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United States Patent [19]

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Shiga et al.

[45] Date of Patent: ****Jul. 21, 1998**

[54] **OPTICAL RECEIVER/TRANSMITTER MODULE**

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[73] Assignee: **Sumitomo Electric Industries, Ltd.**, Osaka, Japan

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

[21] Appl. No.: **55,822**

[22] Filed: **May 3, 1996**

[30] **Foreign Application Priority Data**

| | | | | |
|---------------|------|-------|-------|---------|
| Nov. 10, 1995 | [JP] | Japan | | 7-33989 |
| Nov. 10, 1995 | [JP] | Japan | | 7-33990 |
| Nov. 10, 1995 | [JP] | Japan | | 7-33991 |

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

[52] **U.S. Cl.**..... **D13/123; D13/110**

[58] **Field of Search** **D13/123, 146, D13/147; 359/113, 115, 117, 118, 124, 127, 152, 154, 163, 173; 385/14, 24, 53, 75, 76, 49, 88, 89, 92, 94, 90, 132**

[56] **References Cited**

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Primary Examiner—James Gandy
Assistant Examiner—Cathron B. Matta
Attorney, Agent, or Firm—Cushman Darby & Cushman IP Group of Pillsbury Madison & Sutro LLP

[57] **CLAIM**

The ornamental deisng for an optical receiver/transmitter module, as shown and described.

DESCRIPTION

FIG. 1 is a perspective view from the front, top and left side of an optical receiver/transmitter module showing our new design;

FIG. 2 is a perspective view from the rear, top and right side thereof;

FIG. 3 is a left side elevational view thereof;

FIG. 4 is a top plan view thereof;

FIG. 5 is a front elevational view thereof;

FIG. 6 is a rear elevational view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a perspective view from the bottom and rear thereof;

FIG. 9 is a perspective view from the front, top and left side of an optical receiver/transmitter module showing a second embodiment of our new design;

FIG. 10 is a perspective view from the rear, top and right side thereof;

FIG. 11 is a left side elevational view thereof;

FIG. 12 is a top plan view thereof;

FIG. 13 is a front elevational view thereof;

FIG. 14 is a rear elevational view thereof;

FIG. 15 is a bottom plan view thereof; and,

FIG. 16 is a perspective view from the bottom and rear thereof.

1 Claim, 10 Drawing Sheets

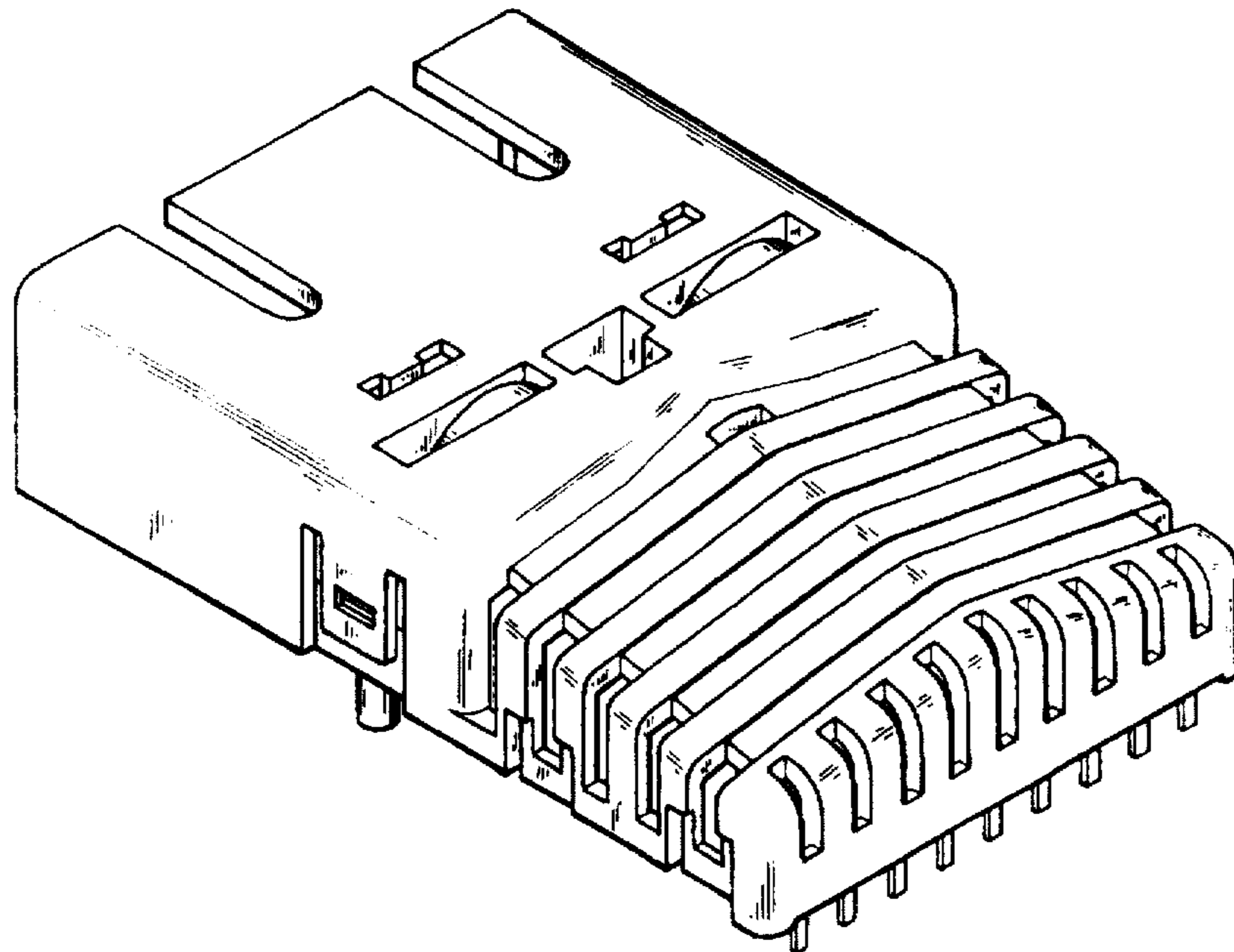


Fig. 1

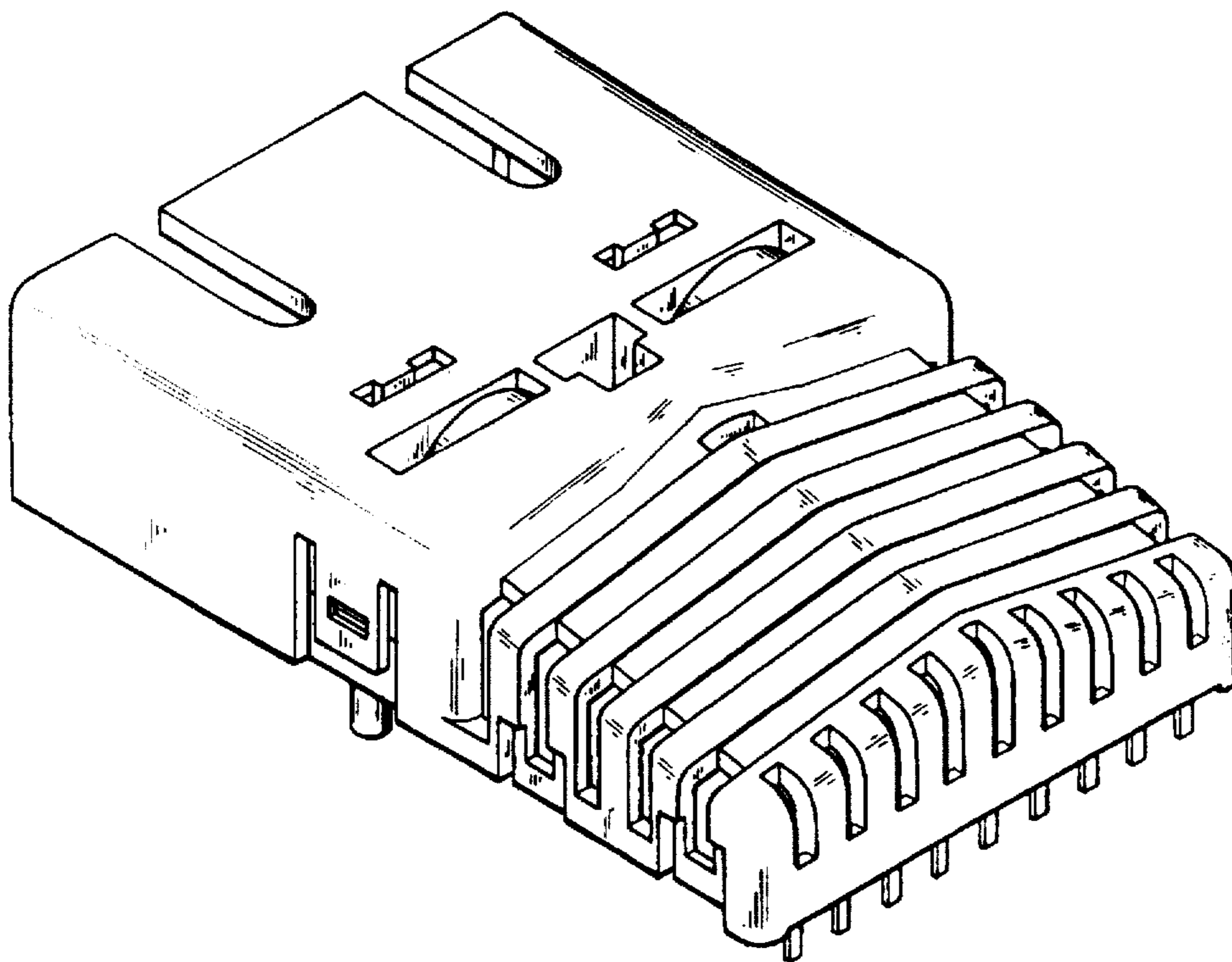


Fig. 2

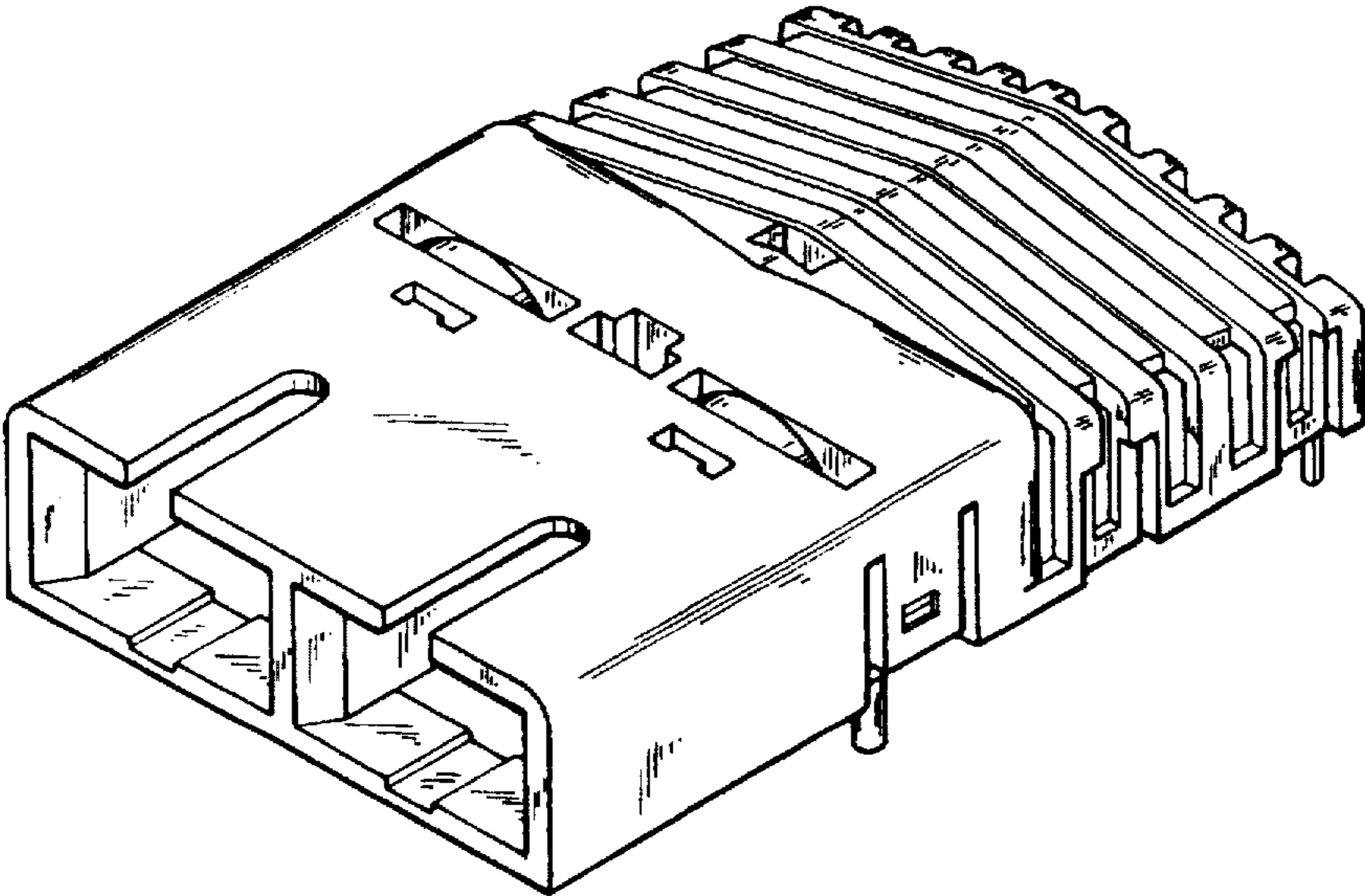


Fig. 3

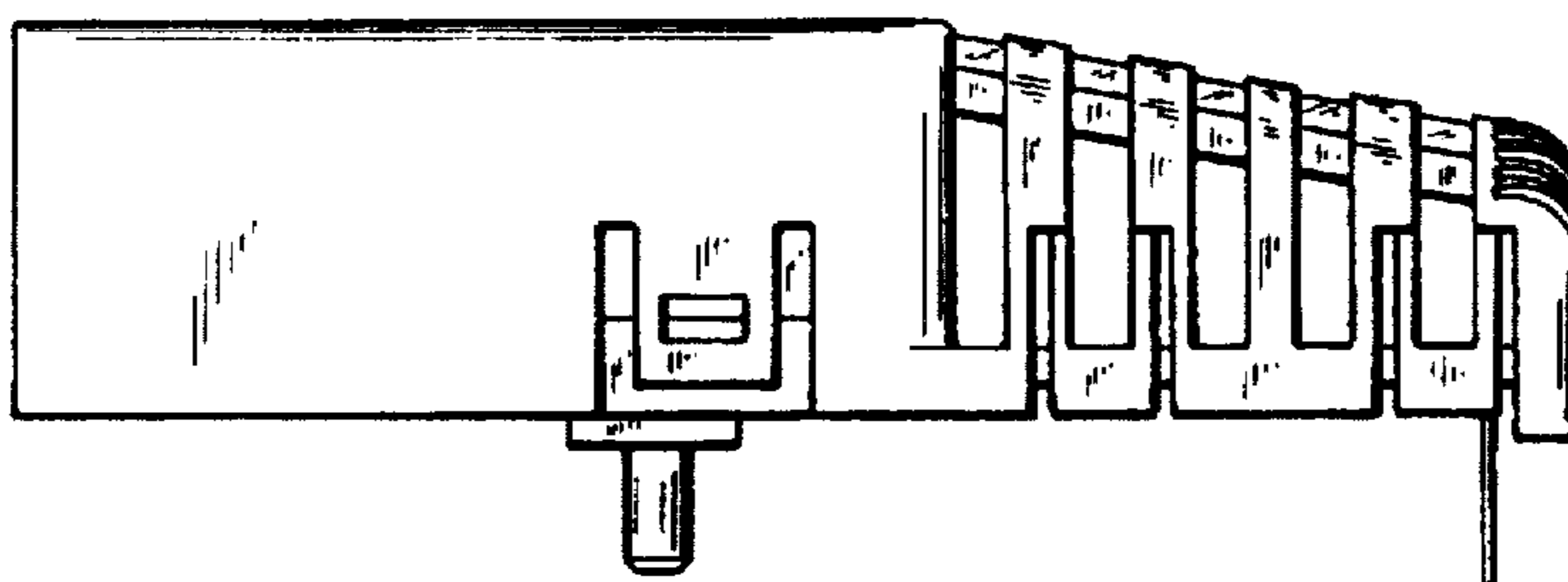


Fig. 4

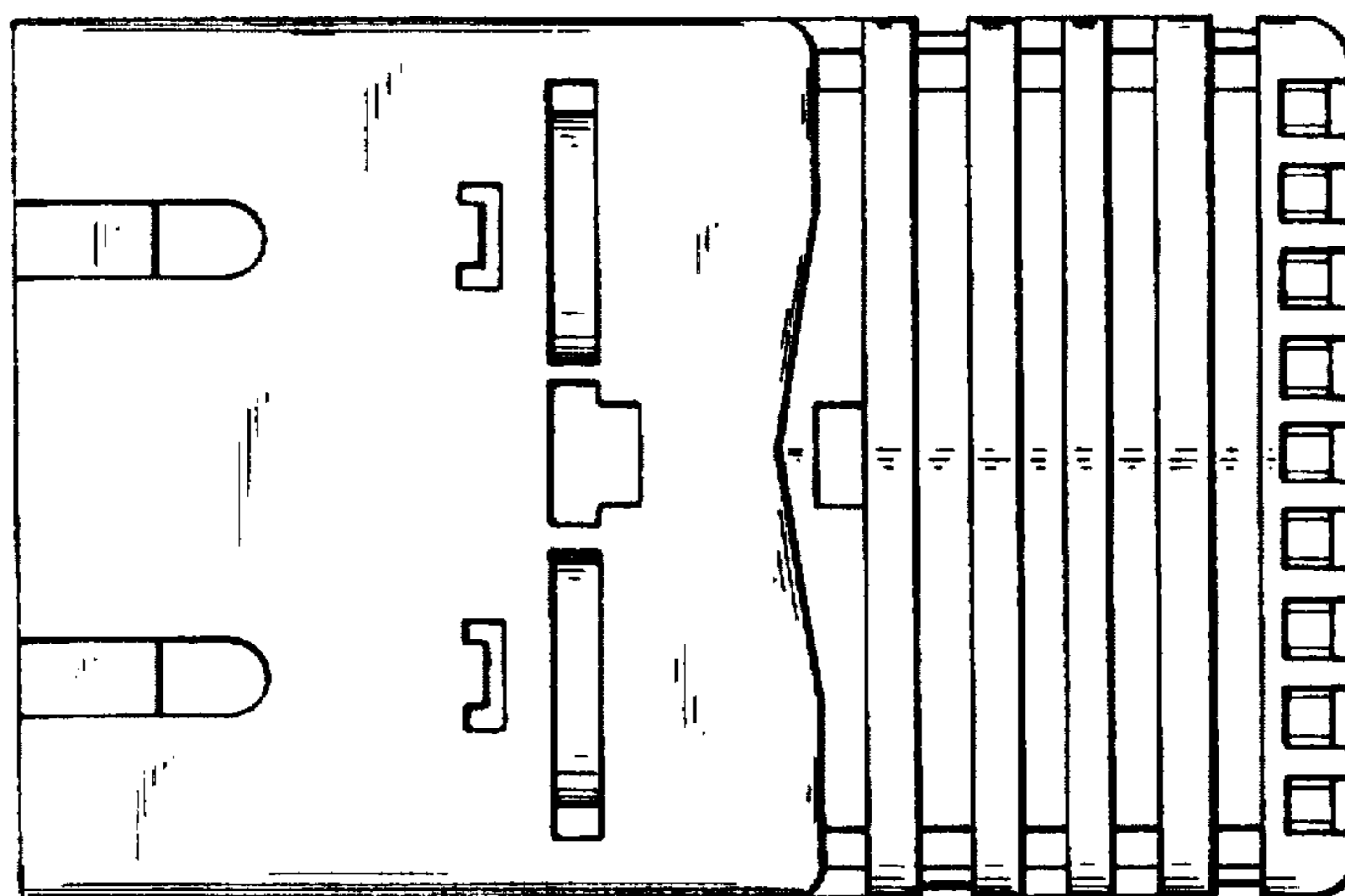


Fig. 5

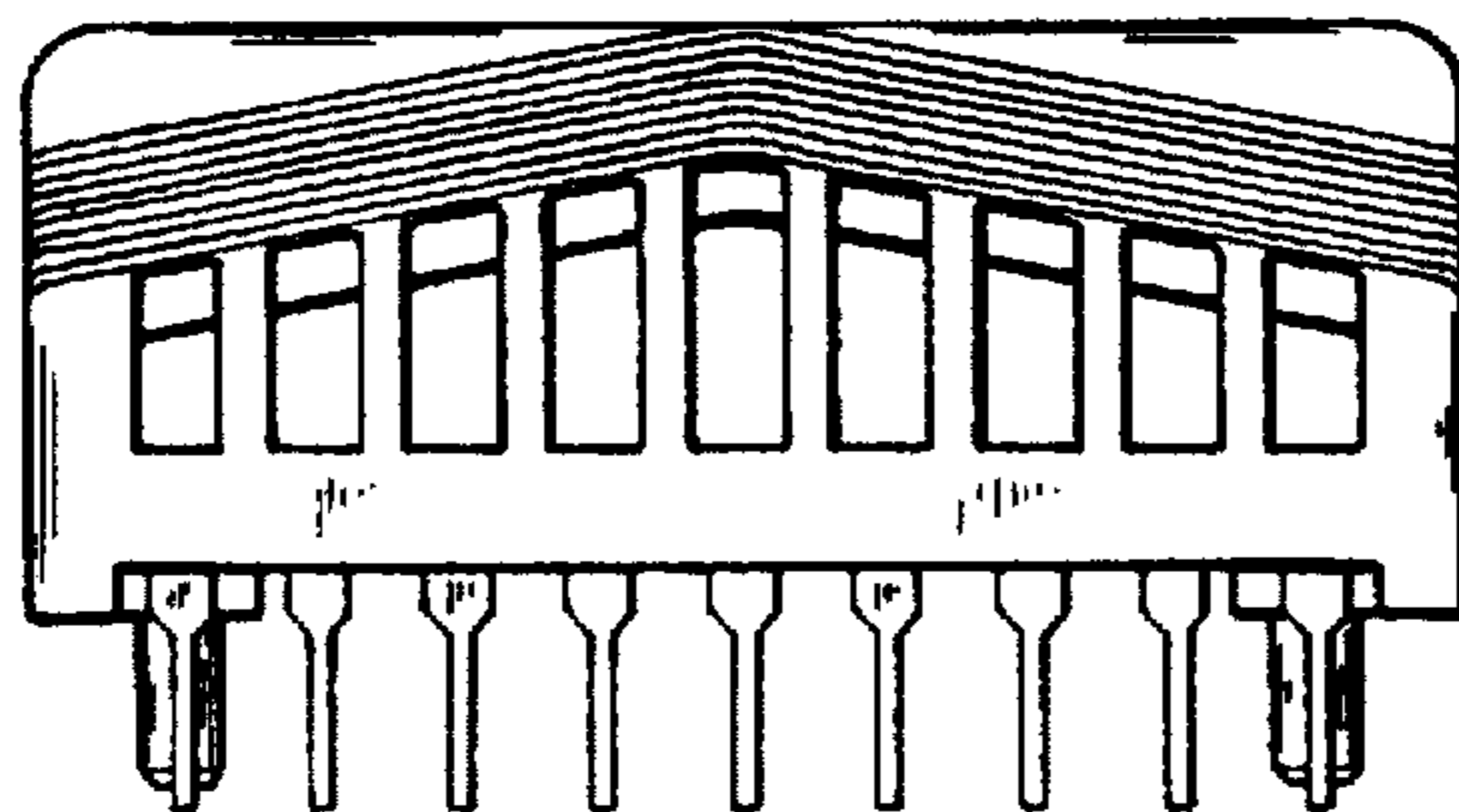


Fig. 6

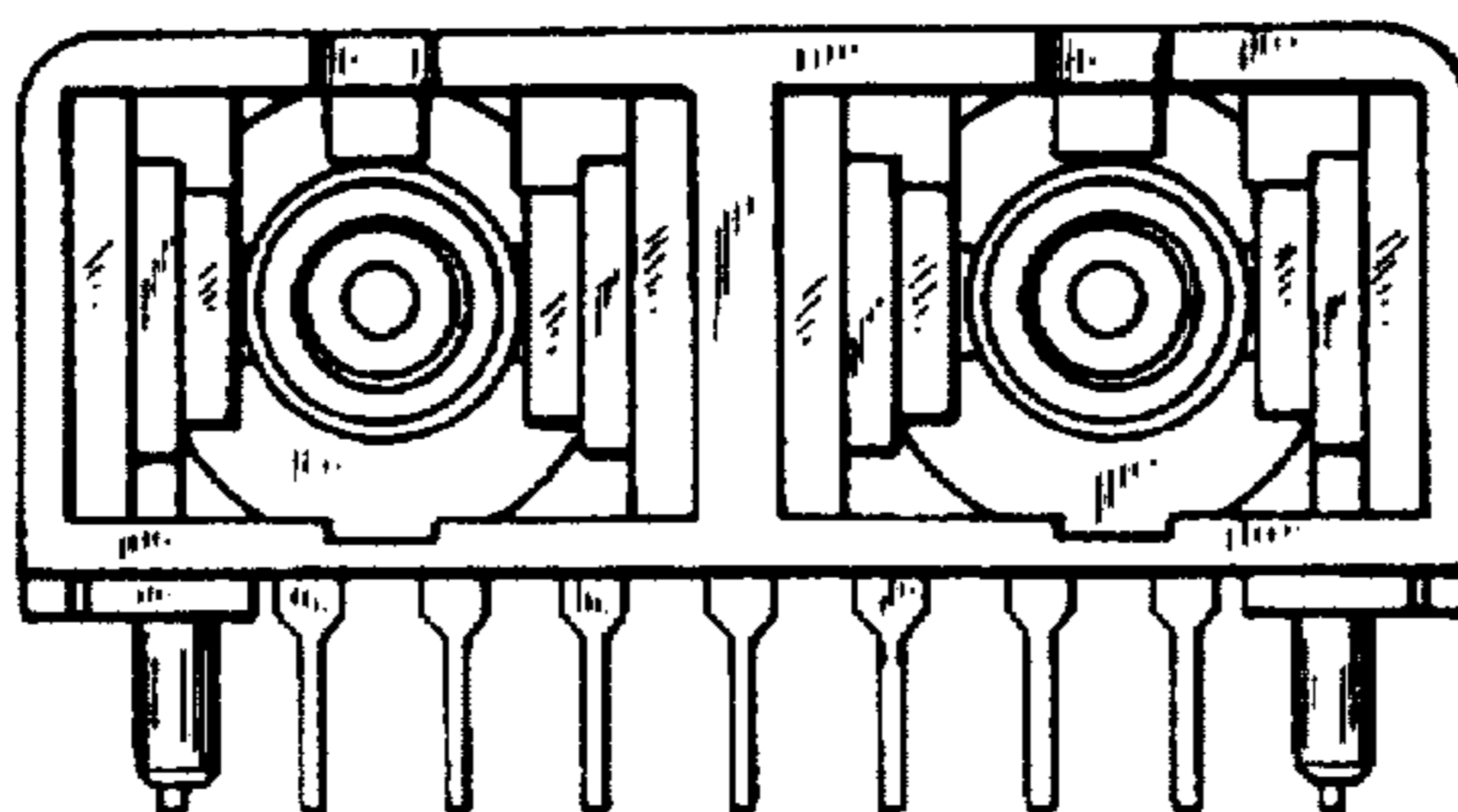
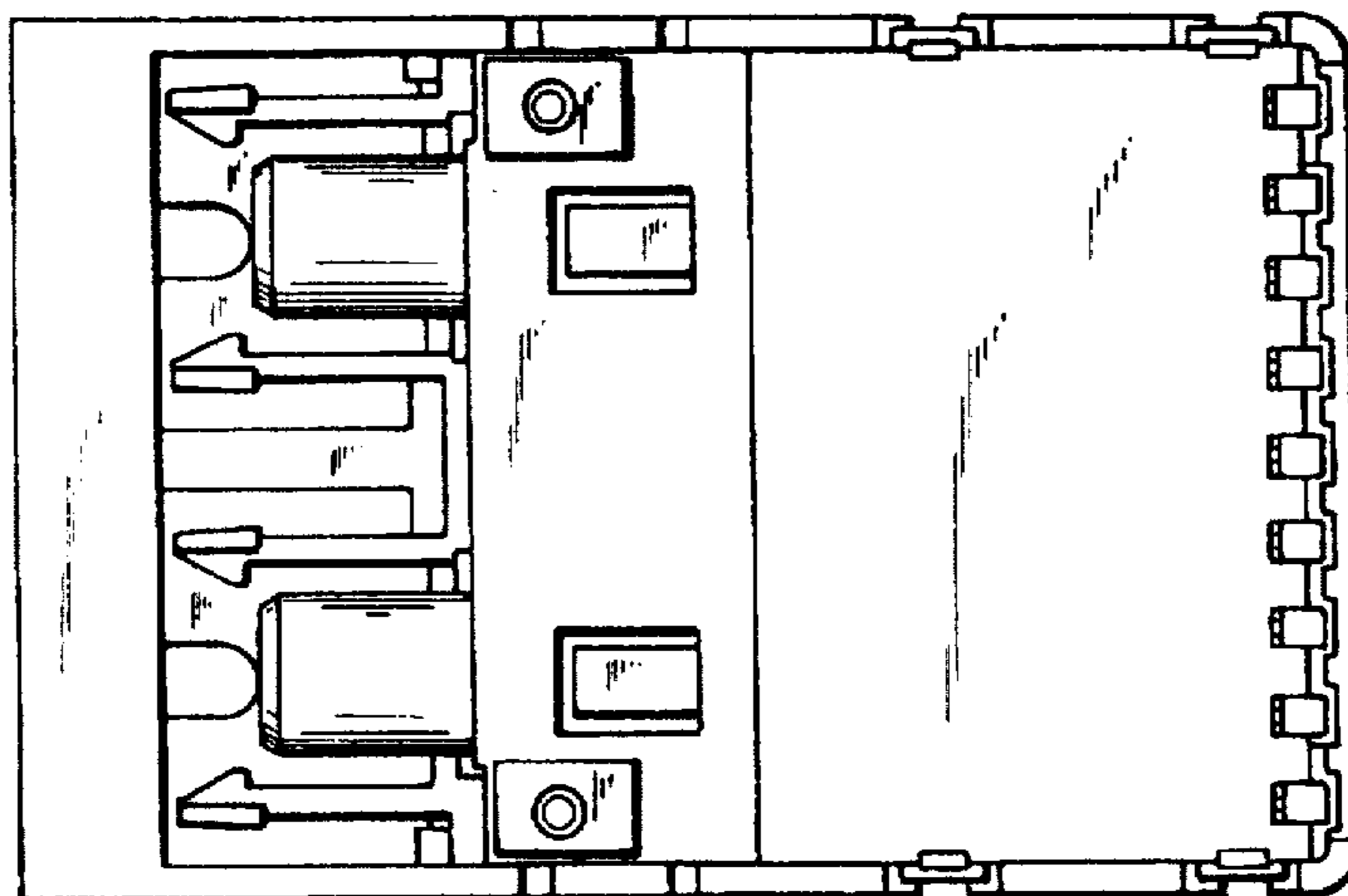


Fig. 7



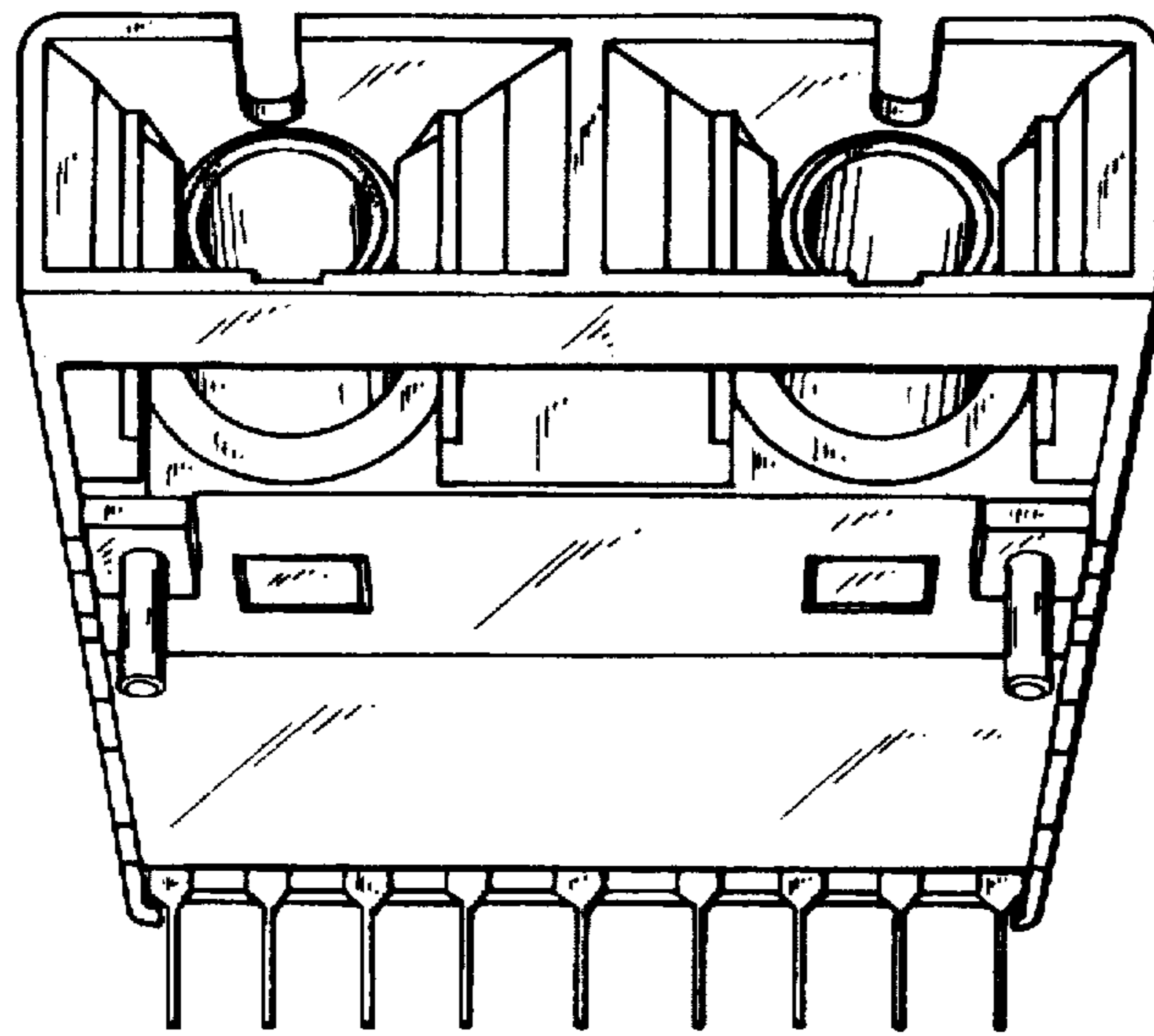


FIG. 8

Fig. 9

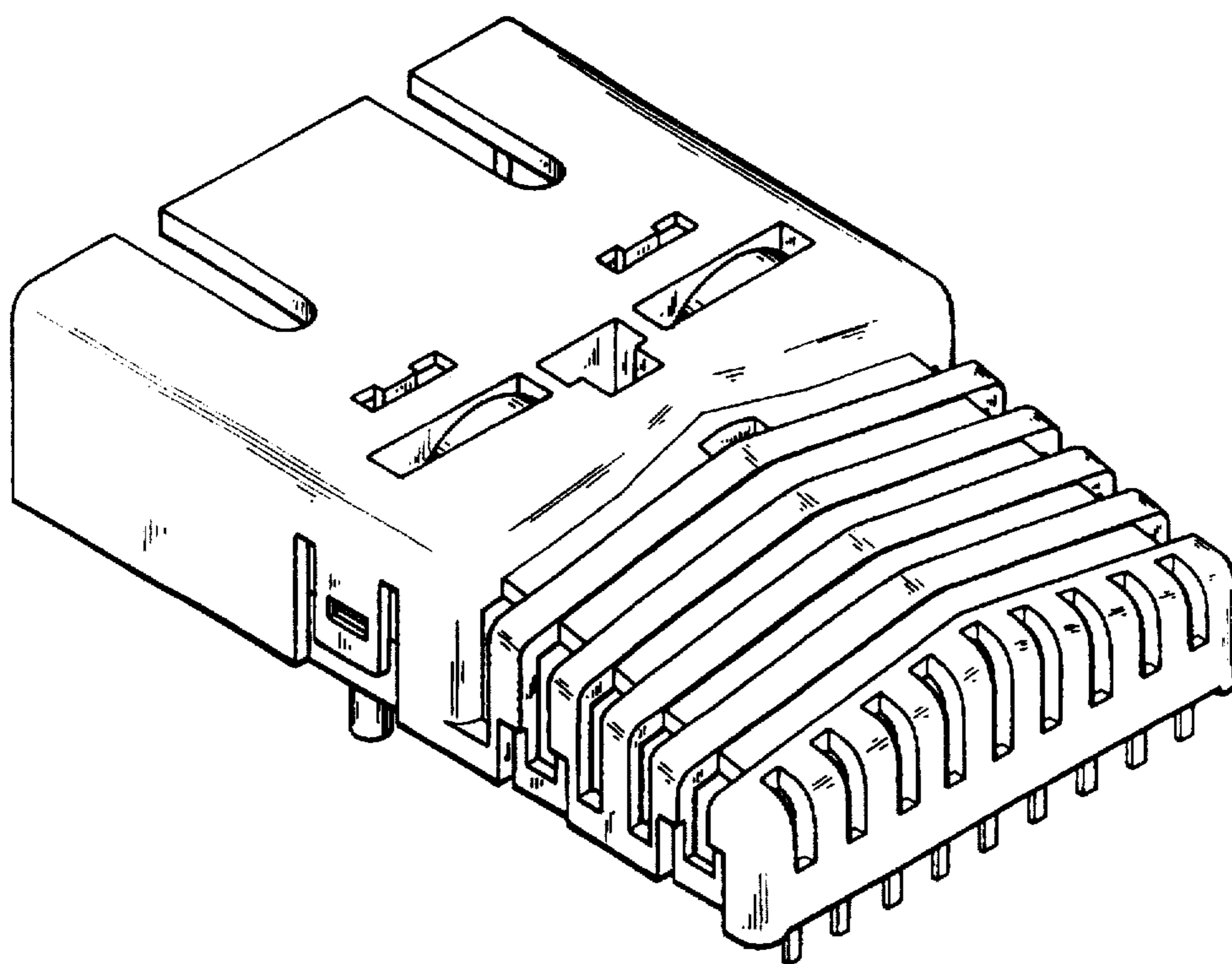


Fig. 10

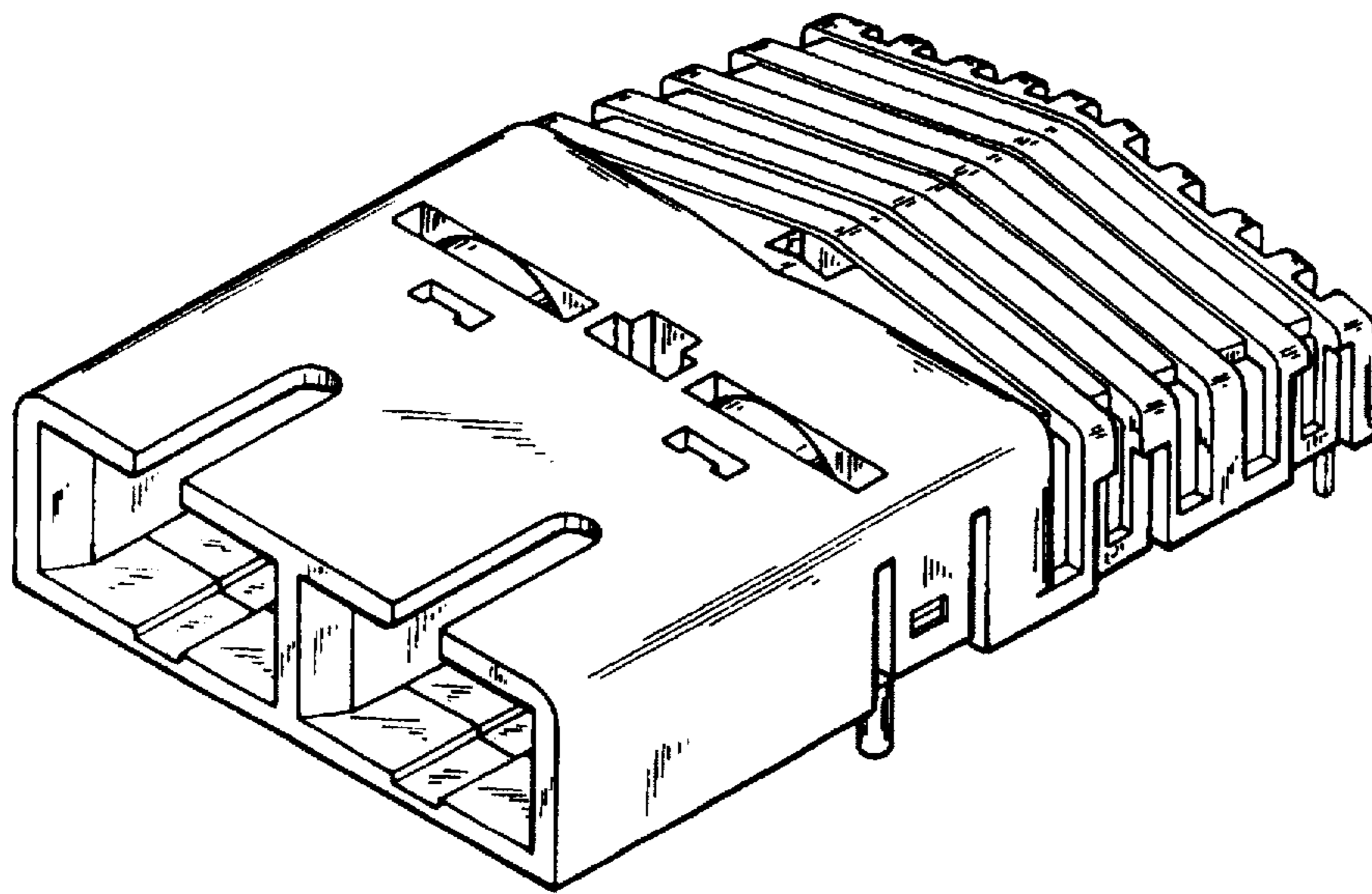


Fig. 11

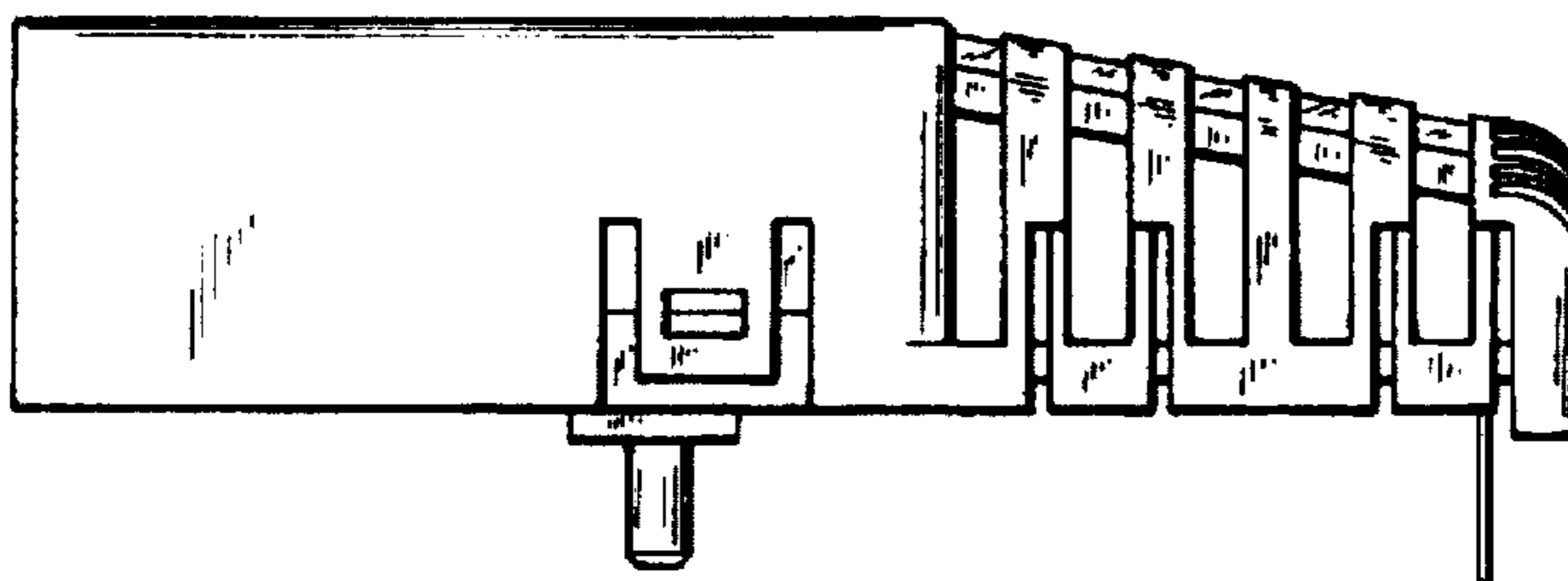


Fig. 12

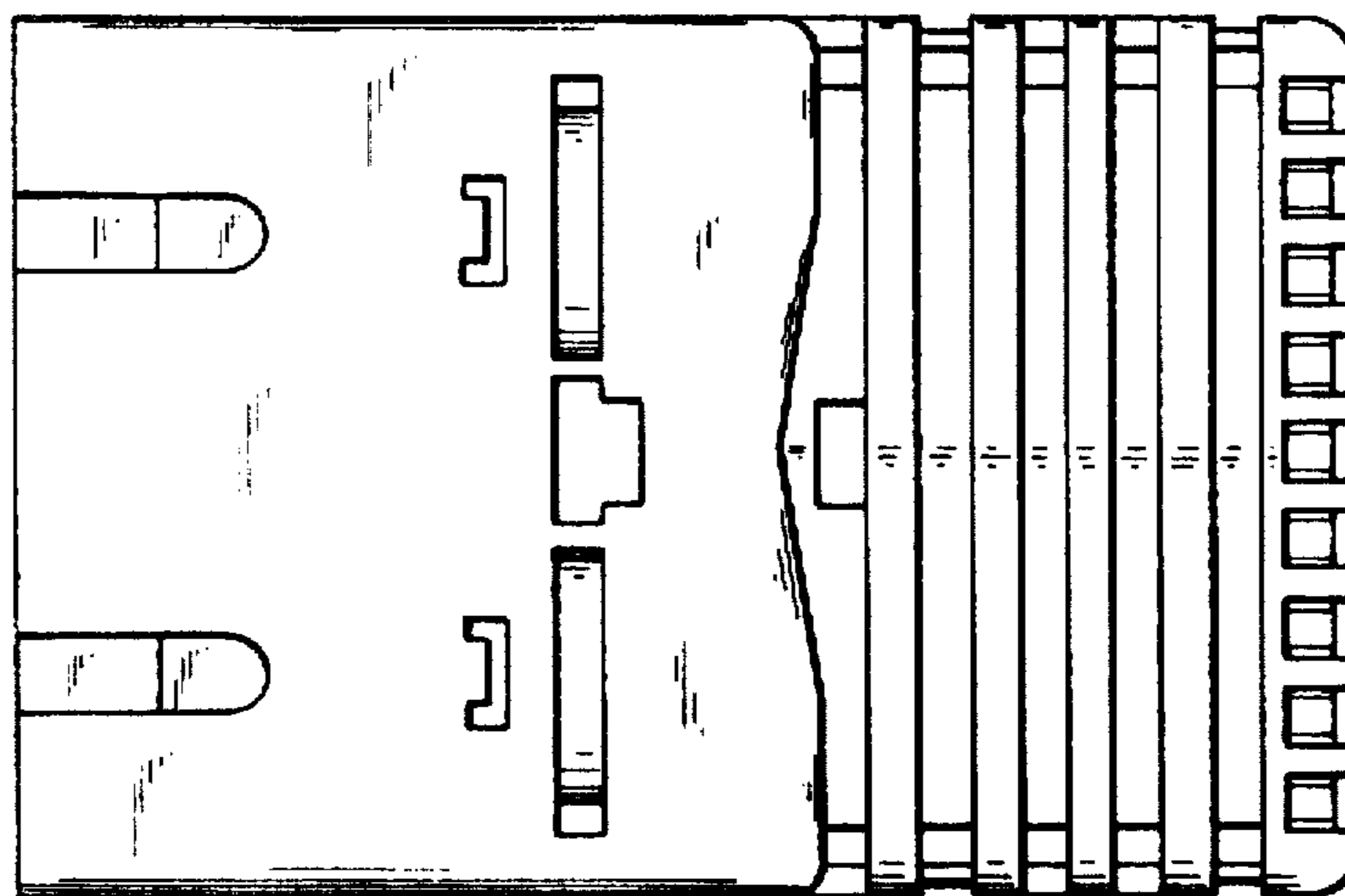


Fig. 13

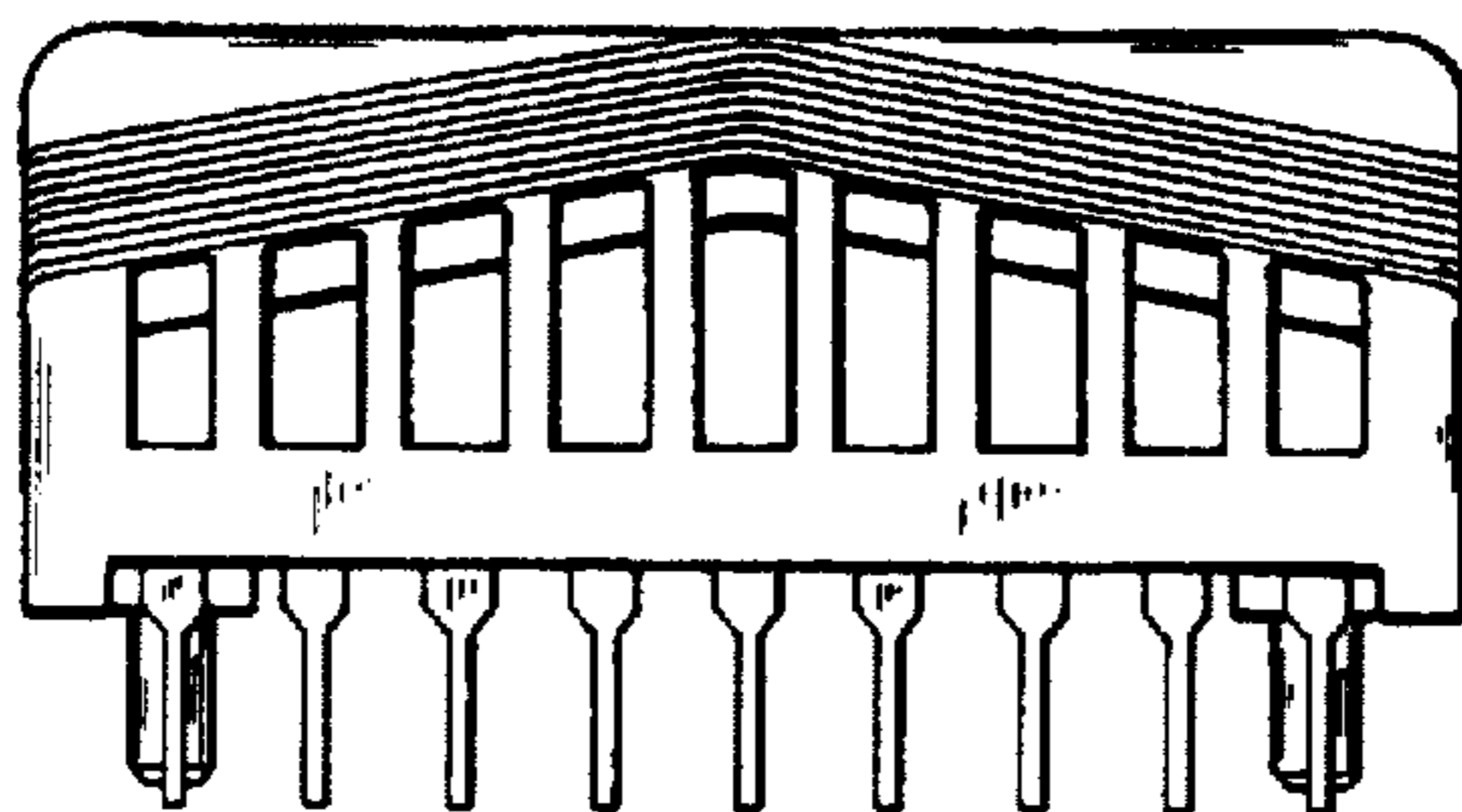


Fig. 14

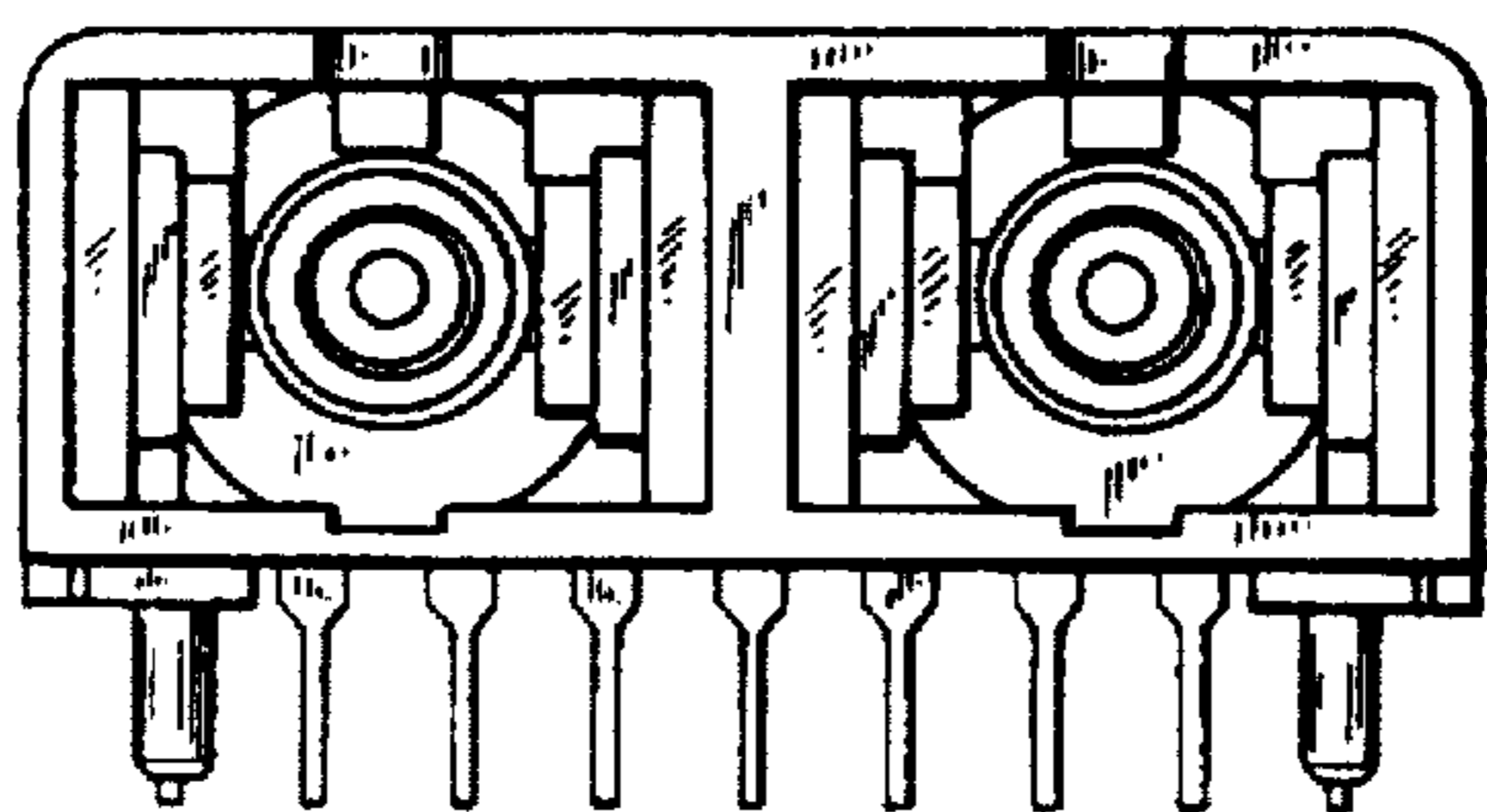
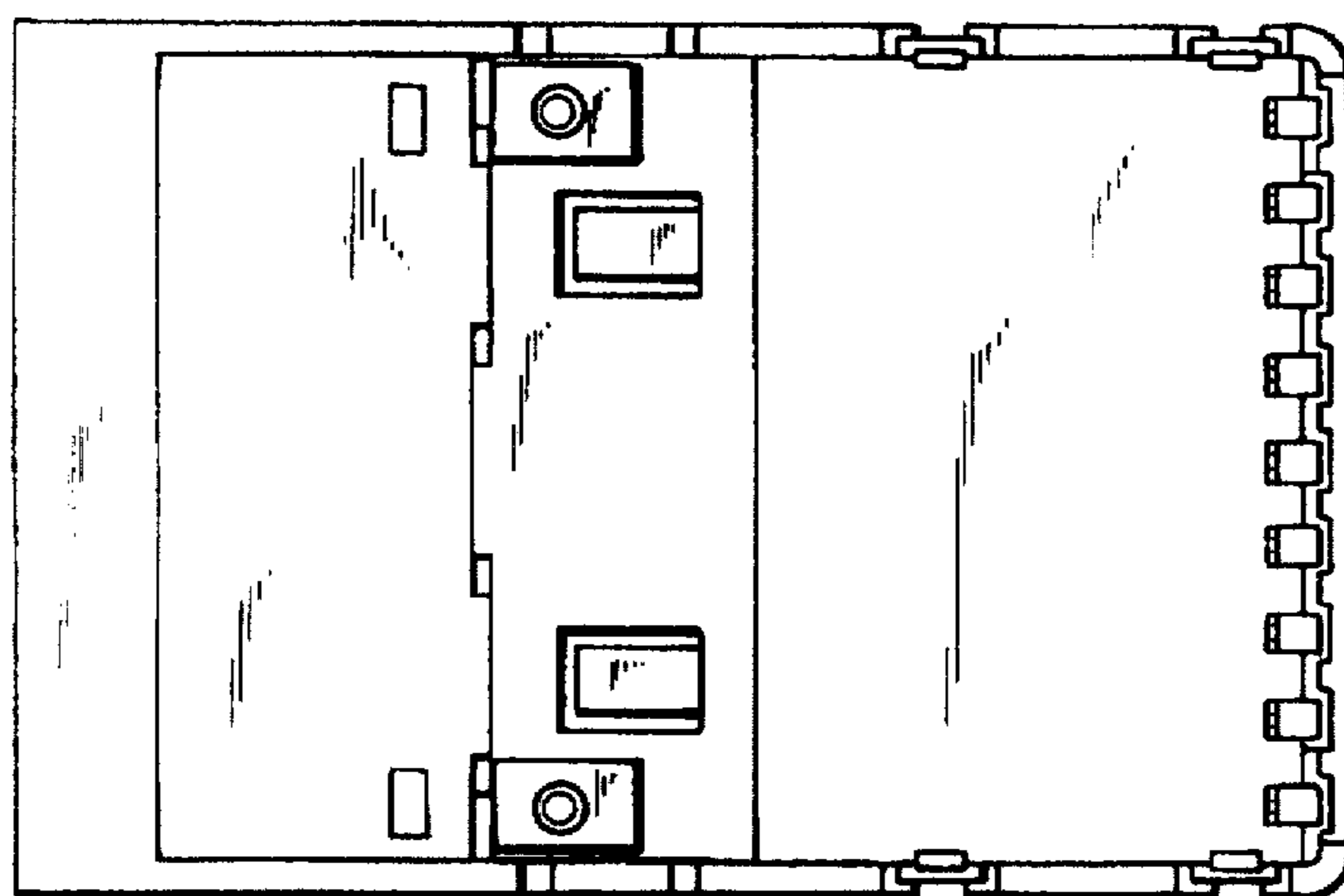


Fig. 15



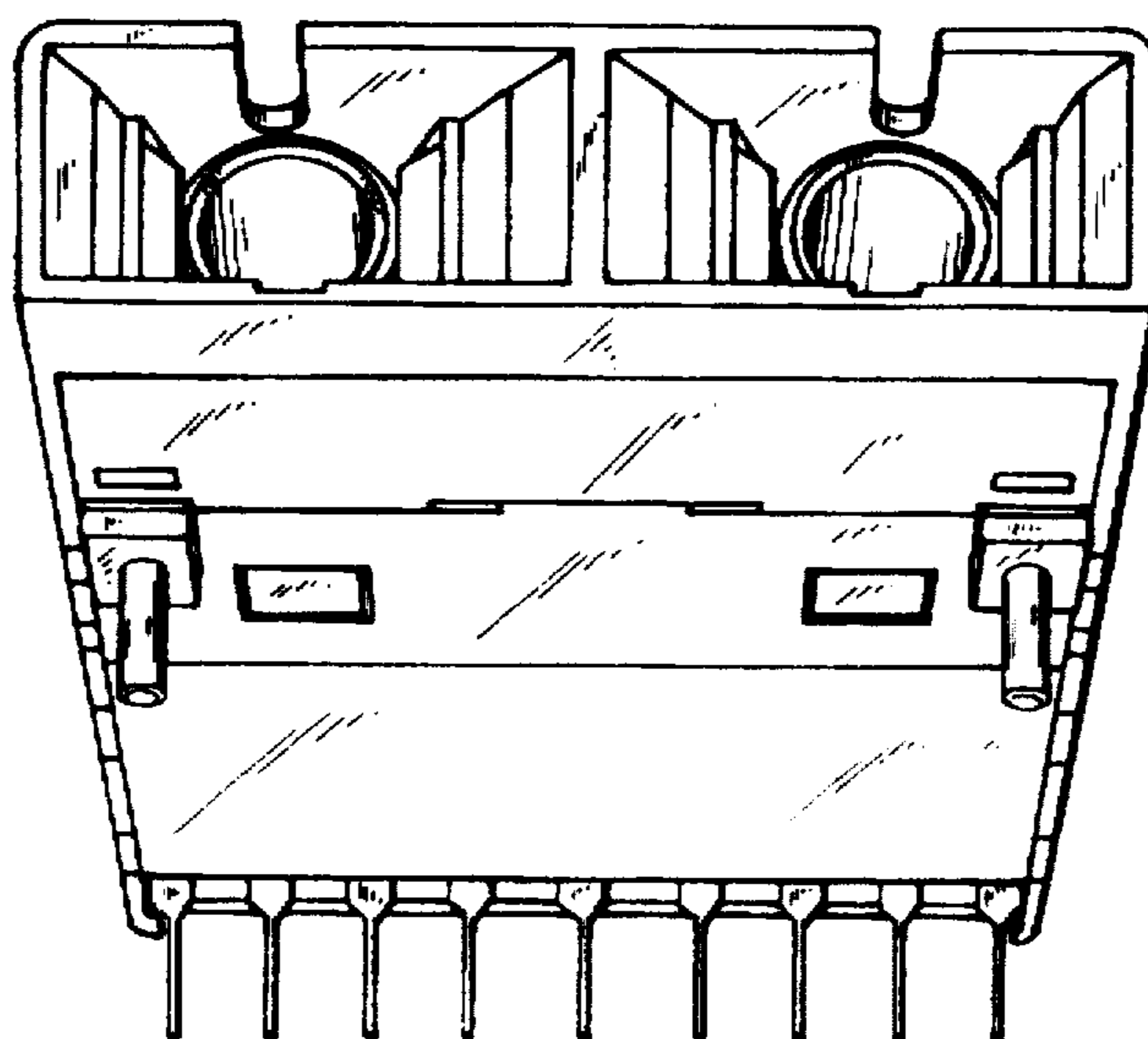


FIG. 16