



US00D436346S

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

(10) **Patent No.:** **US D436,346 S**
(45) **Date of Patent:** **** Jan. 16, 2001**

(54) **ELECTRONIC CONTROL APPARATUS**

434 926 7/1991 (EP) .
0 720 077 7/1996 (EP) .
89/03085 4/1989 (WO) .

(75) Inventors: **Frank Schneider**, Pforzheim; **Tino Zink**, Neulingen; **Klaus Limberg**, Pforzheim, all of (DE)

OTHER PUBLICATIONS

New Equipment Digest, Jan., 1990 p. 84 (Environmental monitor).*

(73) Assignee: **Grässlin KG**, St. Georgen (DE)

* cited by examiner

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

(21) Appl. No.: **29/094,872**

Primary Examiner—Adir Aronovich
(74) *Attorney, Agent, or Firm*—Foley & Lardner

(22) Filed: **Oct. 13, 1998**

(57) **CLAIM**

Related U.S. Application Data

The ornamental design for an electronic control apparatus, as shown and described.

(63) Continuation-in-part of application No. 29/087,450, filed on May 4, 1998.

DESCRIPTION

(30) **Foreign Application Priority Data**

FIG. 1 is a perspective view of an electronic control apparatus;

Nov. 3, 1997 (DE) M 97 10 109

FIG. 2 is a left side elevation view thereof;

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

FIG. 3 is a top plan view thereof;

(52) **U.S. Cl.** **D13/162**

FIG. 4 is a front elevation view thereof;

(58) **Field of Search** D10/49-52; D13/162,

FIG. 5 is a bottom plan view thereof;

D13/164, 184; 165/217, 238; 236/46 R

FIG. 6 is a right side elevation view thereof;

(56) **References Cited**

FIG. 7 is a back elevation view thereof;

U.S. PATENT DOCUMENTS

FIG. 8 is a perspective view of a first alternate arrangement for our electronic control apparatus;

- D. 242,230 * 11/1976 Manecke et al. D10/50
- D. 260,004 * 7/1981 Ohhasi et al. D10/50
- D. 325,902 * 5/1992 Hudson et al. D13/184
- D. 355,136 2/1995 Highman et al. D10/50
- 4,316,256 * 2/1982 Hendricks et al. 236/46 R
- 4,388,692 6/1983 Jones et al. 236/46 R
- 4,431,134 2/1984 Hendricks et al. 236/46 R
- 4,819,714 * 4/1989 Otsuka et al. 165/217
- 4,948,044 8/1990 Cacciatore .

FIG. 9 is a right side elevation view thereof, wherein the left side elevational view is a mirror image of the right side elevation view and the top, front, bottom and back views are the same as those shown in FIGS. 3, 4, 5 and 7, respectively;

FOREIGN PATENT DOCUMENTS

- 296 00 654 U 4/1996 (DE) .
- 195 11 352 10/1996 (DE) .
- 296 22 062 U 4/1997 (DE) .
- 196 15 840 10/1997 (DE) .

FIG. 10 is a perspective view of a second alternate arrangement for our electronic control apparatus;

FIG. 11 is a left side elevation view thereof;

FIG. 12 is a top plan view thereof;

FIG. 13 is a bottom plan view thereof; and,

FIG. 14 is a right side elevation view thereof, wherein the front and back views are the same as those shown in FIGS. 4 and 7, respectively.

1 Claim, 6 Drawing Sheets

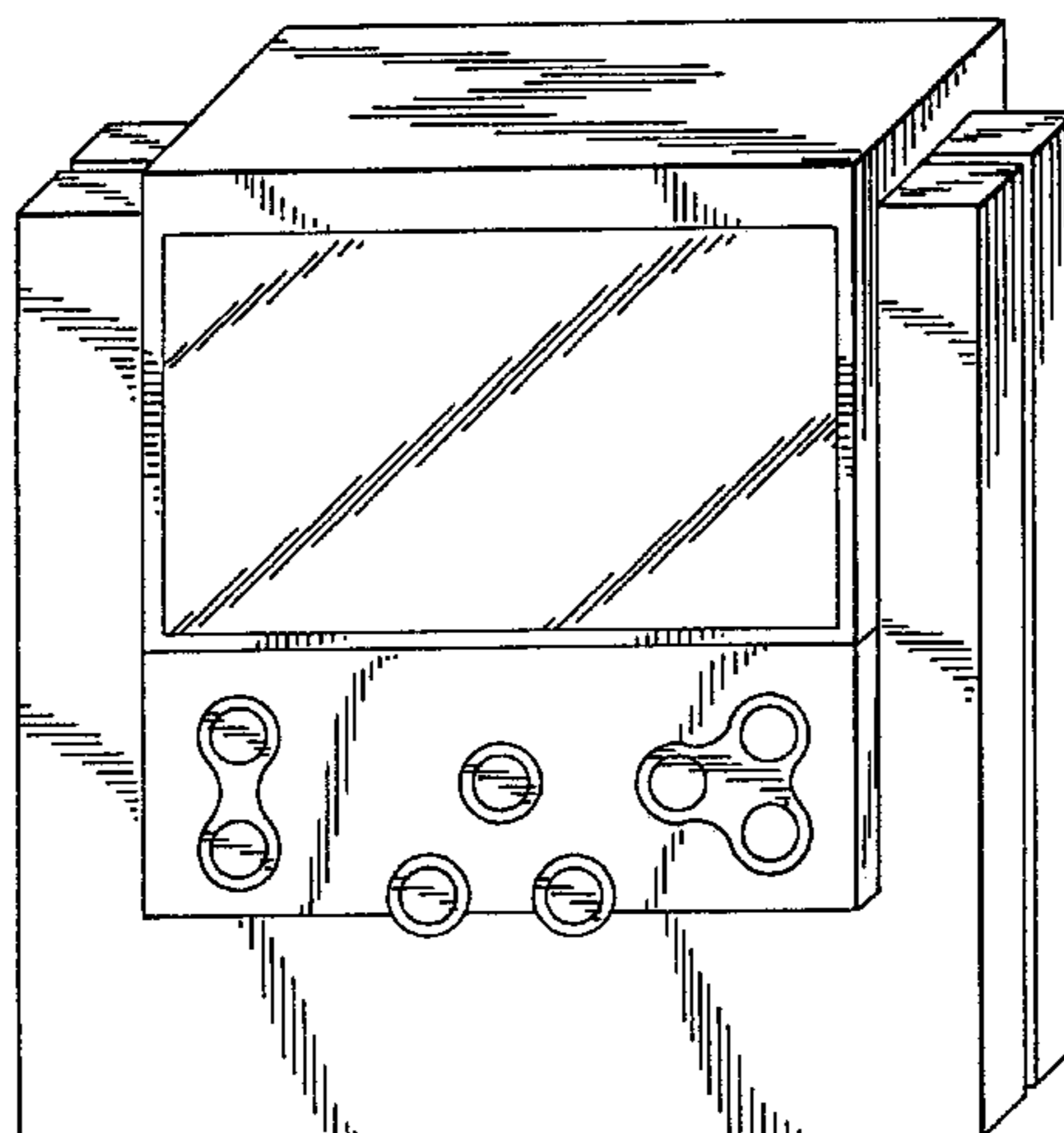


FIG. 1

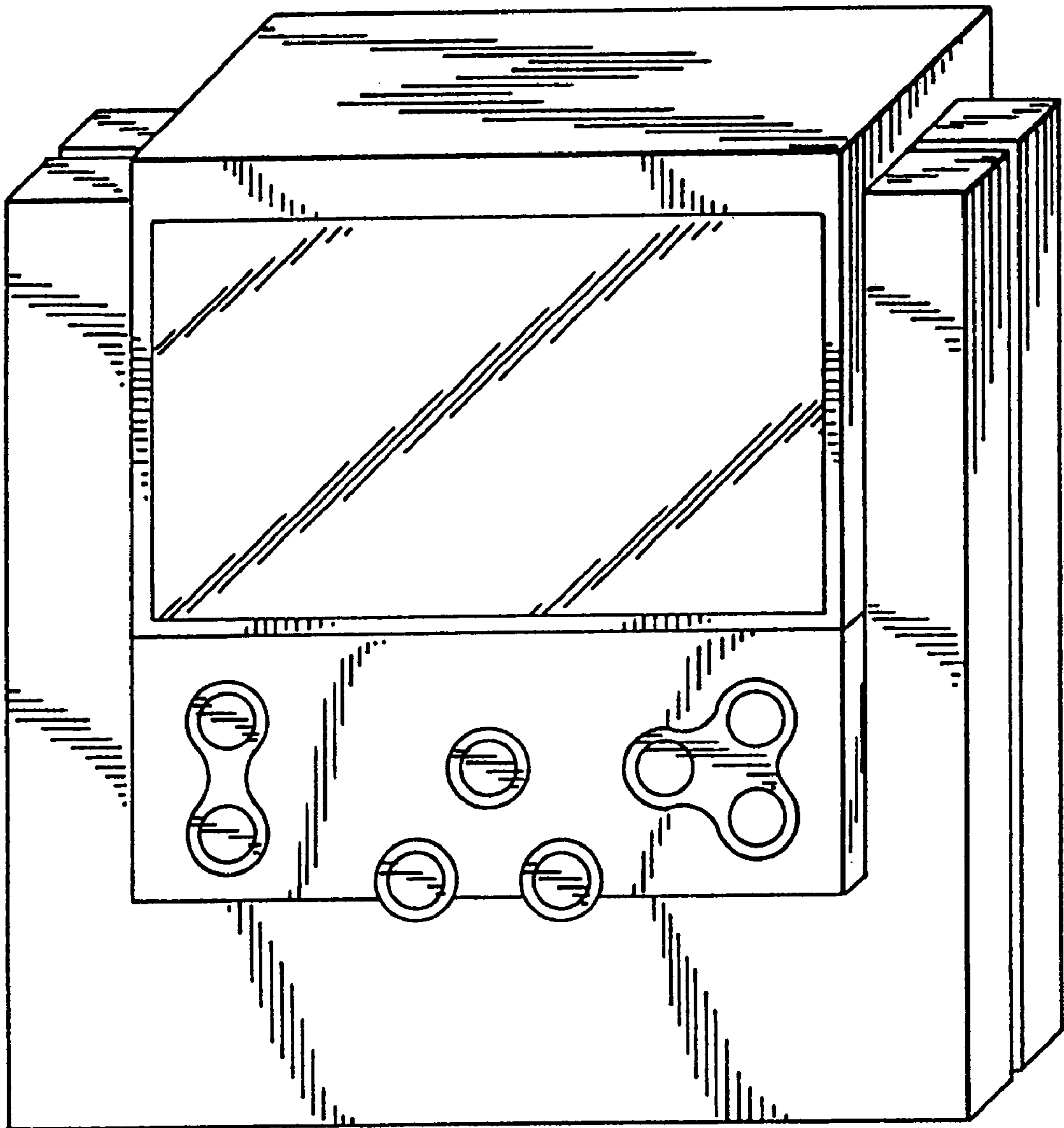


FIG. 3

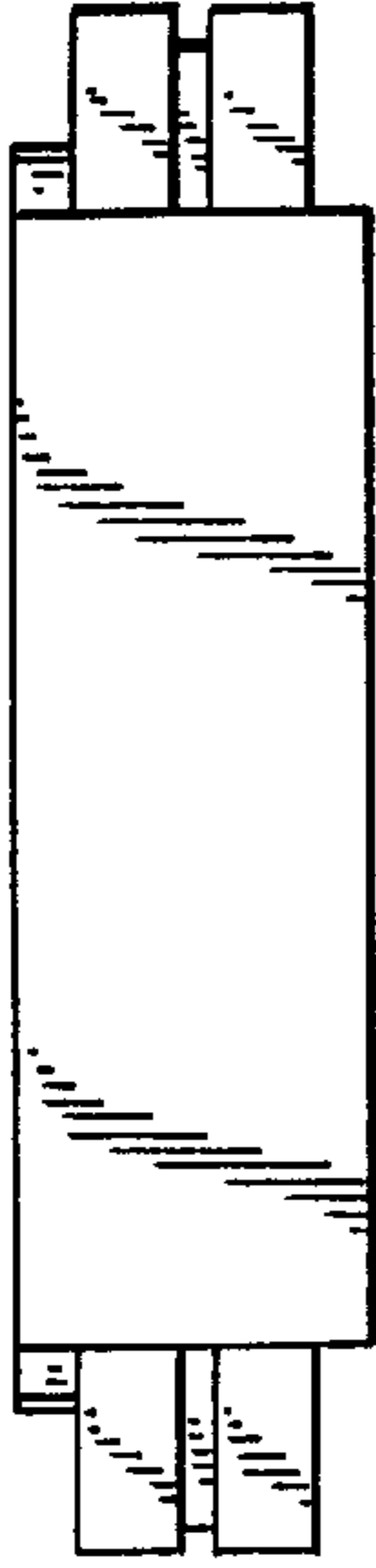


FIG. 2

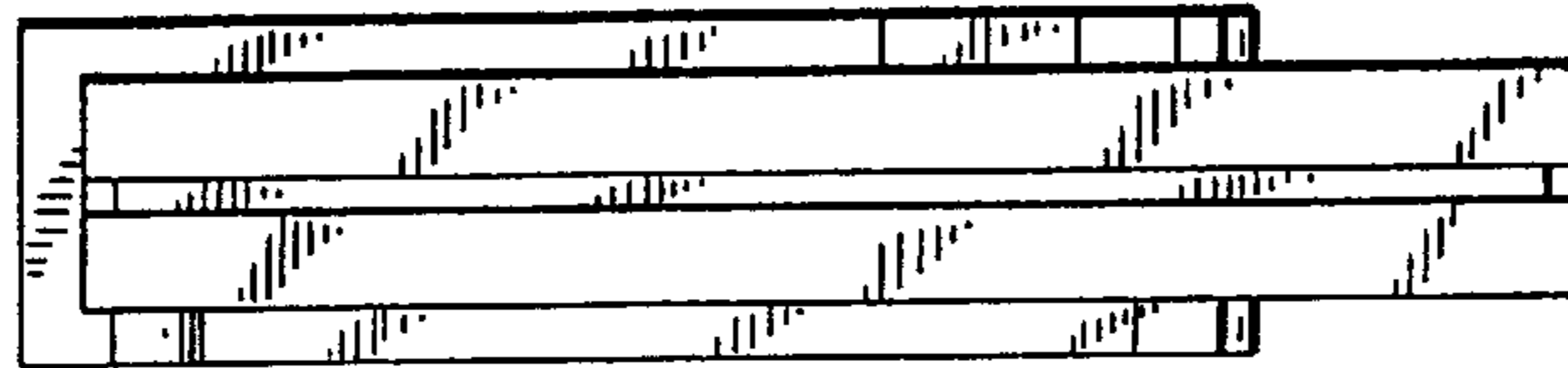


FIG. 4

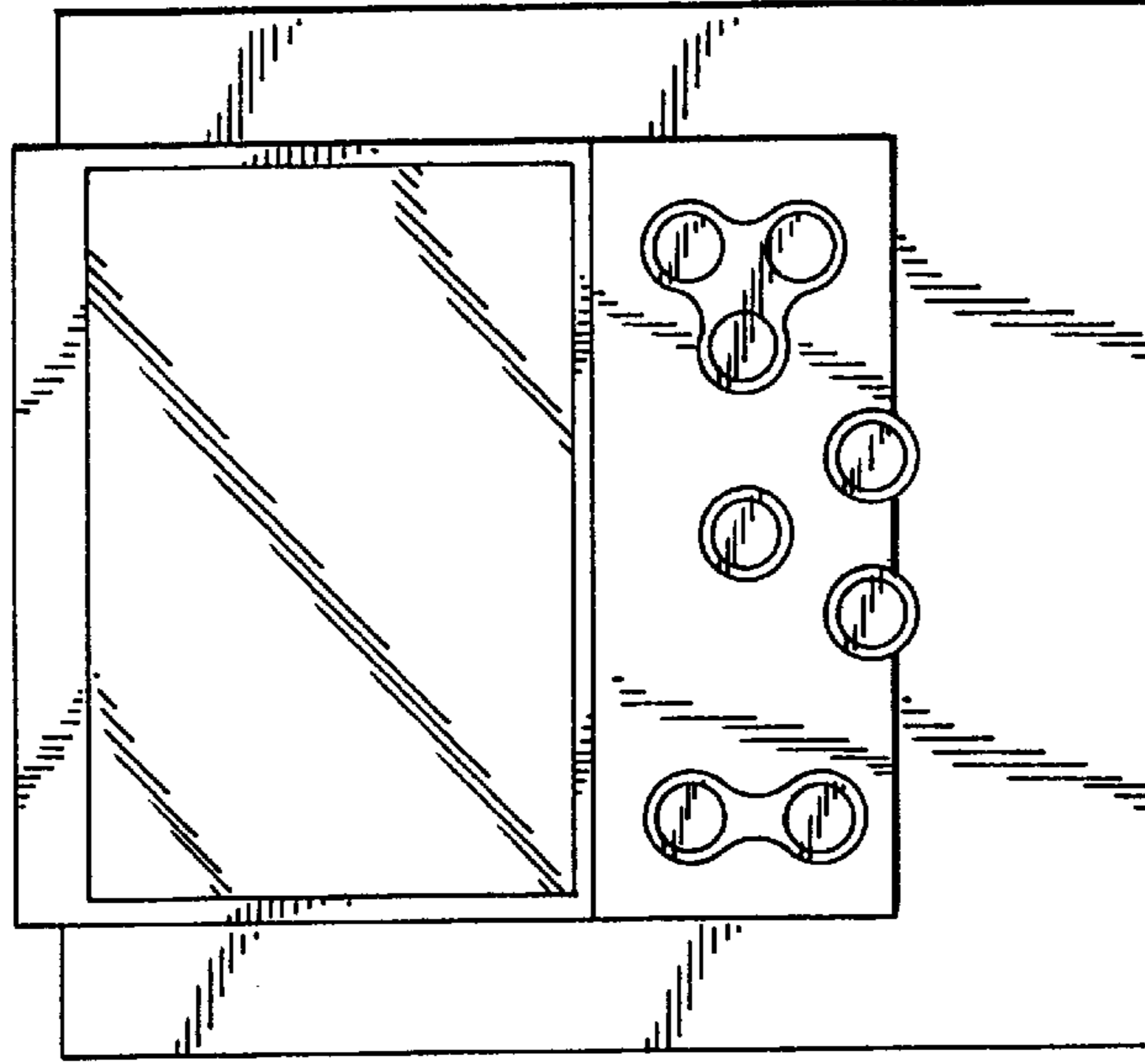


FIG. 6

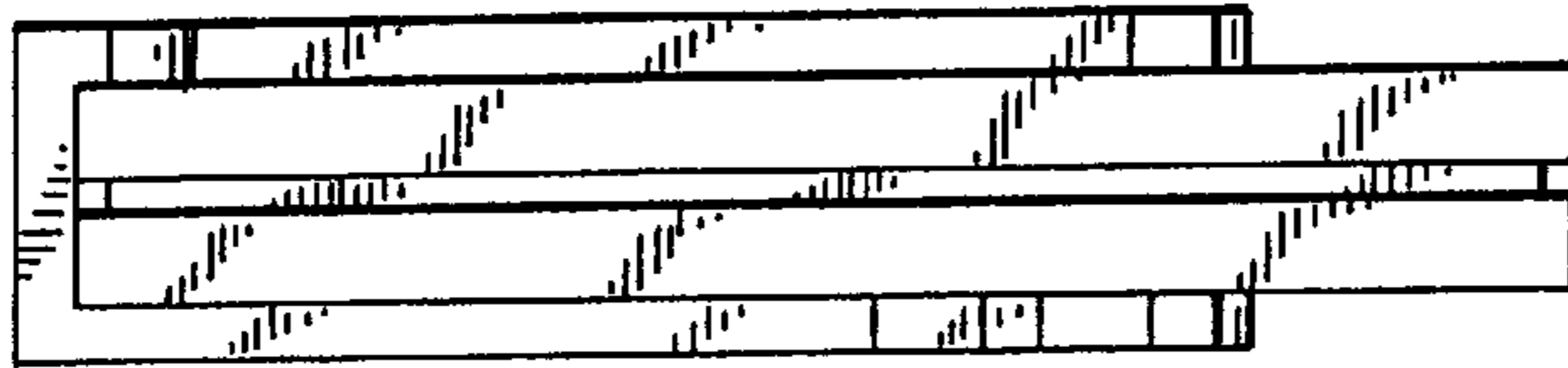


FIG. 7

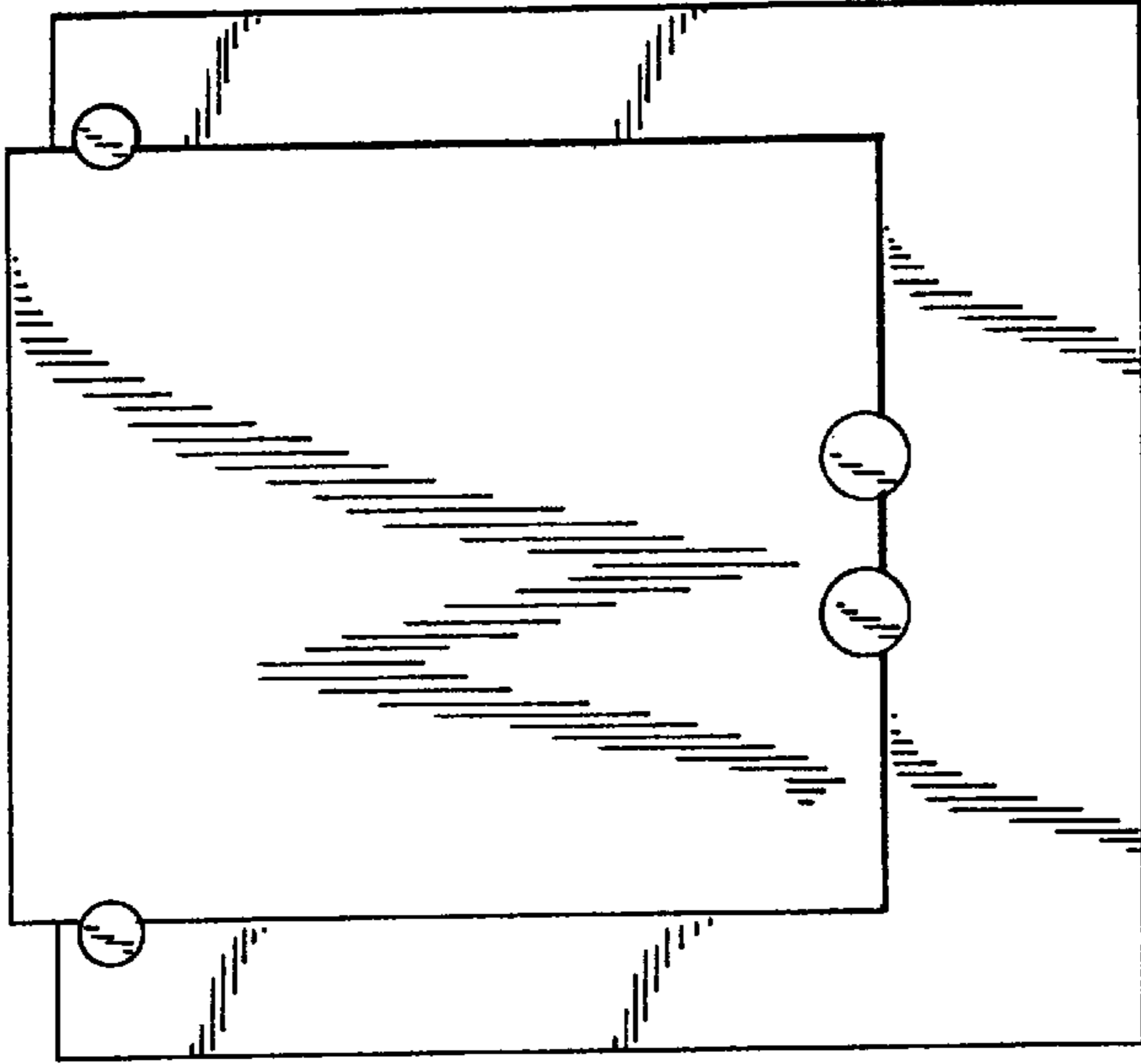


FIG. 5

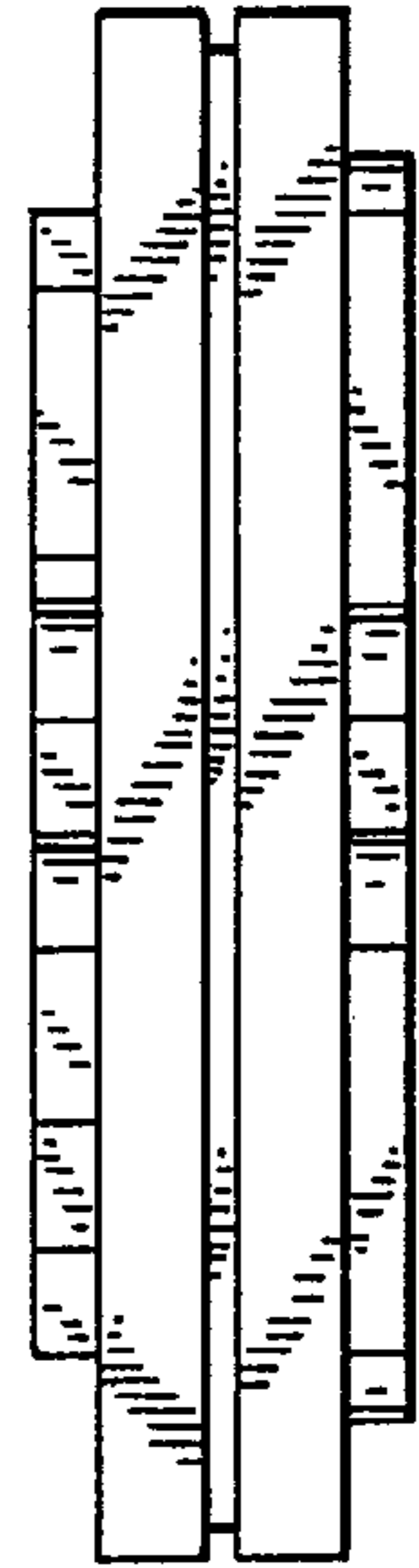


FIG. 8

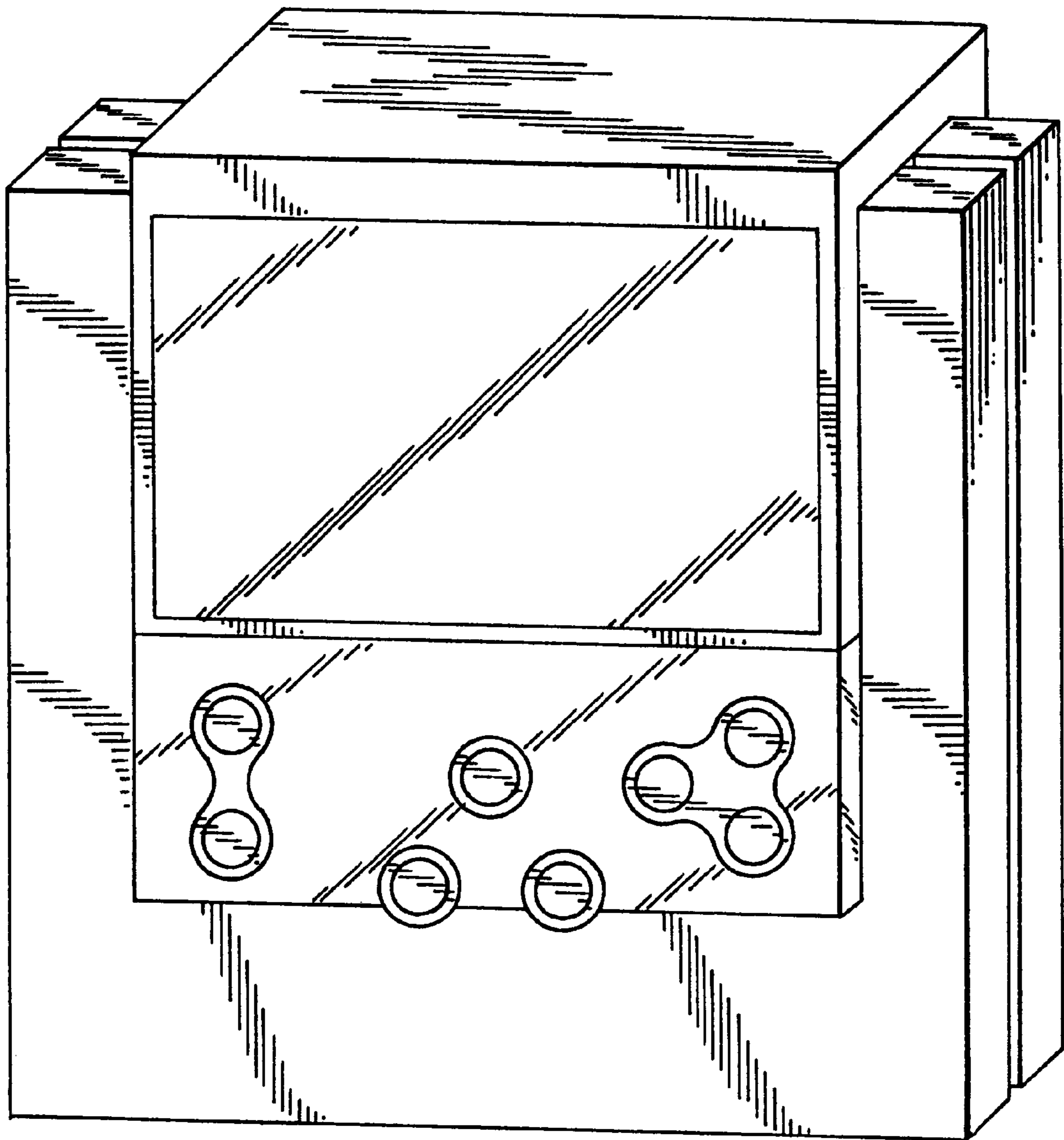


FIG. 9

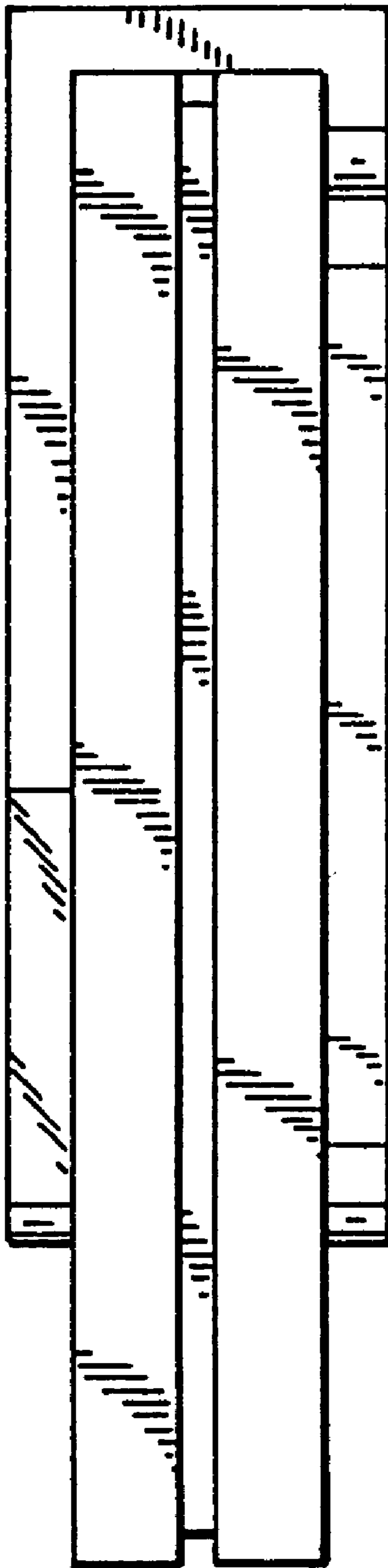


FIG. 10

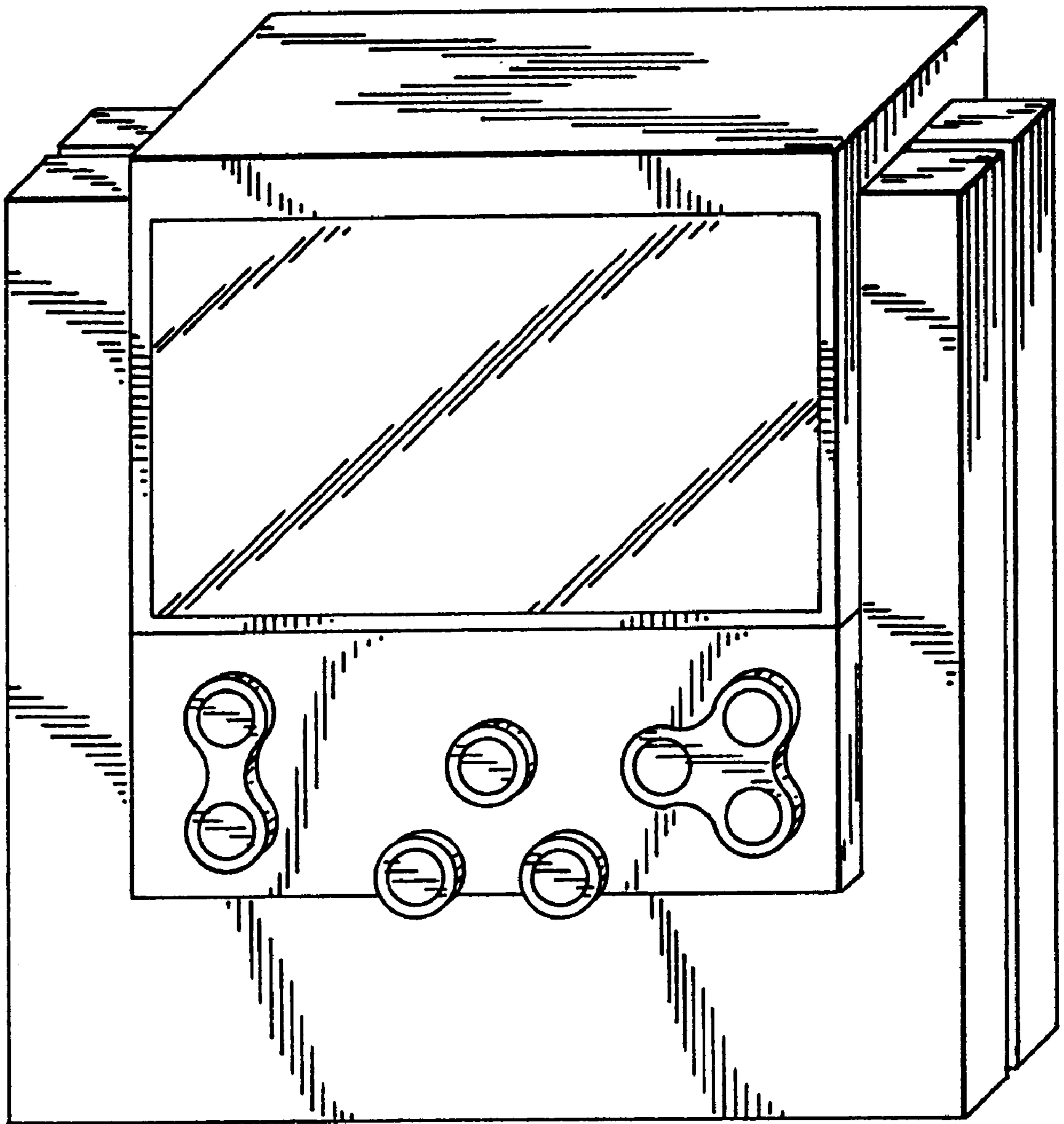


FIG. 12

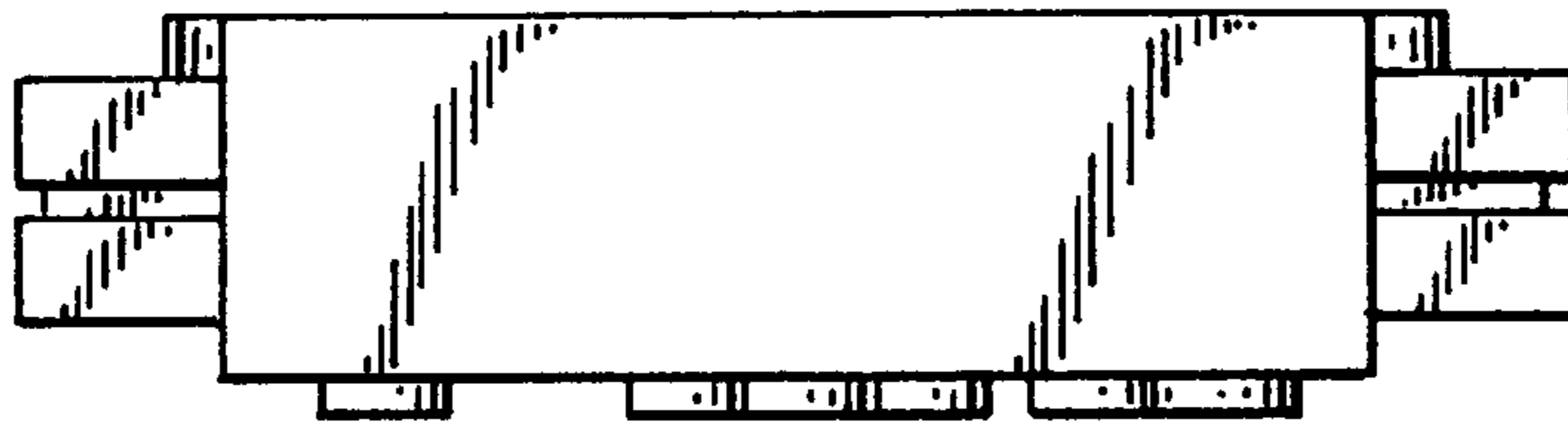


FIG. 11

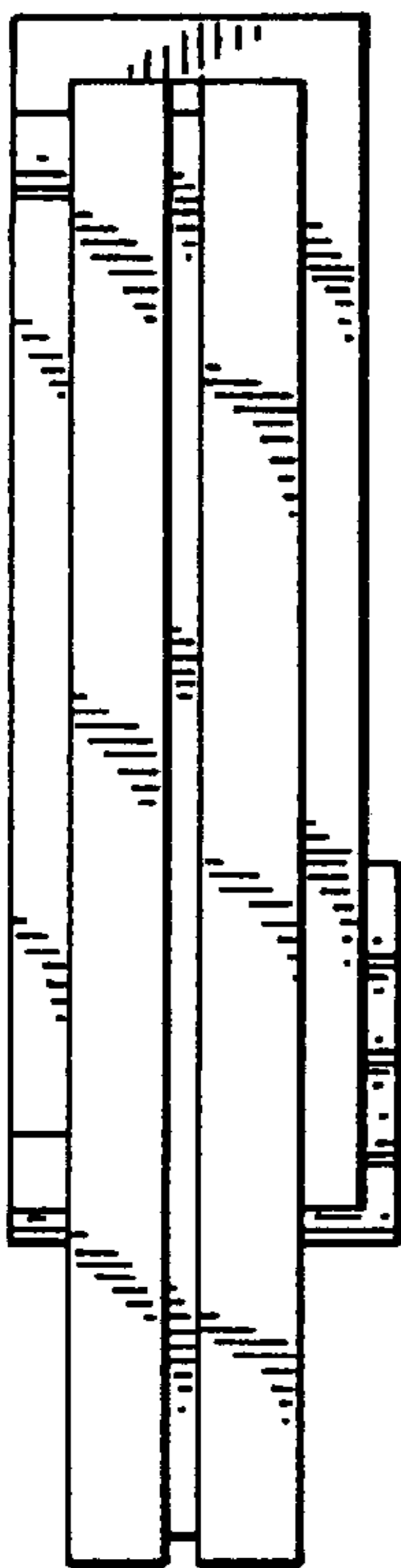


FIG. 14



FIG. 13

