



US00D511112S

(12) **United States Design Patent**  
**Takada**

(10) **Patent No.:** **US D511,112 S**  
(45) **Date of Patent:** **\*\* Nov. 1, 2005**

(54) **ELECTRICAL CURRENT SENSORS**

(57) **CLAIM**

(75) Inventor: **Hiroto Takada**, Kanagawa-Prefecture (JP)

The ornamental design for an electrical current sensors, as shown and described.

(73) Assignee: **Liaisons Electroniques-Mecaniques LEM S.A.**, Geneva (CH)

**DESCRIPTION**

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

FIG. 1 is a perspective front view of the electrical current sensor, showing my new design.

(21) Appl. No.: **29/195,920**

FIG. 2 is a perspective rear view of the electrical current sensor.

(22) Filed: **Dec. 18, 2003**

FIG. 3 is a rear view of the electrical current sensor.

(30) **Foreign Application Priority Data**

FIG. 4 is a plan view of the electrical current sensor.

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FIG. 5 is a left side view of the electrical current sensor.

(51) **LOC (8) Cl.** ..... **10-04**

FIG. 6 is a front view of the electrical current sensor.

(52) **U.S. Cl.** ..... **D10/75**

FIG. 7 is a right side view of the electrical current sensor.

(58) **Field of Search** ..... D10/75; 324/117 H, 324/117 R

FIG. 8 is an underneath plan view of the electrical current sensor.

FIG. 9 is a perspective view of the electrical current sensor.

FIG. 10 is a perspective rear view of the electrical current sensor.

FIG. 11 is a rear view of the electrical current sensor.

FIG. 12 is a plan view of the electrical current sensor.

FIG. 13 is a left side view of the electrical current sensor.

FIG. 14 is a front view of the electrical current sensor.

FIG. 15 is a right side view of the electrical current sensor; and,

FIG. 16 is an underneath plan view of the electrical current sensor.

(56) **References Cited**

**U.S. PATENT DOCUMENTS**

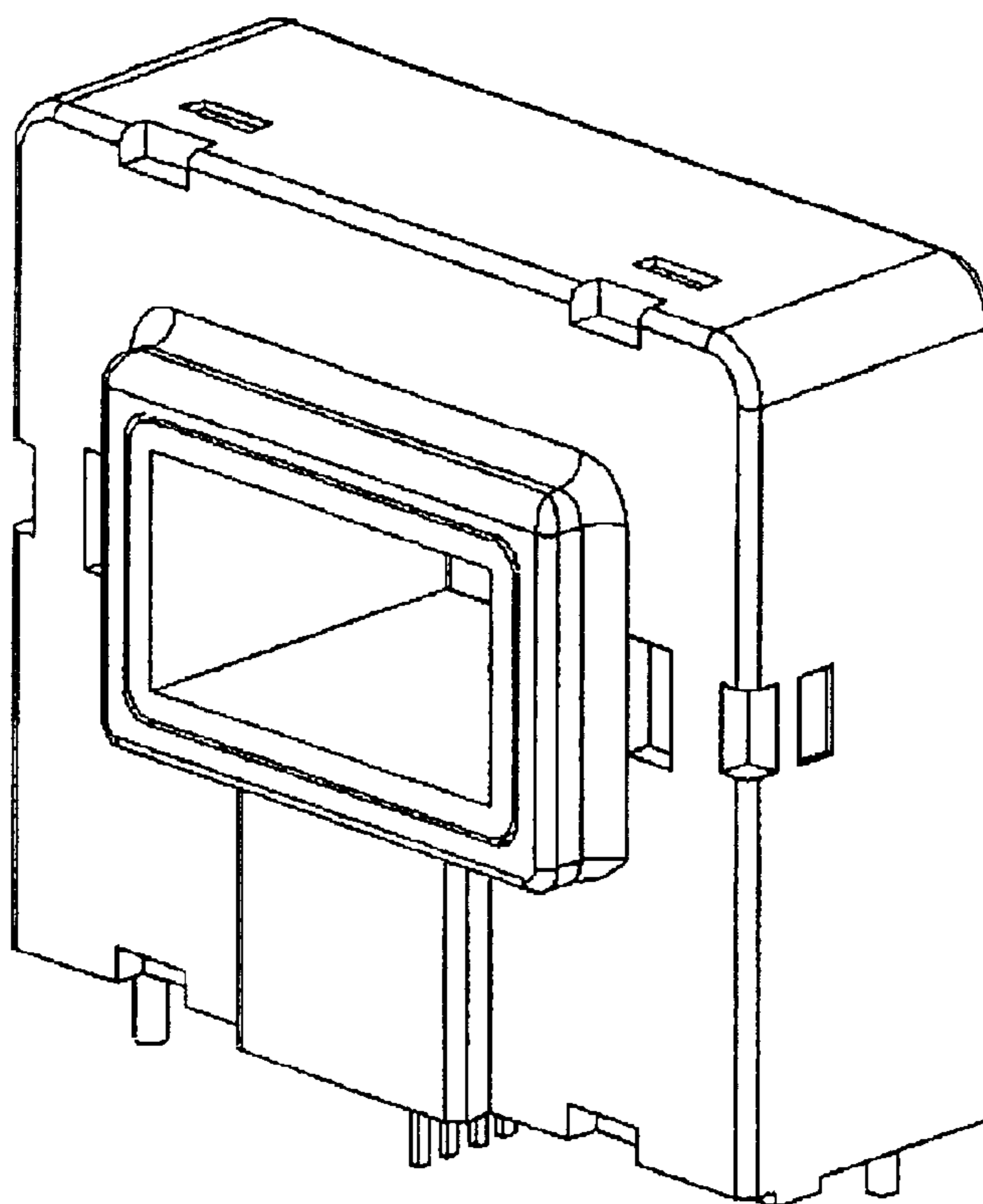
- D367,013 S \* 2/1996 Cattaneo ..... D10/75
- D401,171 S \* 11/1998 Cattaneo ..... D10/75
- D494,078 S \* 8/2004 Vuillermoz ..... D10/75

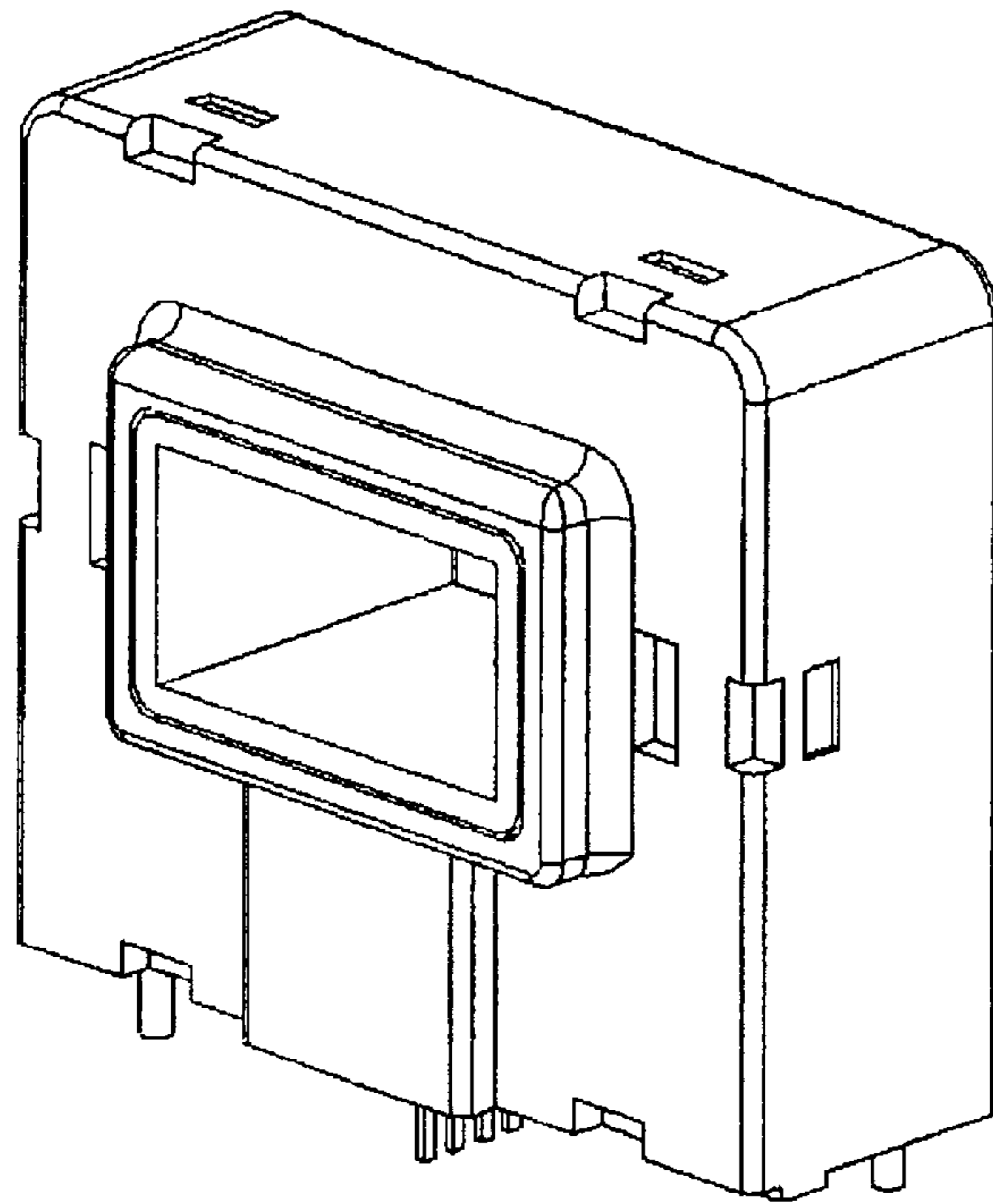
\* cited by examiner

*Primary Examiner*—Antoine D. Davis

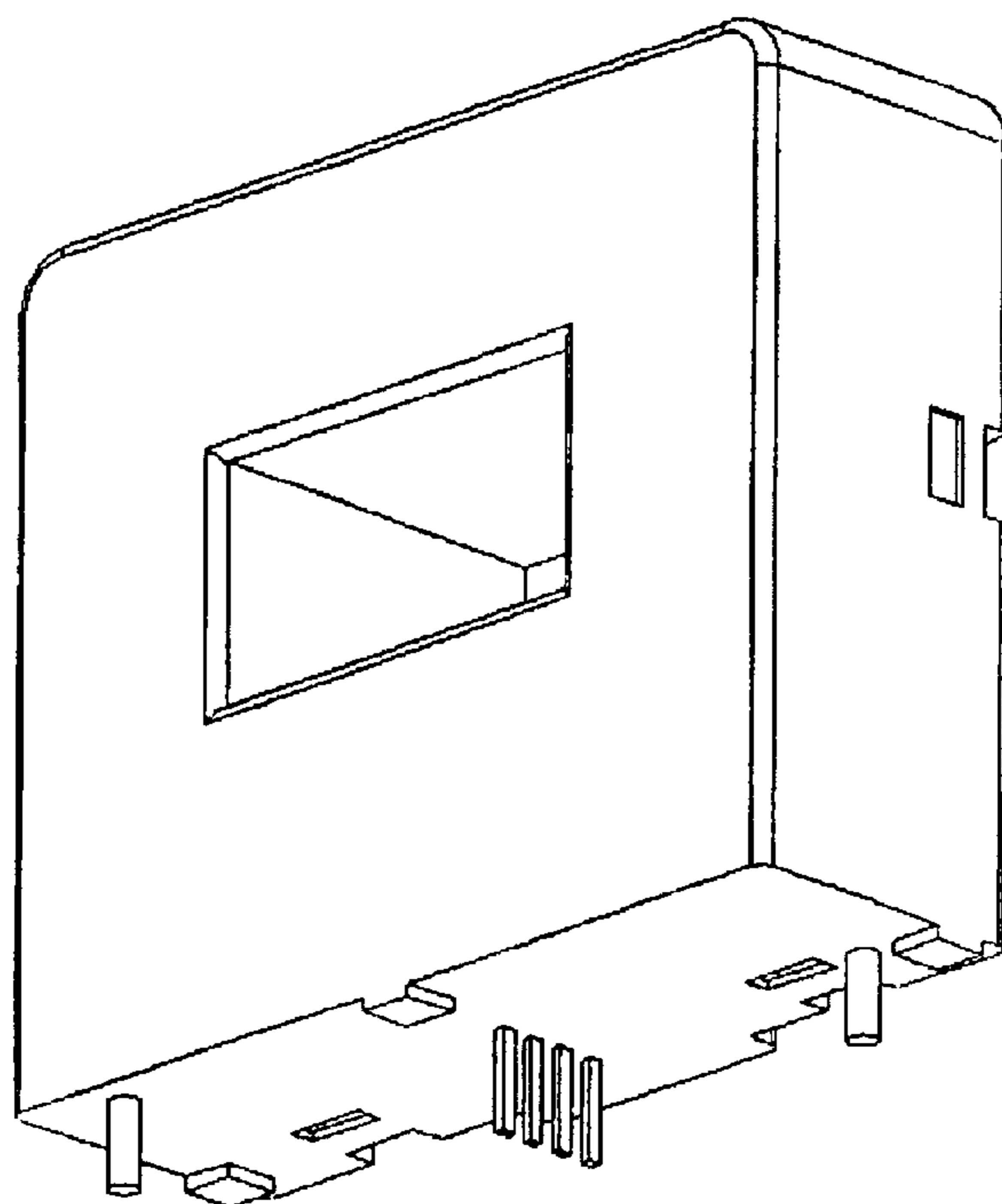
(74) *Attorney, Agent, or Firm*—Woodard, Emhardt, Moriarty McNett & Henry LLP

**1 Claim, 4 Drawing Sheets**

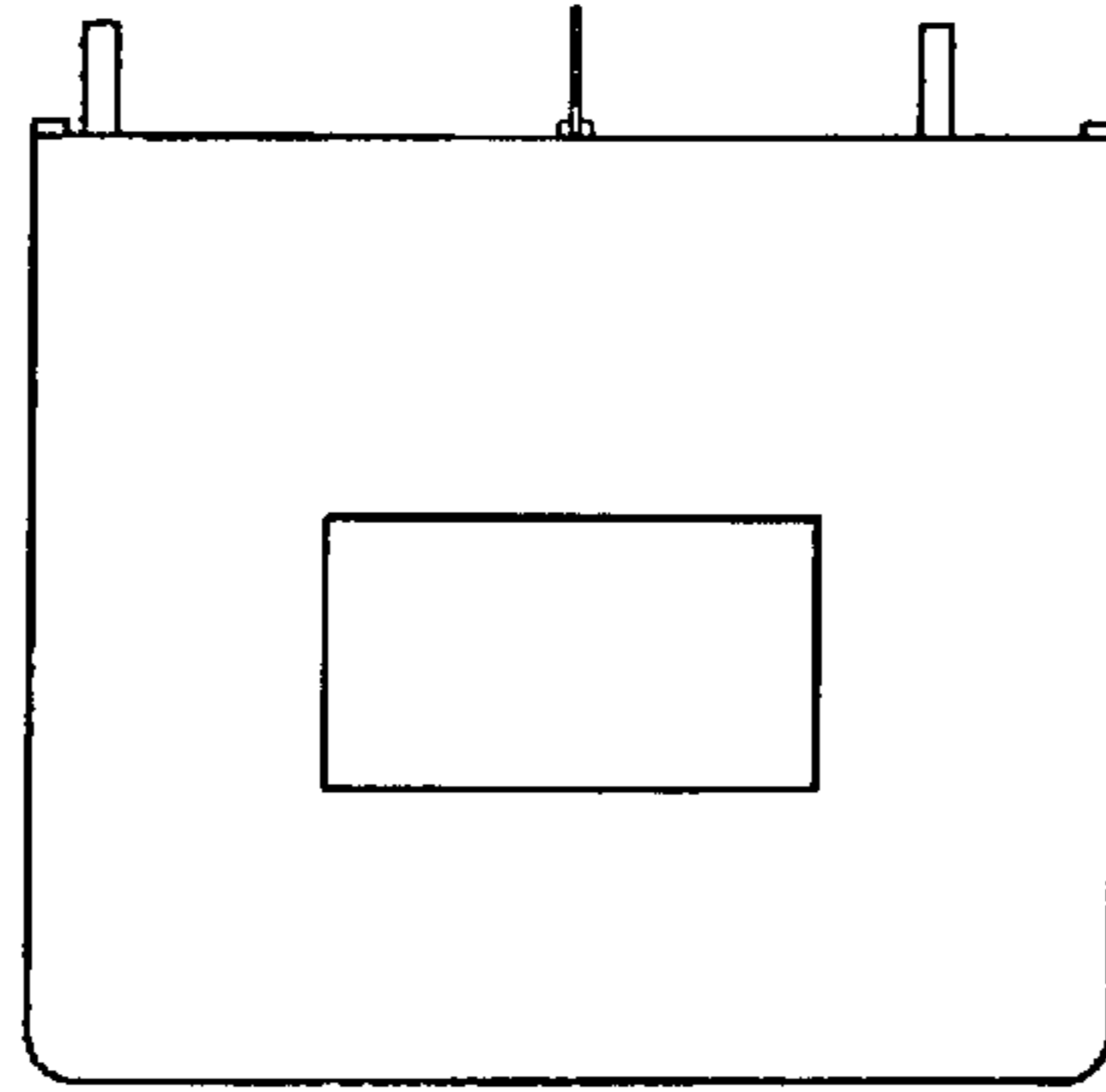




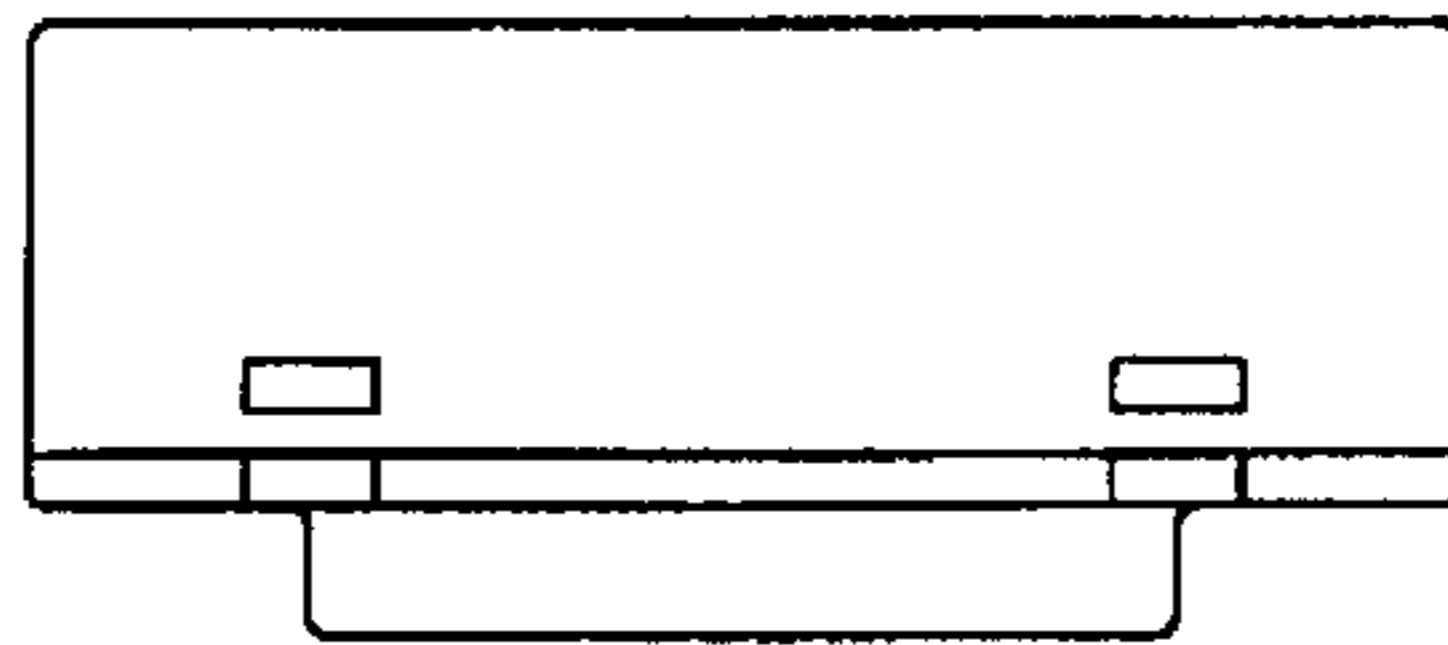
***Fig. 1***



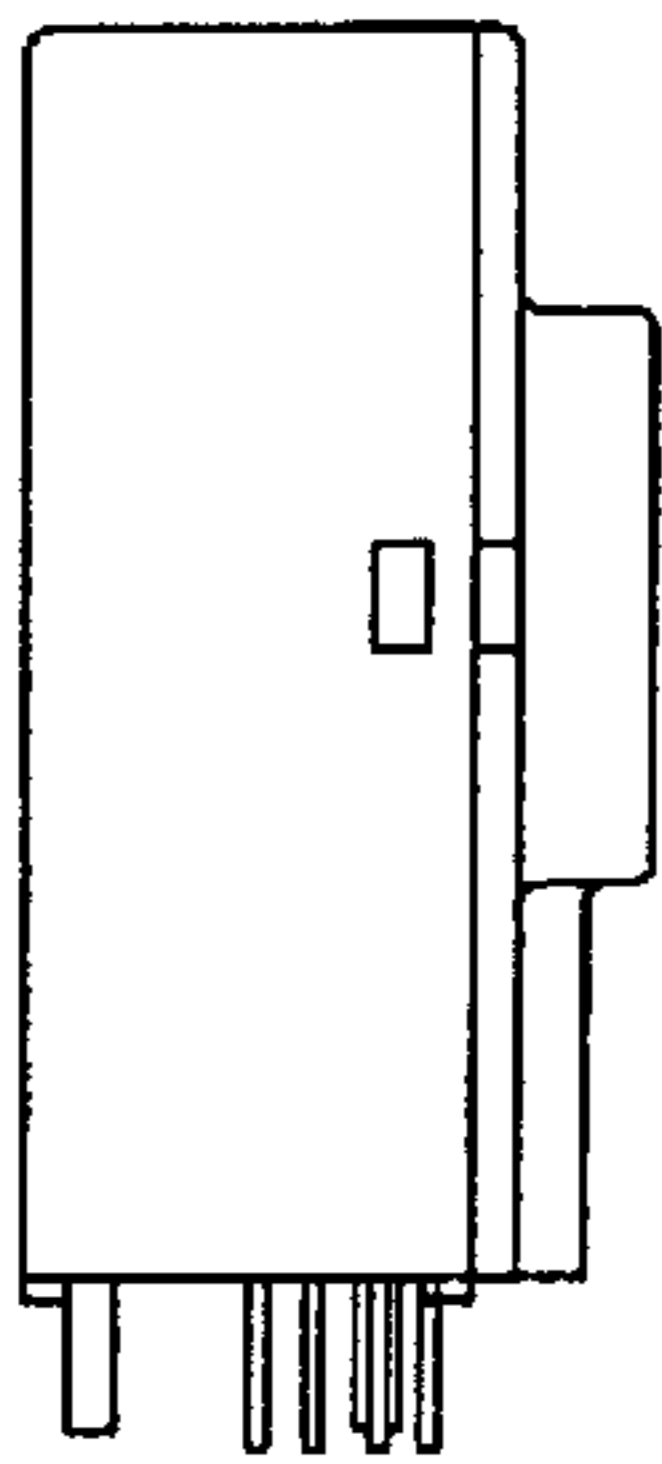
***Fig. 2***



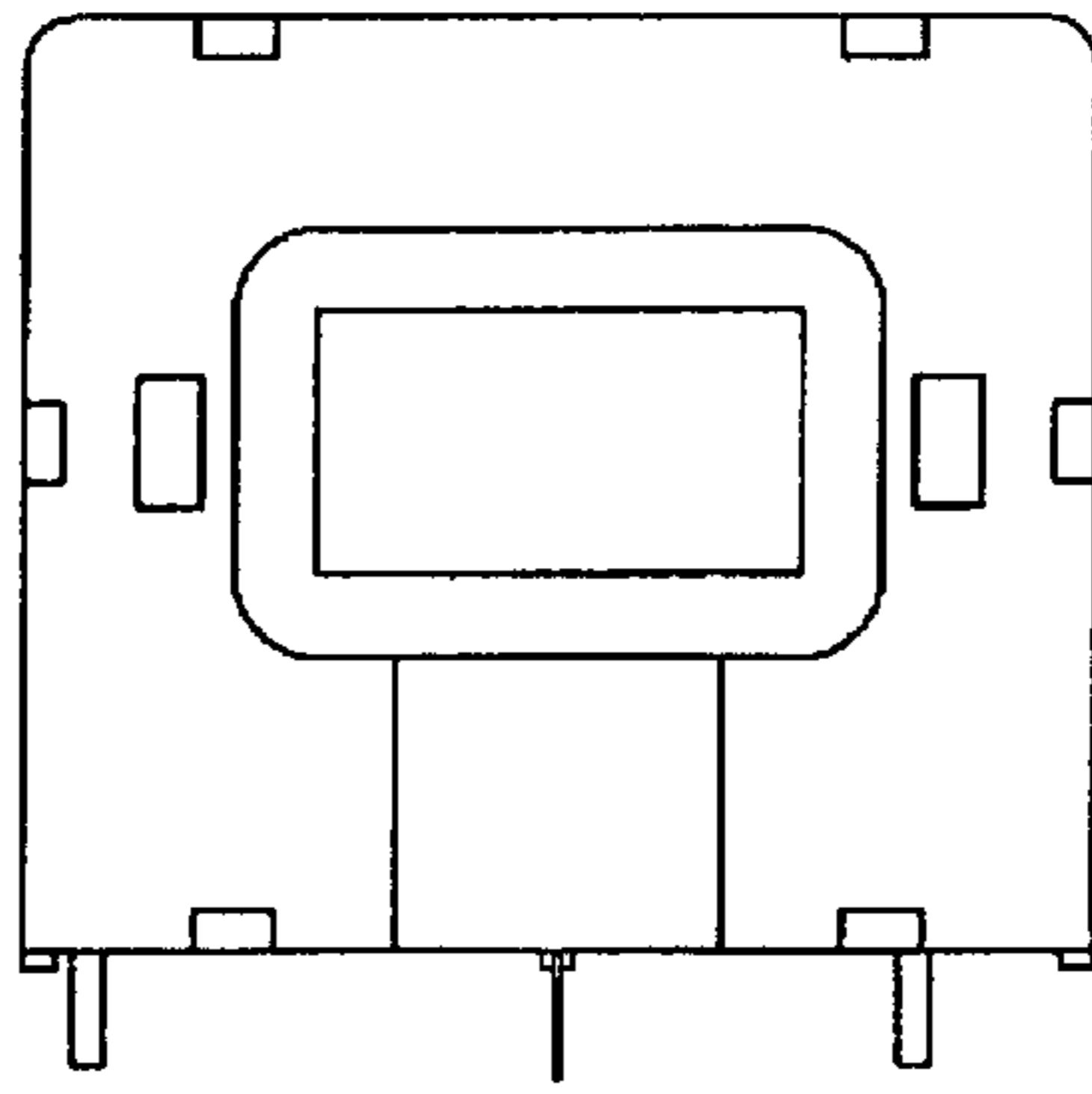
**Fig. 3**



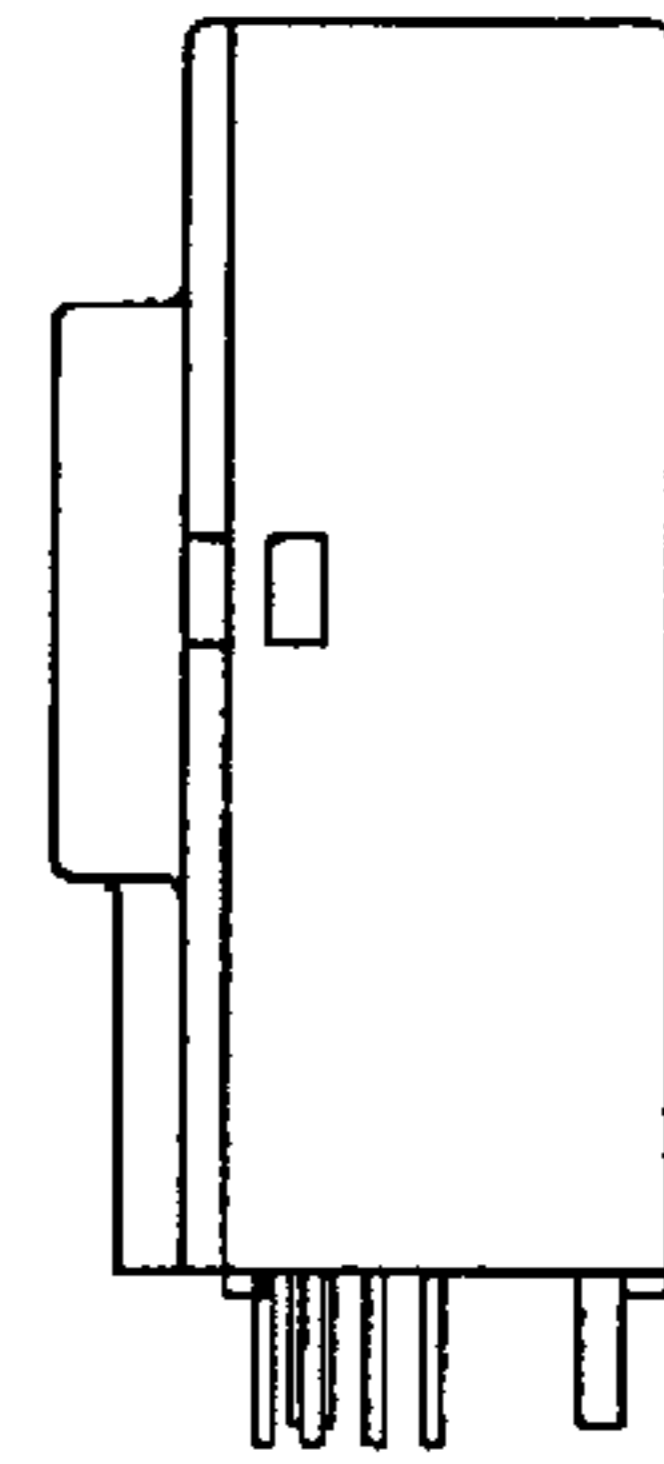
**Fig. 4**



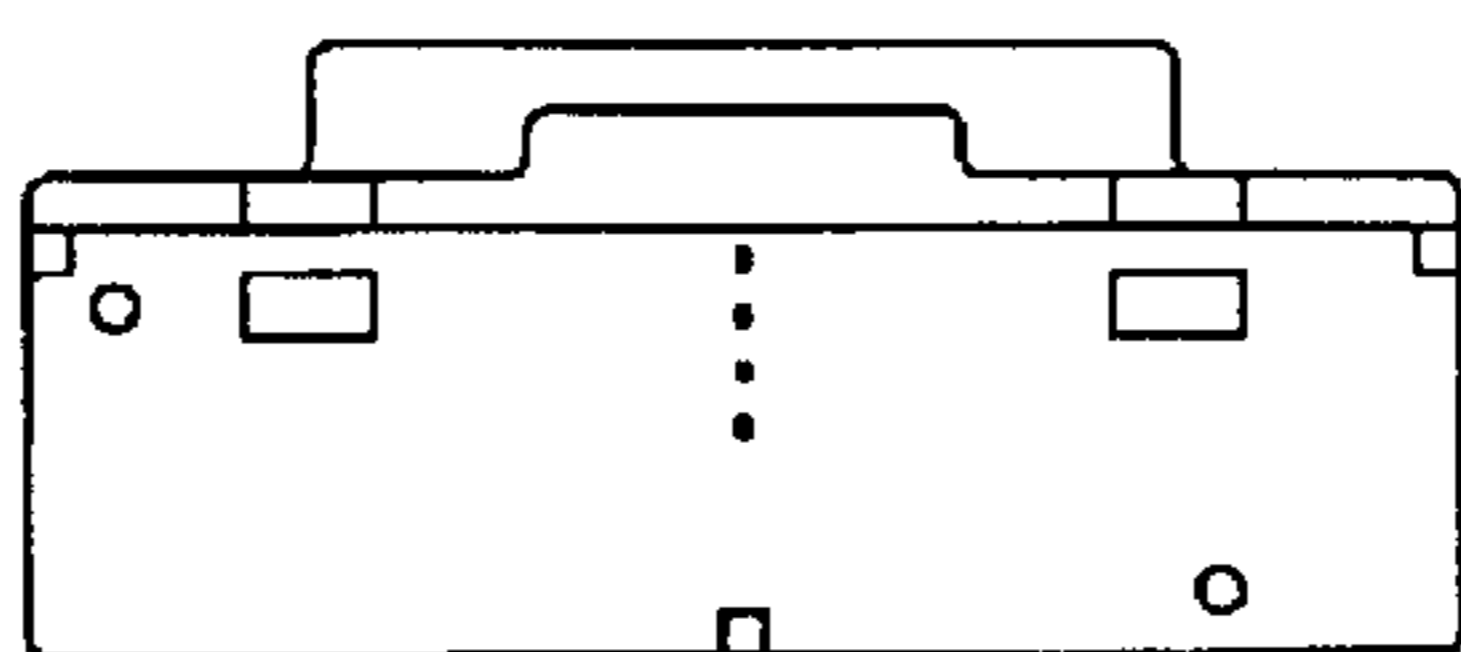
**Fig. 5**



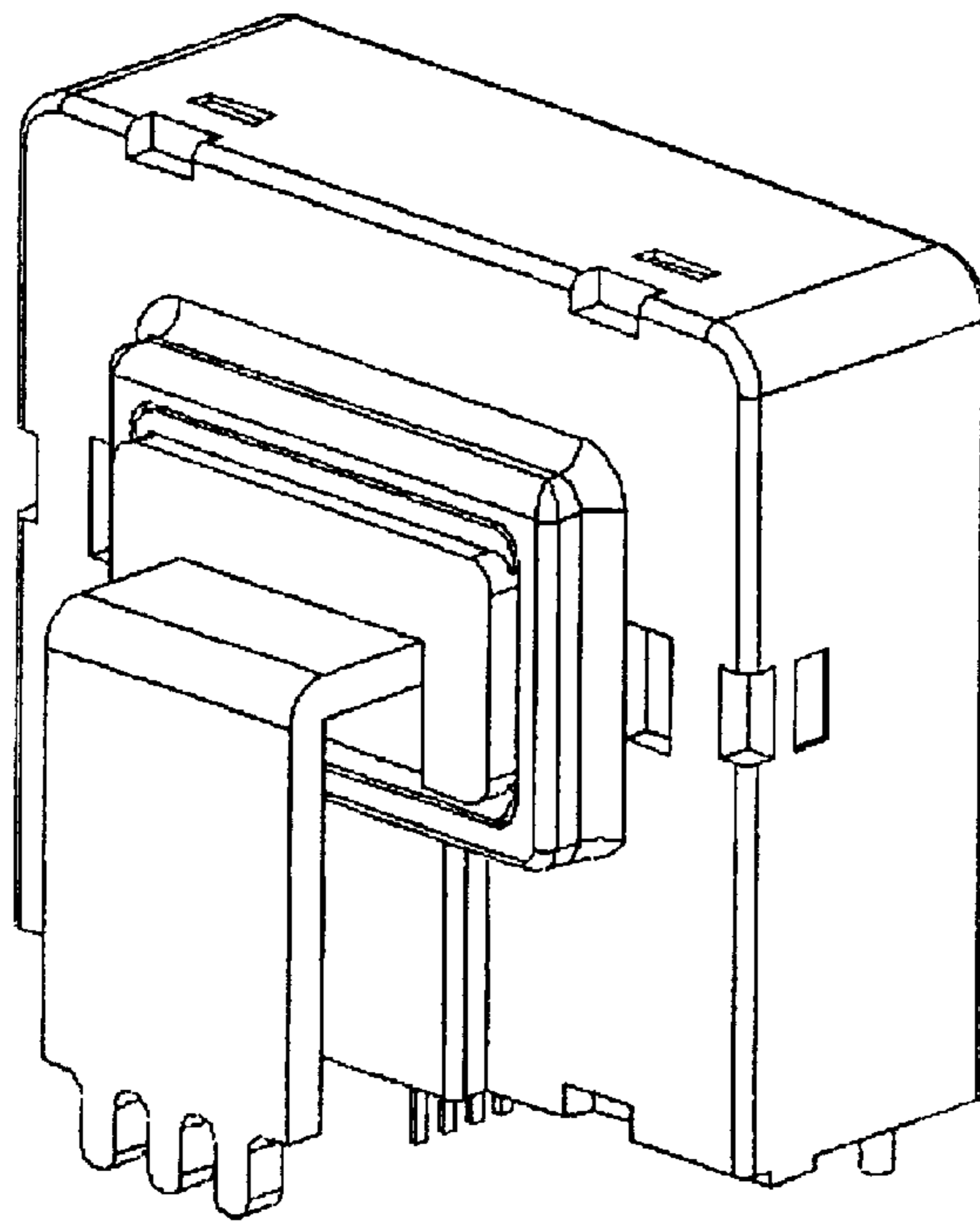
**Fig. 6**



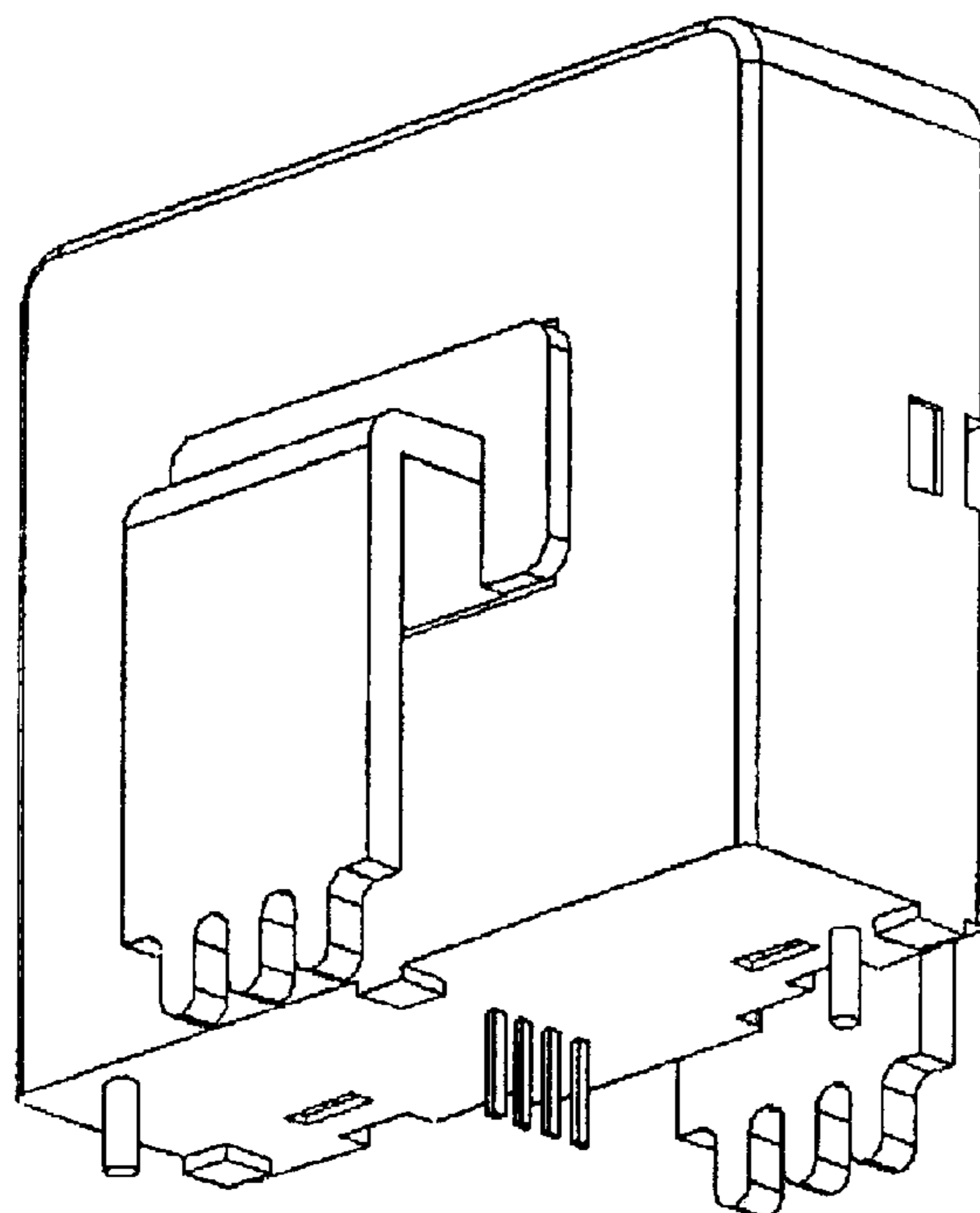
**Fig. 7**



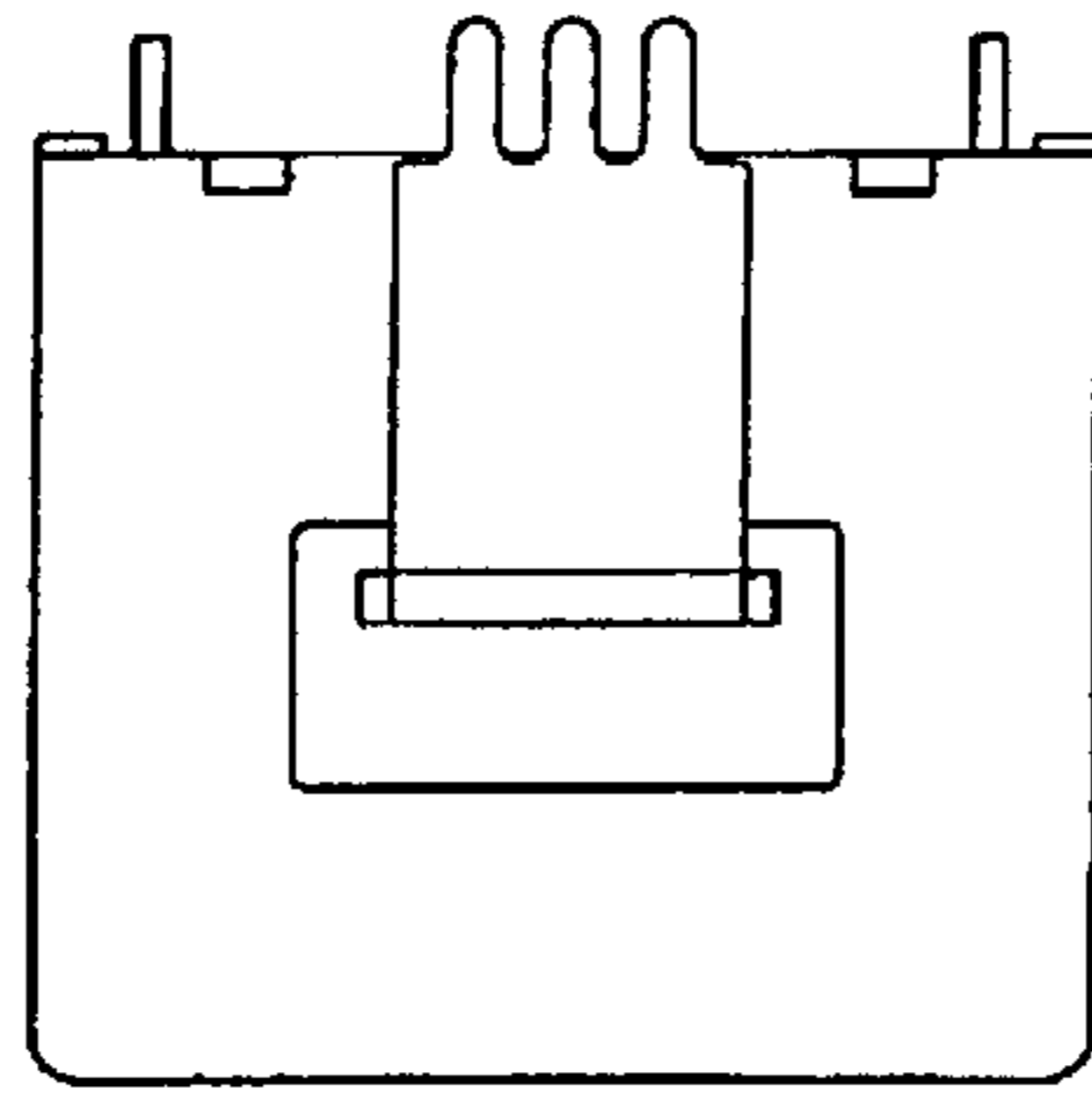
**Fig. 8**



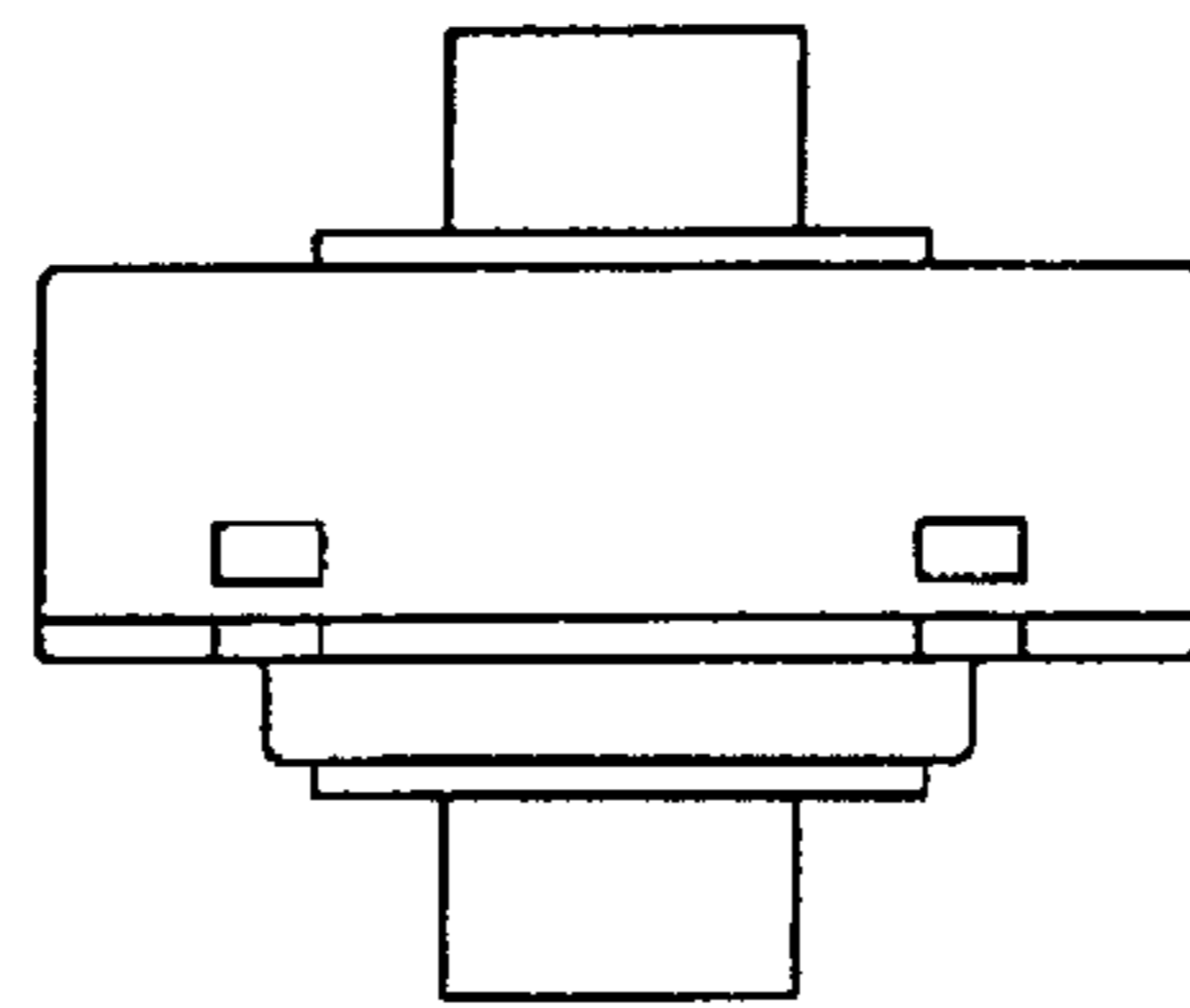
**Fig. 9**



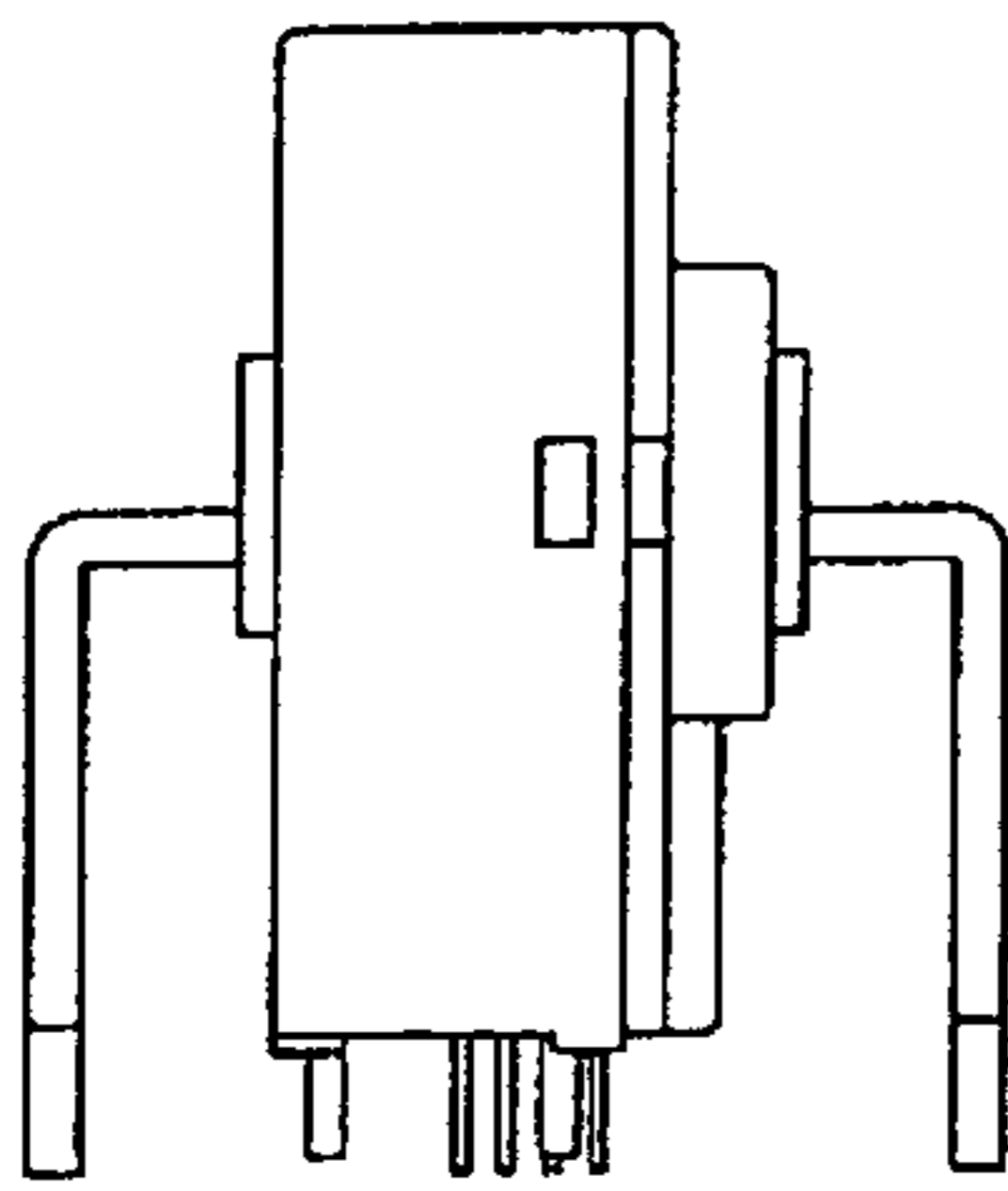
**Fig. 10**



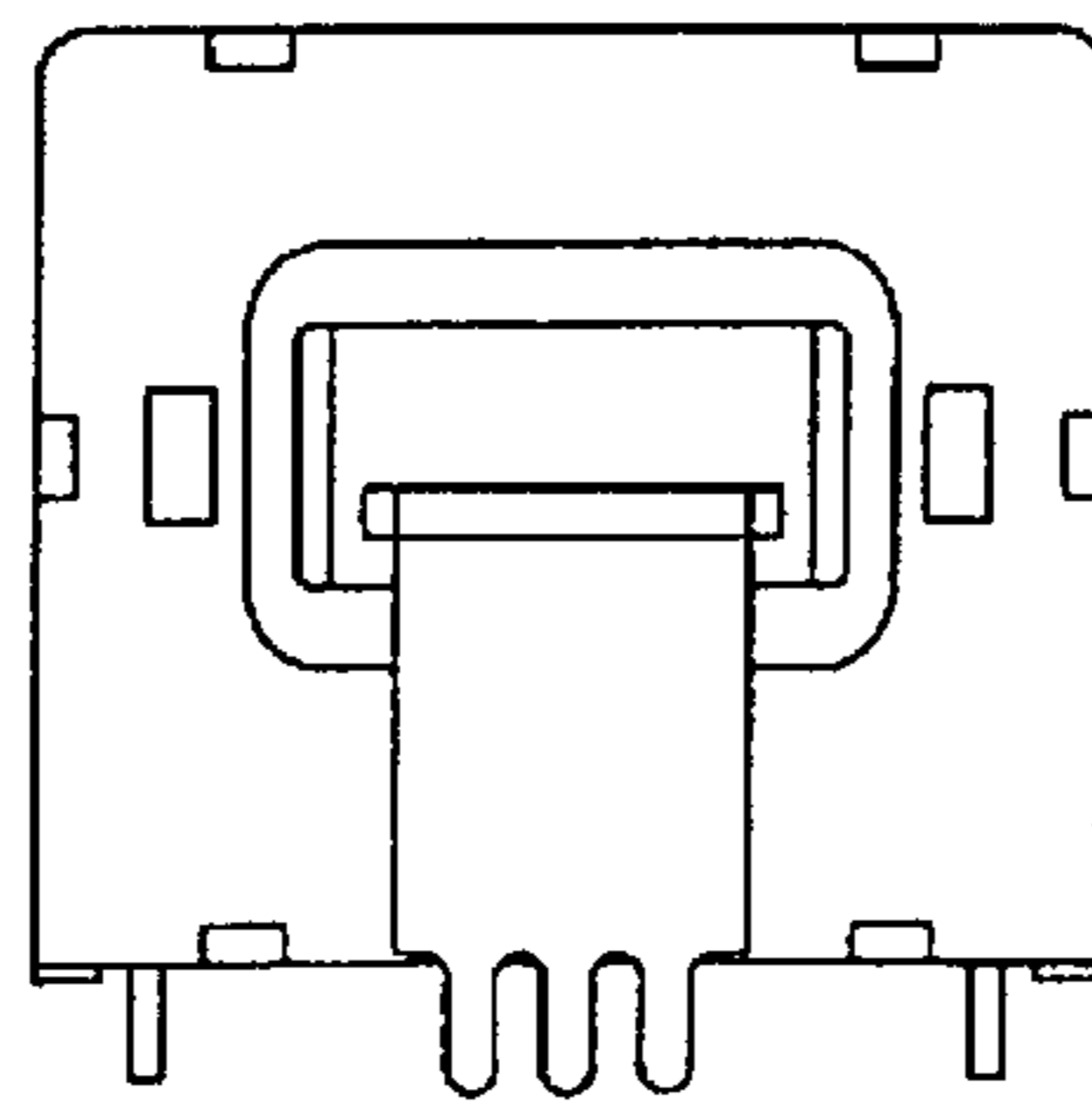
**Fig. 11**



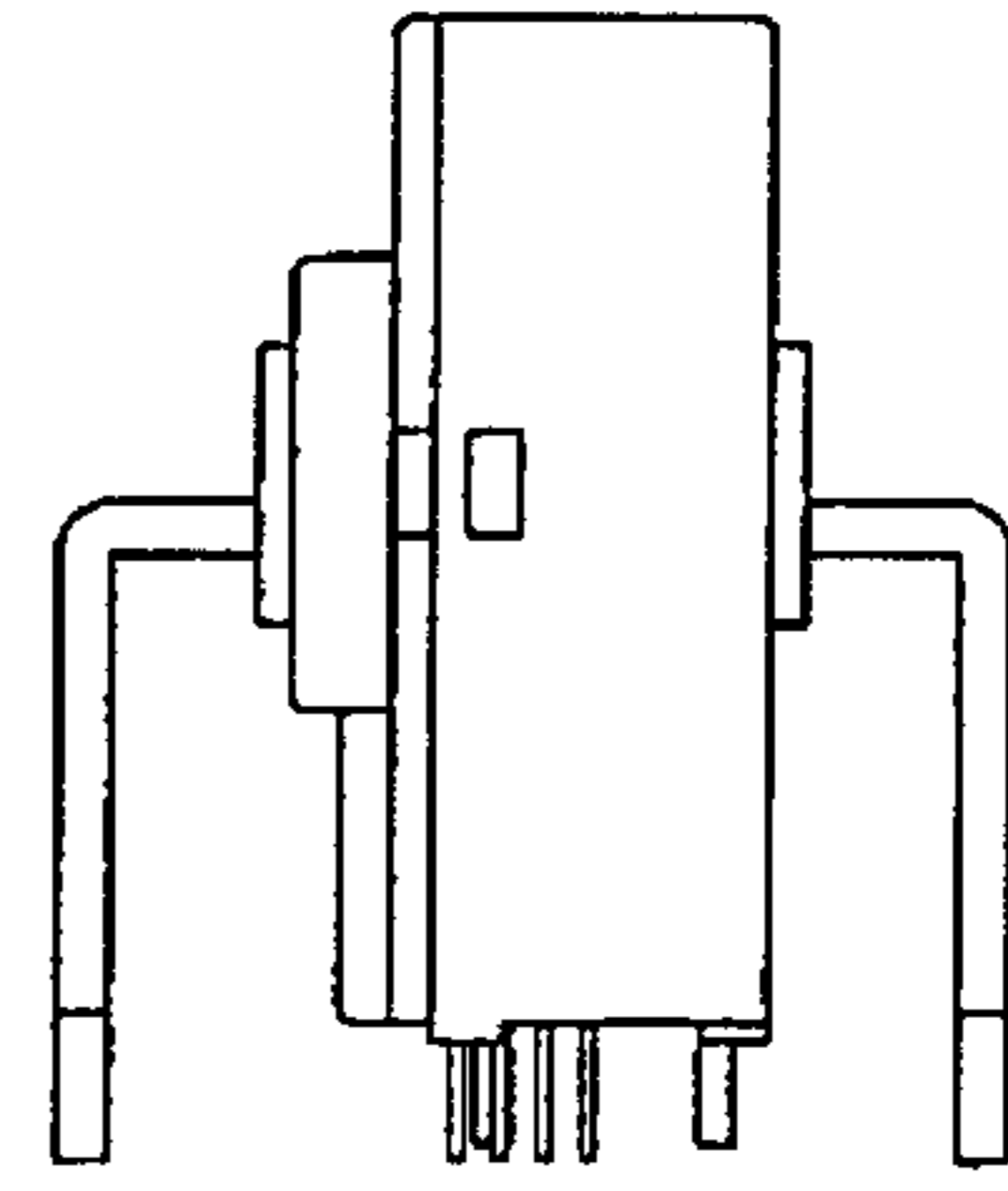
**Fig. 12**



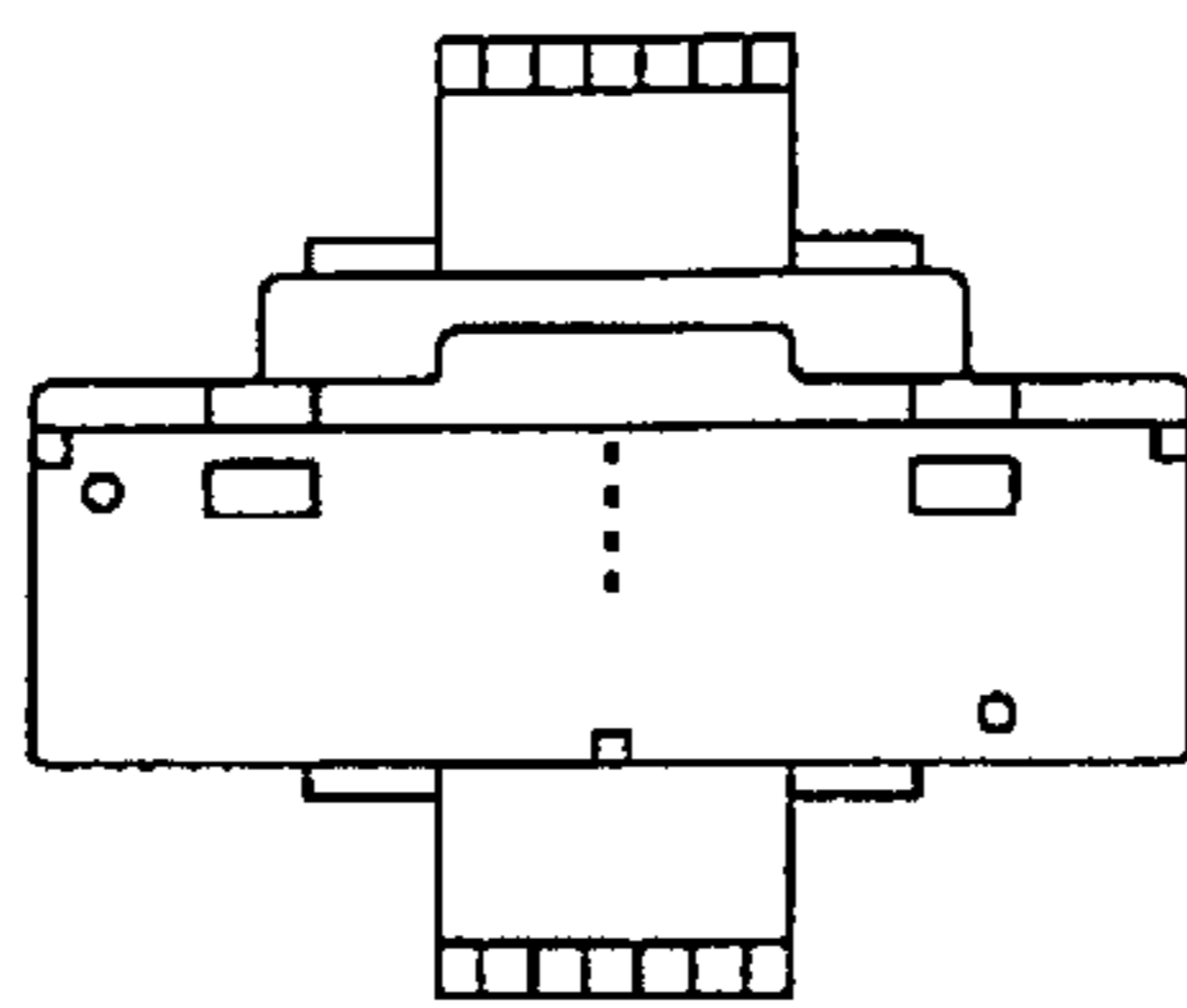
**Fig. 13**



**Fig. 14**



**Fig. 15**



**Fig. 16**