



US00D804347S

(12) **United States Design Patent** (10) **Patent No.:** **US D804,347 S**
Satoh et al. (45) **Date of Patent:** **** Dec. 5, 2017**

(54) **SURFACE MOUNTED PIEZOELECTRIC
SOUNDER**

(71) Applicant: **TDK Corporation**, Minato-ku, Tokyo
(JP)

(72) Inventors: **Akira Satoh**, Tokyo (JP); **Kaoru
Kijima**, Tokyo (JP)

(73) Assignee: **TDK Corporation**, Tokyo (JP)

(**) Term: **15 Years**

(21) Appl. No.: **29/557,332**

(22) Filed: **Mar. 8, 2016**

(30) **Foreign Application Priority Data**

Sep. 10, 2015 (JP) 2015-020138

(51) **LOC (10) Cl.** **10-05**

(52) **U.S. Cl.**
USPC **D10/116.1**

(58) **Field of Classification Search**

USPC D10/75, 104.1, 106.1-106.9, 116.1, 118,
D10/118.2, 119.1, 121, 125, 126, 132;
D8/401; D14/159; D13/158, 184
CPC G08B 15/00; G08B 17/06; G08B 17/10;
G08B 17/103; G08B 17/107; G08B
21/12; G08B 21/22; H04M 11/02; H04M
11/025; H04N 7/186

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D258,577 S * 3/1981 Bottner D10/104.1
D294,808 S * 3/1988 Zeigner D10/116.1
D350,300 S * 9/1994 Browning D10/106.2

D373,546 S * 9/1996 Imahori D10/116.1
D378,746 S * 4/1997 Imahori D10/116.1
D401,179 S * 11/1998 Sone D10/116.1
D408,311 S * 4/1999 Sone D10/116.1
D411,126 S * 6/1999 Imahori D10/116.1
D452,661 S * 1/2002 Nishimuro D10/116.1
D453,119 S * 1/2002 Tsuchikiri D10/116.1
D572,158 S * 7/2008 Radecke D10/75
D580,096 S * 11/2008 Hara D27/141
D757,538 S * 5/2016 Tam D9/432

FOREIGN PATENT DOCUMENTS

JP 1246802 S 8/2005

* cited by examiner

Primary Examiner — George D. Kirschbaum

Assistant Examiner — Joseph J Kukella

(74) *Attorney, Agent, or Firm* — Arent Fox LLP

(57) **CLAIM**

The ornamental design for a surface mounted piezoelectric
sounder, as shown and described.

DESCRIPTION

FIG. 1 is a front view of a surface mounted piezoelectric
sounder showing our new design;
FIG. 2 is a back view of the design shown in FIG. 1;
FIG. 3 is a top view of the design shown in FIG. 1;
FIG. 4 is a bottom view of the design shown in FIG. 1;
FIG. 5 is a right side view of the design shown in FIG. 1;
FIG. 6 is a left side view of the design shown in FIG. 1;
FIG. 7 is a cross-sectional back view of line 7-7 shown in
FIG. 3; and,
FIG. 8 is a perspective view of the design shown in FIG. 1.
In the drawings, the broken lines depict environmental
subject matter only and form no part of the claimed design.

1 Claim, 8 Drawing Sheets

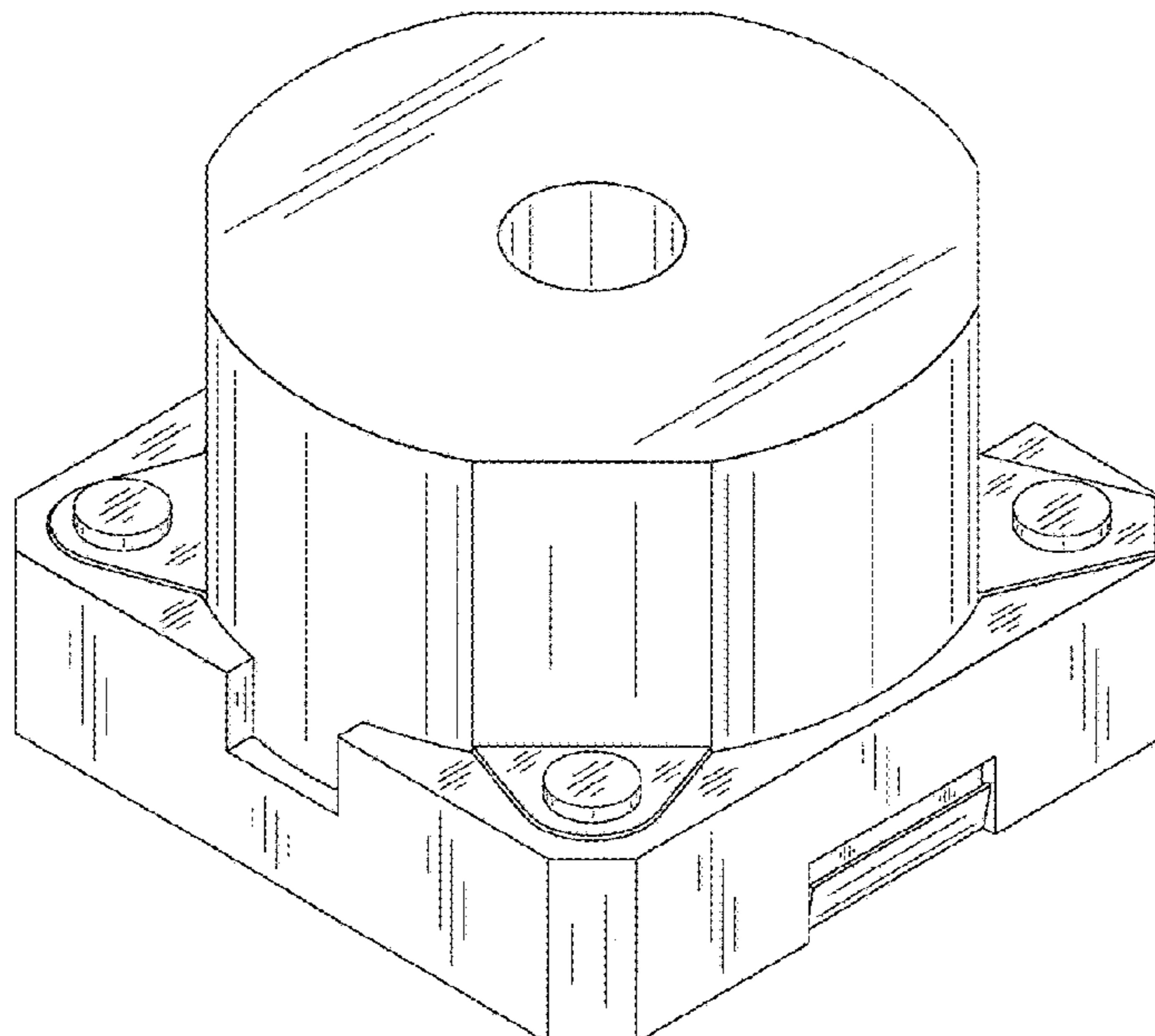


Fig. 1

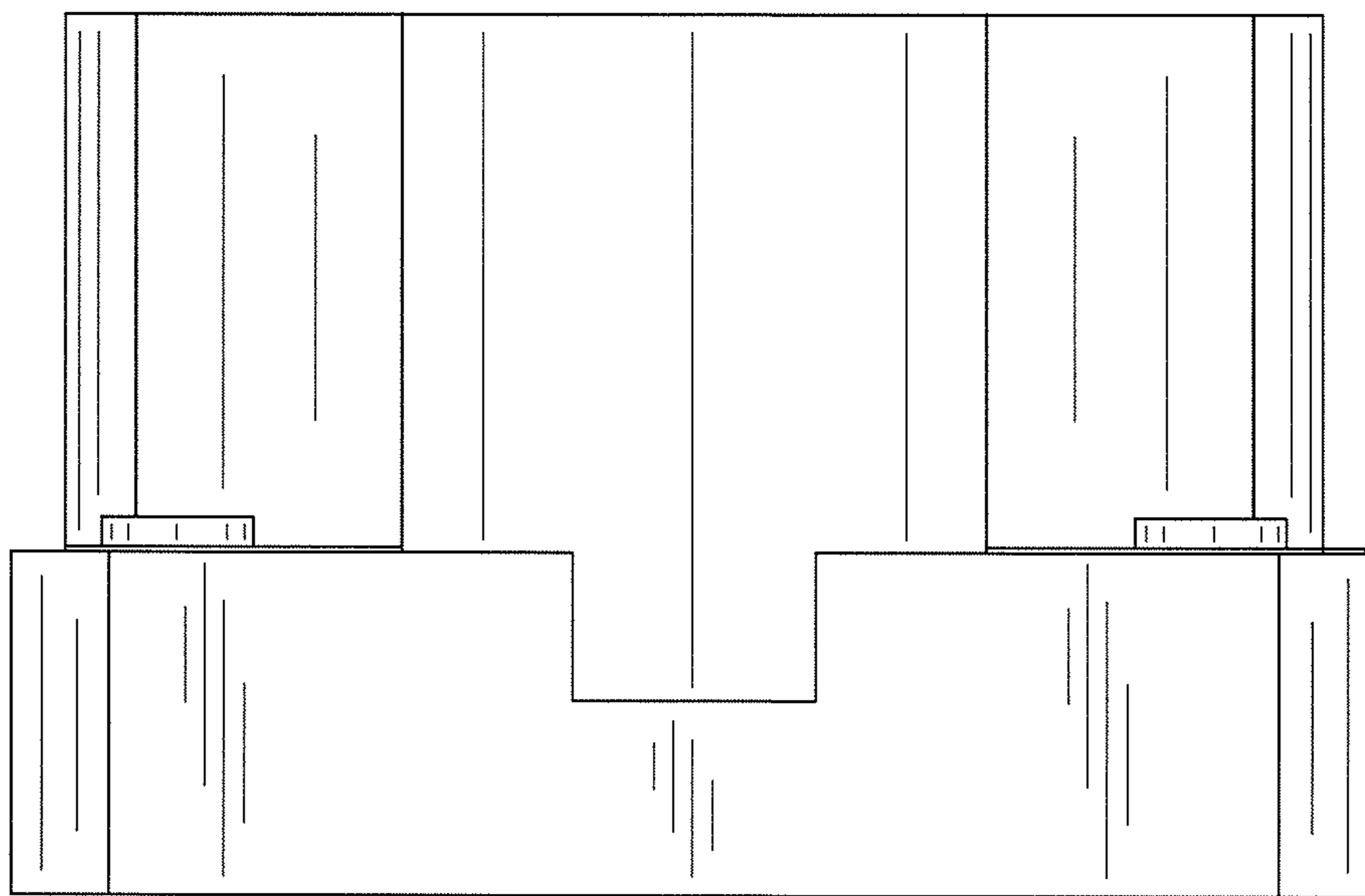


Fig. 2

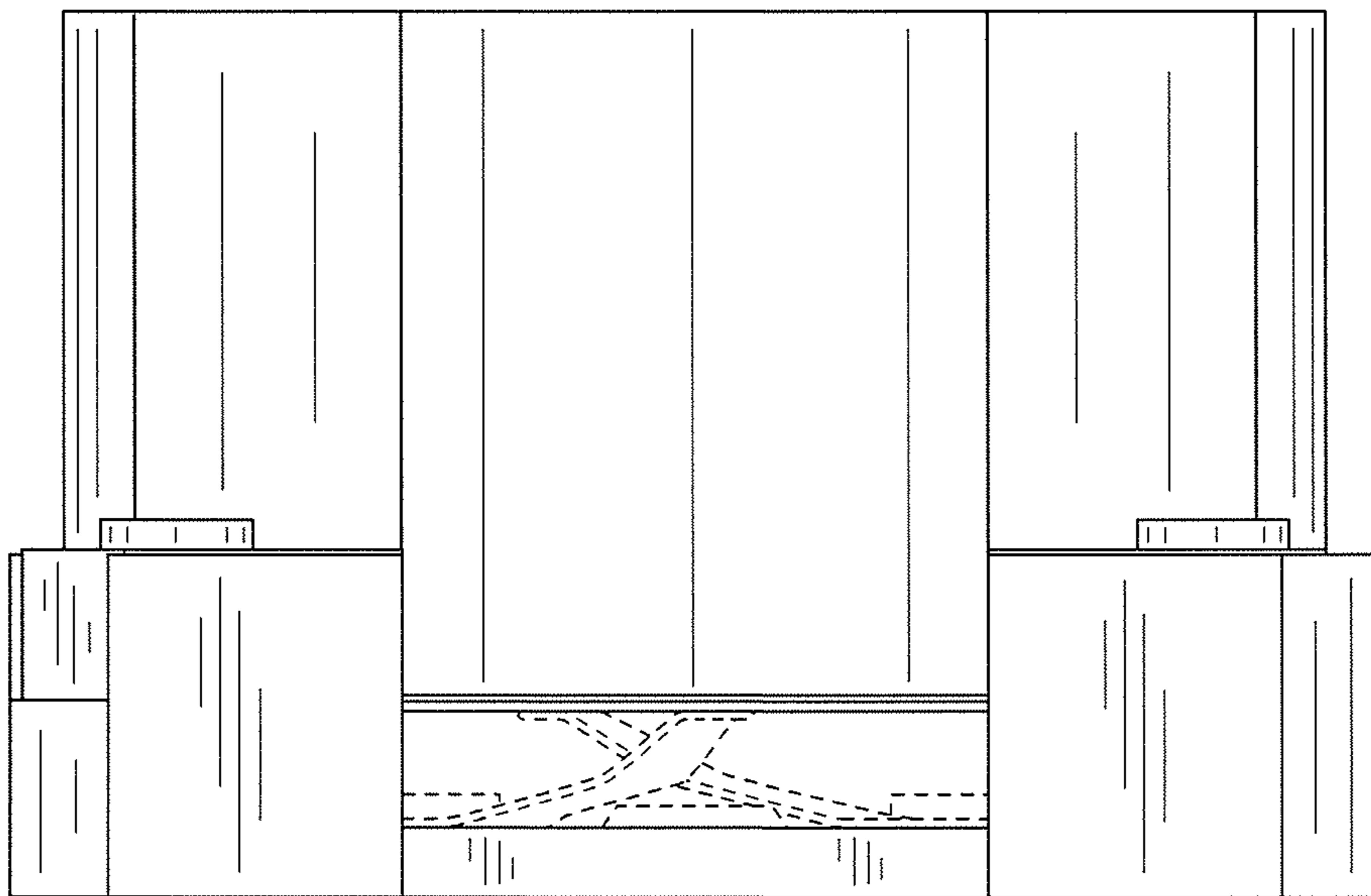


Fig. 3

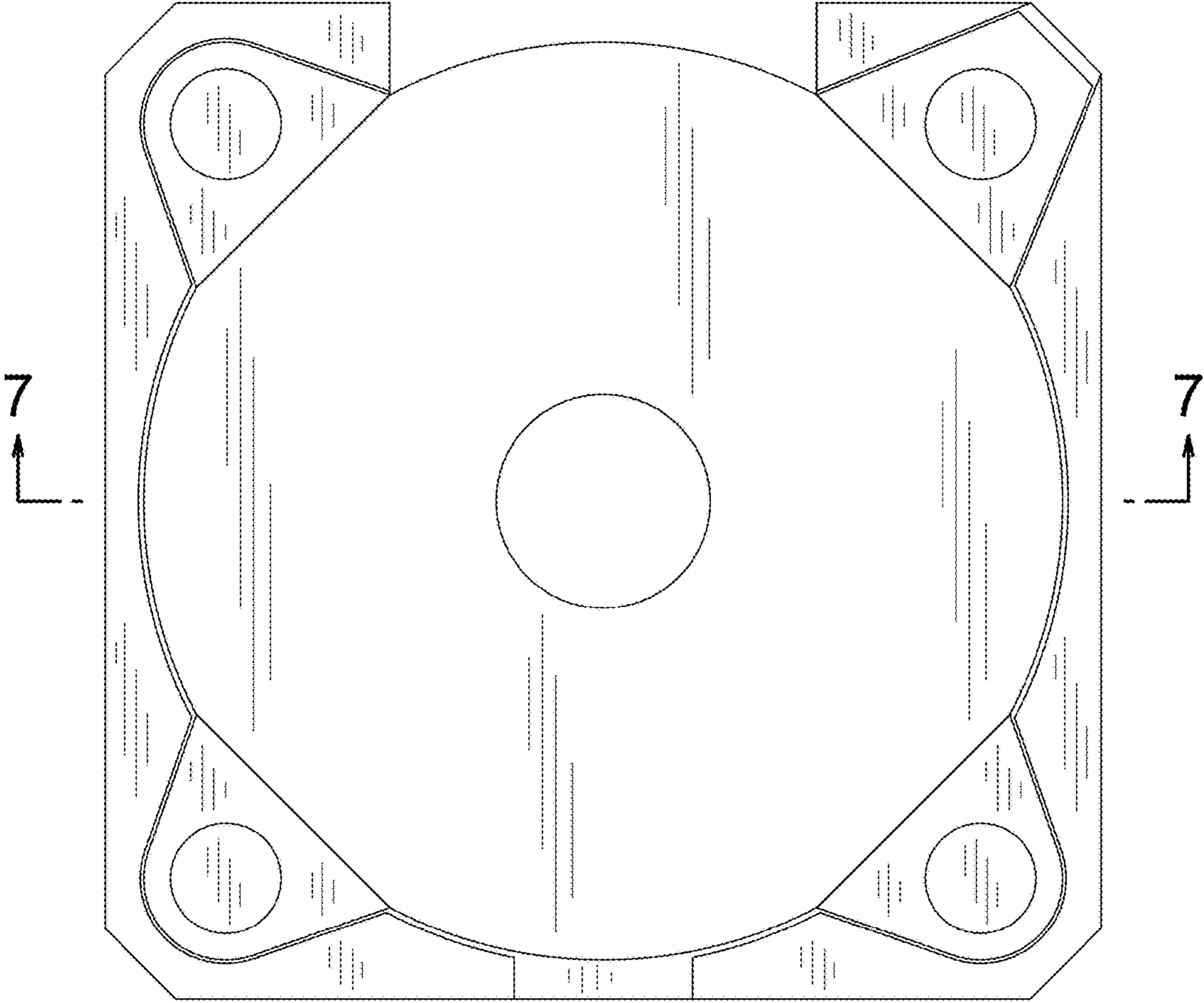


Fig. 4

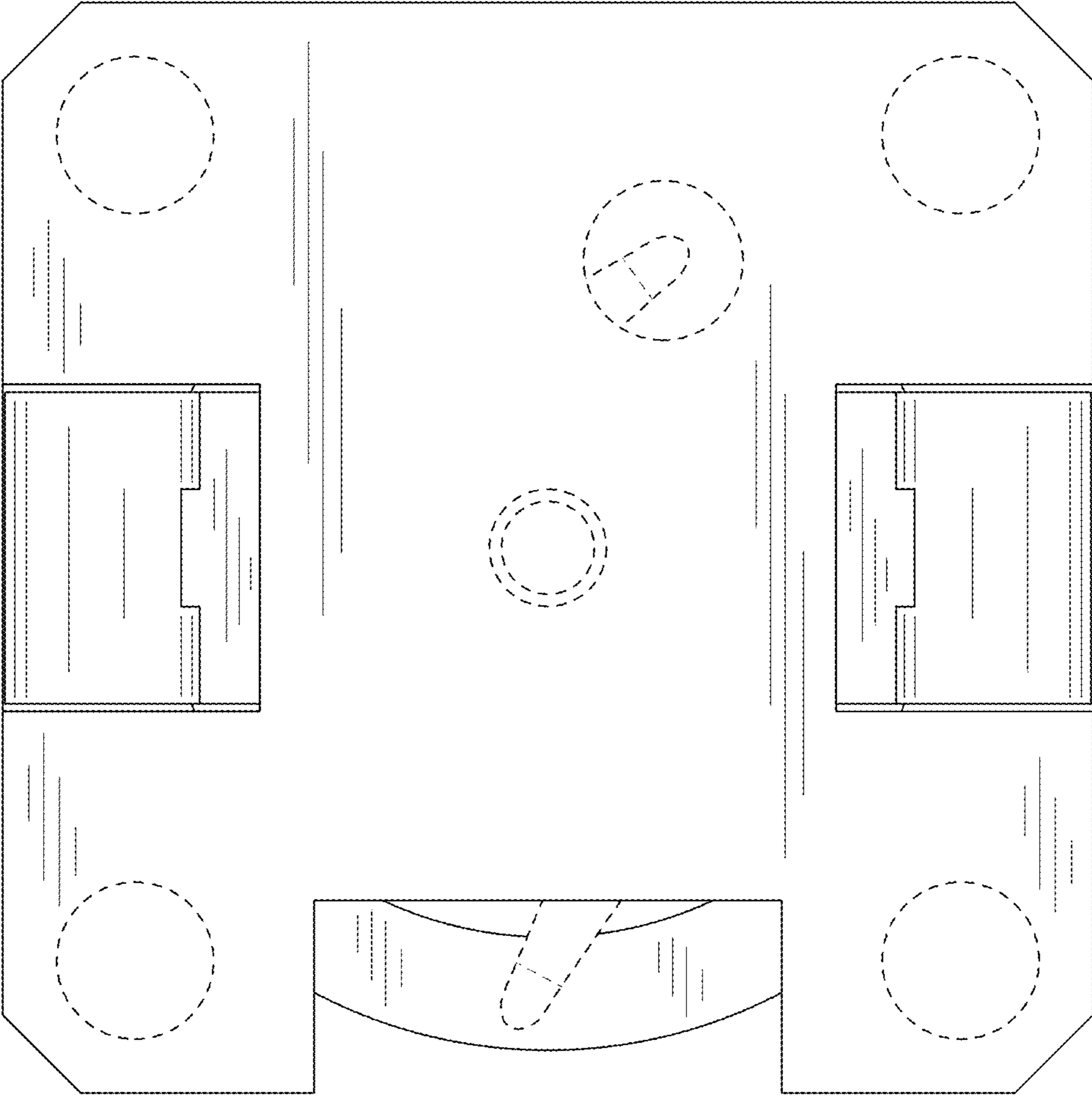


Fig. 5

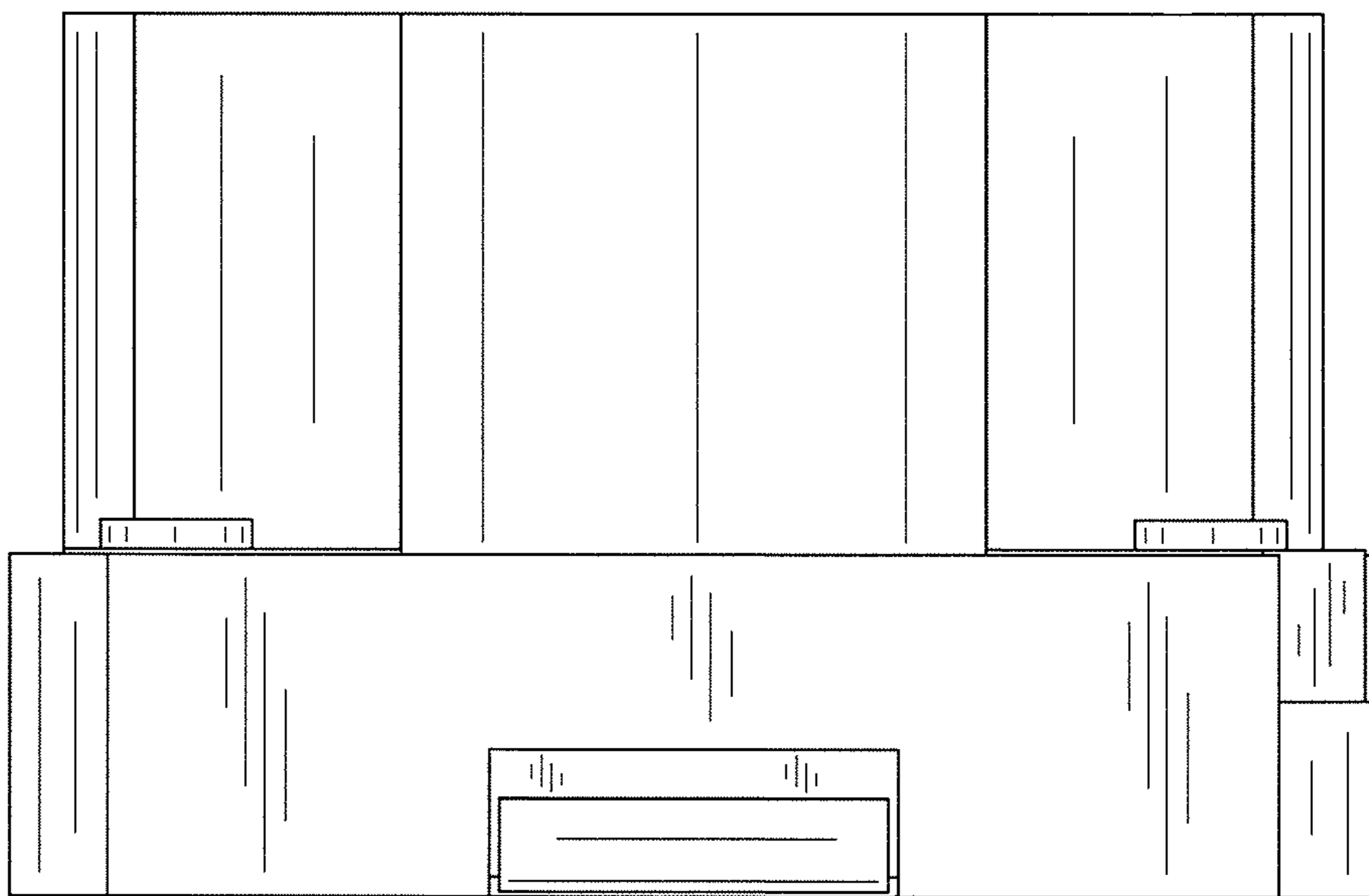


Fig. 6

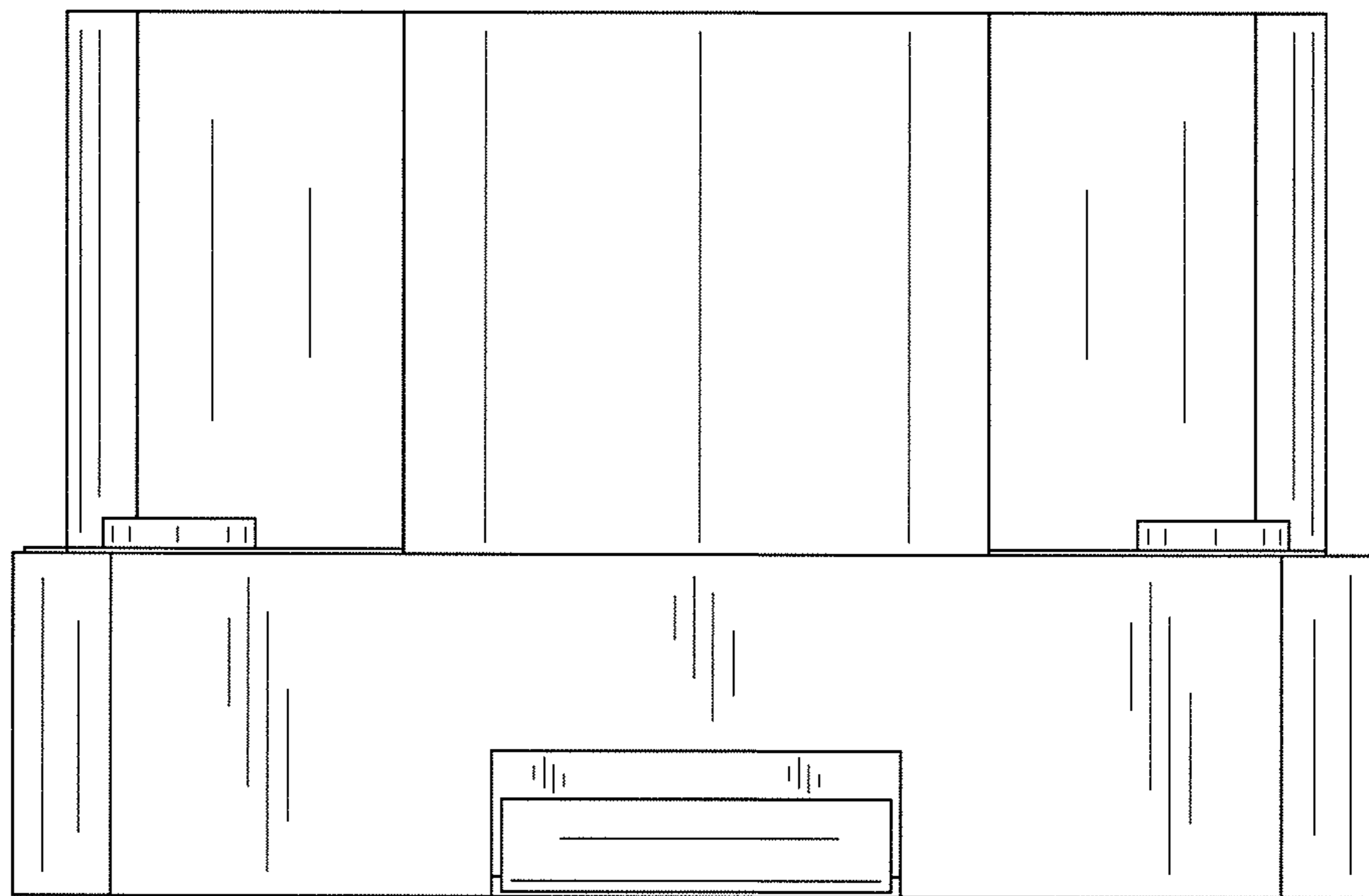


Fig. 7

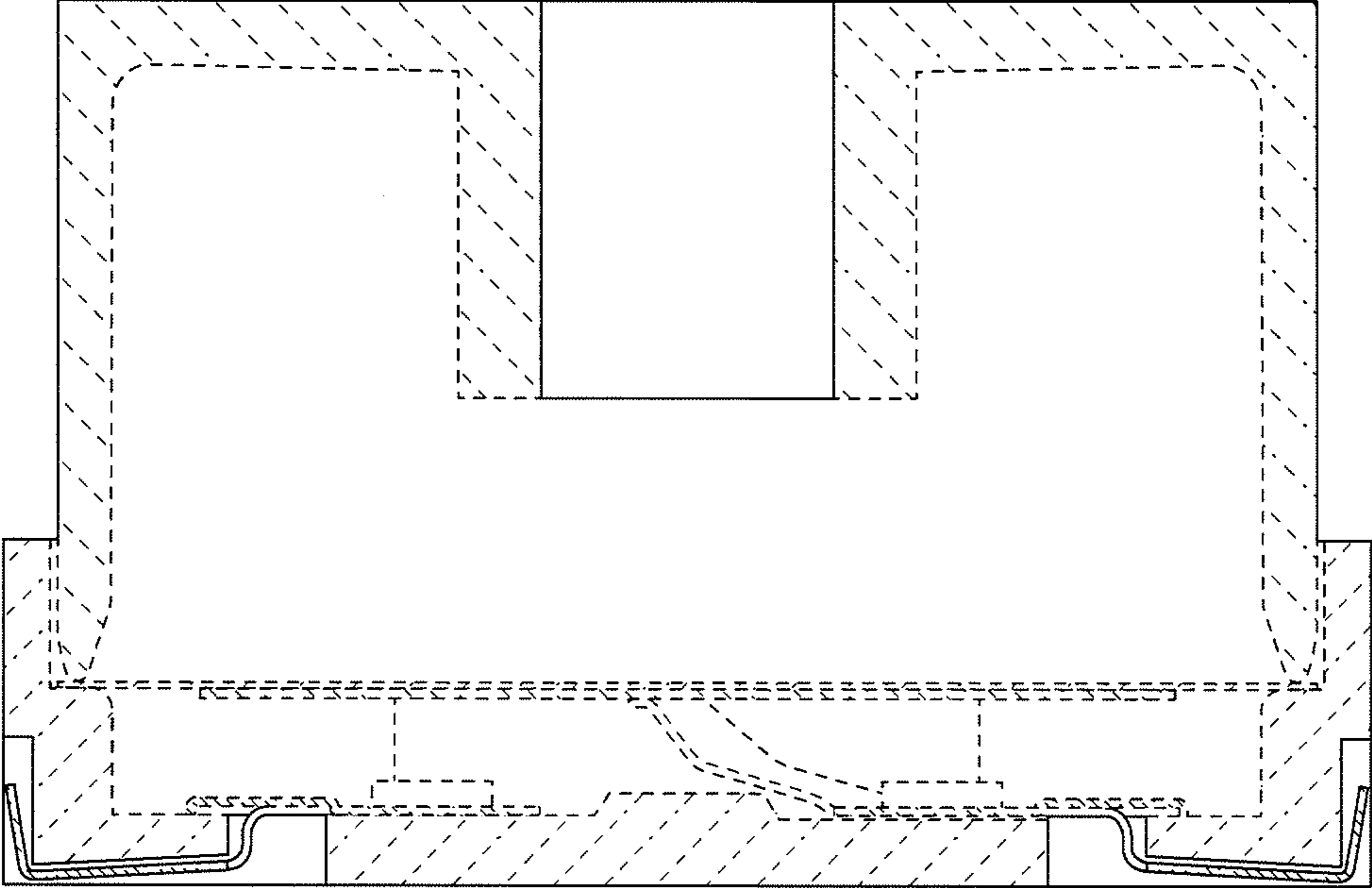


Fig. 8

