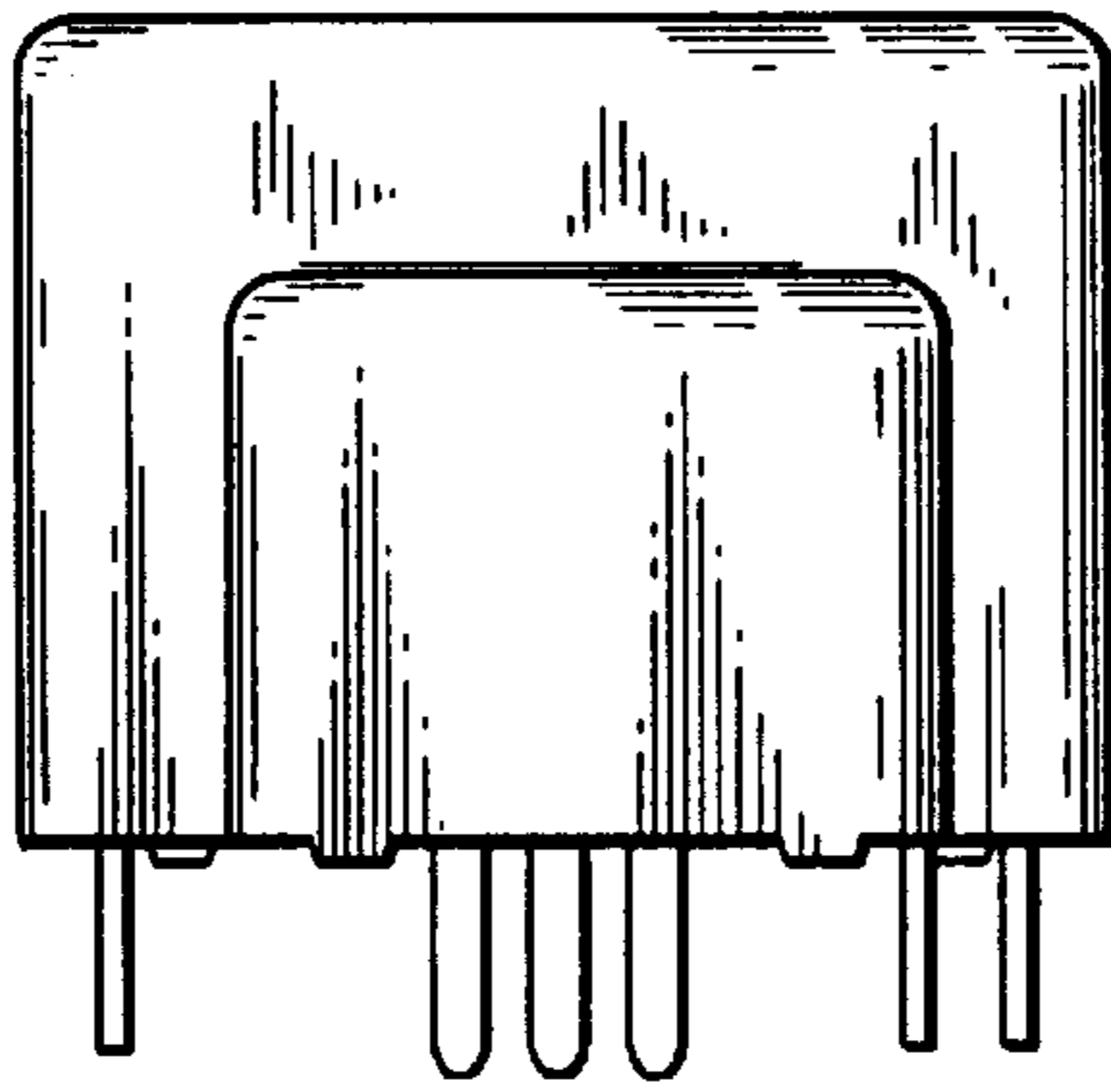


FIG. 11

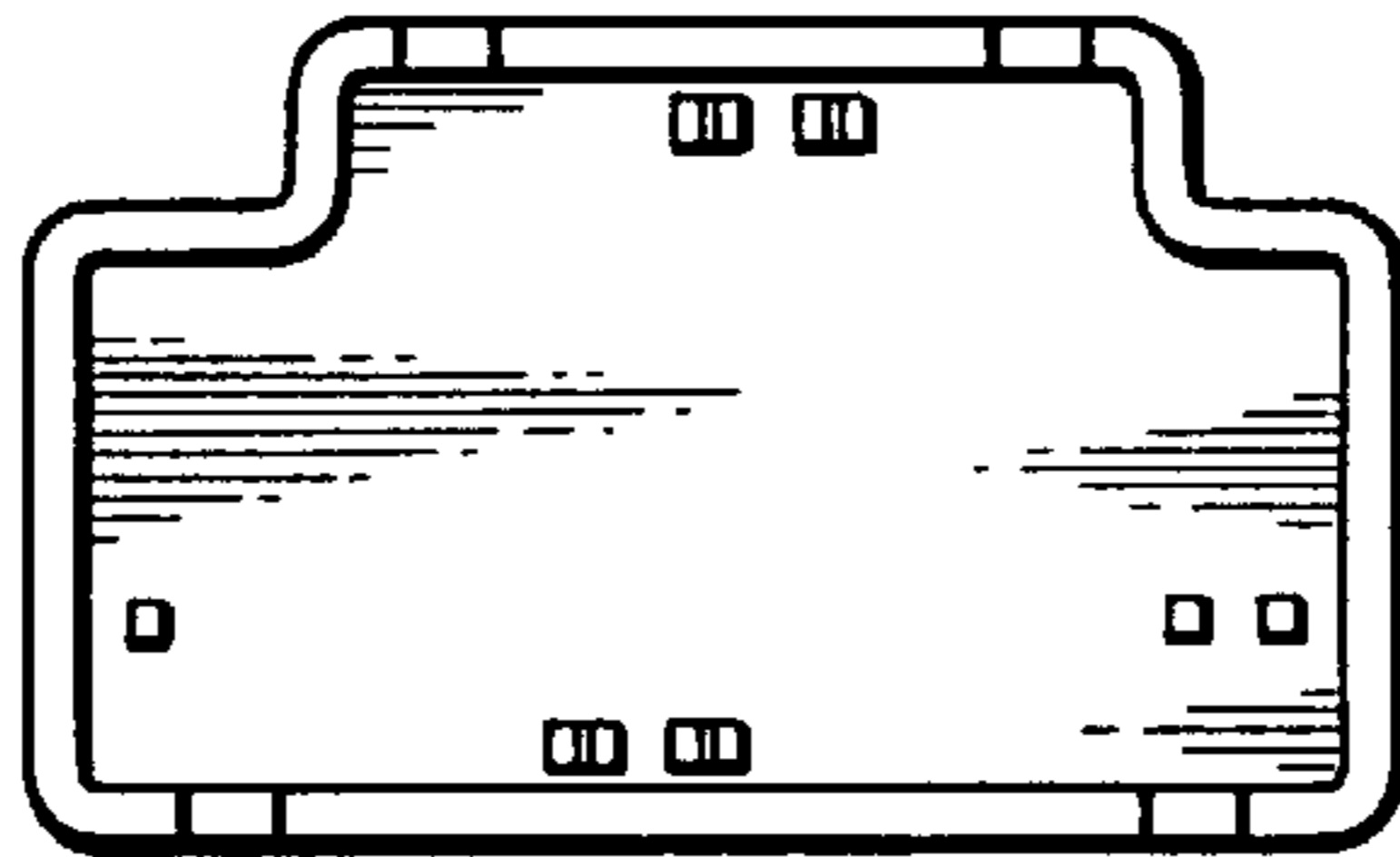
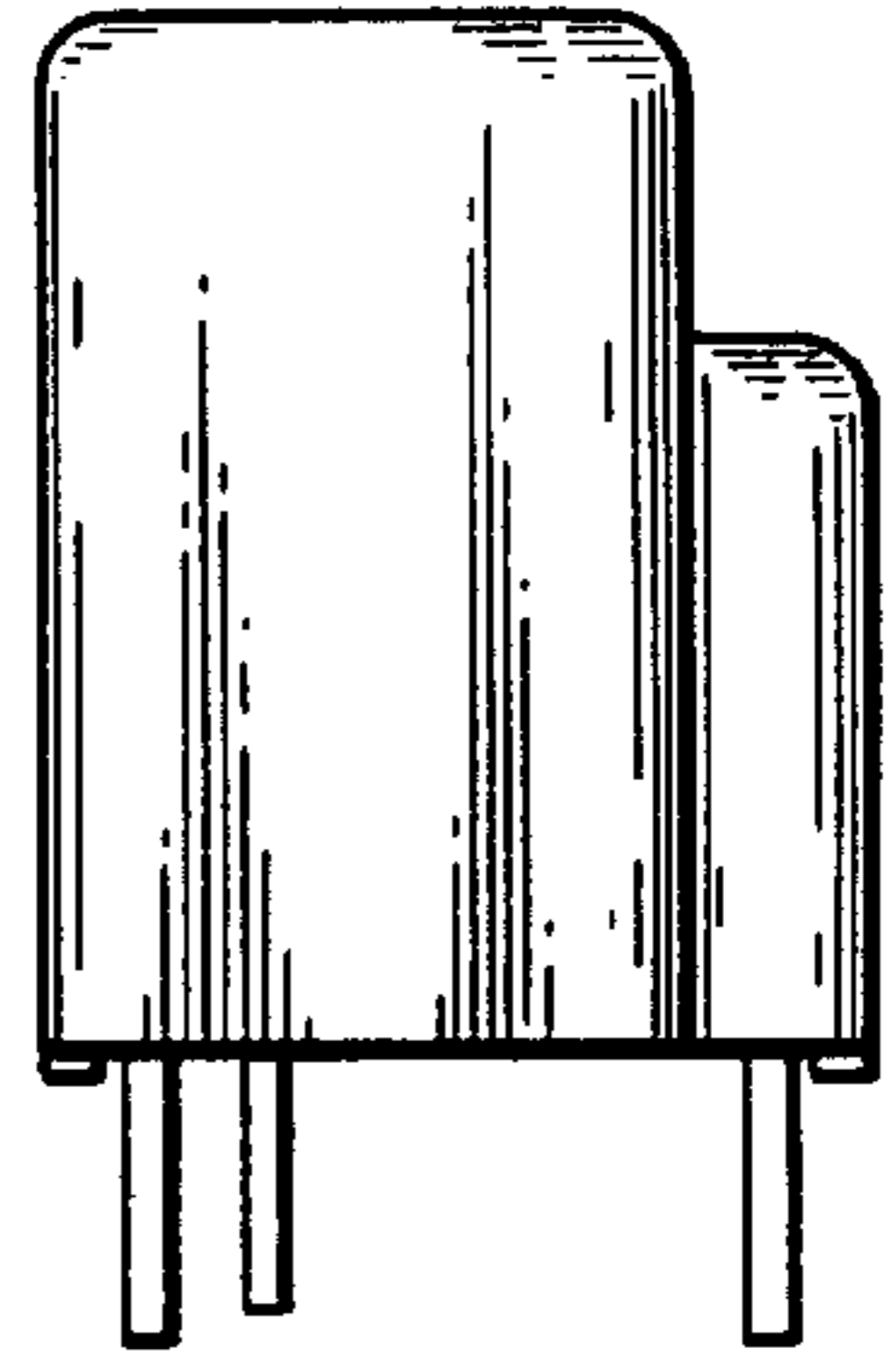


FIG. 8

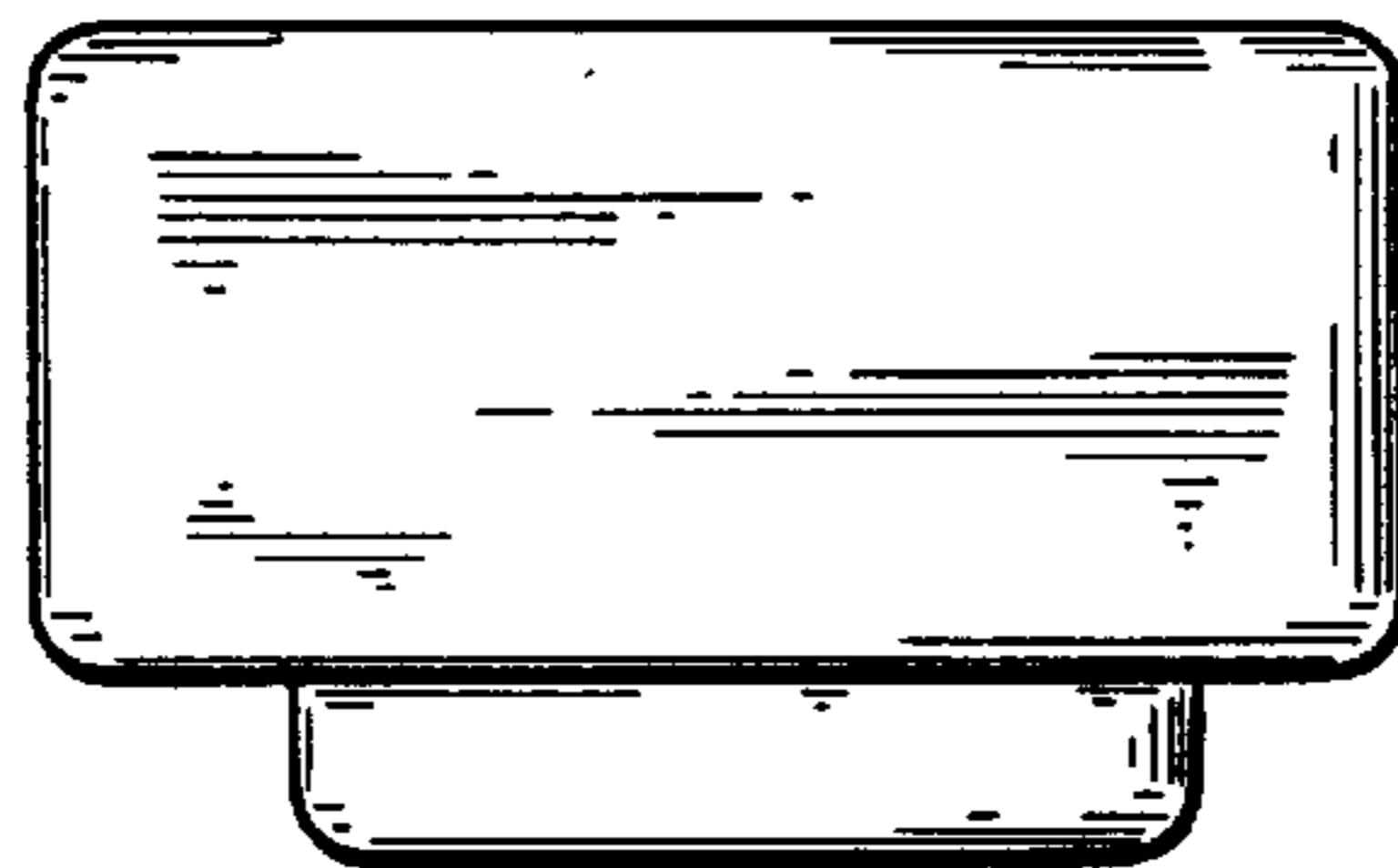


FIG. 9

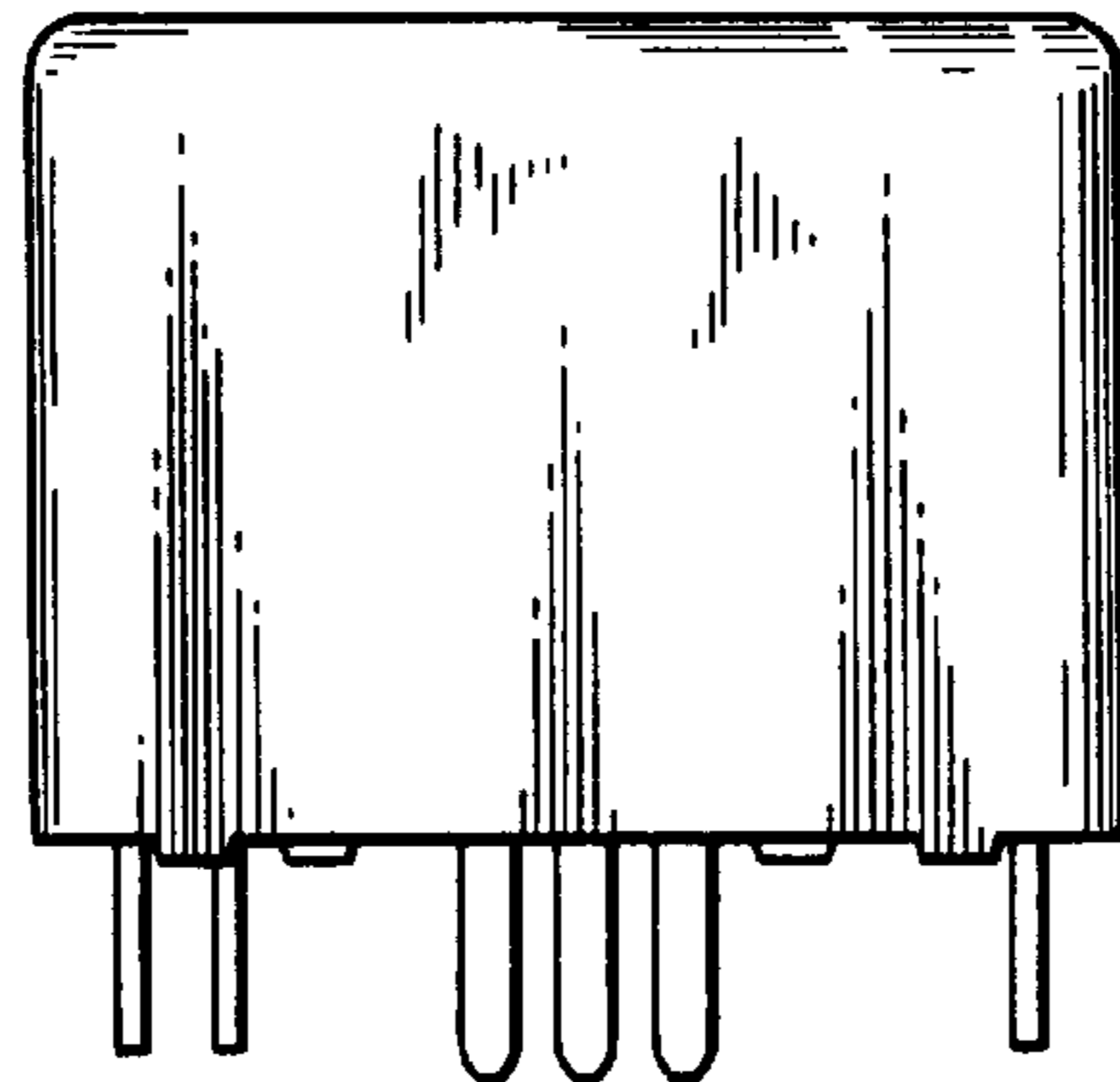
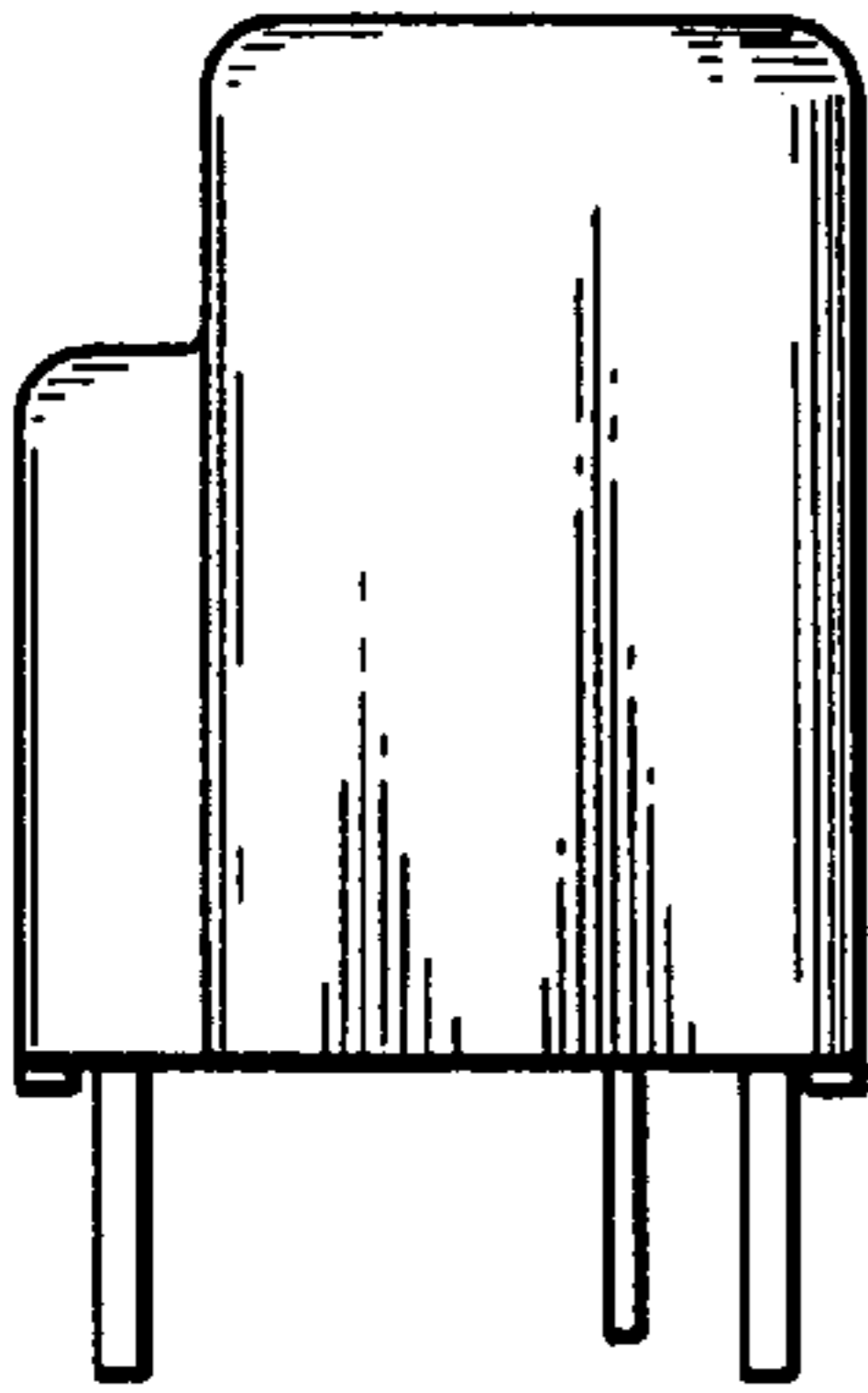
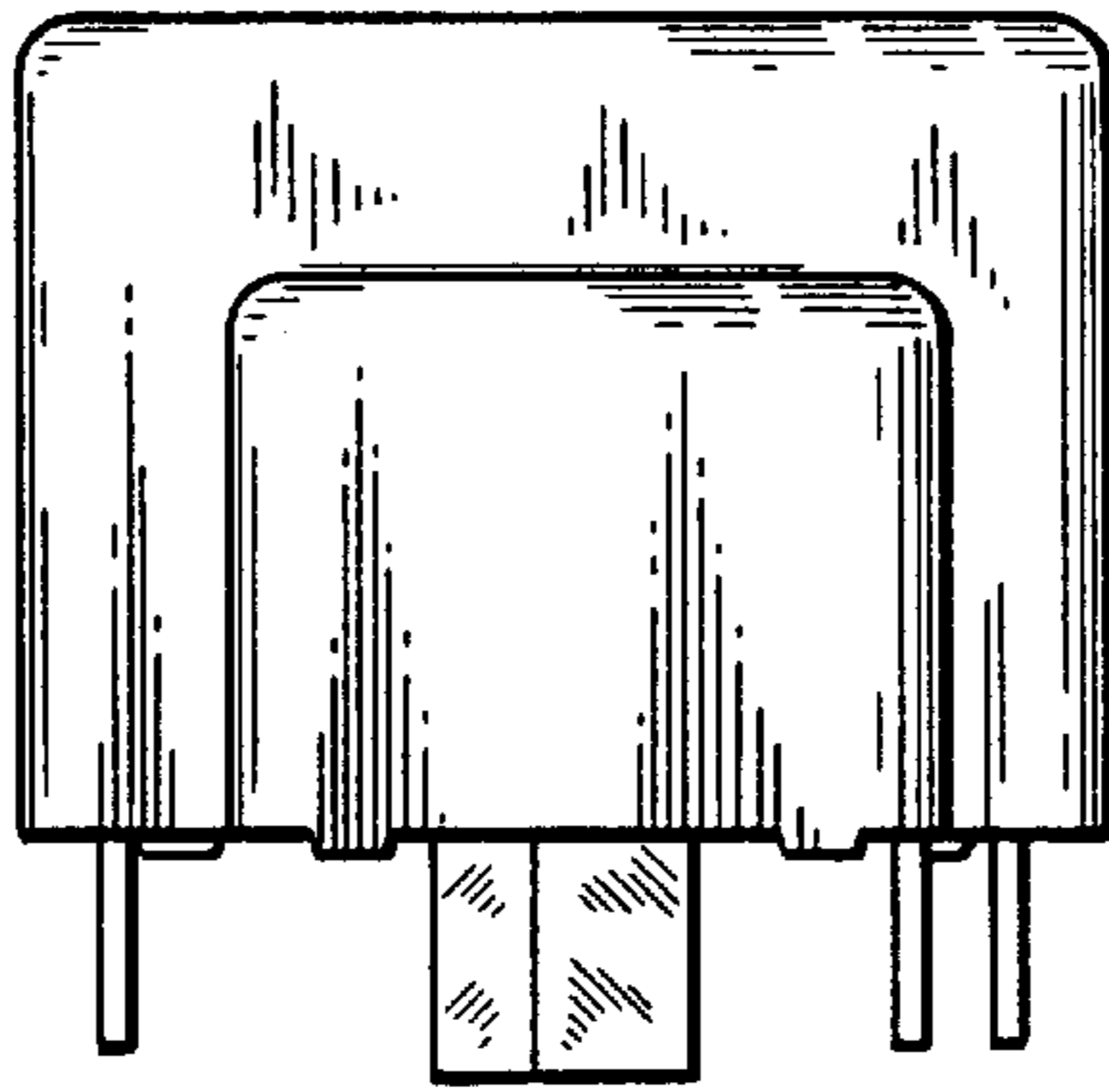


FIG. 12

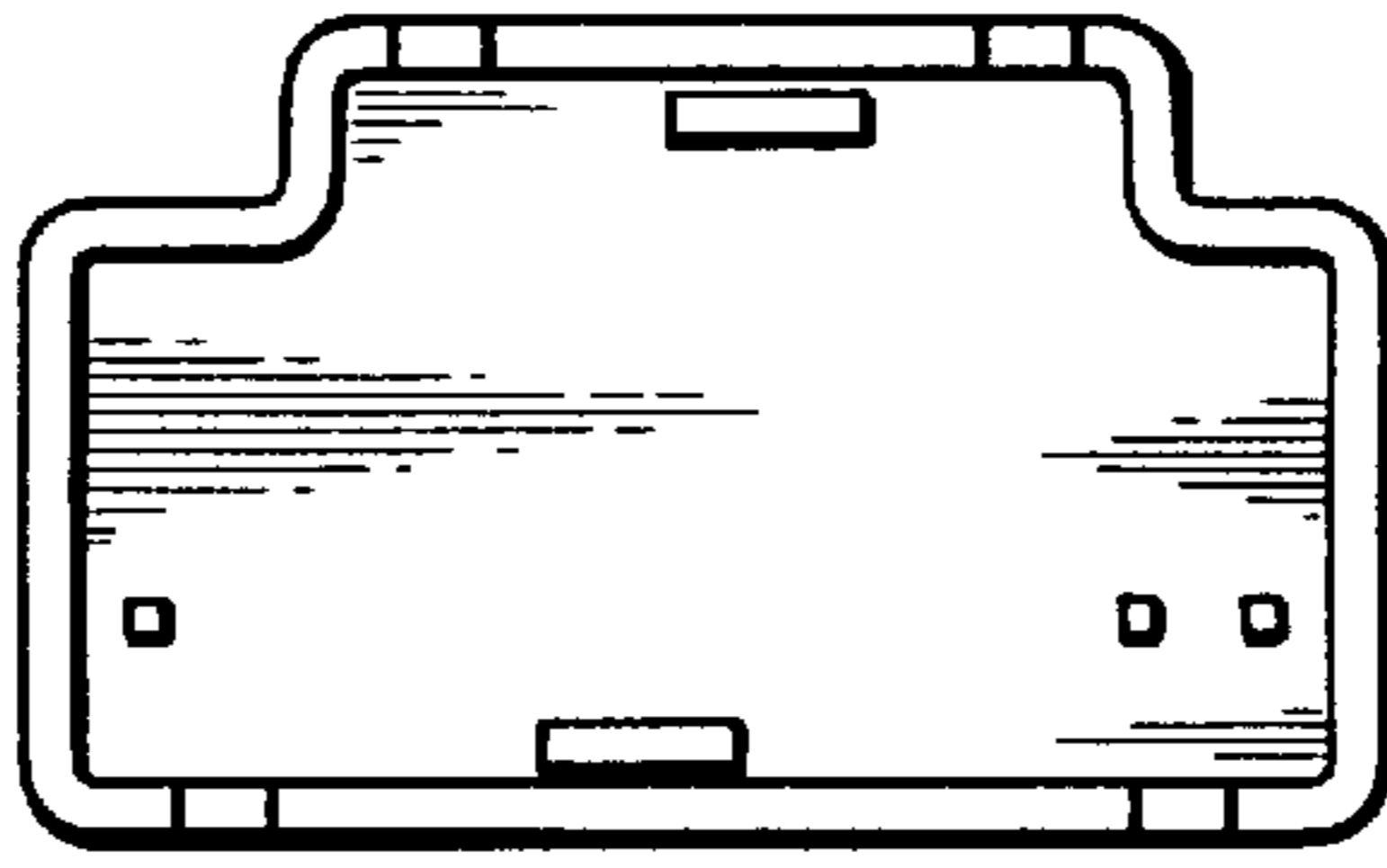
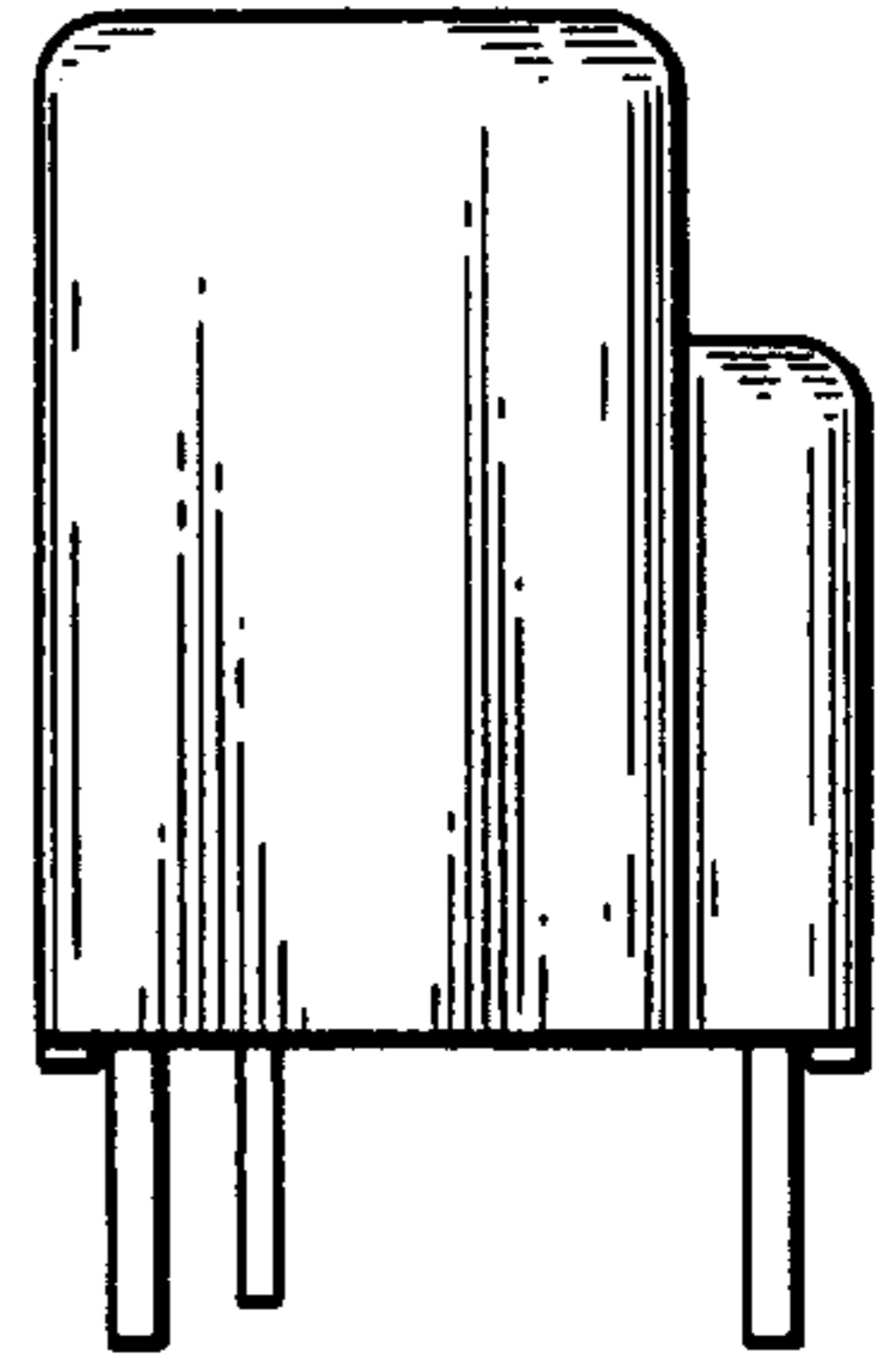
*FIG. 16*



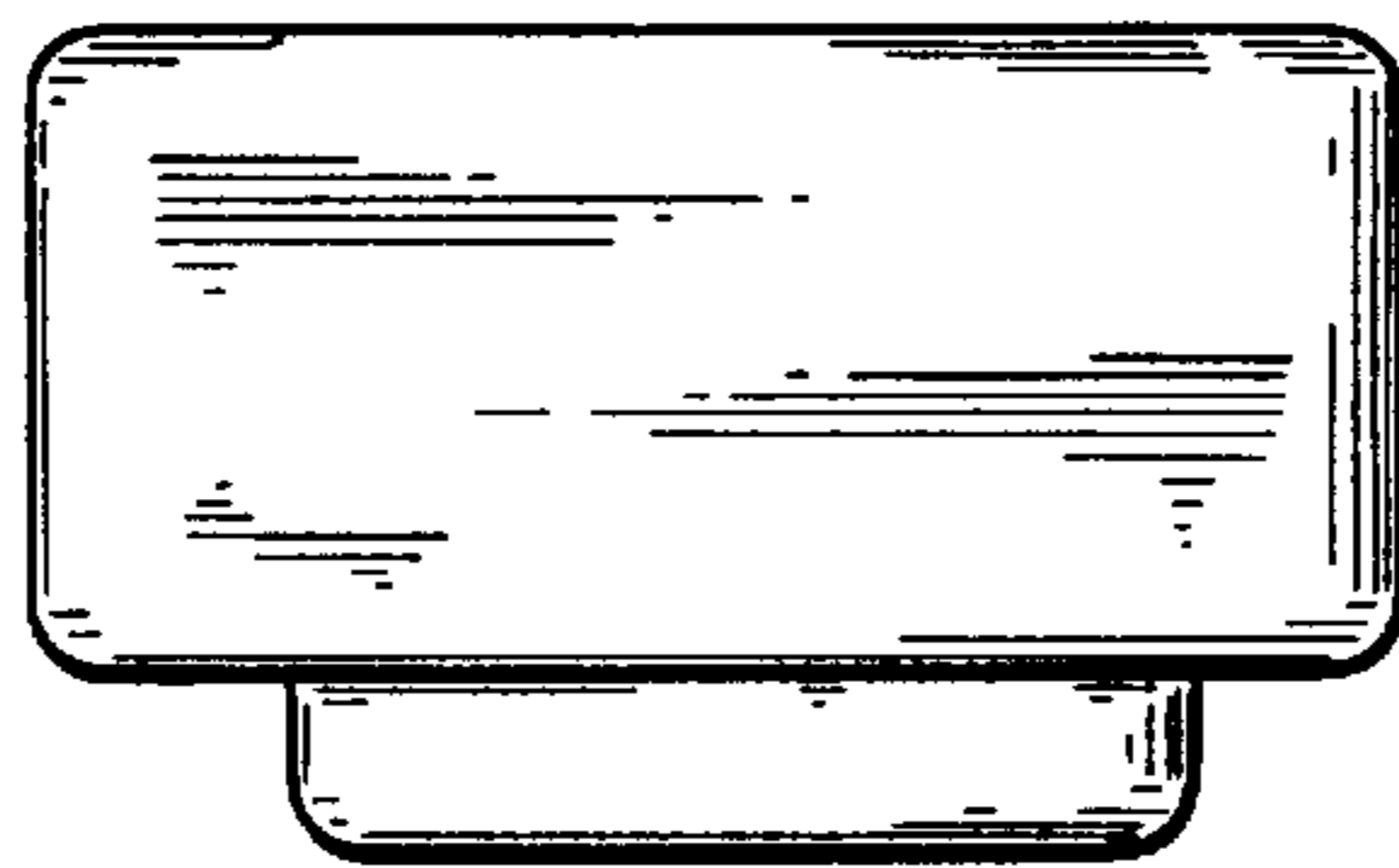
*FIG. 13*



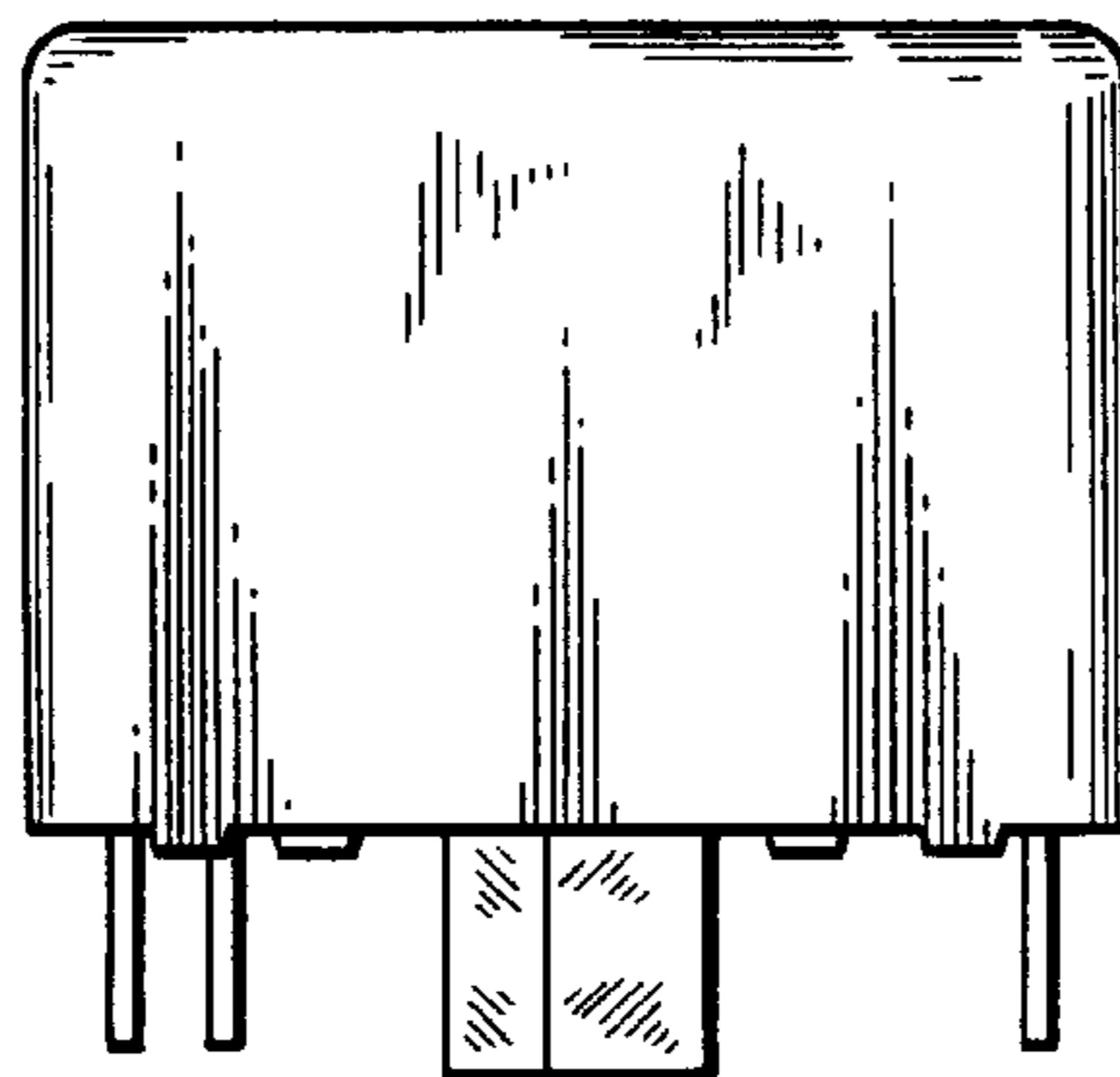
*FIG. 17*



*FIG. 14*



*FIG. 15*



*FIG. 18*

FIG. 22

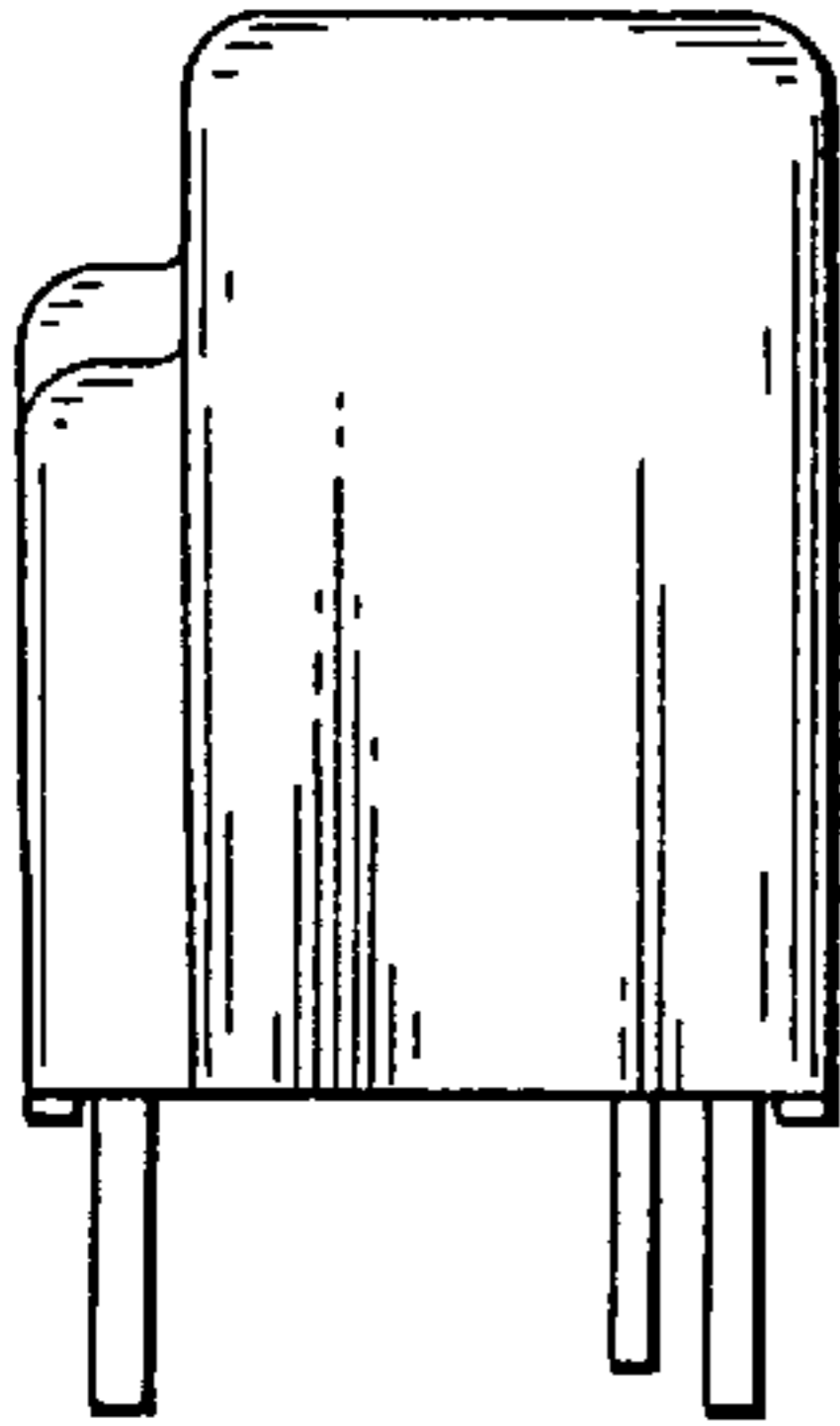


FIG. 19

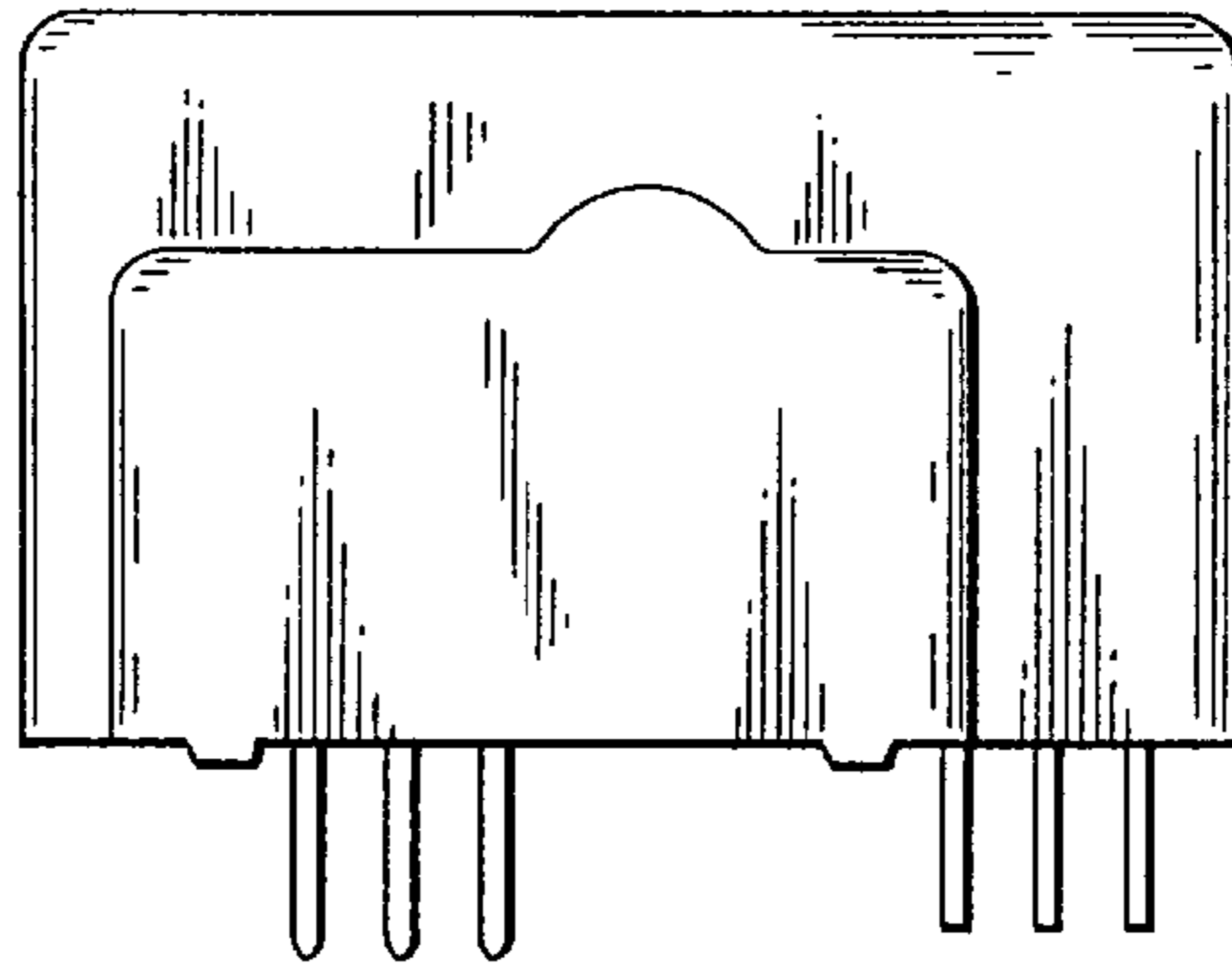


FIG. 23

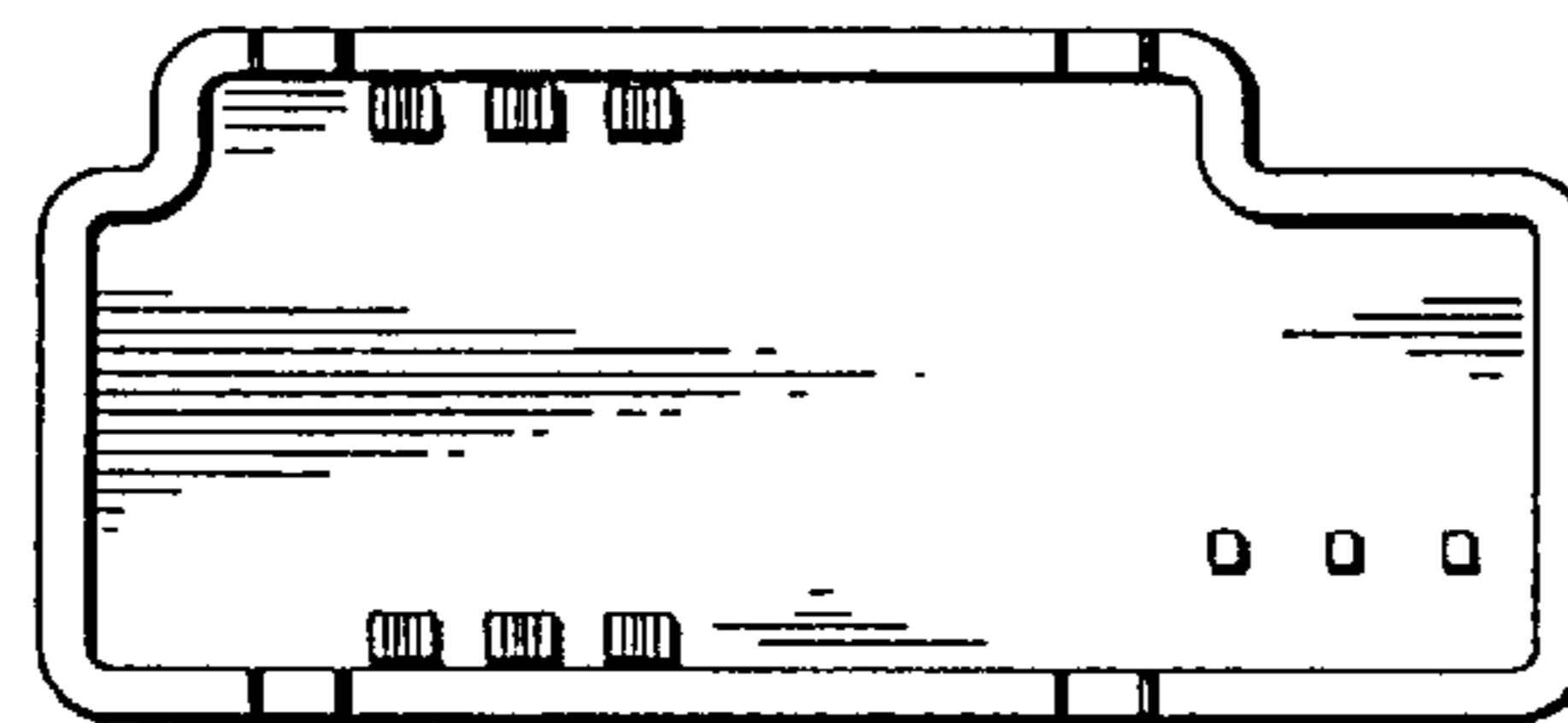
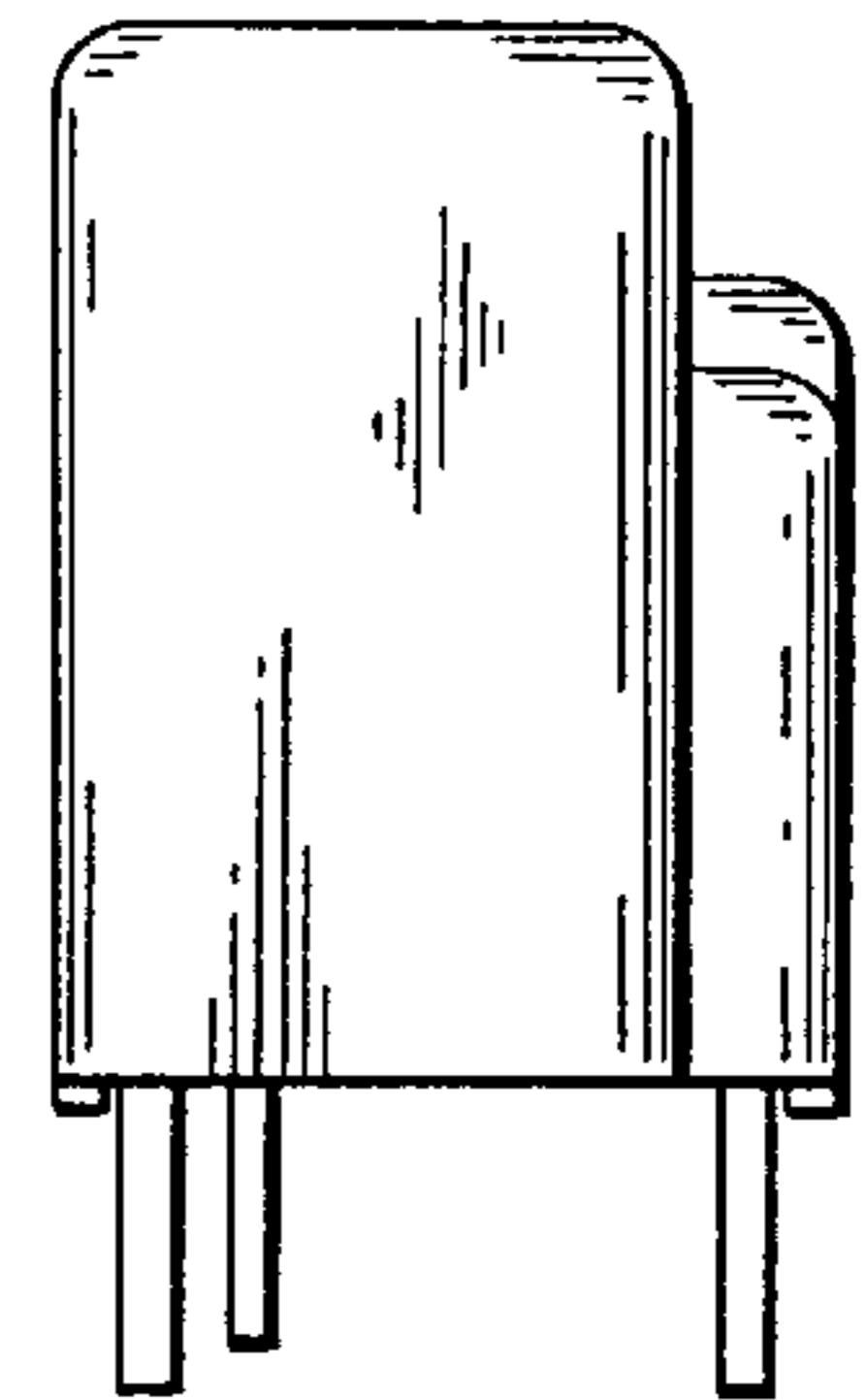


FIG. 20

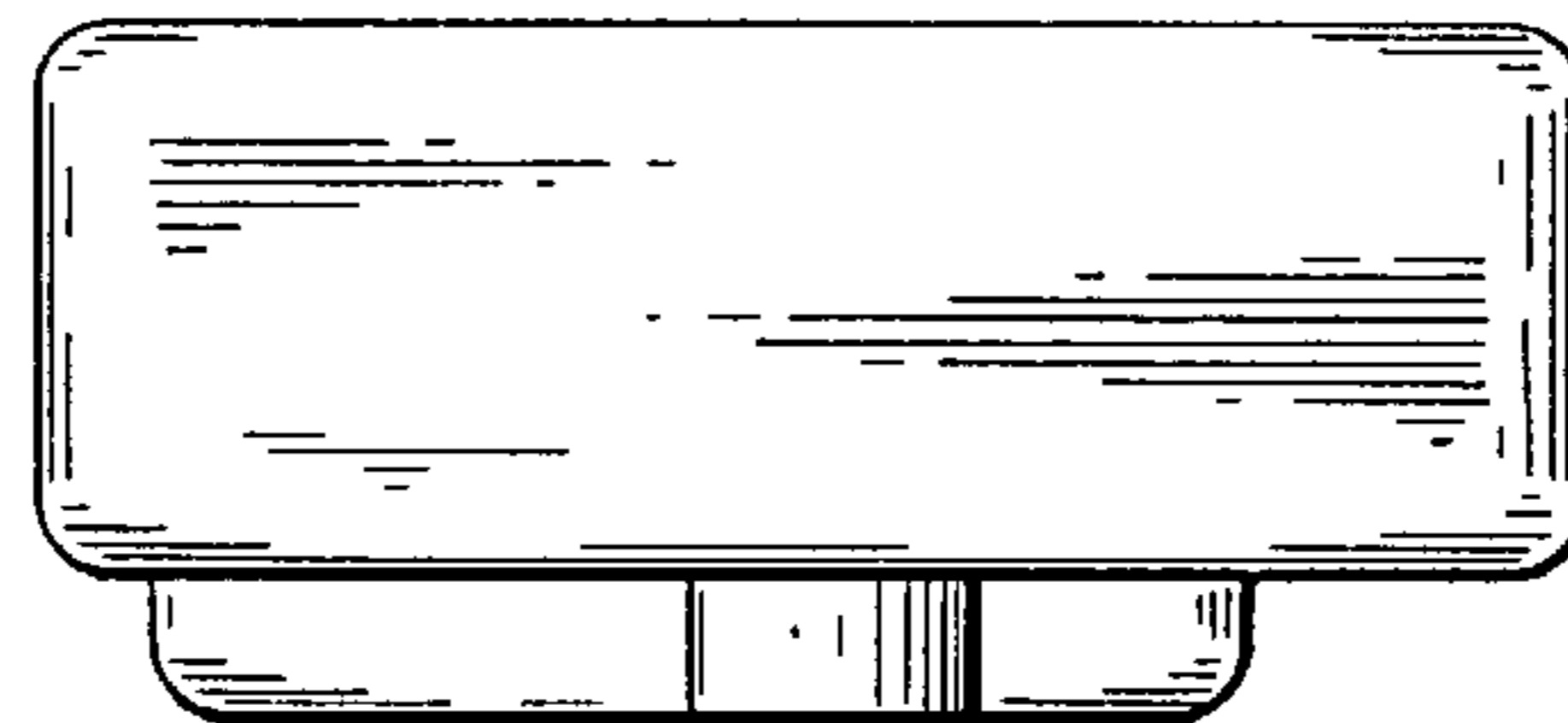


FIG. 21

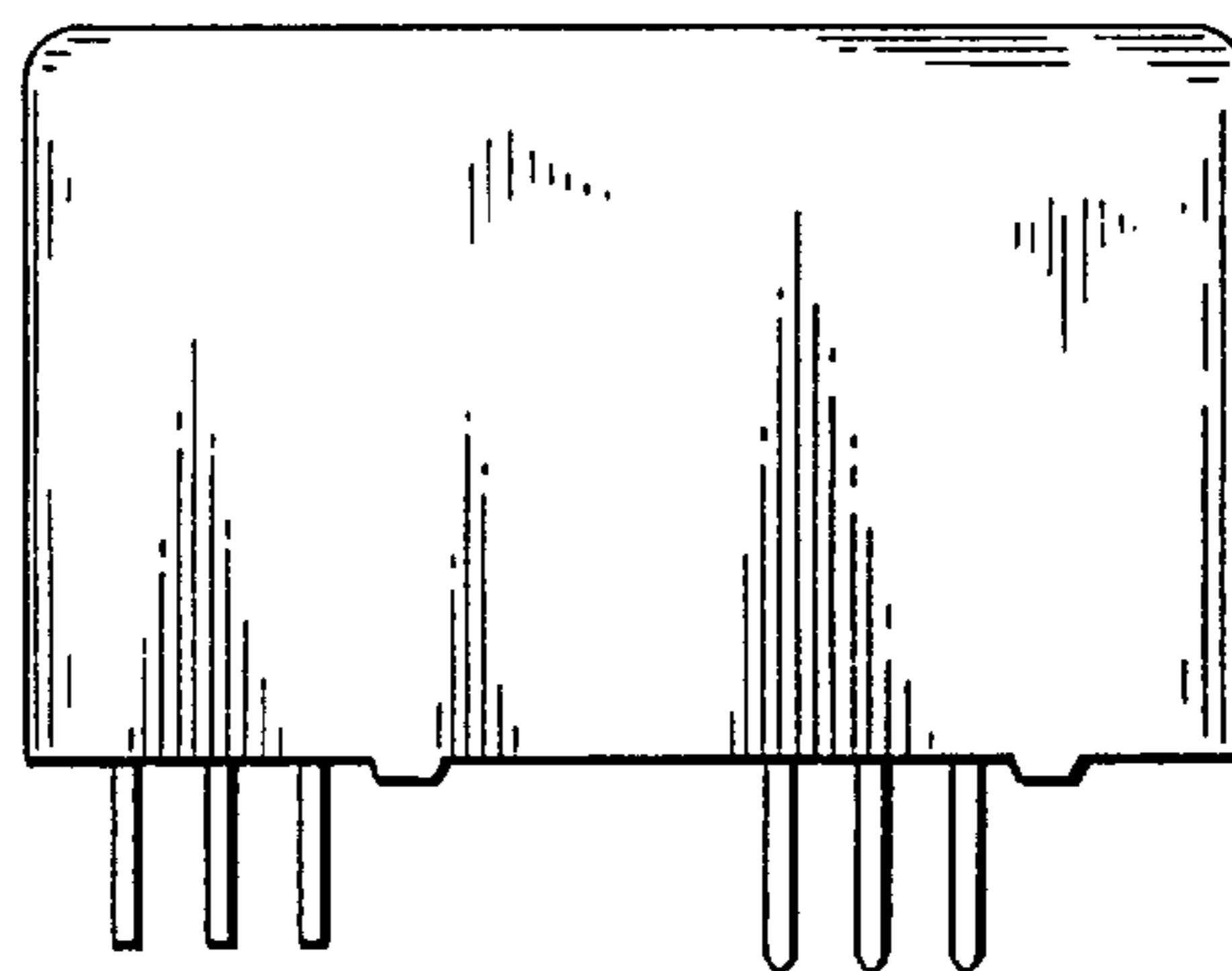
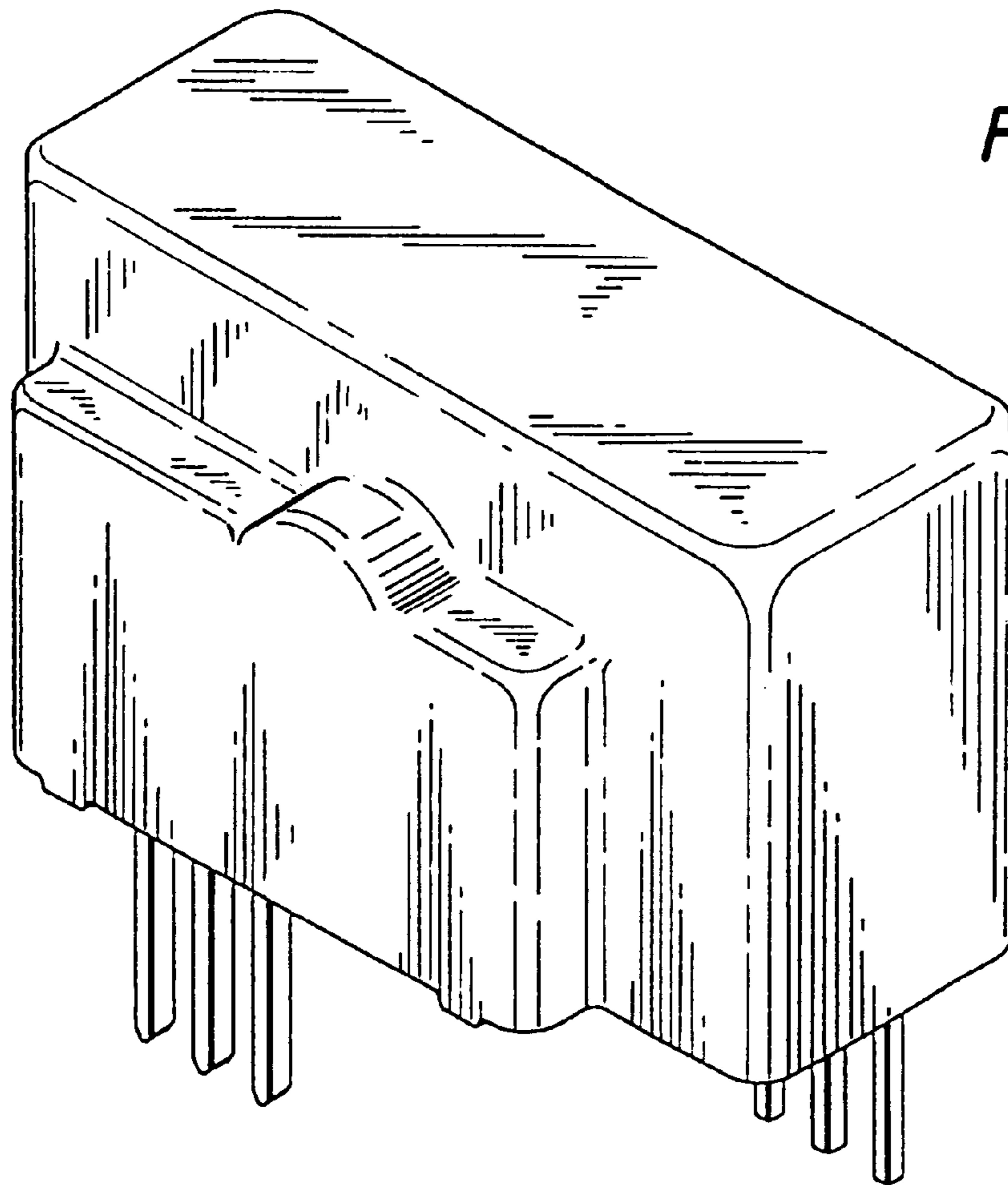


FIG. 24



*FIG. 25*

FIG. 29

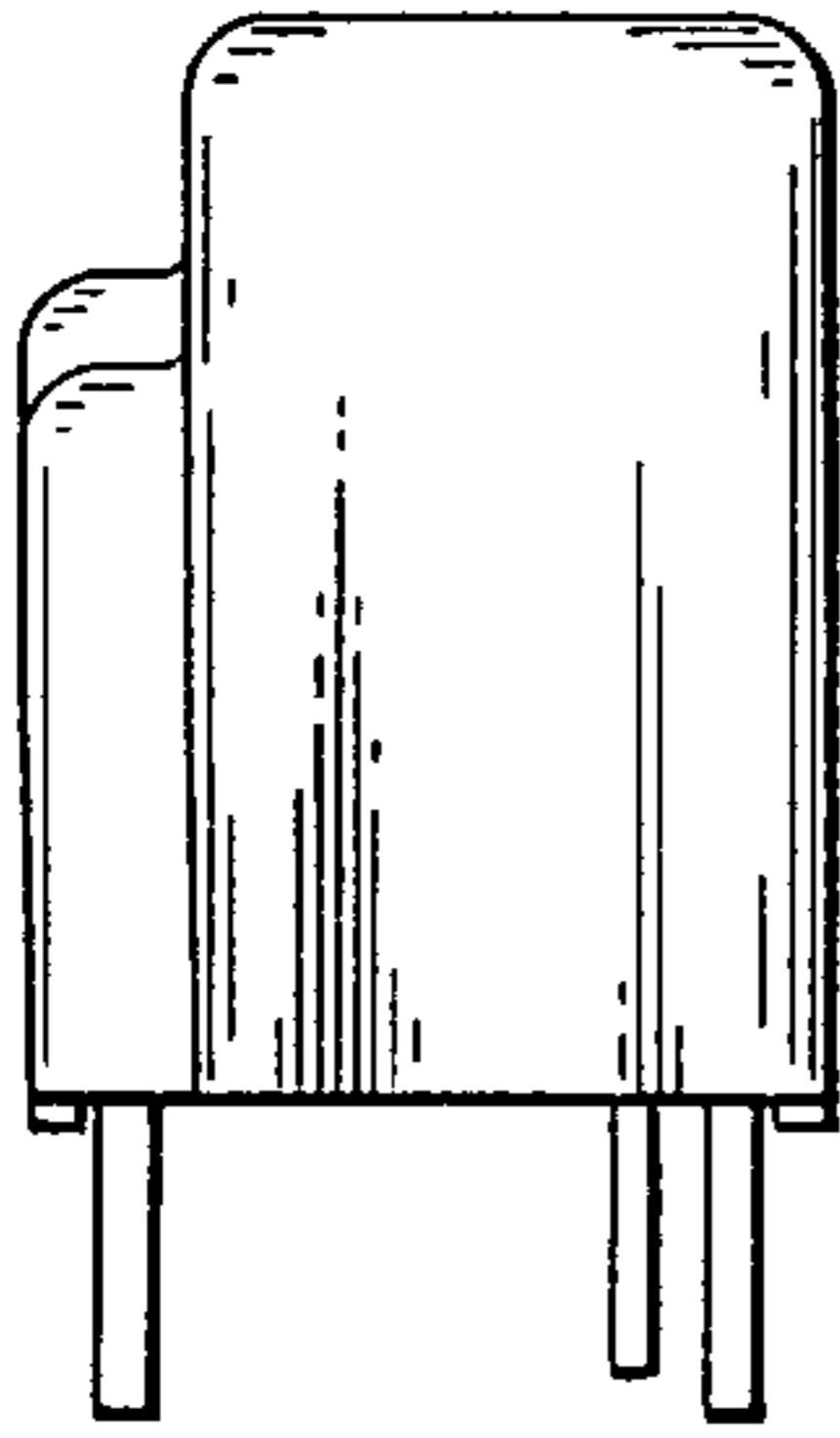


FIG. 26

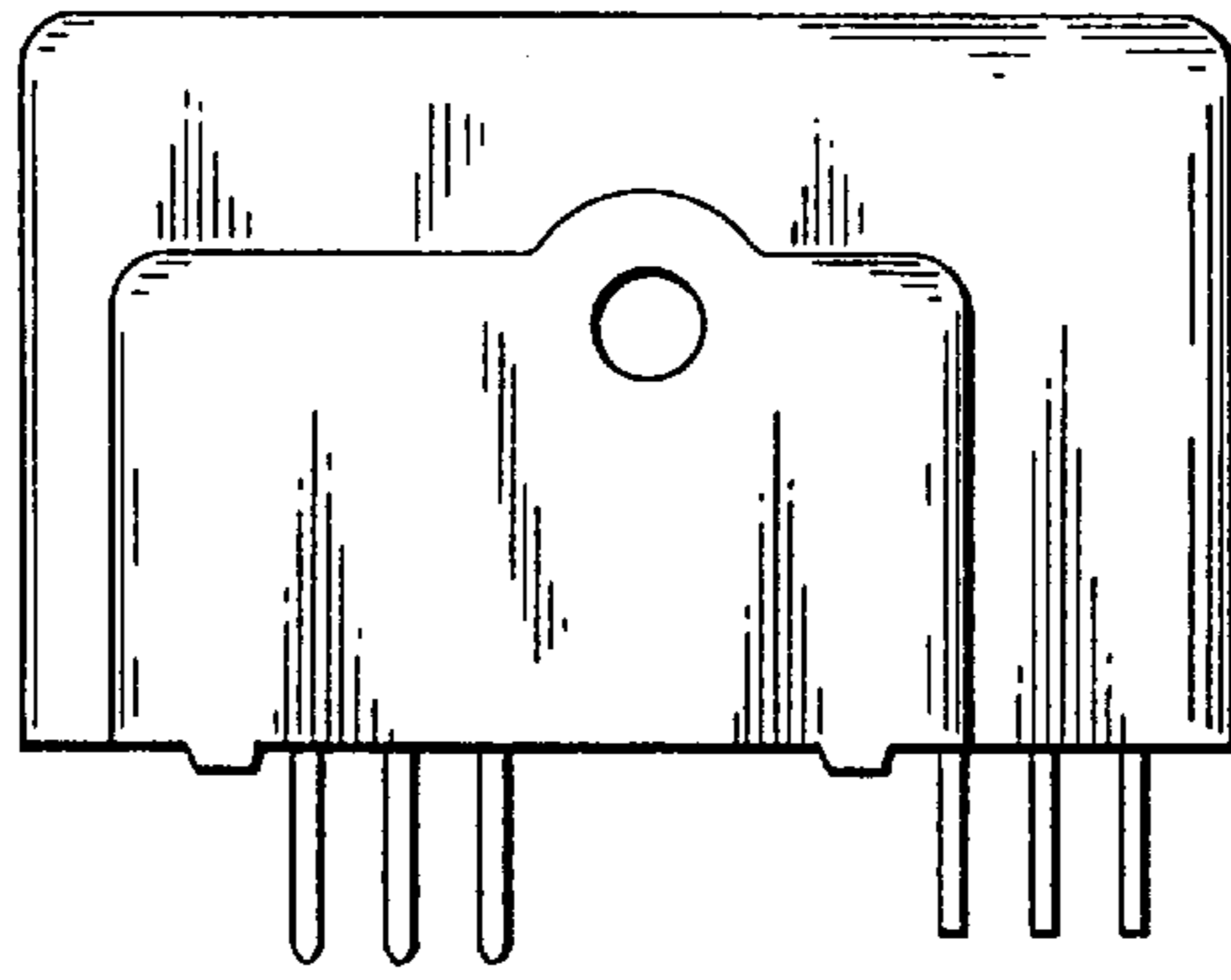


FIG. 30

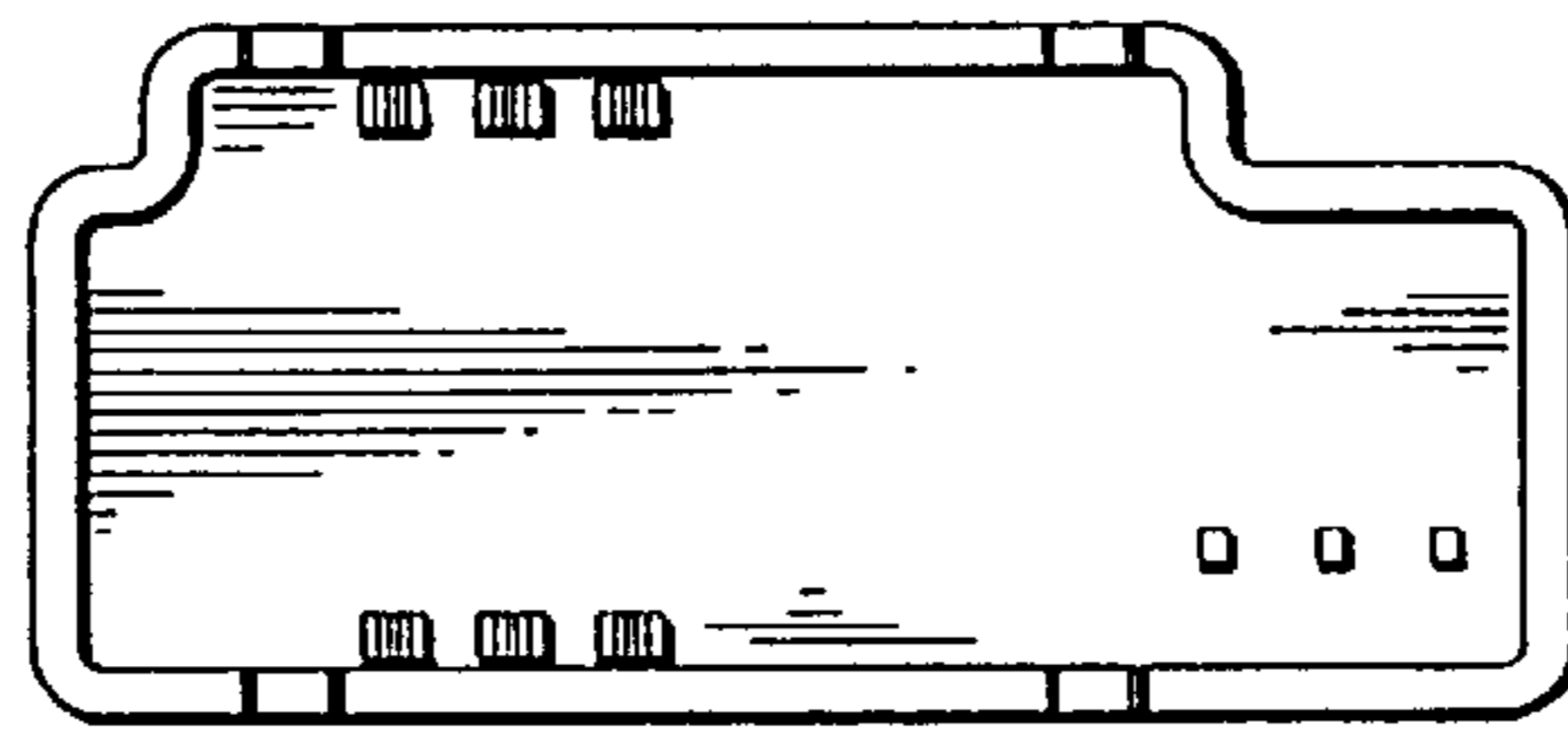
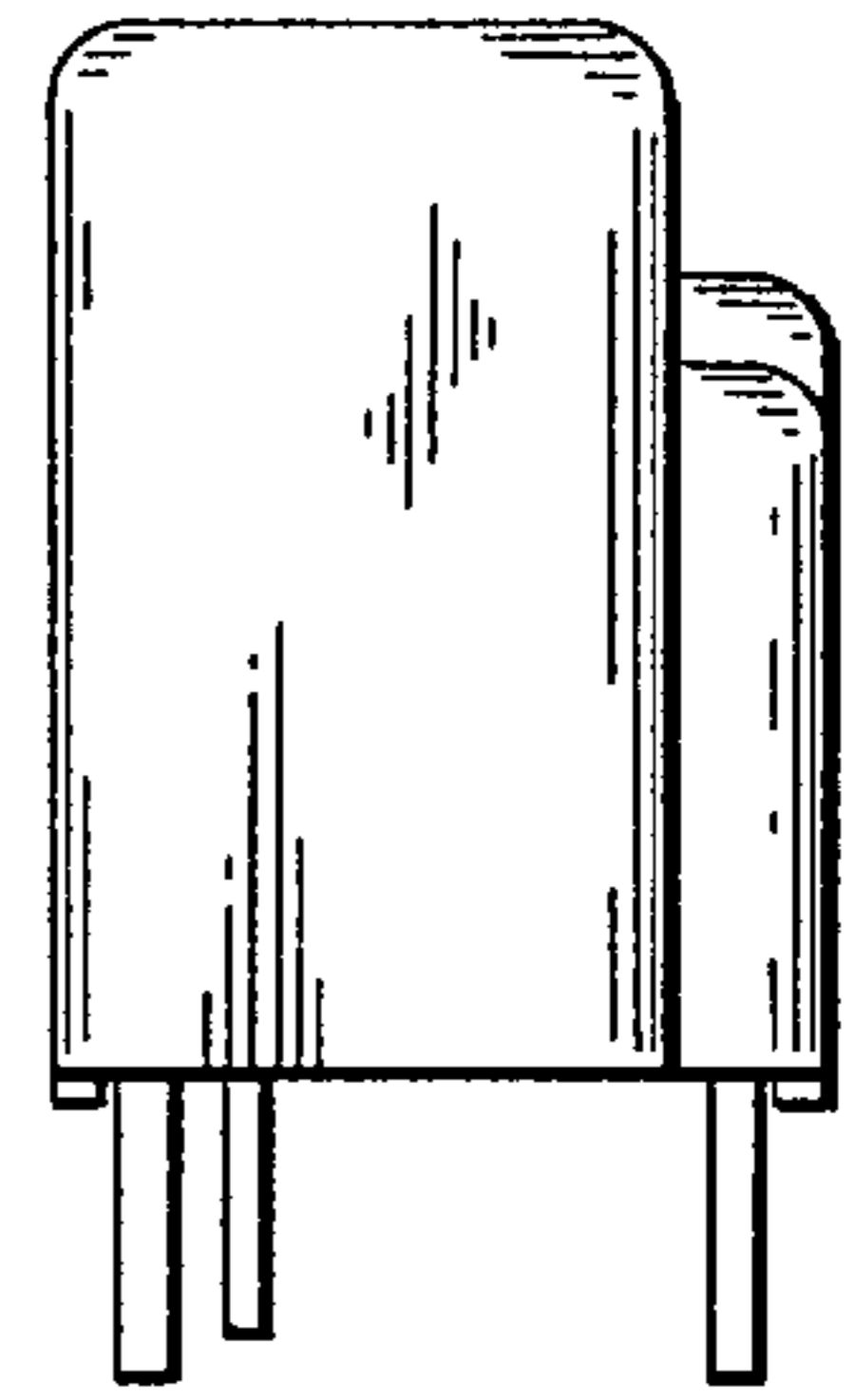


FIG. 27

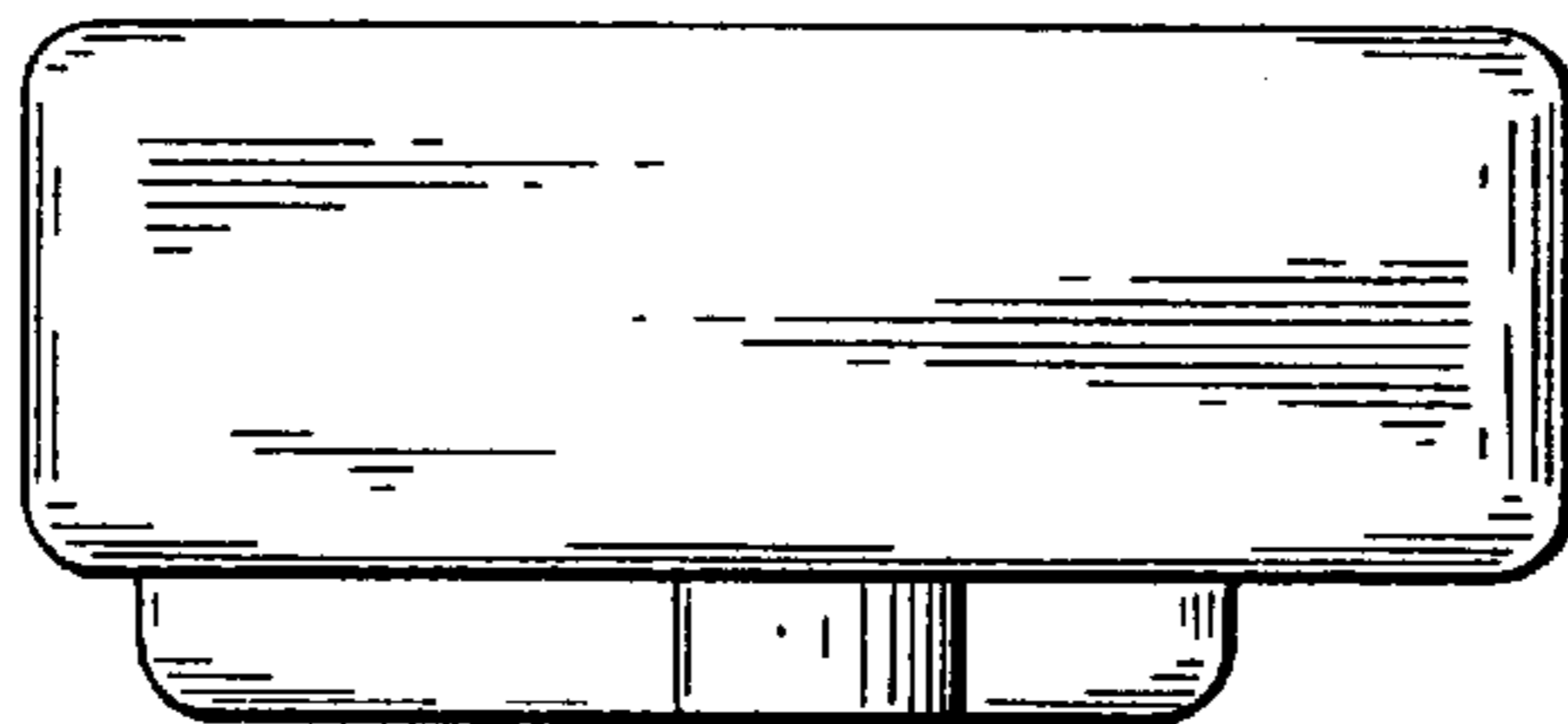


FIG. 28

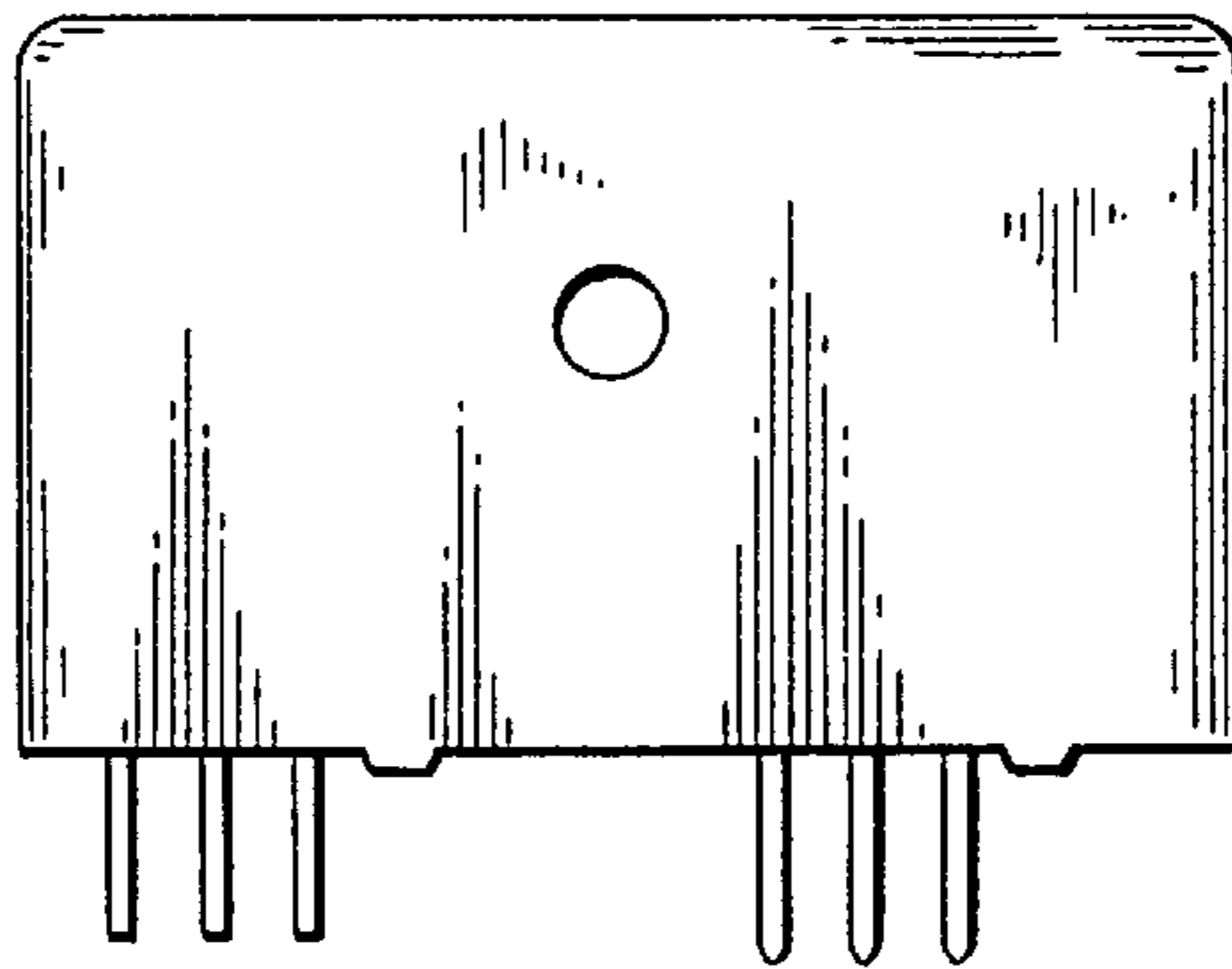


FIG. 31

*FIG. 32*

