

US00D503383S

(12) **United States Design Patent** (10) **Patent No.:** **US D503,383 S**
Moriwake et al. (45) **Date of Patent:** **** Mar. 29, 2005**

(54) **ELECTRICAL CONNECTOR**

(75) Inventors: **Ryo Moriwake**, Izumiotsu (JP);
Takashi Tsutsui, Nissin (JP)

(73) Assignee: **J.S.T. Mfg. Co., Ltd.**, Osaka (JP)

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

(21) Appl. No.: **29/161,086**

(22) Filed: **May 21, 2002**

(30) **Foreign Application Priority Data**

Nov. 26, 2001	(JP)	.....	2001-034545
Nov. 26, 2001	(JP)	.....	2001-034546
Nov. 26, 2001	(JP)	.....	2001-034547
Nov. 26, 2001	(JP)	.....	2001-034548
Nov. 26, 2001	(JP)	.....	2001-034549

(51) **LOC (7) Cl.** **13-03**

(52) **U.S. Cl.** **D13/147**

(58) **Field of Search** D13/133, 146,
D13/147; 439/79, 108, 607, 609, 610, 540.1,
541.5

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,961,350	A	*	10/1999	Shiu	.....	439/607
6,203,373	B1	*	3/2001	Lin	.....	439/607
D465,765	S	*	11/2002	Zhang et al.	.....	D13/147
D465,769	S	*	11/2002	Zhang et al.	.....	D13/147
D466,084	S	*	11/2002	Zhang et al.	.....	D13/147
6,475,033	B1	*	11/2002	Zhu et al.	.....	439/607
D473,193	S	*	4/2003	Yang et al.	.....	D13/147
D478,050	S	*	8/2003	Nishio et al.	.....	D13/147

FOREIGN PATENT DOCUMENTS

TW	308519	6/1997
TW	407952	10/2000

OTHER PUBLICATIONS

CONICON, Chu Yuen Enterprise Co., Ltd.; Taipei, Taiwan;
3 pages; Japanese Patent Office public known material No.
HD12005786, received Dec. 3, 1999.

Compaq, Hewlett-Packard, Intel et al., Universal Serial Bus Specification 8 Rev. 2.0; Apr. 27, 2000; Chapter 6, pp. 85 to 117.

Taiwanese Magazine "TEEMADATA 108", published by Excel Cell Electronic Col; Ltd. Taiwan on Dec. 1, 1999 (2 pages & copy of enlarged photo).

Magazine "MBC" Merchandising & Buying Cable & Connector Products, published Mar. 2000, (2 pages and copy of enlarged photo).

* cited by examiner

Primary Examiner—Philip S. Hyder

Assistant Examiner—Selina Sikder

(74) *Attorney, Agent, or Firm*—W. F. Fasse; W. G. Fasse

(57) **CLAIM**

We claim the ornamental design for an electrical connector, as shown and described.

DESCRIPTION

FIG. 1 is a front elevation view of an electrical connector showing our new design;

FIG. 2 is a rear elevation view of the electrical connector;

FIG. 3 is a top plan view of the electrical connector;

FIG. 4 is a bottom plan view of the electrical connector;

FIG. 5 is a left side elevation view of the electrical connector;

FIG. 6 is a right side elevation view of the electrical connector;

FIG. 7 is a perspective view of the front, top and right side of the electrical connector; and,

FIG. 8 is a reduced top plan view of the electrical connector in a connecting condition. The printed circuit board and the counterpart electrical connector are drawn in broken lines for illustrative purposes only and form no part of the claimed design.

1 Claim, 4 Drawing Sheets

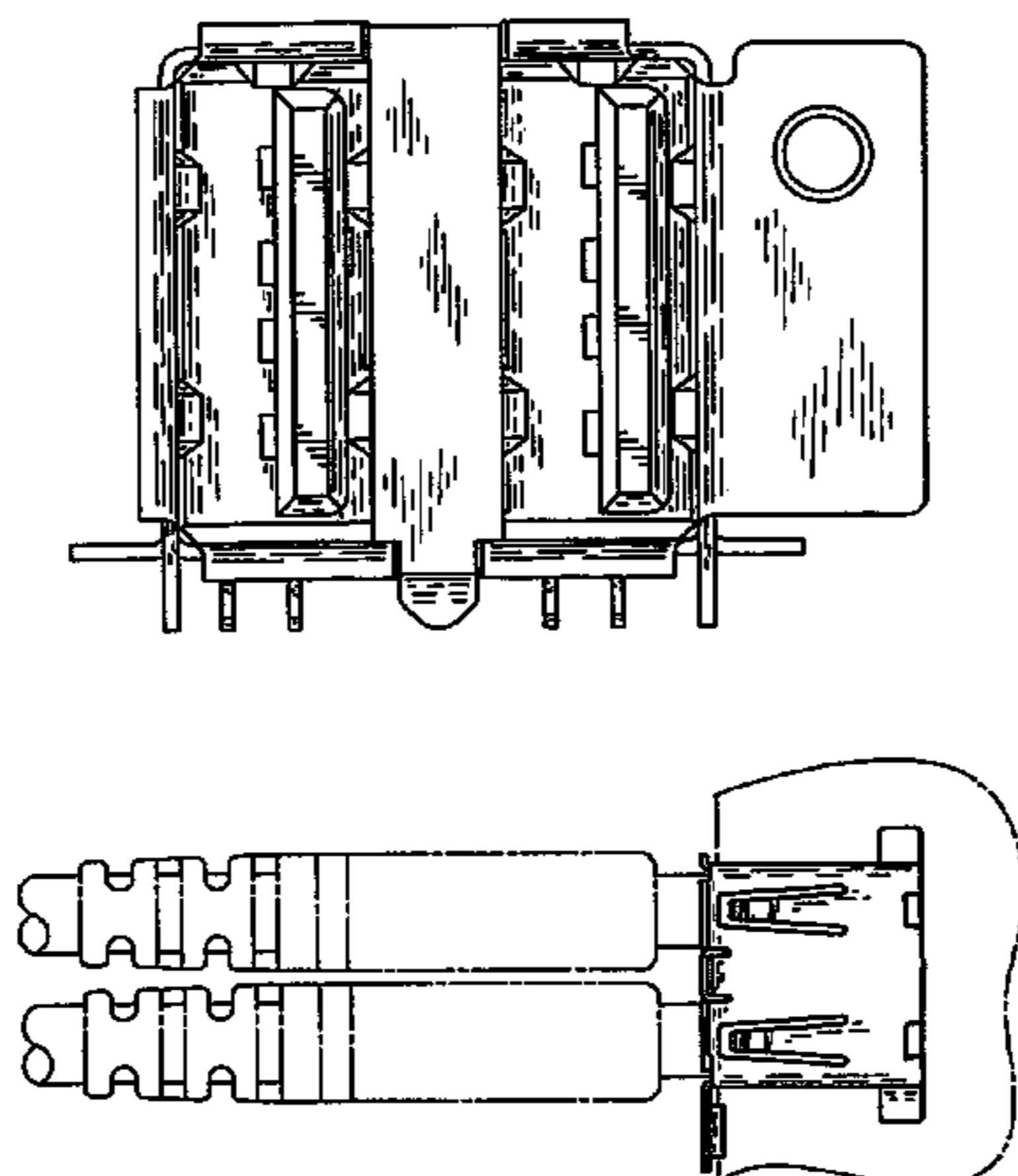


FIG. 1

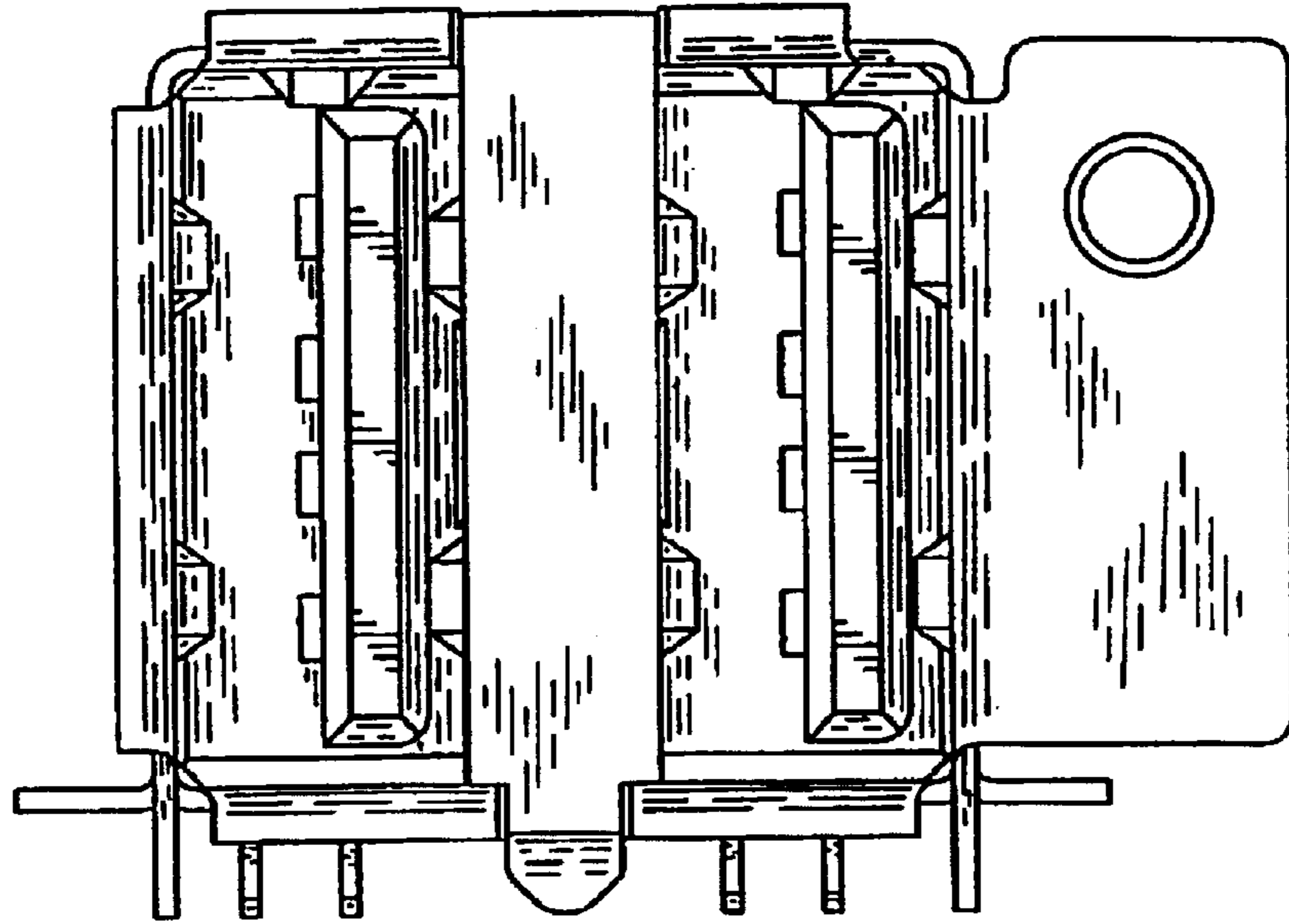


FIG. 2

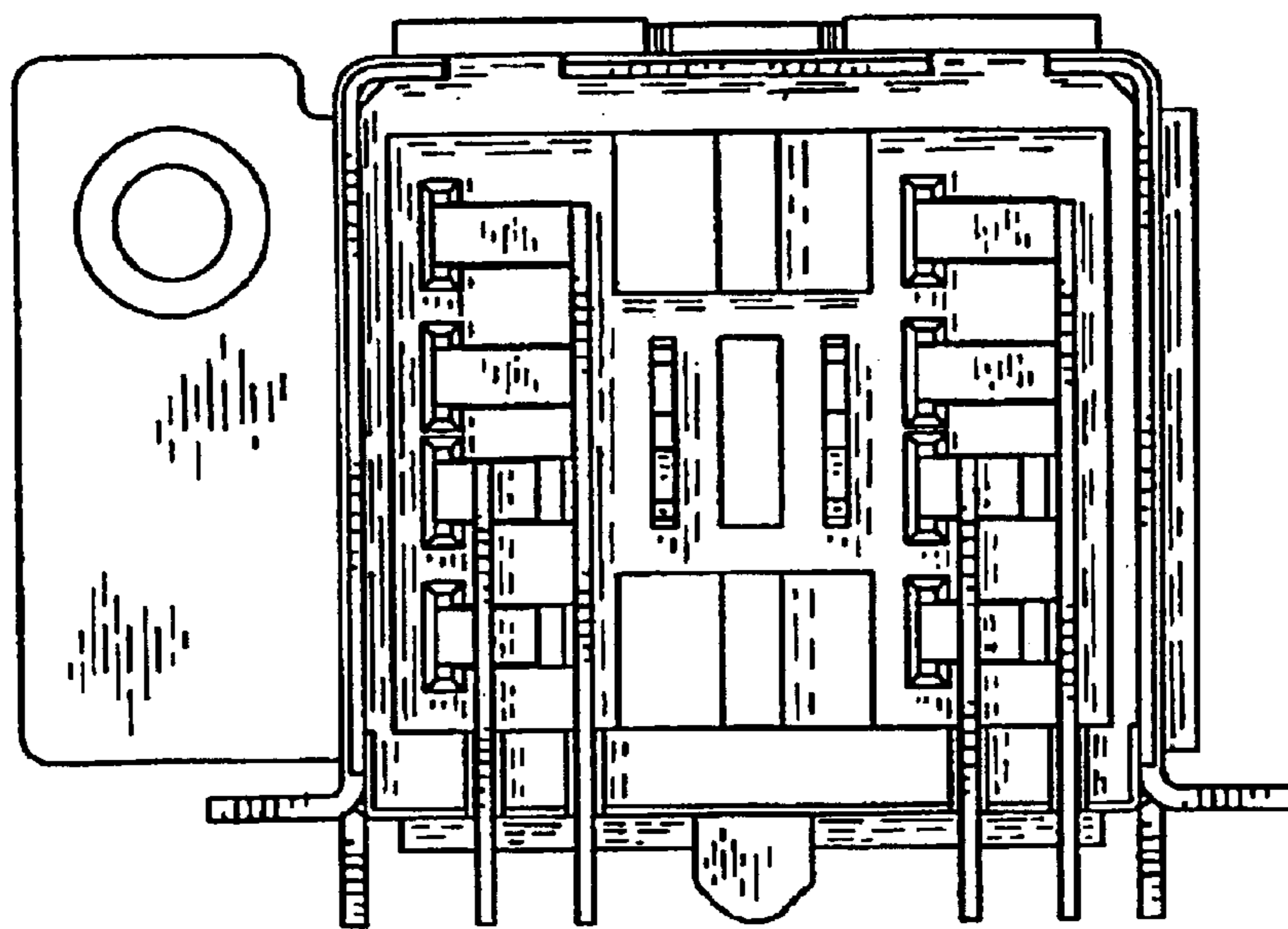


FIG. 3

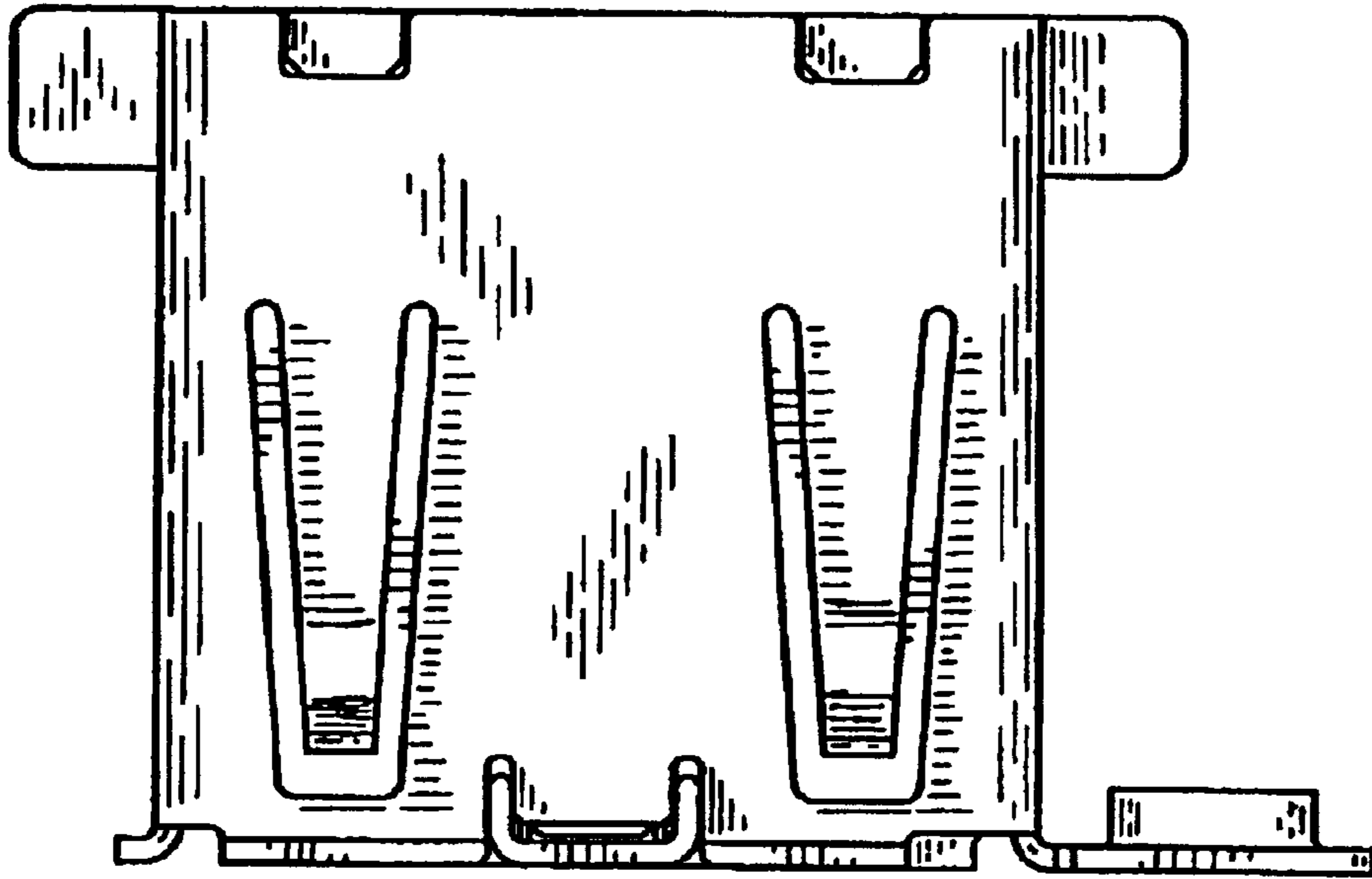


FIG. 4

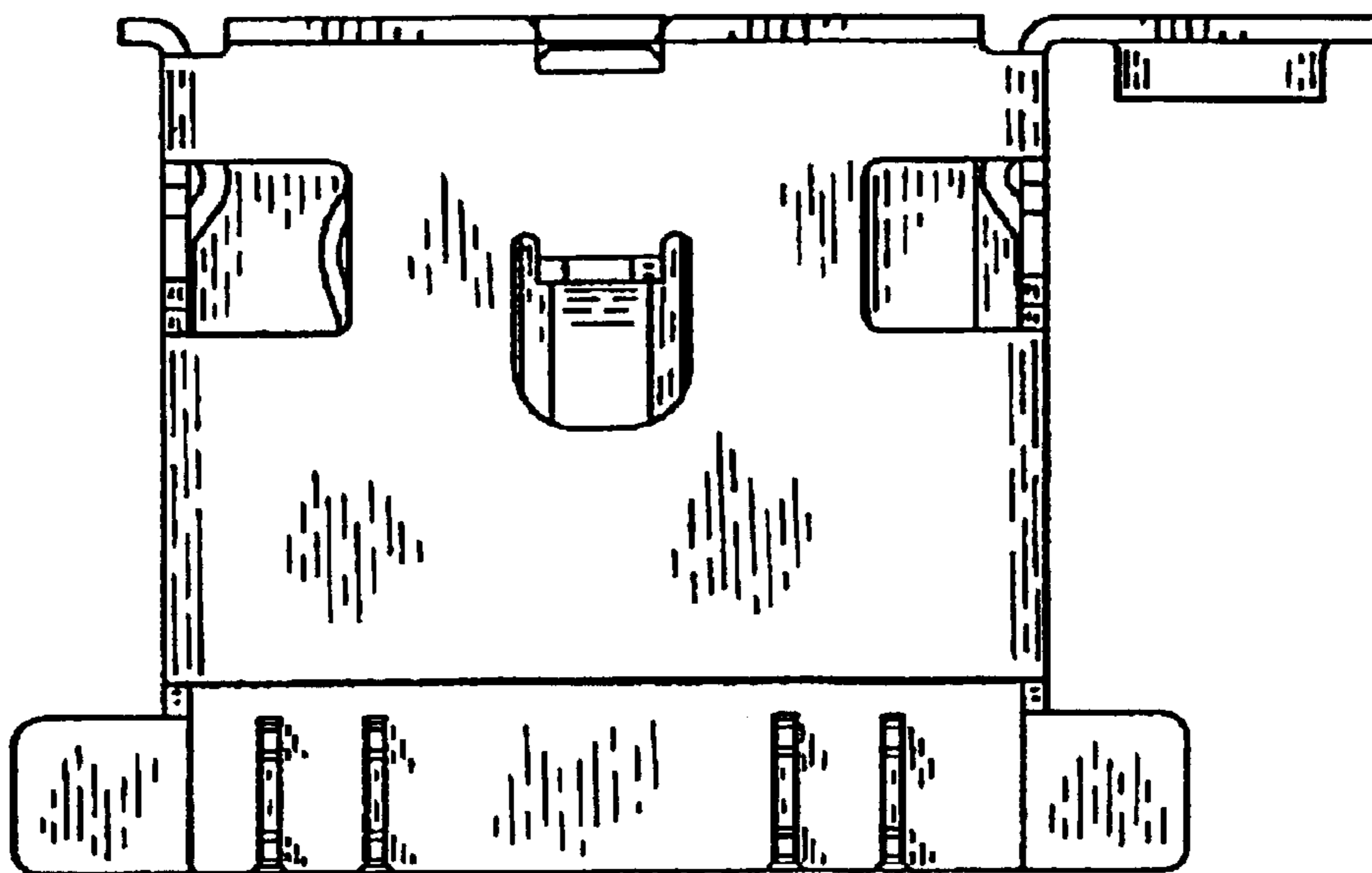


FIG. 5

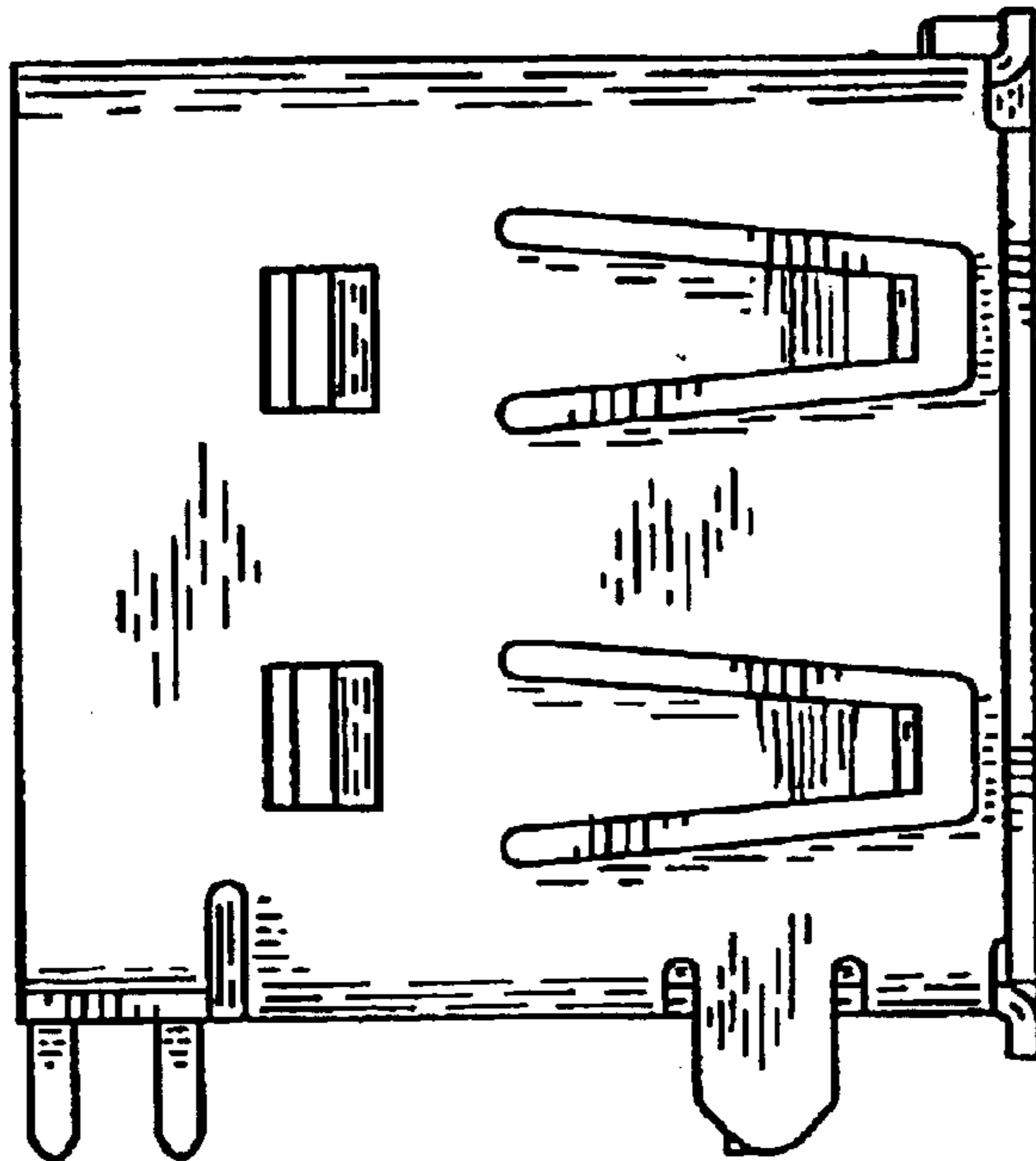


FIG. 6

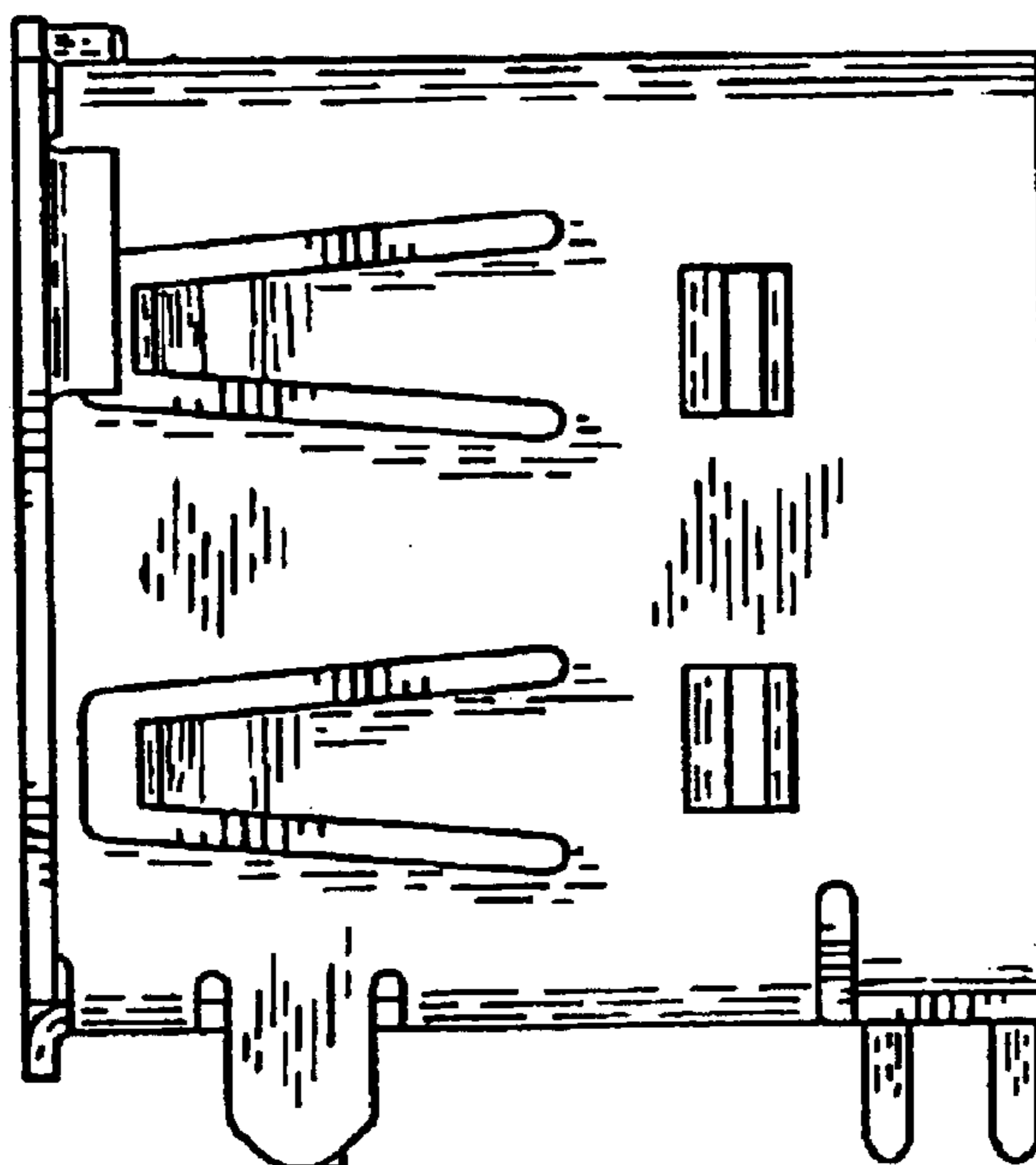


FIG. 7

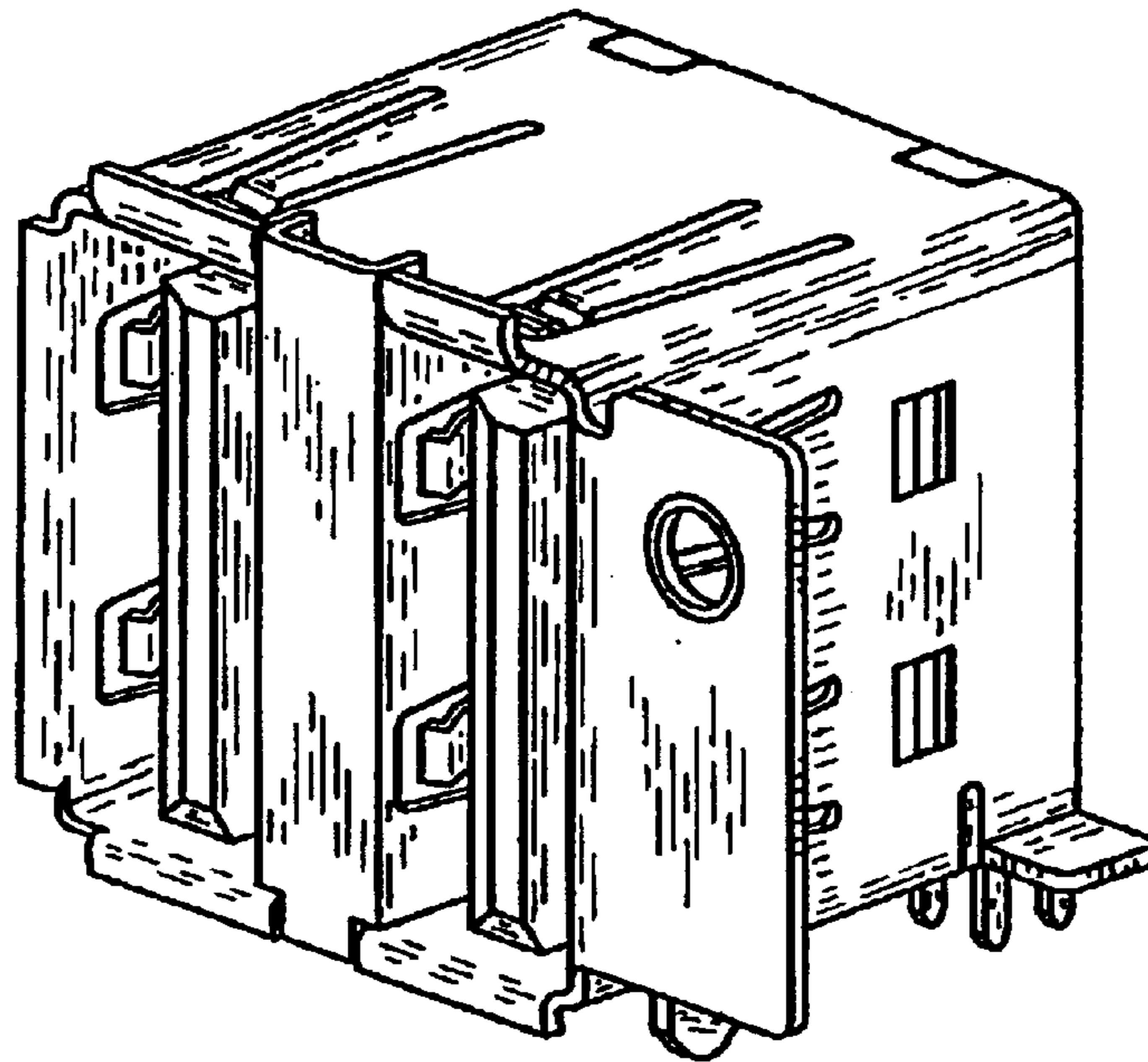


FIG. 8

