



US00D418115S

United States Patent [19]

Shimizu et al.

[11] Patent Number: Des. 418,115

[45] Date of Patent: ** Dec. 28, 1999

[54] PROGRAMMABLE CONTROLLER

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[73] Assignee: Koyo Electronics Industries Co., Ltd., Tokyo, Japan

[**] Term: 14 Years

[21] Appl. No.: 29/082,848

[22] Filed: Jan. 29, 1998

[30] Foreign Application Priority Data

Dec. 15, 1997	[JP]	Japan	9-78169
Dec. 15, 1997	[JP]	Japan	9-78170

[51] LOC (6) Cl. 13-03

[52] U.S. Cl. D13/162.1

[58] Field of Search D13/162, 162.1, D13/164; 361/681, 686, 687, 731, 733, 752, 823; 439/716, 928.1

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Assistant Examiner—Lavone D. Tabor
Attorney, Agent, or Firm—Ladas & Parry

[57] CLAIM

The ornamental design for a programmable controller, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a programmable controller showing the new design;
 FIG. 2 is a top plan view thereof;
 FIG. 3 is a rear view thereof;
 FIG. 4 is a bottom plan view thereof;
 FIG. 5 is a left side view thereof;
 FIG. 6 is a right side view thereof;
 FIG. 7 is a sectional view taken along line 7—7 of FIG. 1.
 FIG. 8 is a front view of a second embodiment of the programmable controller;
 FIG. 9 is a top plan view of FIG. 8;
 FIG. 10 is a rear view of FIG. 8;
 FIG. 11 is a bottom plan view of FIG. 8;
 FIG. 12 is a left side view of FIG. 8;
 FIG. 13 is a right side view of FIG. 8; and,
 FIG. 14 is a sectional view taken along line 14—14 of FIG. 8.

1 Claim, 8 Drawing Sheets

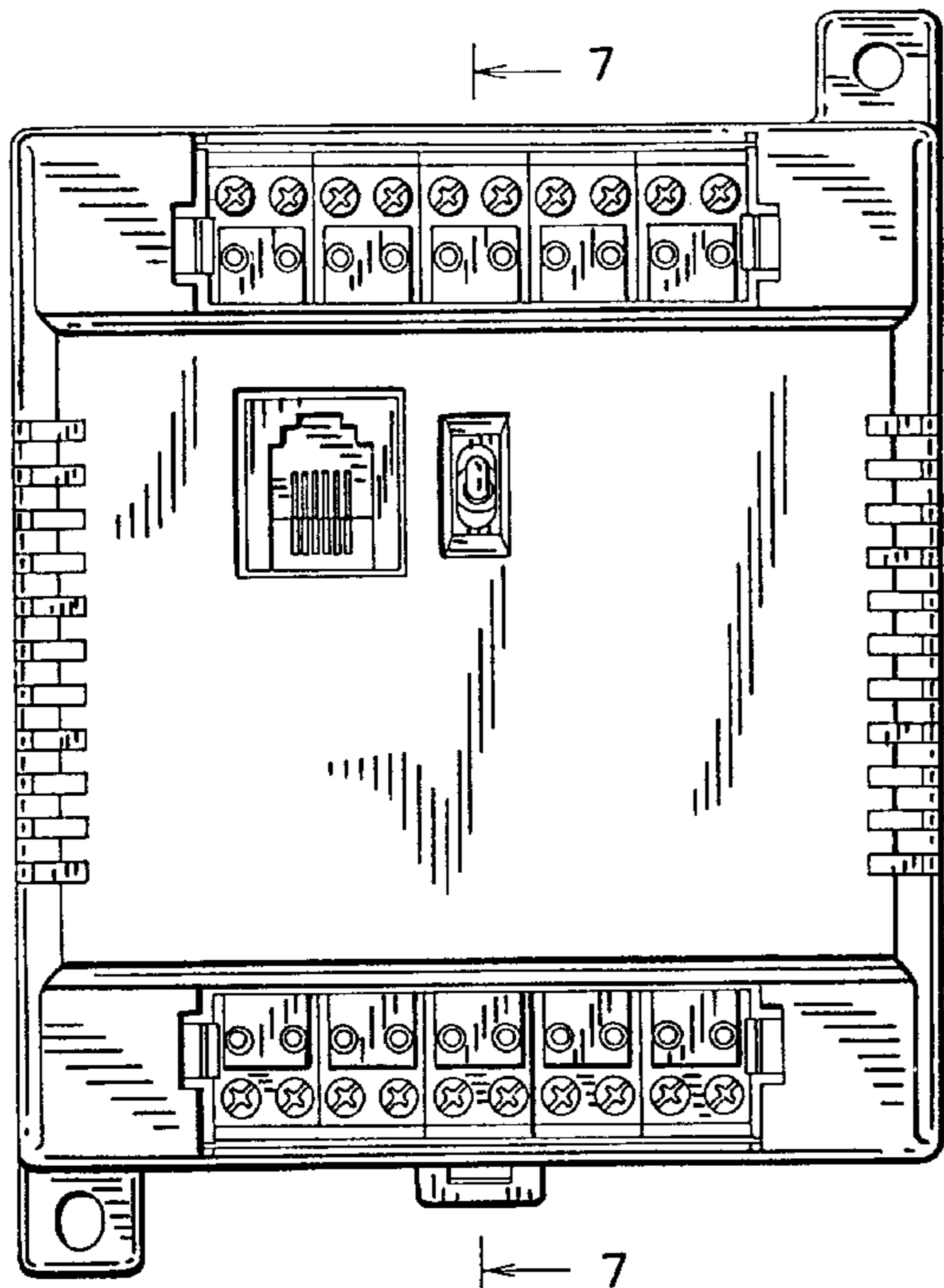
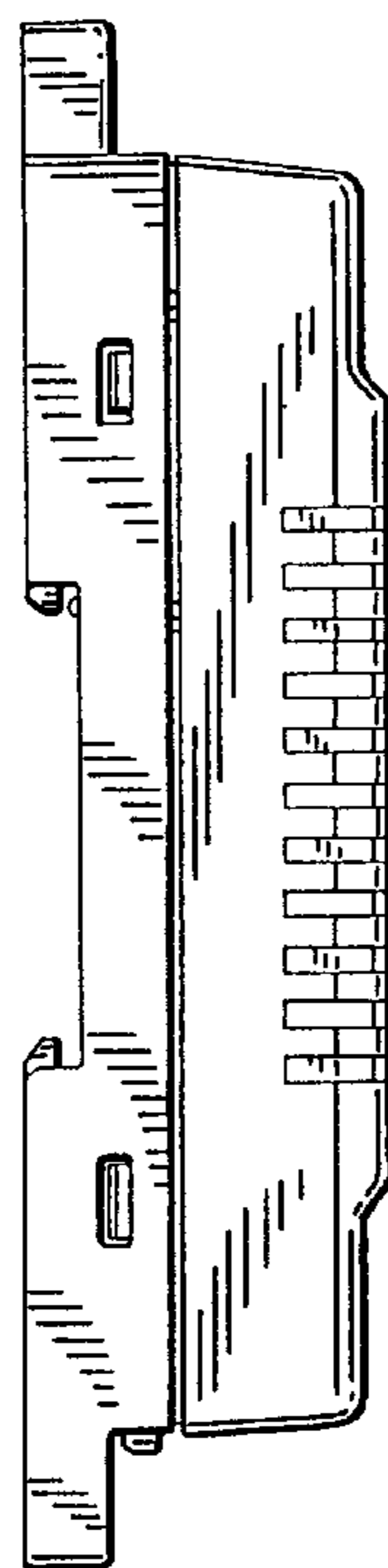
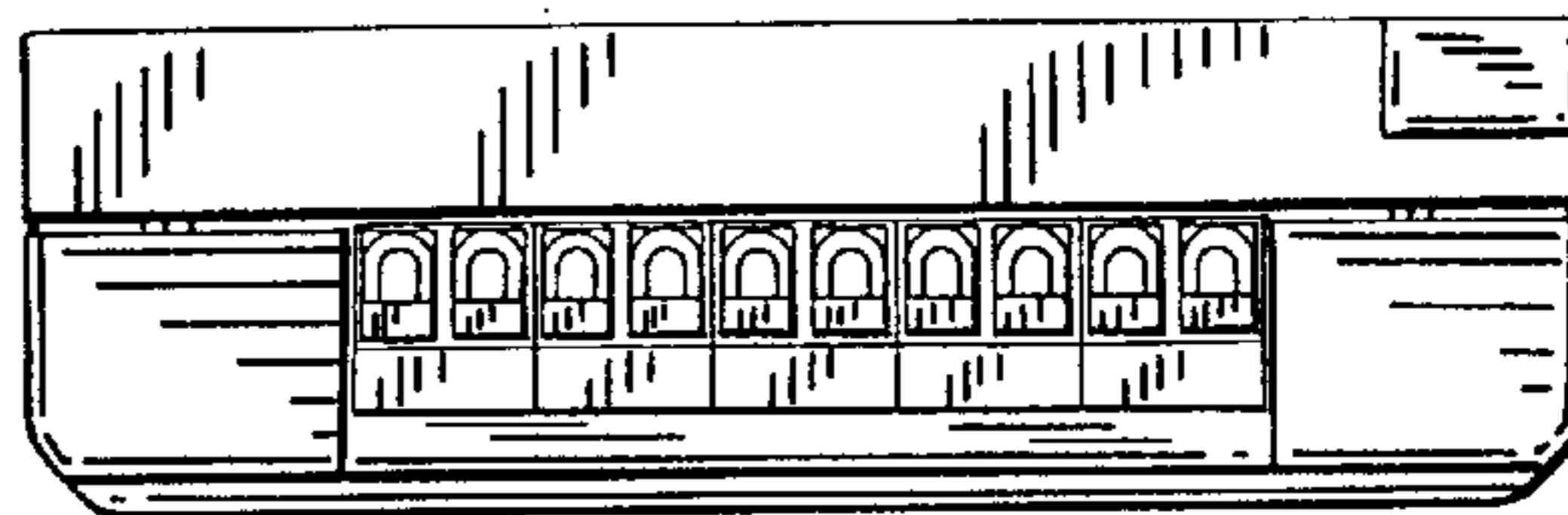


FIG. 1

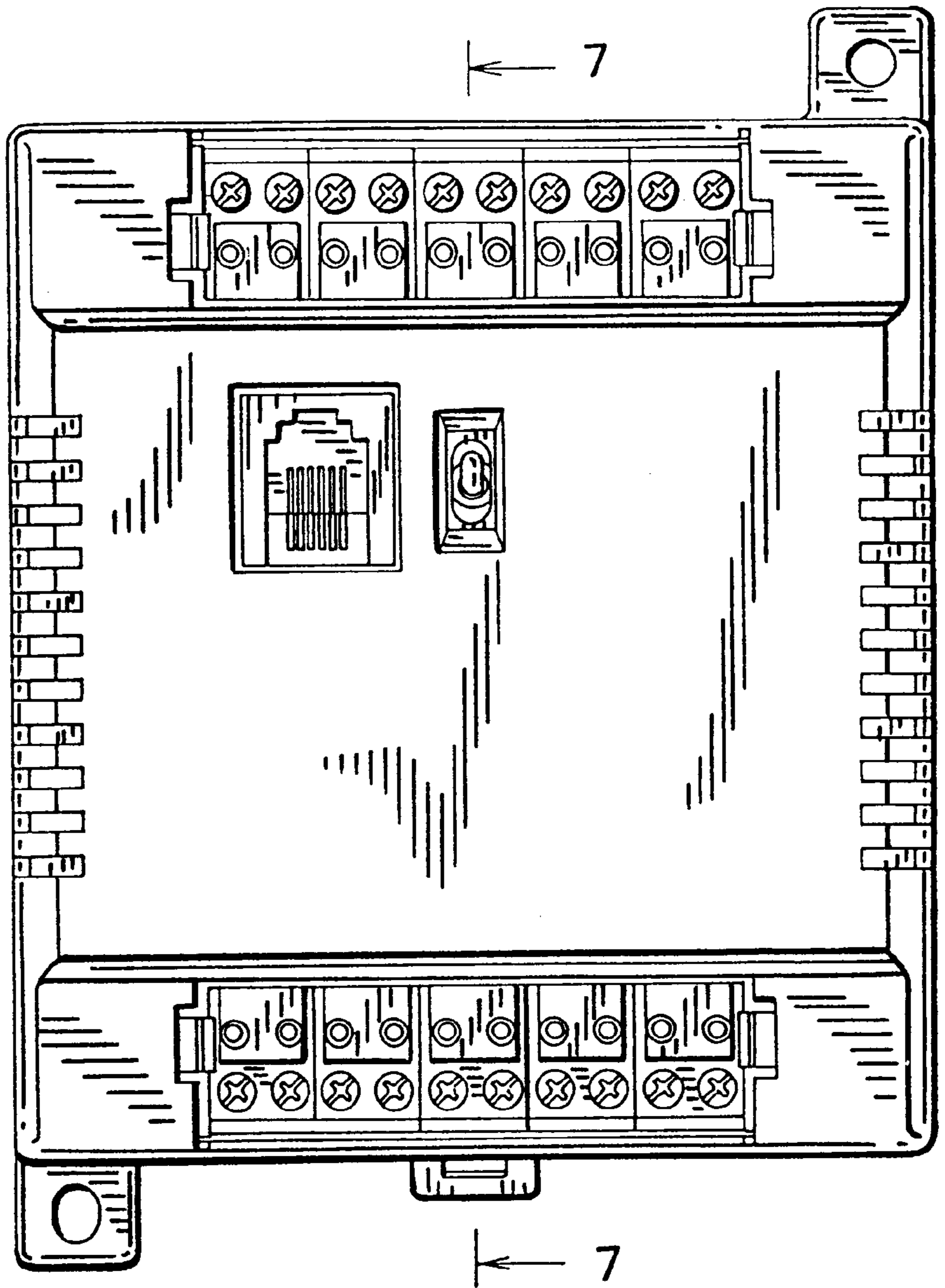


FIG. 2

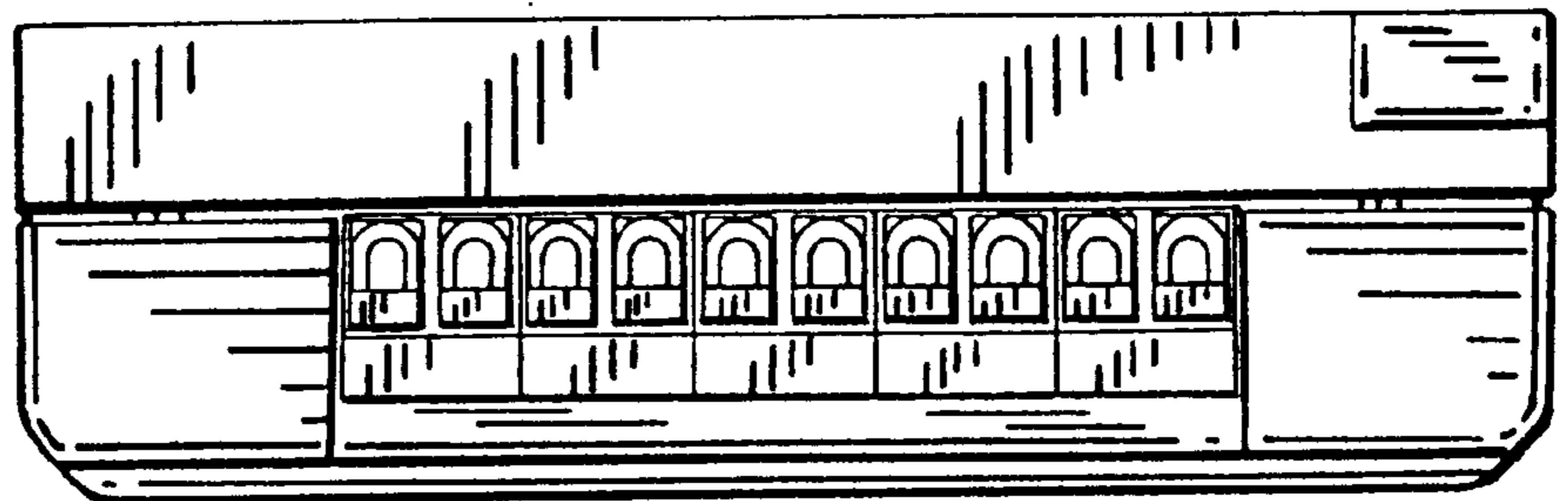


FIG. 3

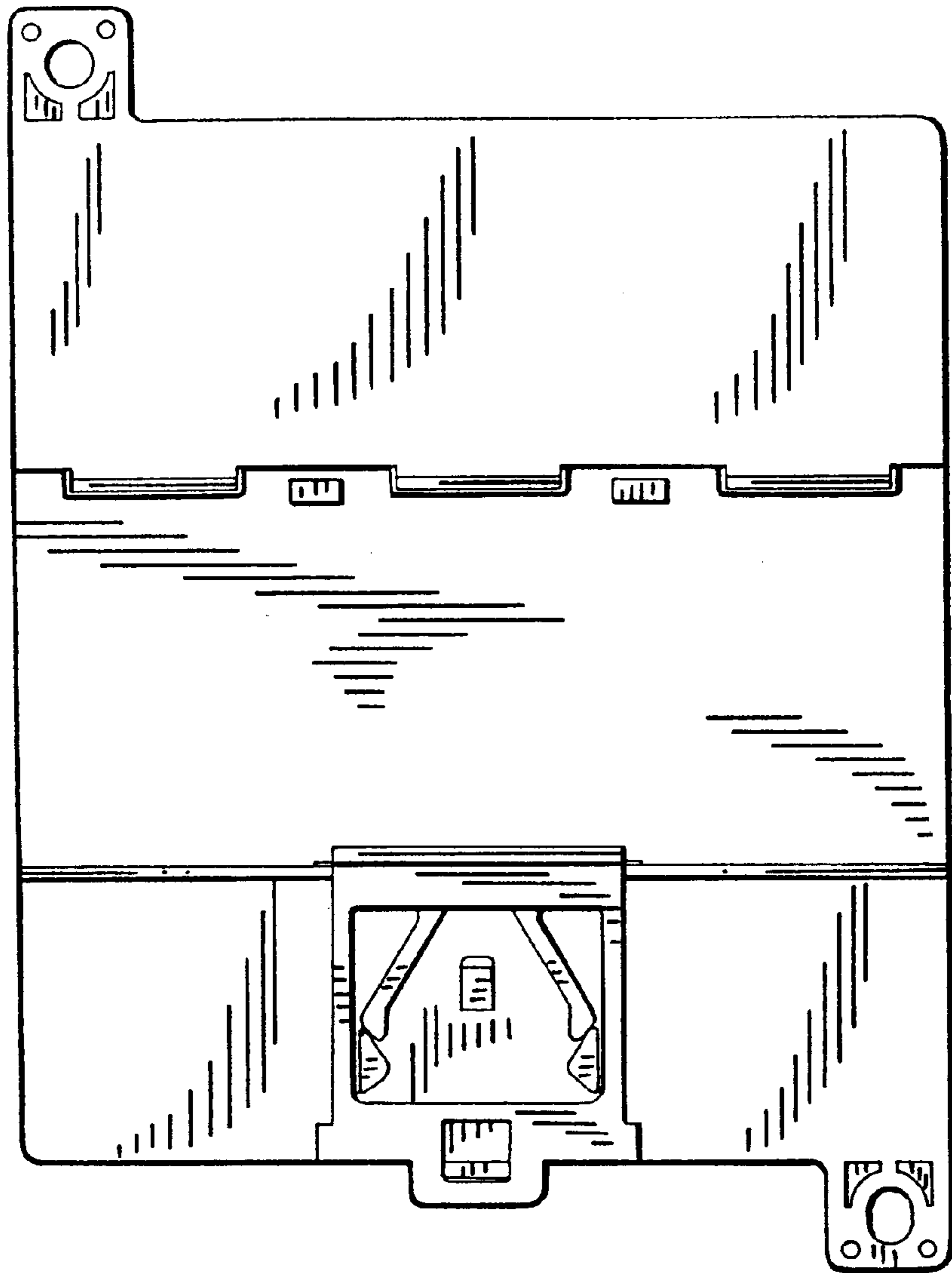
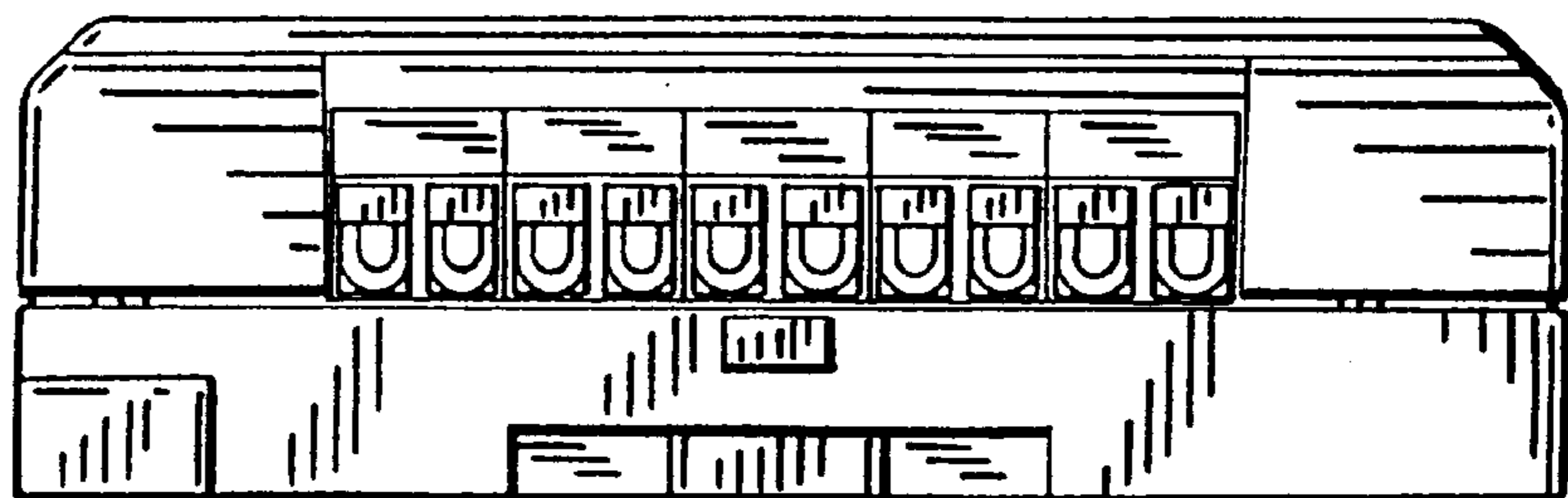


FIG. 4



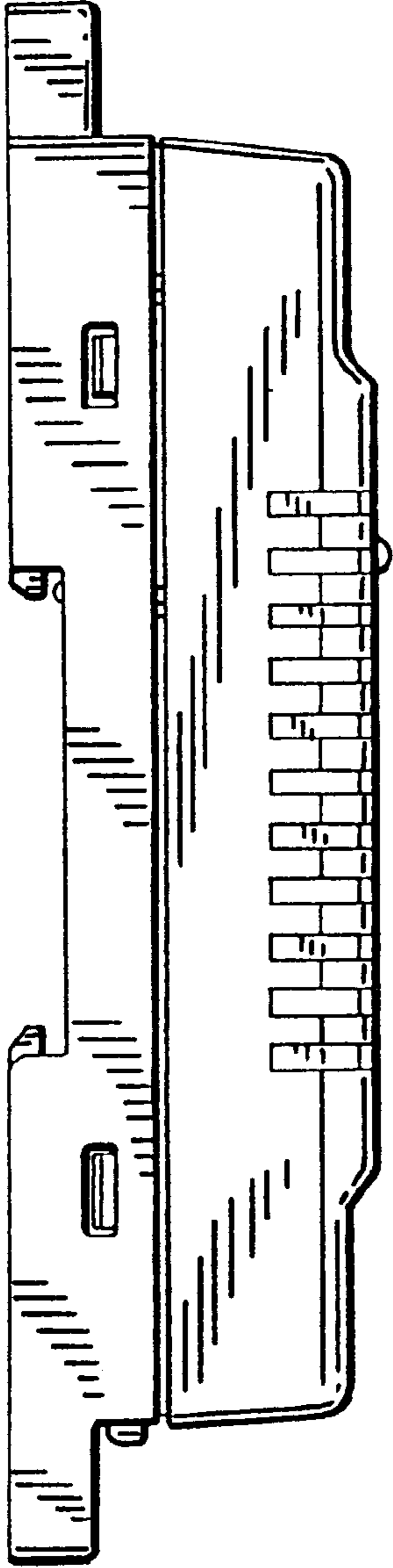


FIG. 5

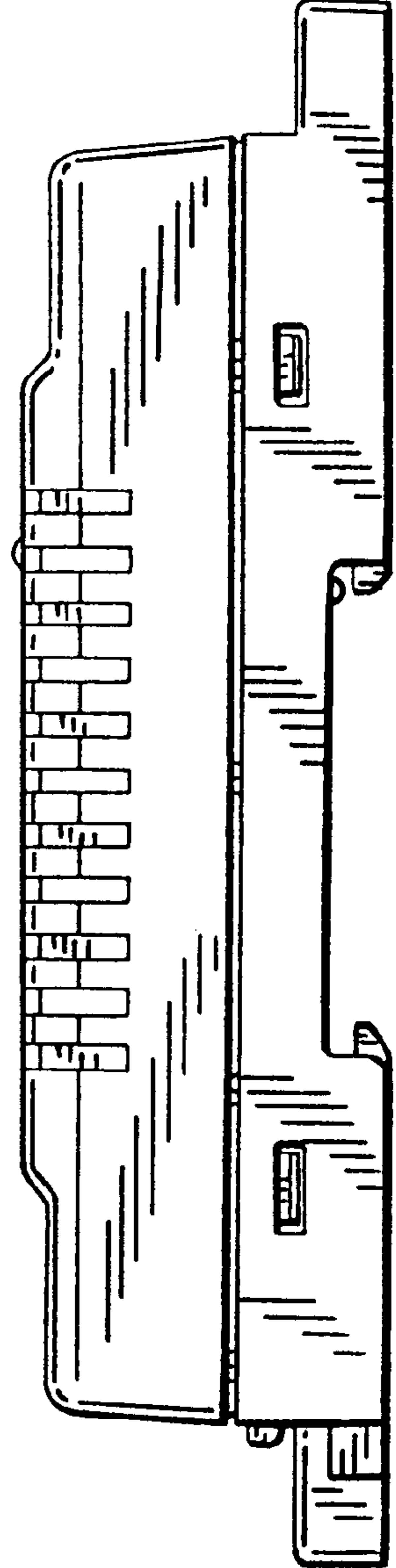


FIG. 6

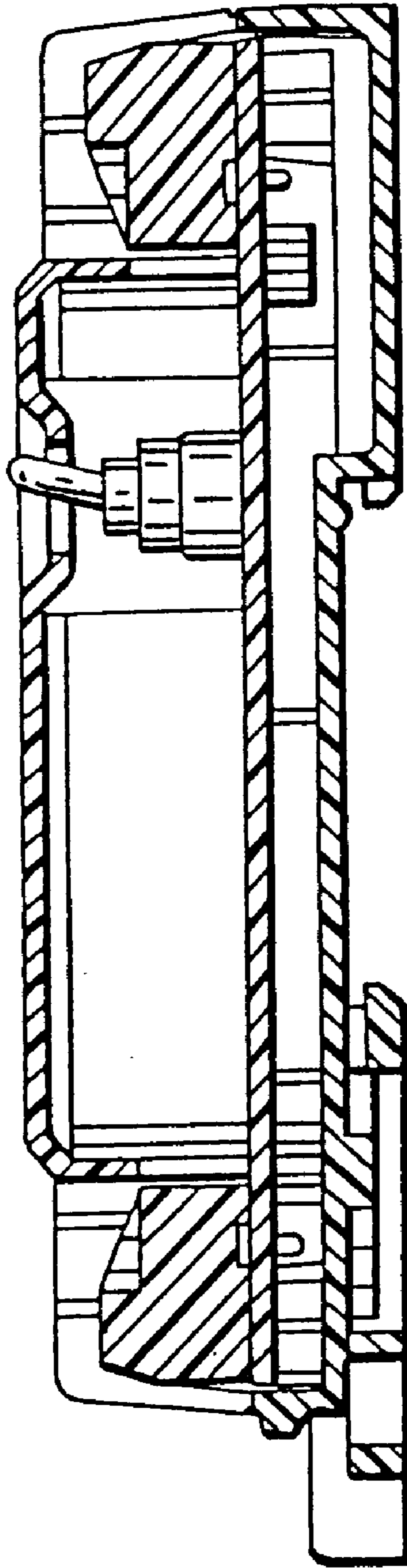


FIG. 7

FIG. 8

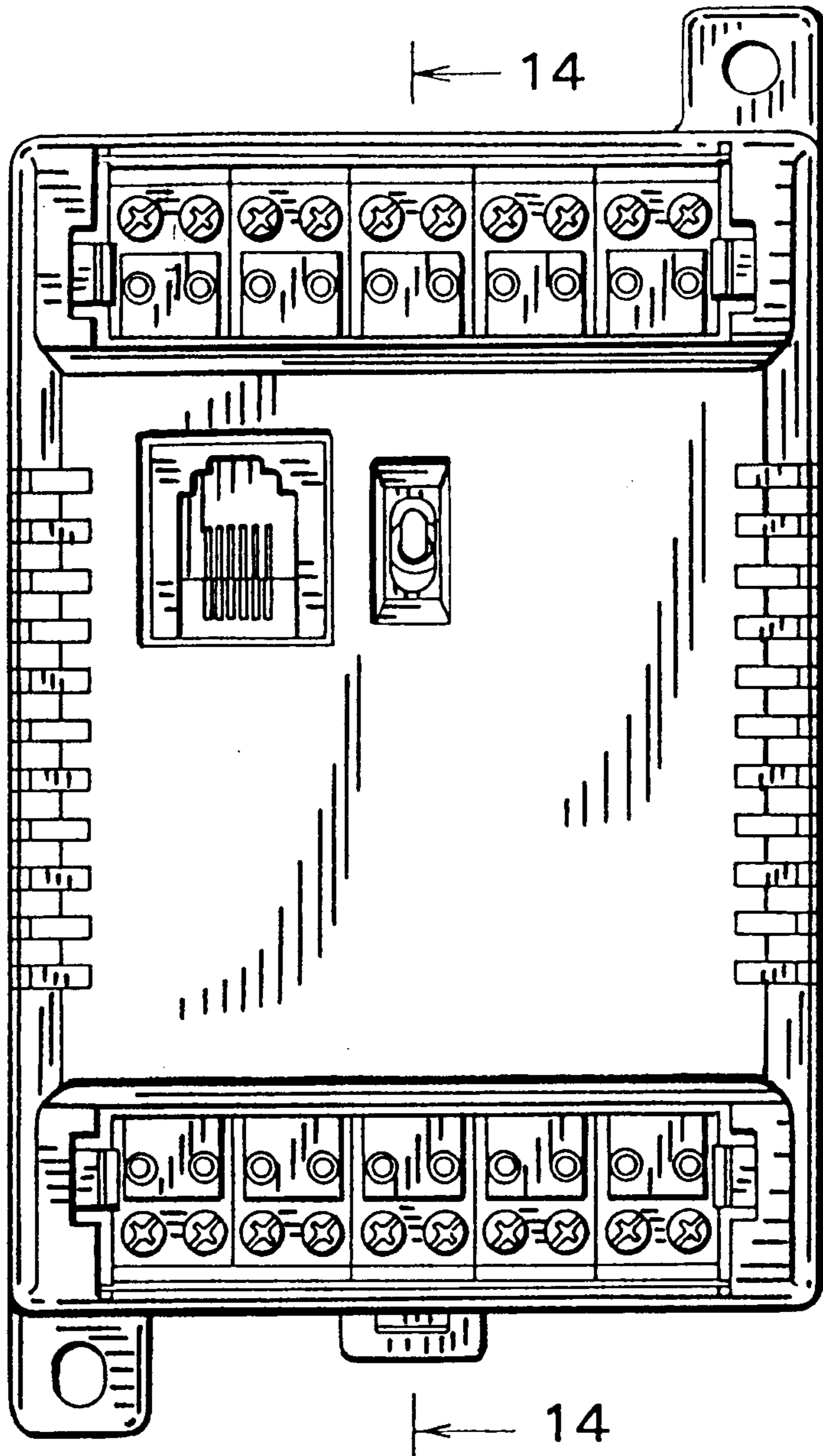


FIG. 9

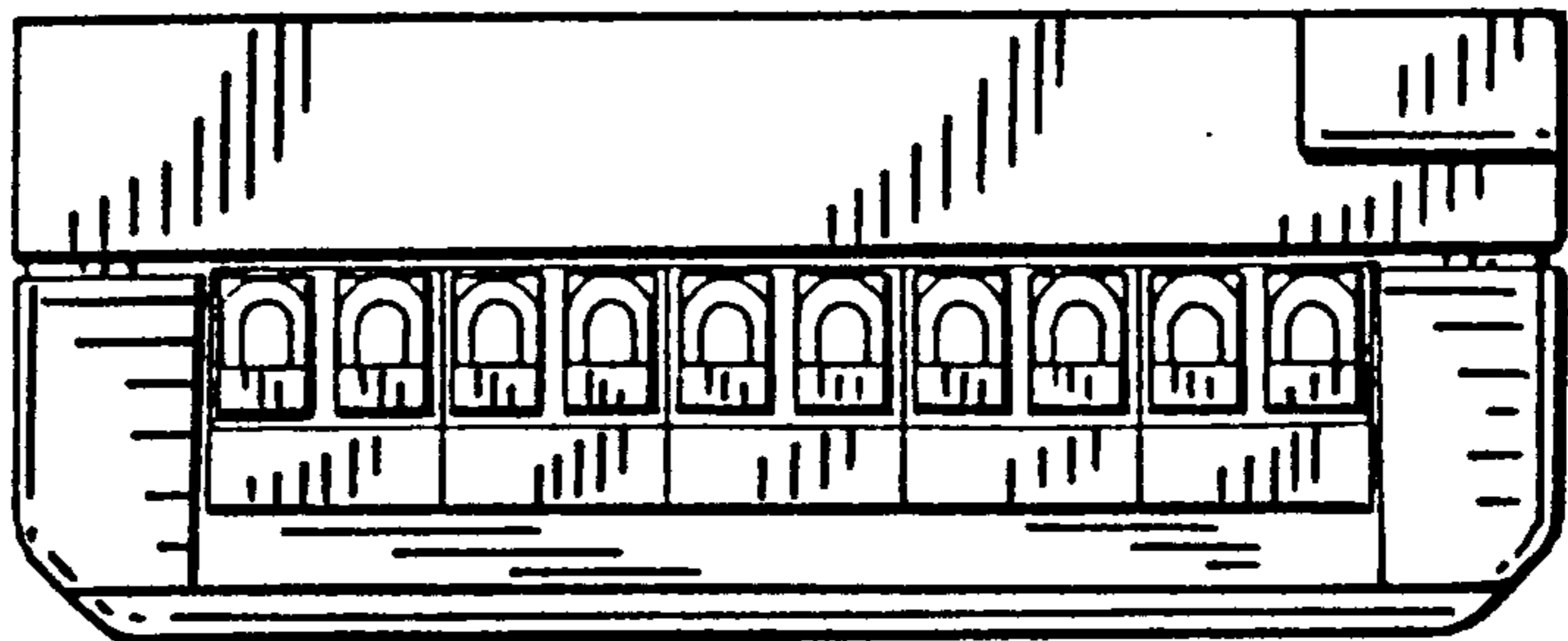


FIG. 10

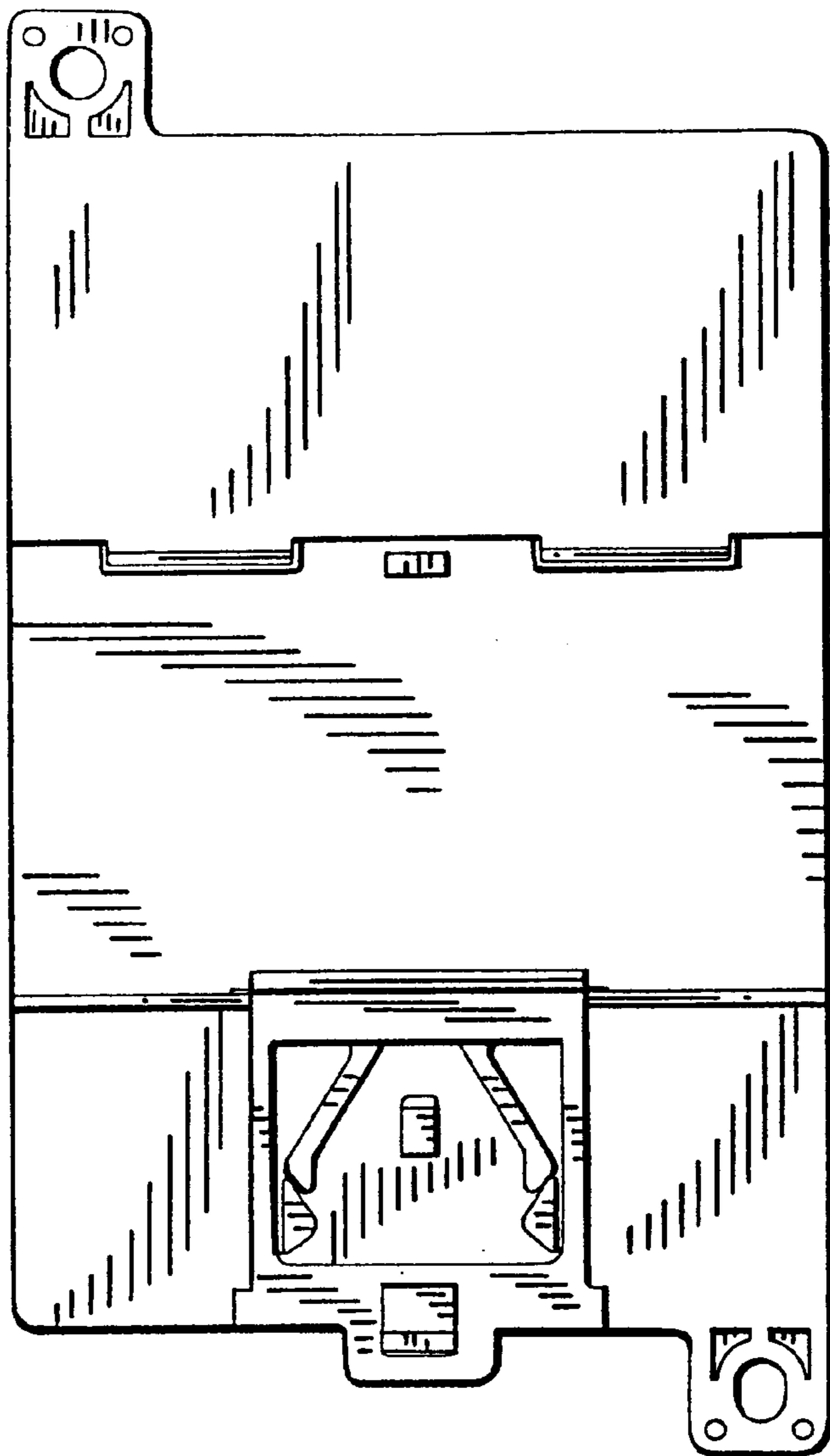
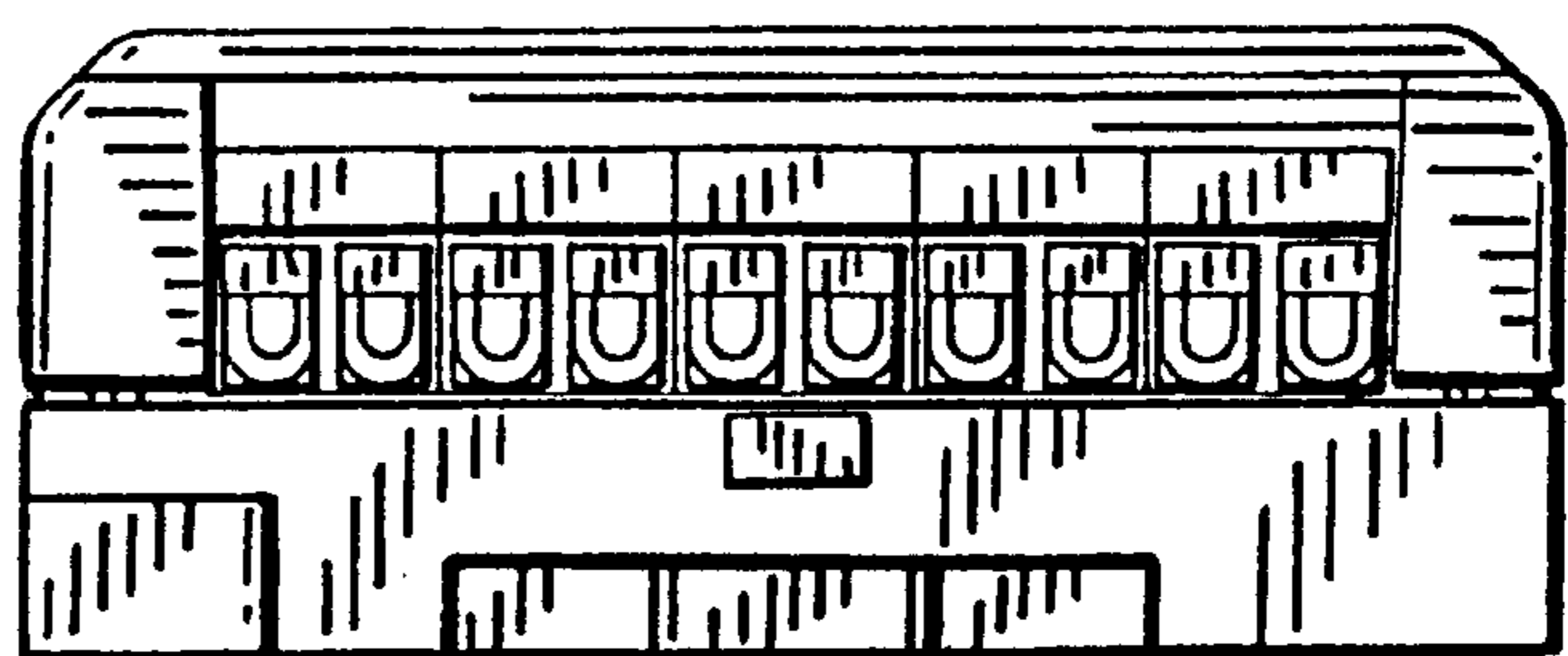


FIG. 11



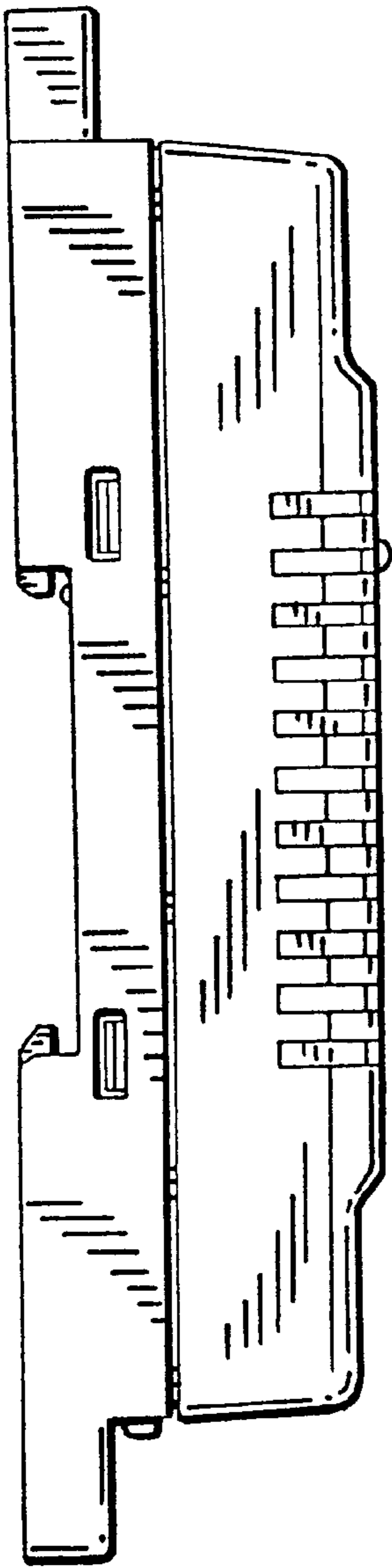


FIG. 12

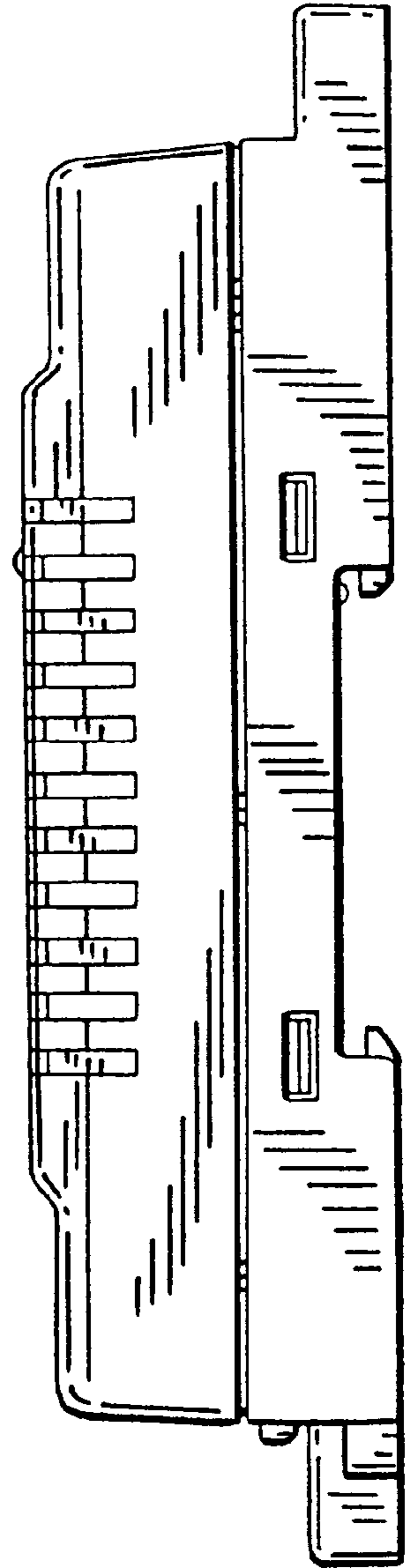


FIG. 13

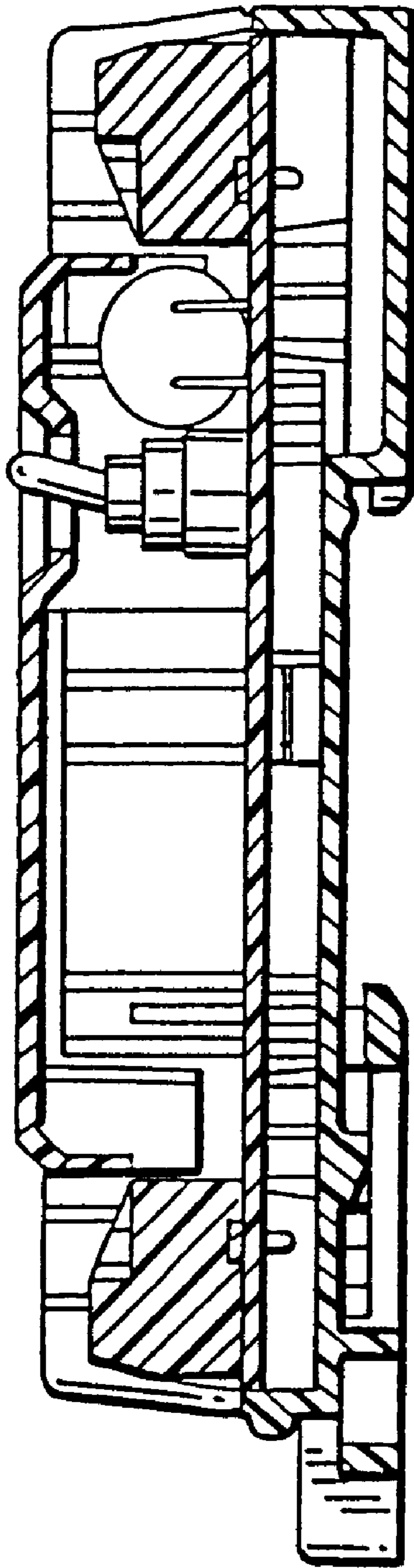


FIG. 14