

US00D537037S

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

(10) **Patent No.:** **US D537,037 S**

(45) **Date of Patent:** **** Feb. 20, 2007**

(54) **OPTICAL CONNECTOR WITH SHUTTER**

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(73) Assignee: **Hosiden Corporation**, Yao (JP)

(**) Term: **14 Years**

(21) Appl. No.: **29/241,989**

(22) Filed: **Nov. 4, 2005**

(30) **Foreign Application Priority Data**

May 10, 2005 (JP) 2005-013269

(51) **LOC (8) Cl.** **13-03**

(52) **U.S. Cl.** **D13/133; D13/146; D13/147**

(58) **Field of Classification Search** D13/133,
D13/146-147, 154, 199; 439/79, 83, 108,
439/181, 607-610, 639

See application file for complete search history.

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(57) **CLAIM**

The ornamental design for an optical connector with shutter,
as shown and described.

DESCRIPTION

FIG. 1 is a front view of an optical connector with shutter
showing our new invention;

FIG. 2 is a rear view thereof;

FIG. 3 is a right side view thereof;

FIG. 4 is a left side view thereof;

FIG. 5 is a plan view thereof;

FIG. 6 is a bottom view thereof;

FIG. 7 is a front perspective view thereof;

FIG. 8 is a rear perspective view thereof;

FIG. 9 is a cross-sectional view thereof, taken along line
9—9 in FIG. 1;

FIG. 10 is a cross-sectional view thereof, taken along line
10—10 in FIG. 1;

FIG. 11 is a cross-sectional view thereof, taken along line
11—11 in FIG. 1, in use condition; and,

FIG. 12 is a cross-sectional view thereof, taken along line
12—12 in FIG. 1, with the lower-side shutter being inclined.

The broken line showing of the environment is for illustrative
proposes only and forms no part of the claimed design.

1 Claim, 5 Drawing Sheets

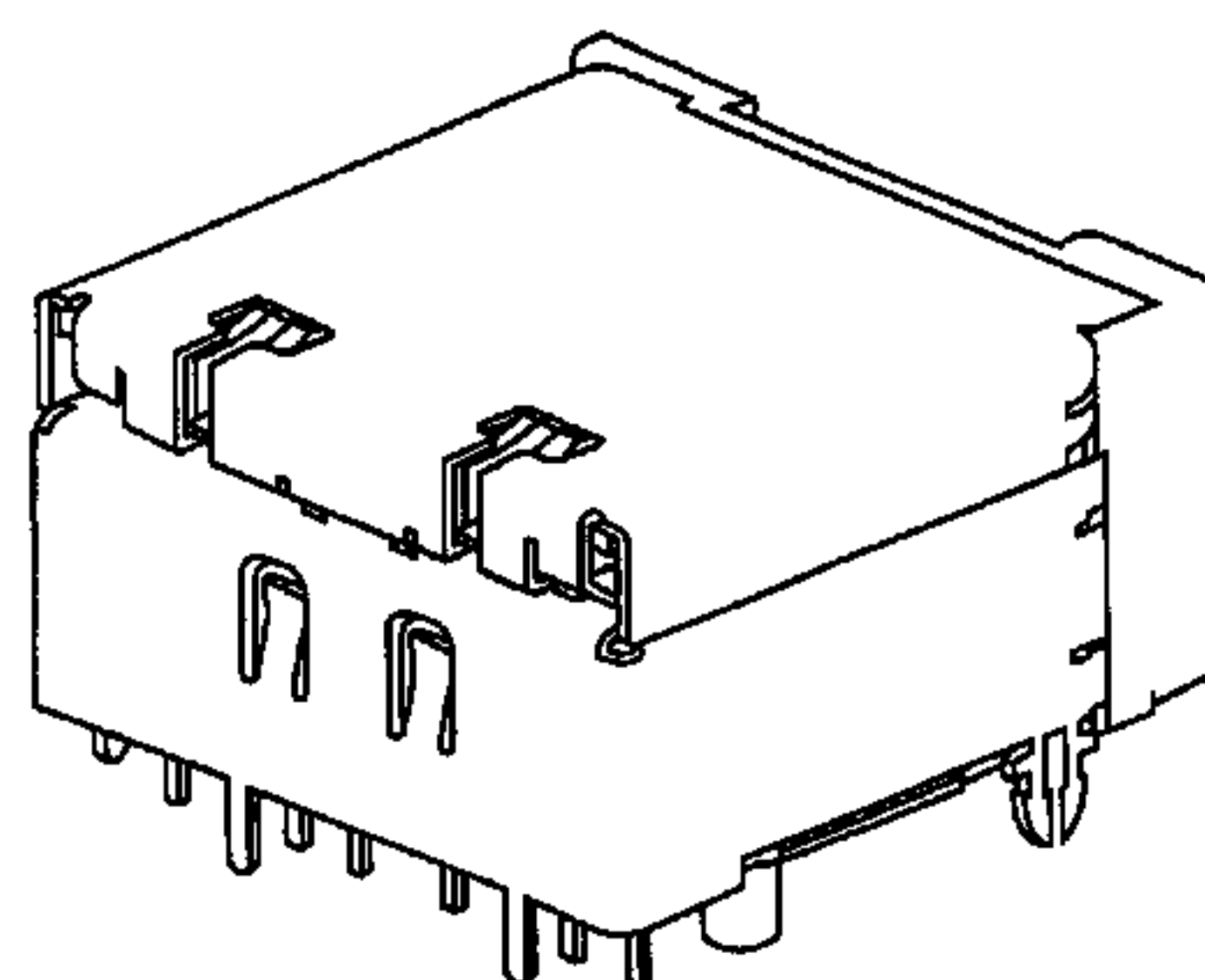
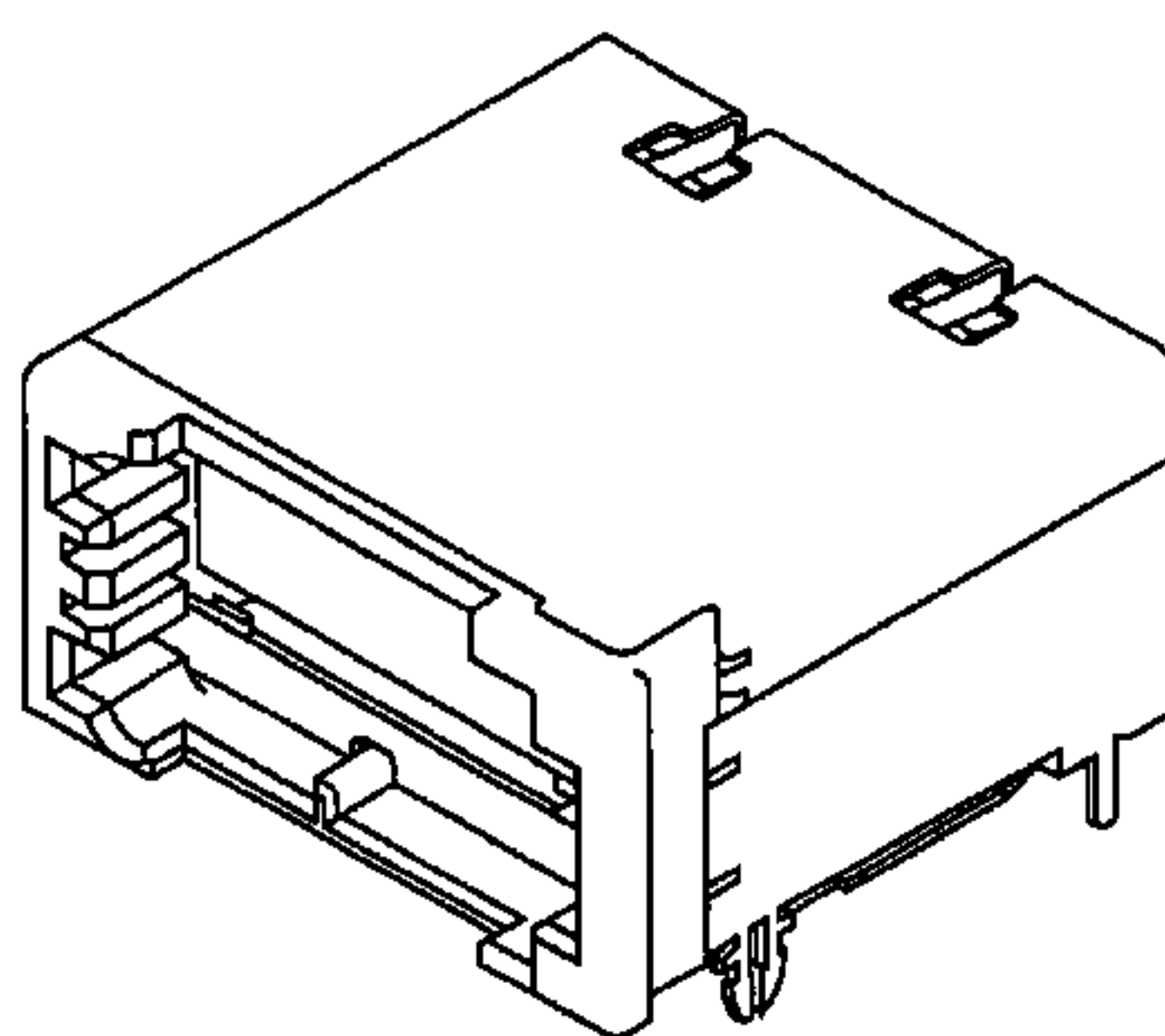


FIG.1

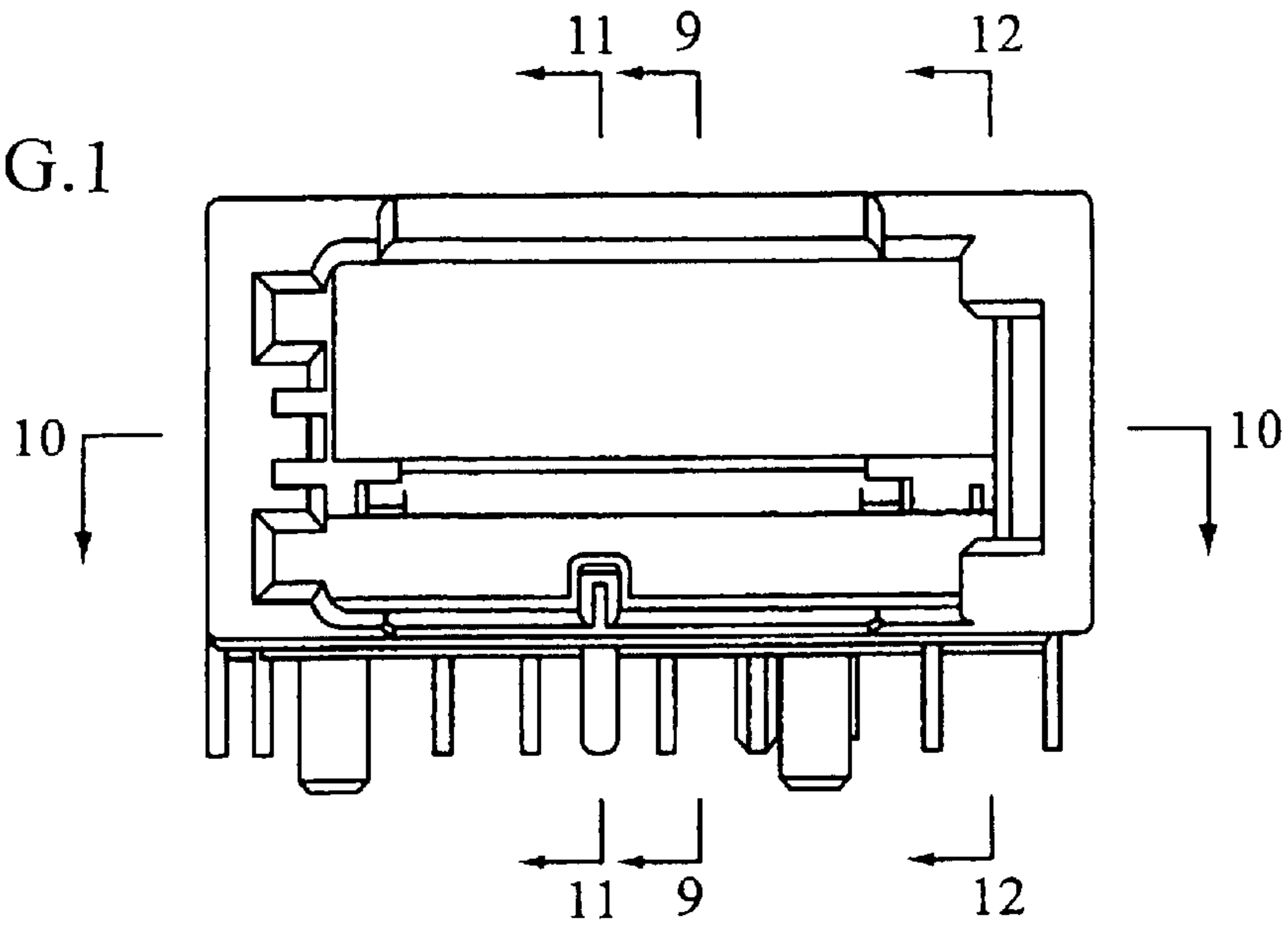


FIG.2

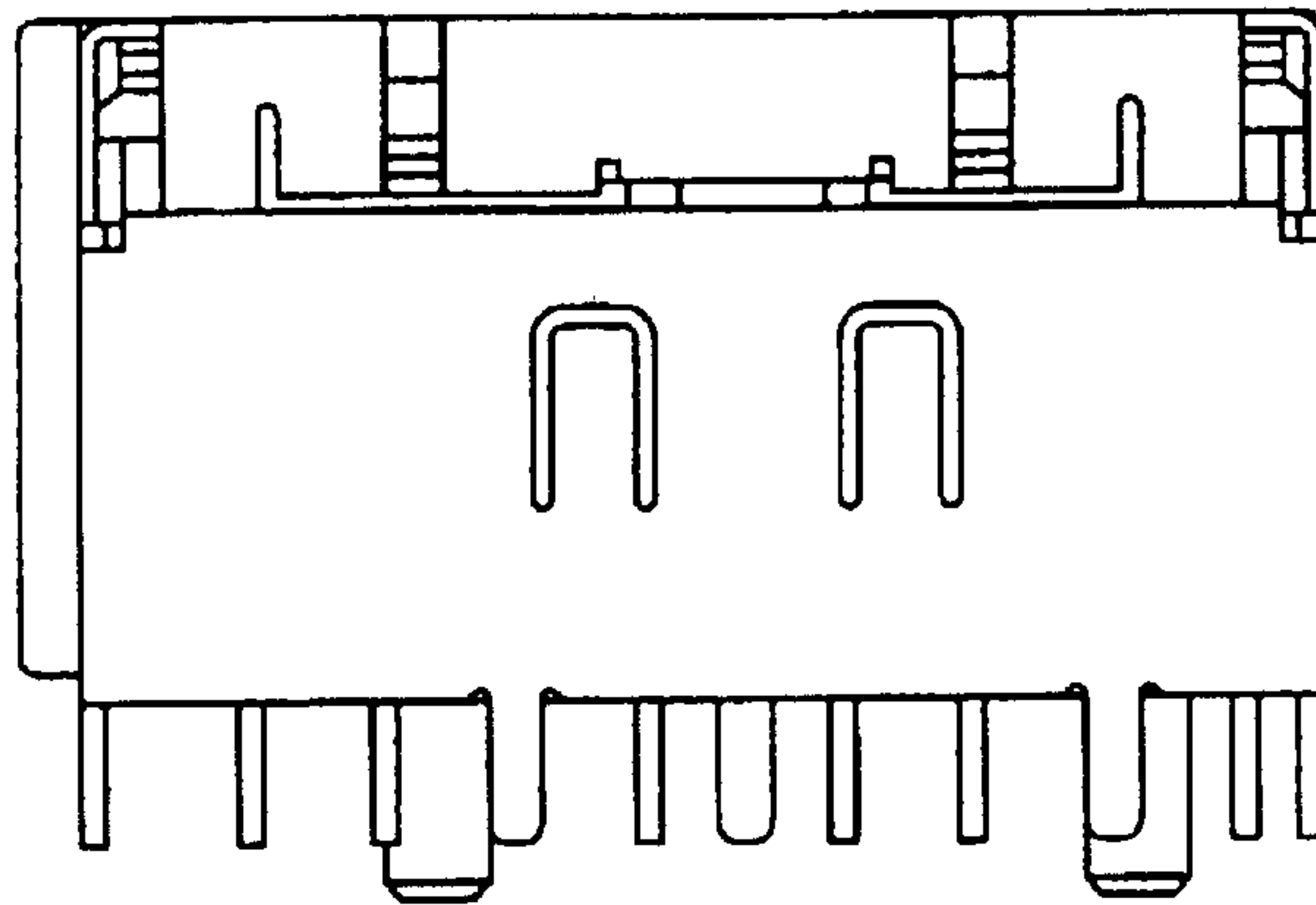


FIG.3

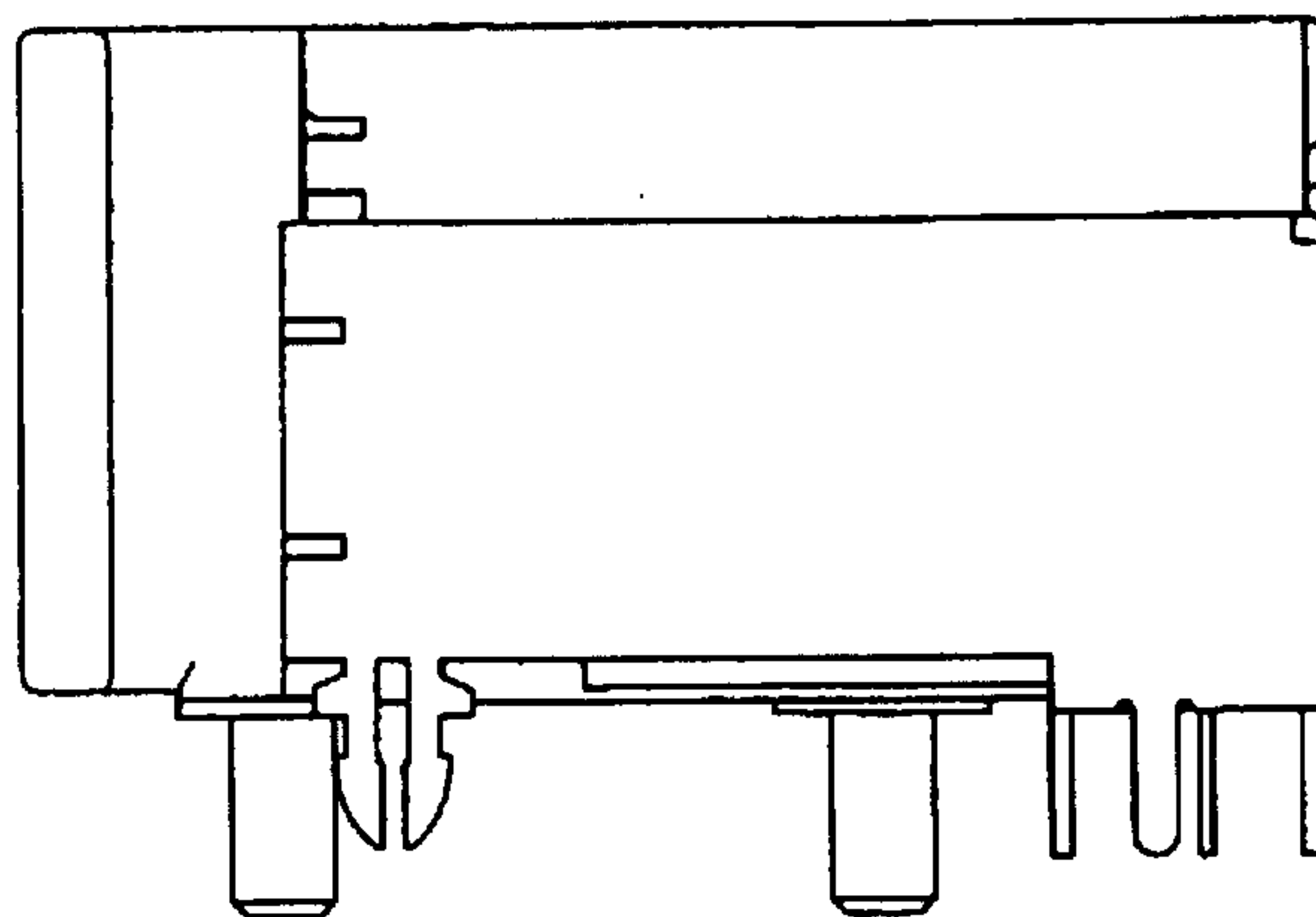


FIG.4

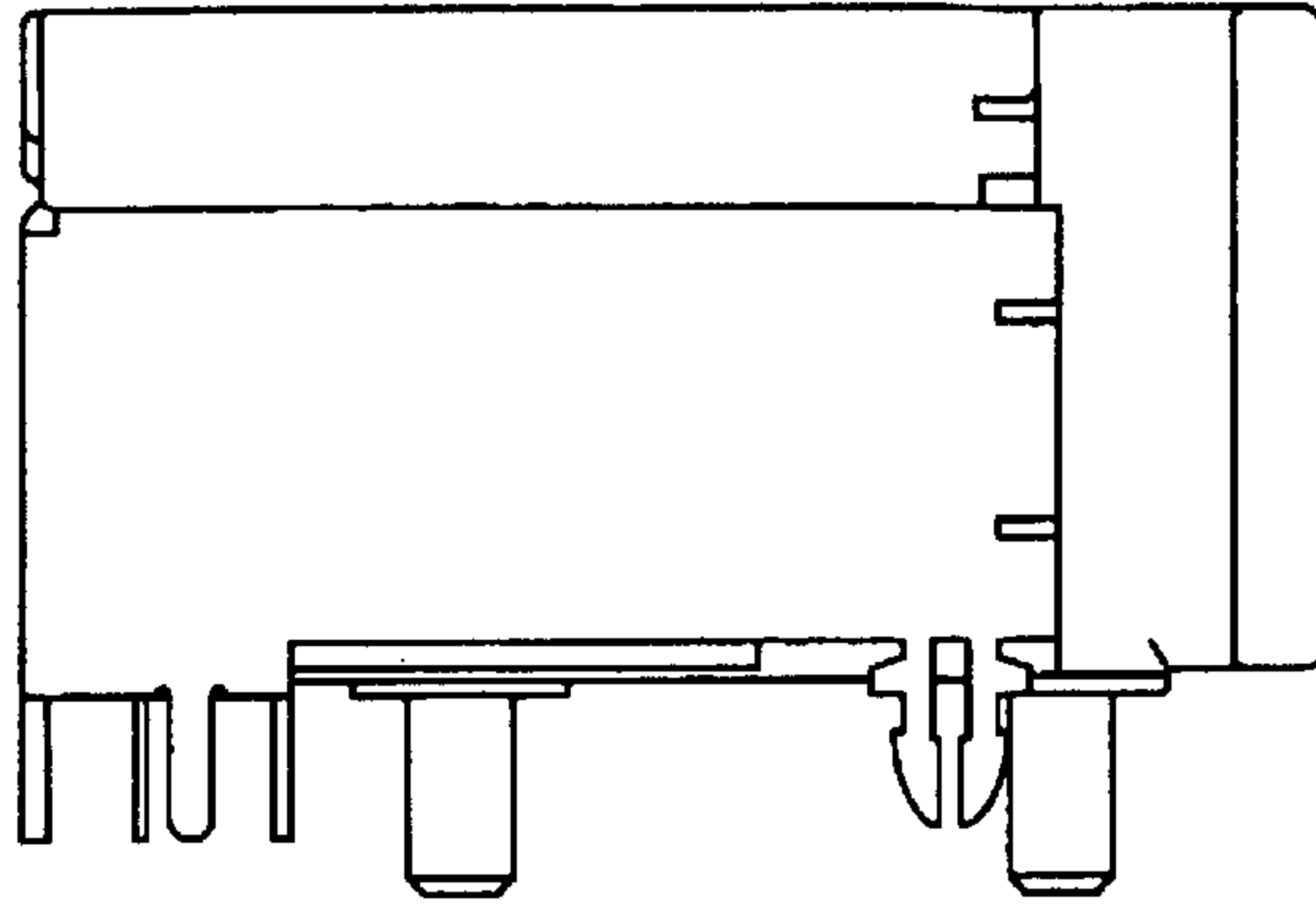


FIG.5

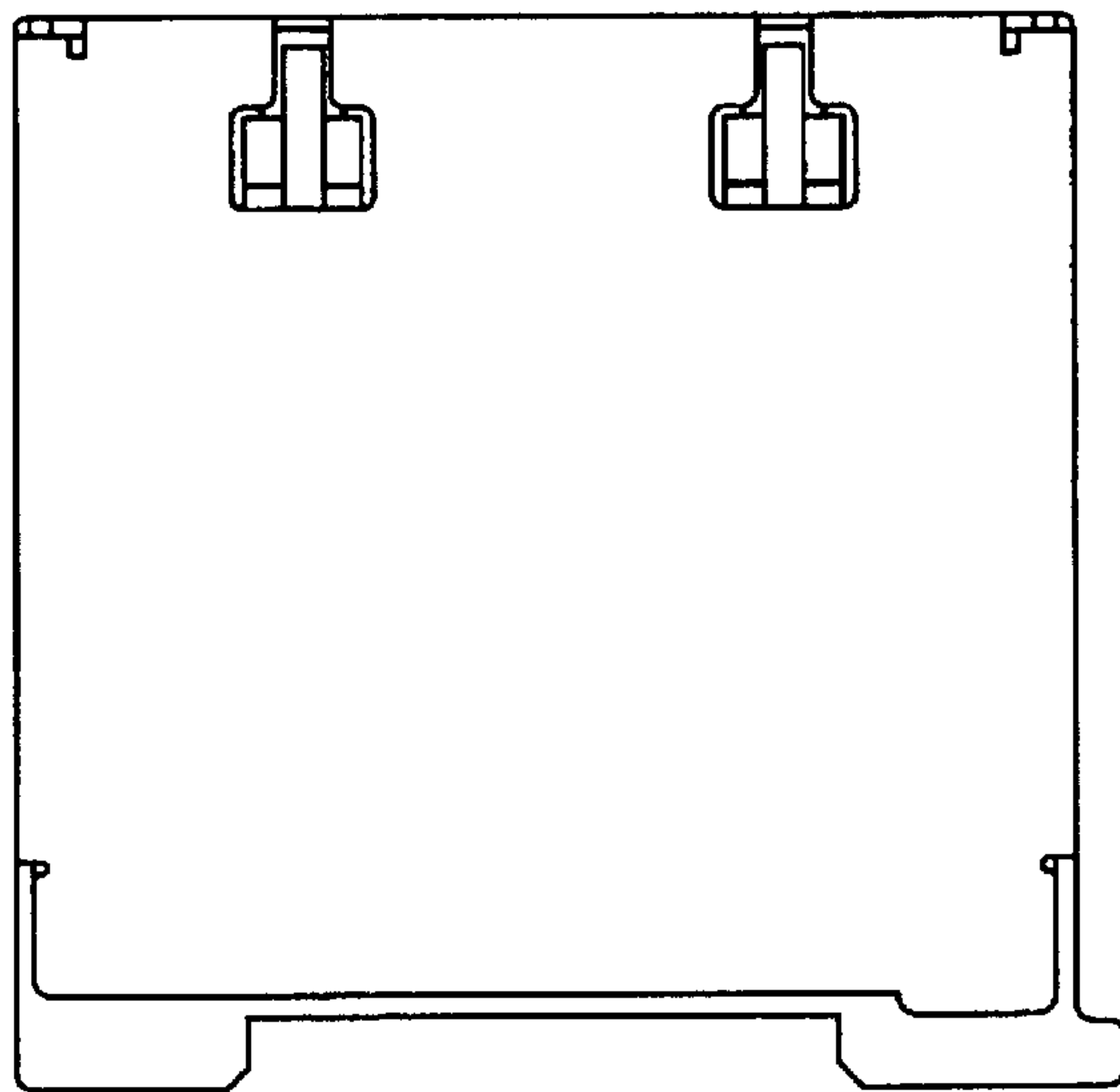
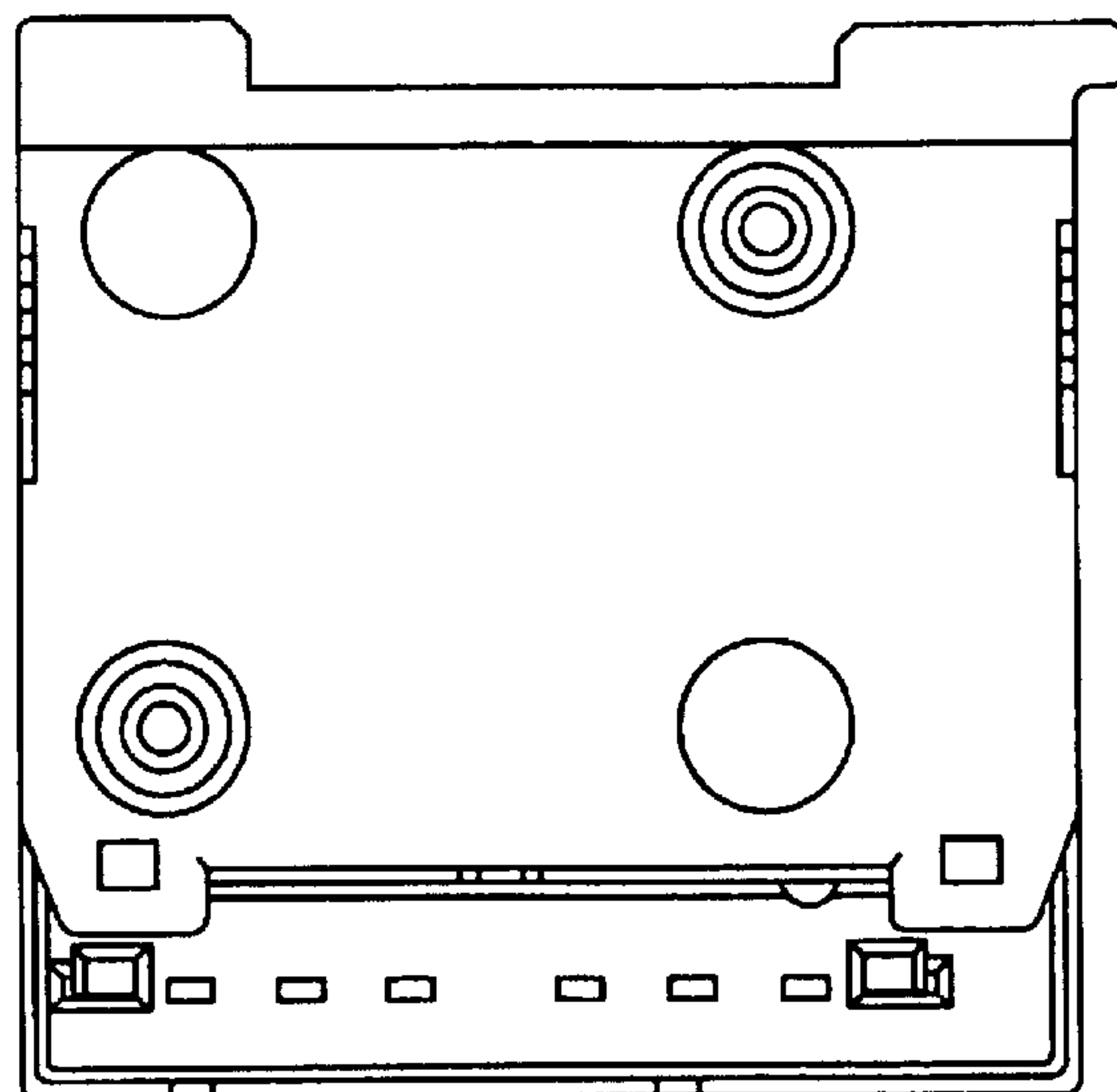


FIG.6



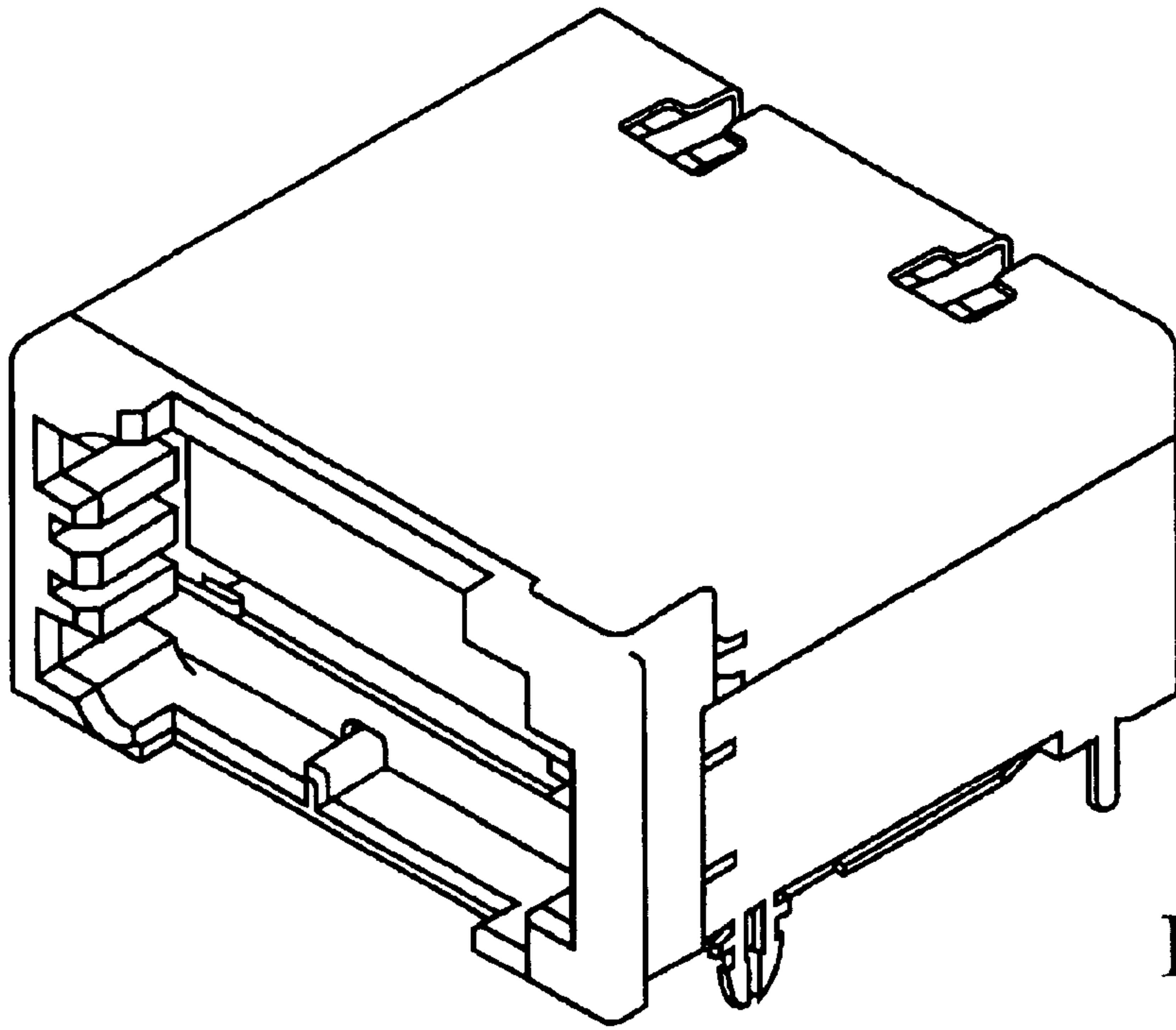


FIG. 7

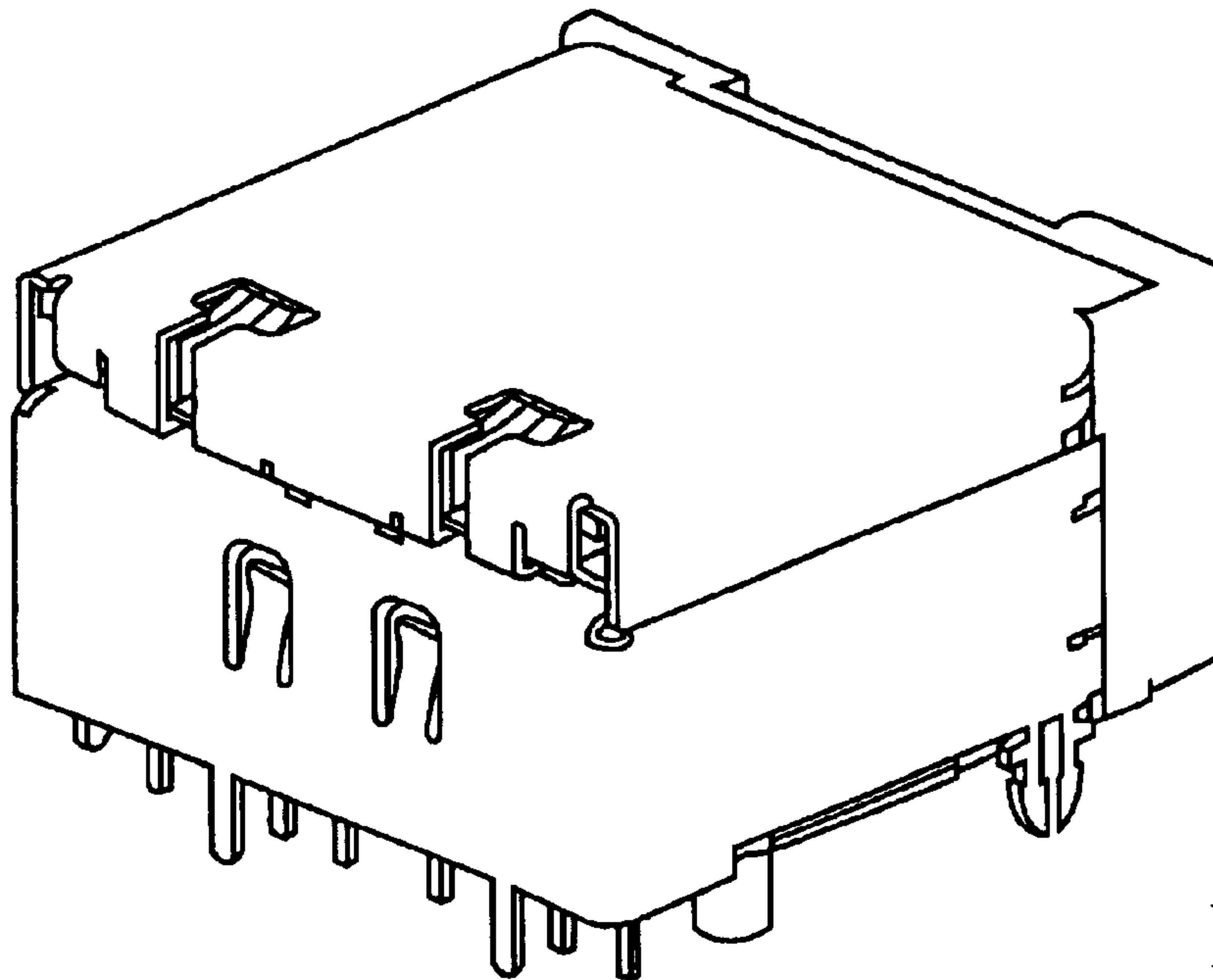


FIG. 8

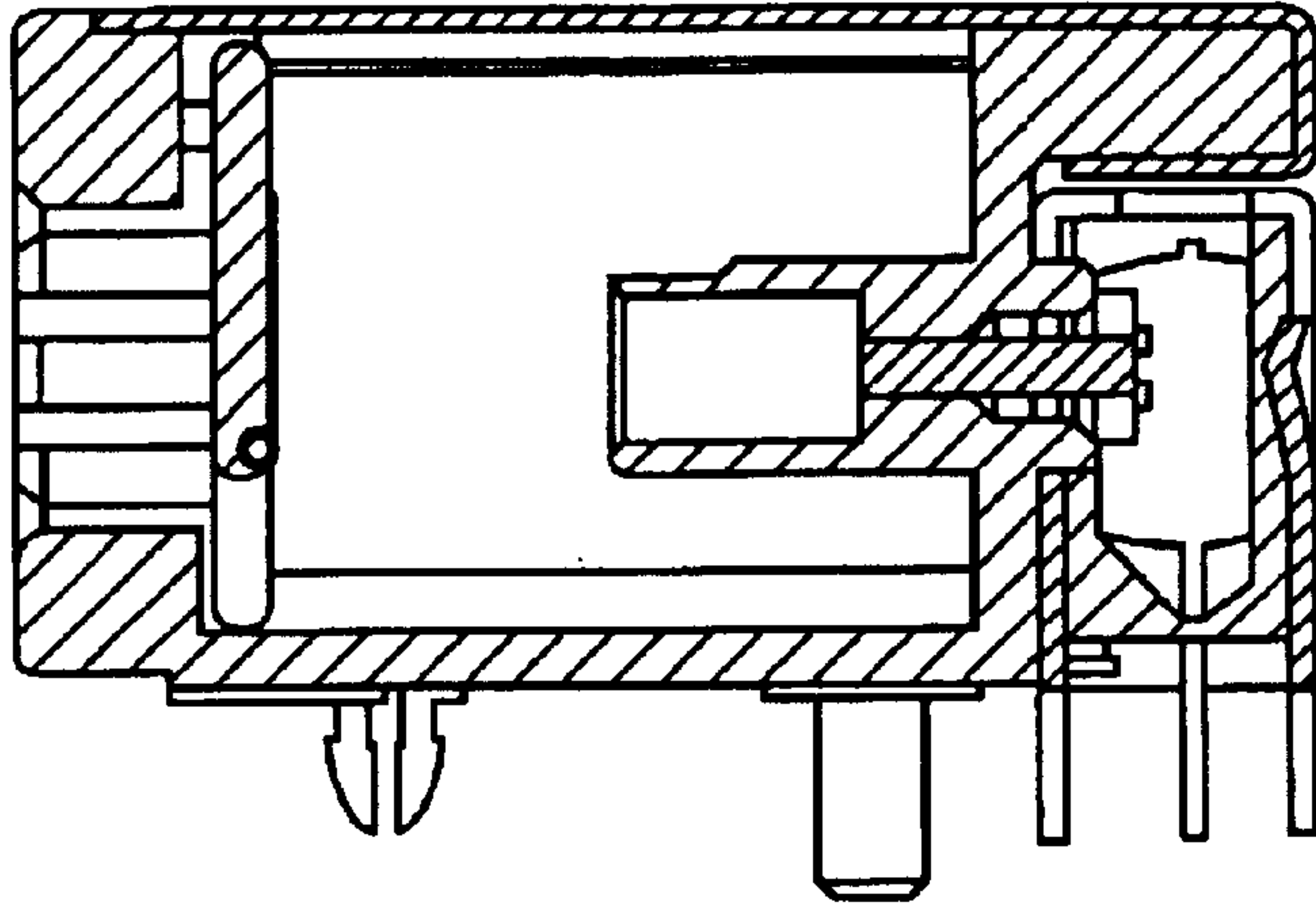


FIG. 9

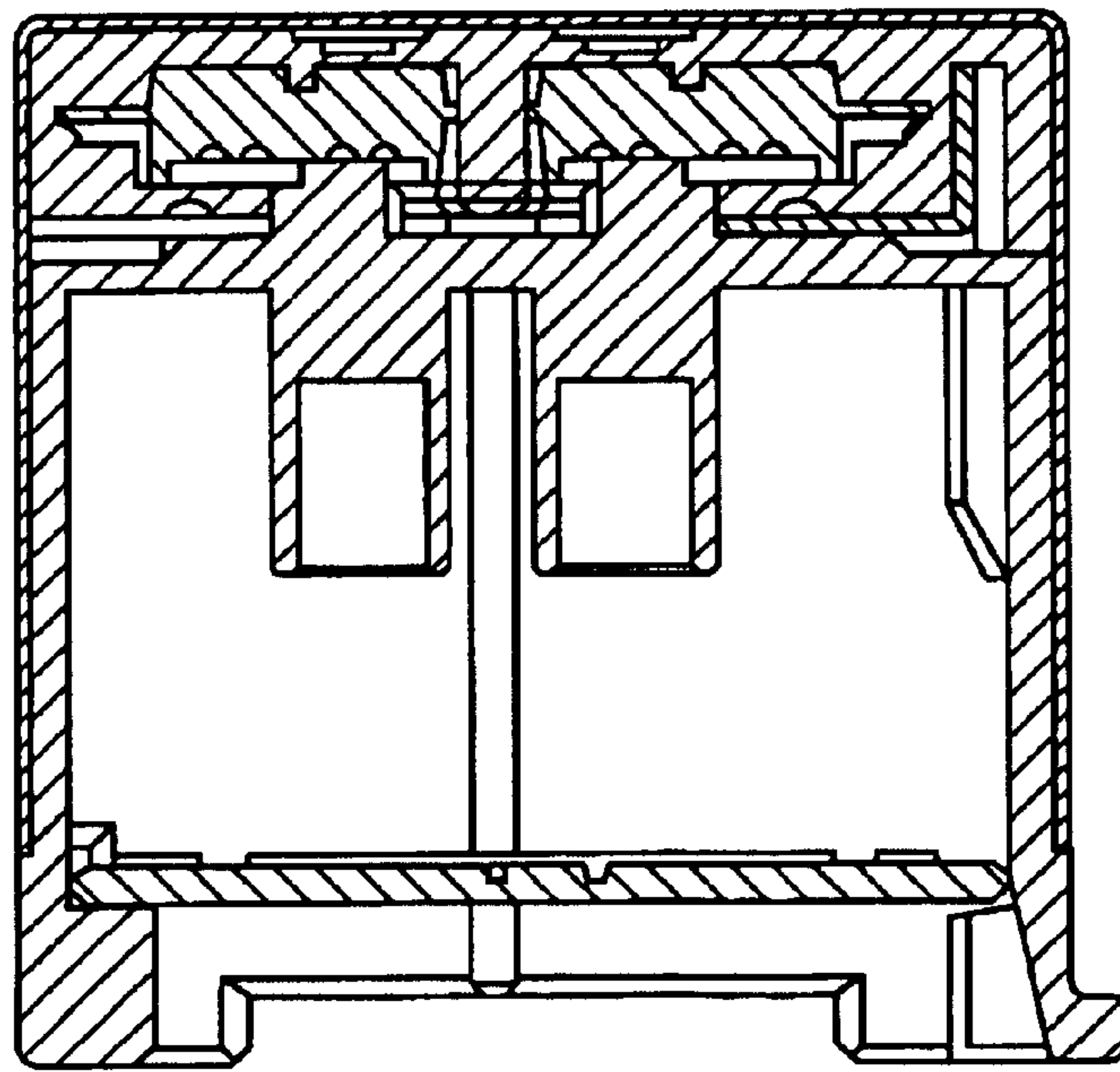


FIG. 10

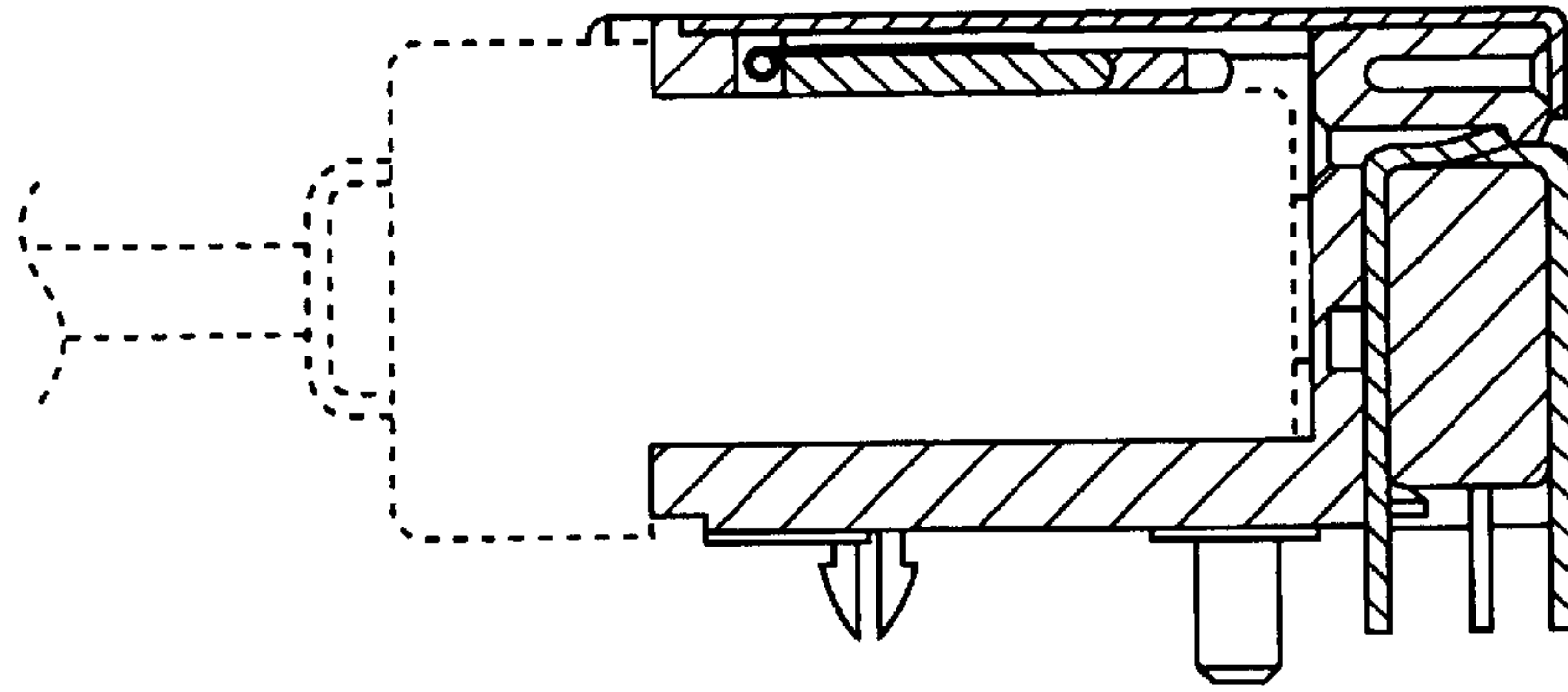


FIG. 11

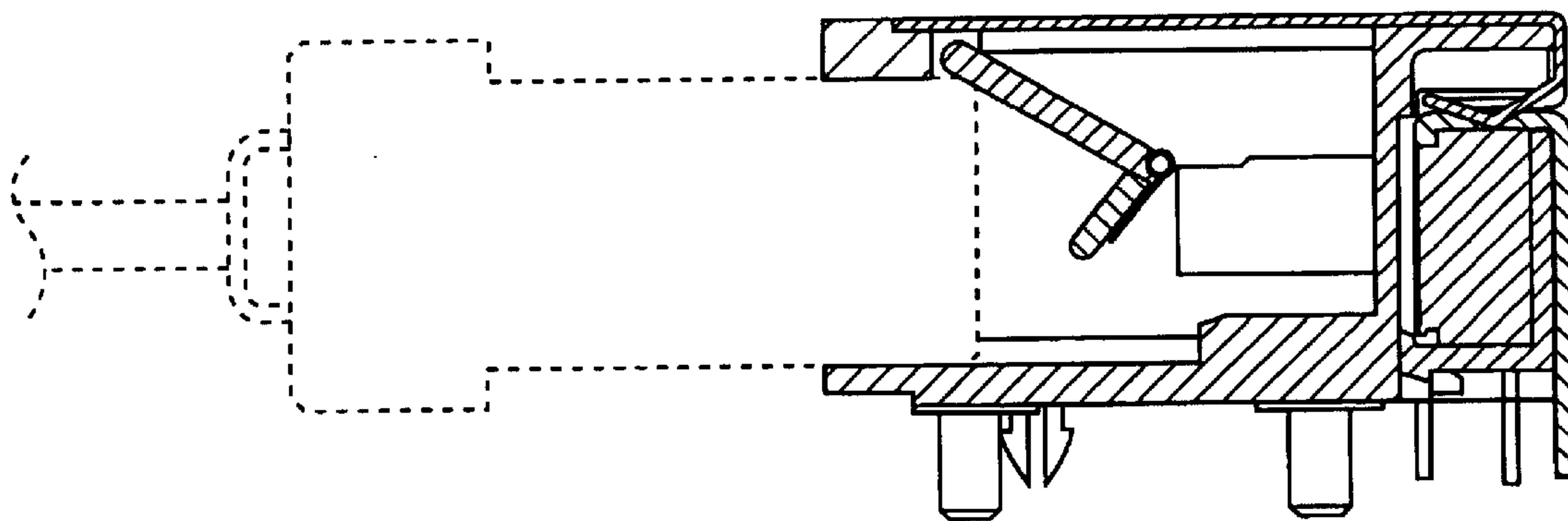


FIG. 12