



US00D522391S

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

(10) **Patent No.:** **US D522,391 S**

(45) **Date of Patent:** **** Jun. 6, 2006**

(54) **TIME OF FLIGHT MASS SPECTROMETER**

(75) Inventors: **Mitsuru Onuma**, Tokyo (JP); **Takuya Akashi**, Musashino (JP); **Masaru Tomioka**, Hitachinaka (JP); **Yasushi Terui**, Tsuchiura (JP); **Fumio Toyoda**, Fuchu (JP)

(73) Assignee: **Hitachi High-Technologies Corporation**, Tokyo (JP)

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

(21) Appl. No.: **29/214,023**

(22) Filed: **Sep. 28, 2004**

(30) **Foreign Application Priority Data**

Mar. 29, 2004 (JP) 2004-009315

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

(52) **U.S. Cl.** **D10/81; D24/169**

(58) **Field of Classification Search** **D10/81;**
D24/169, 216, 232, 233, 234; 422/50, 63-68.1;
436/43, 48; 356/73

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

D281,310 S * 11/1985 Hattori et al. D10/81

* cited by examiner

Primary Examiner—Antoine D. Davis

(74) *Attorney, Agent, or Firm*—Antonelli, Terry, Stout and Kraus, LLP

(57) **CLAIM**

We claim the ornamental design for a time of flight mass spectrometer, as shown.

DESCRIPTION

FIG. 1 is a front, top and left side perspective view of a time of flight mass spectrometer showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a right side elevational view thereof; FIG. 4 is a left side elevational view thereof; FIG. 5 is a top plan elevational view thereof; FIG. 6 is a bottom plan elevational view thereof; and, FIG. 7 is a rear elevational view thereof.

1 Claim, 6 Drawing Sheets

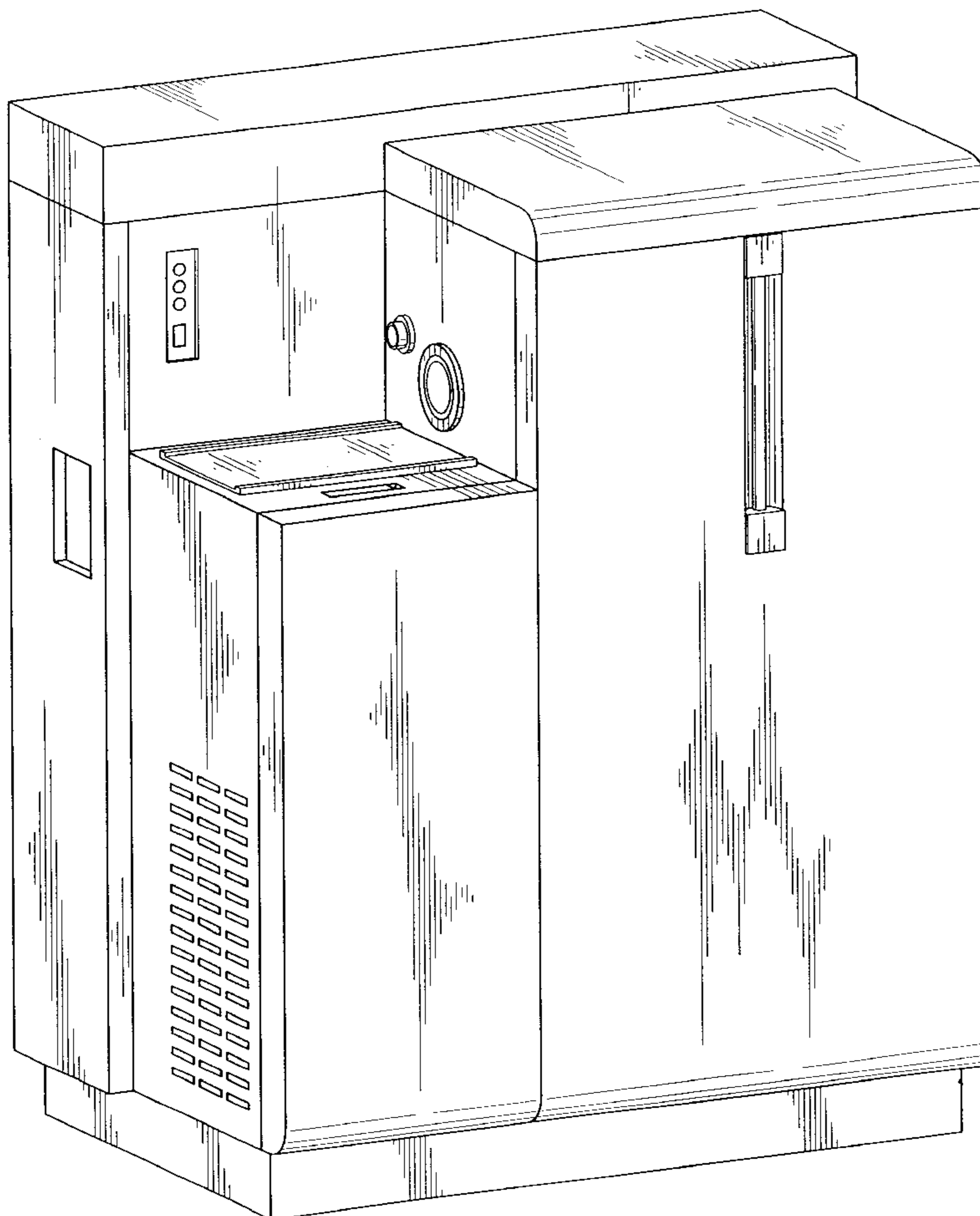


FIG. 1

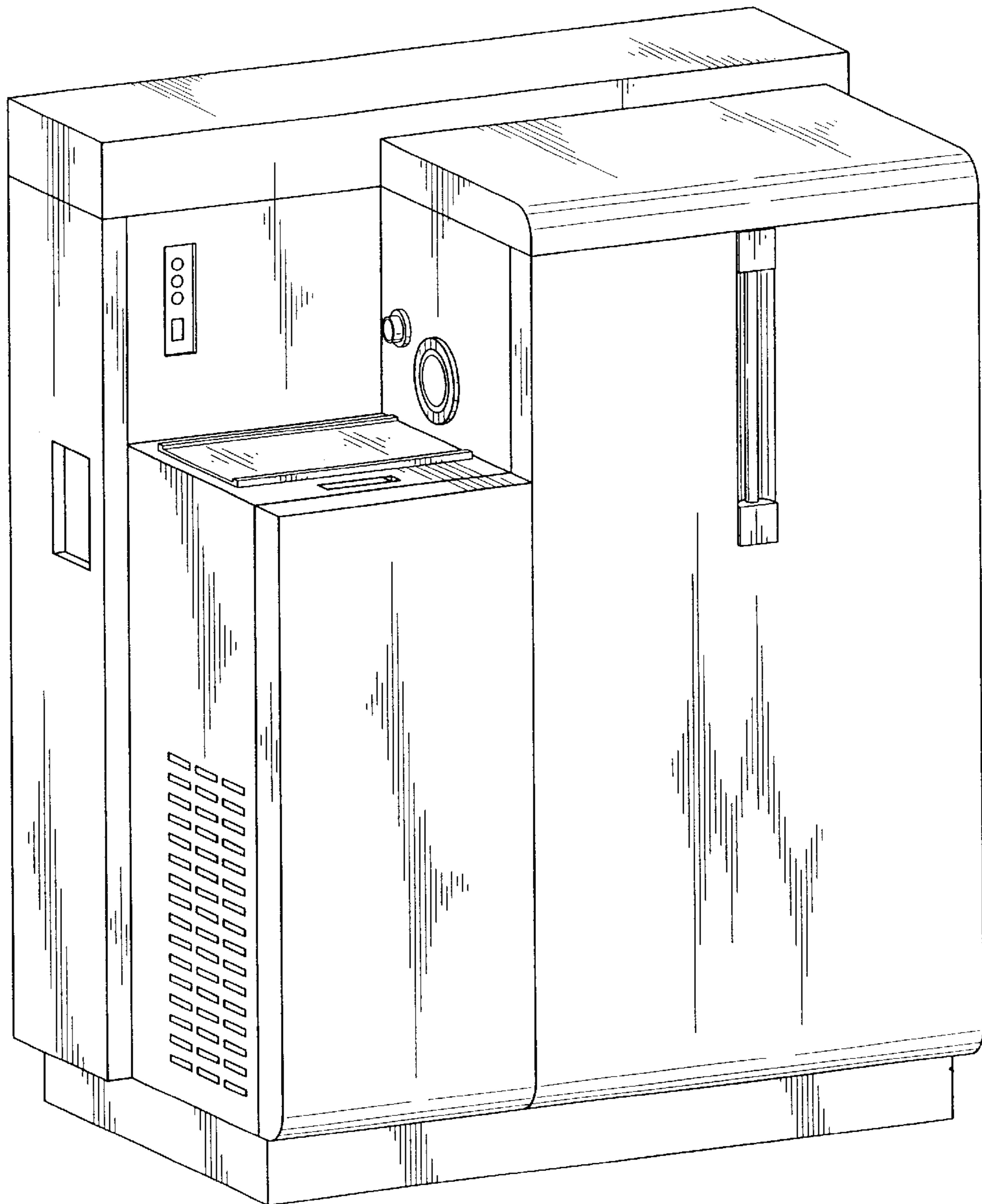


FIG. 2

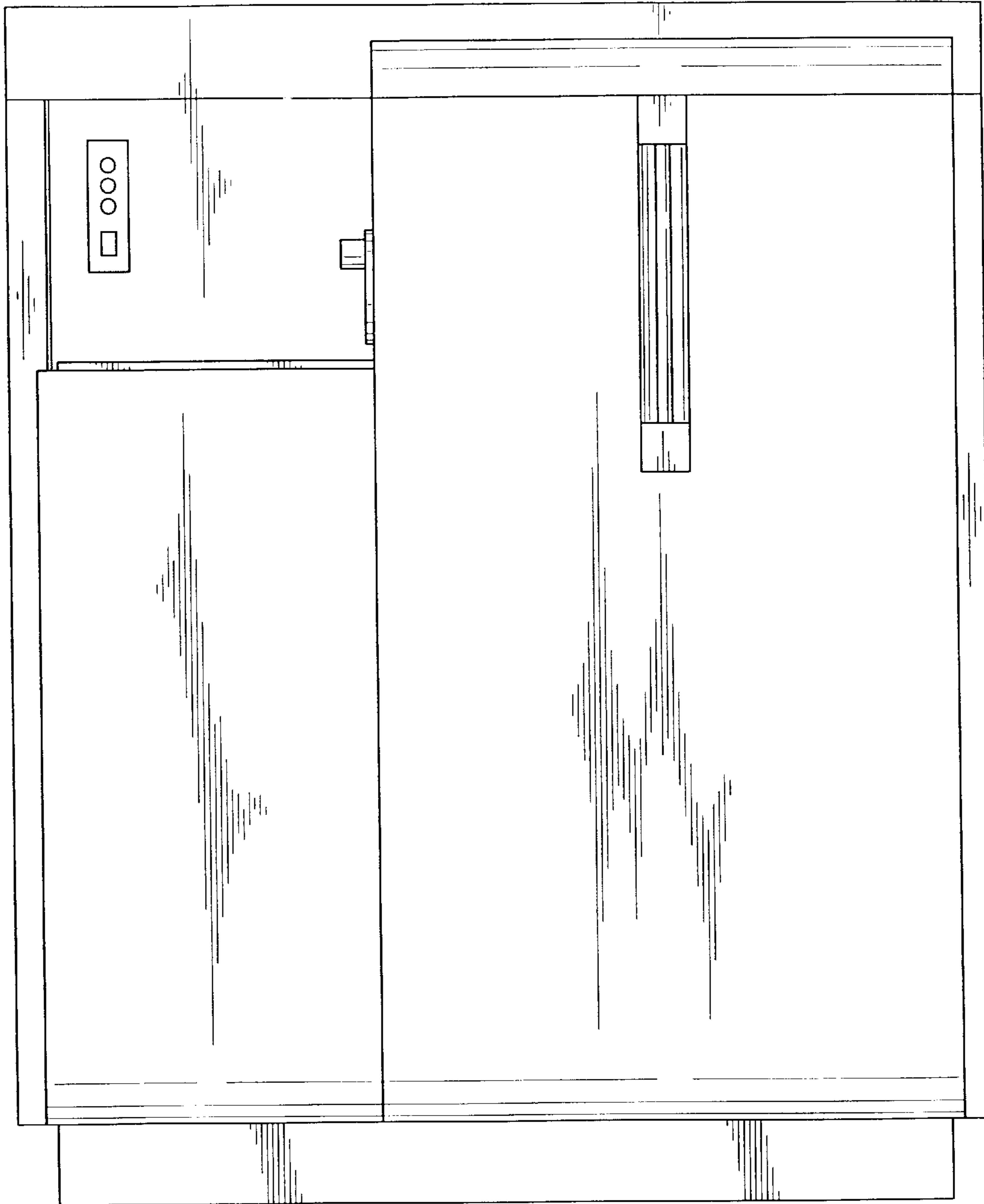


FIG. 3

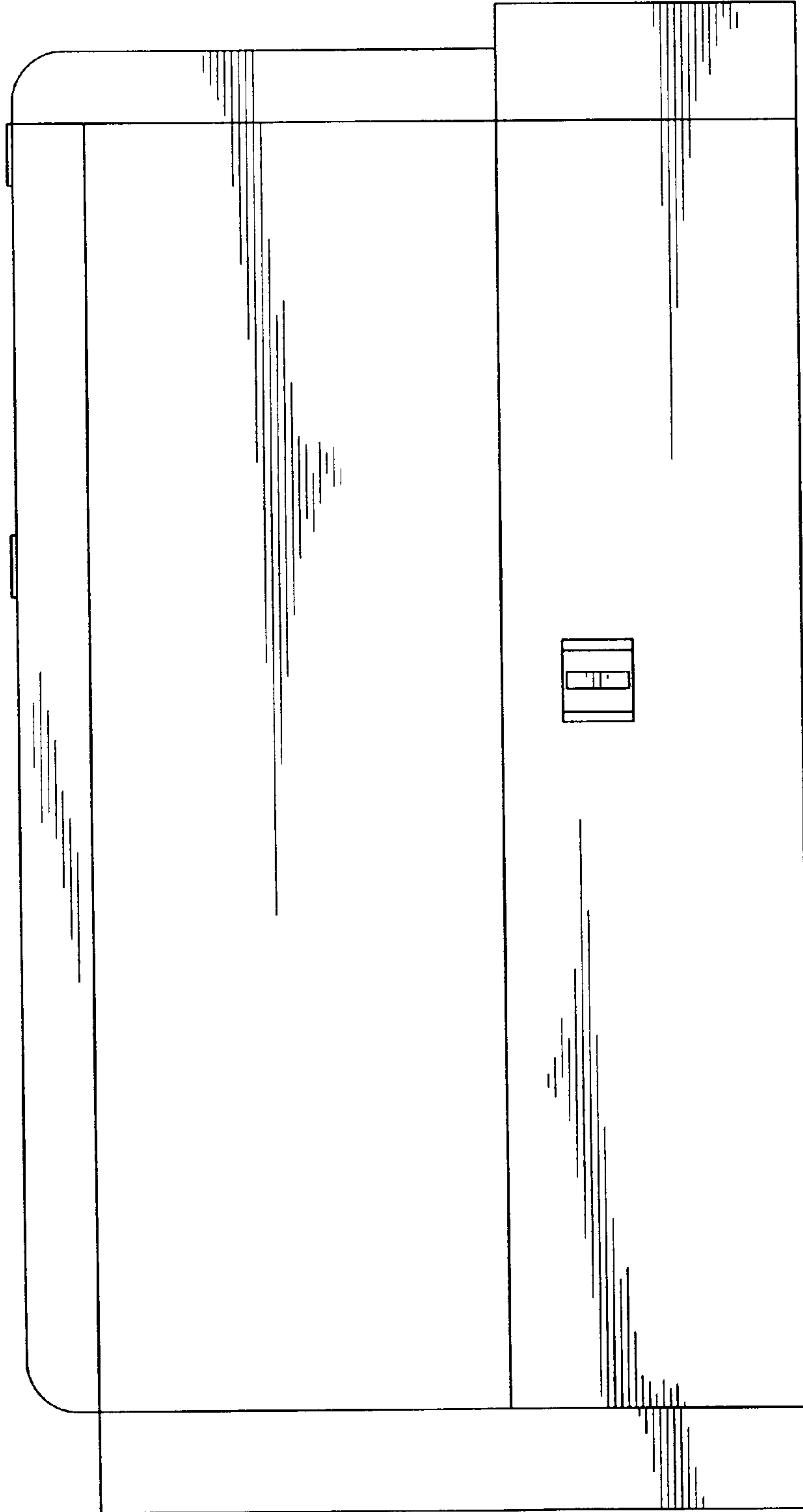


FIG. 4

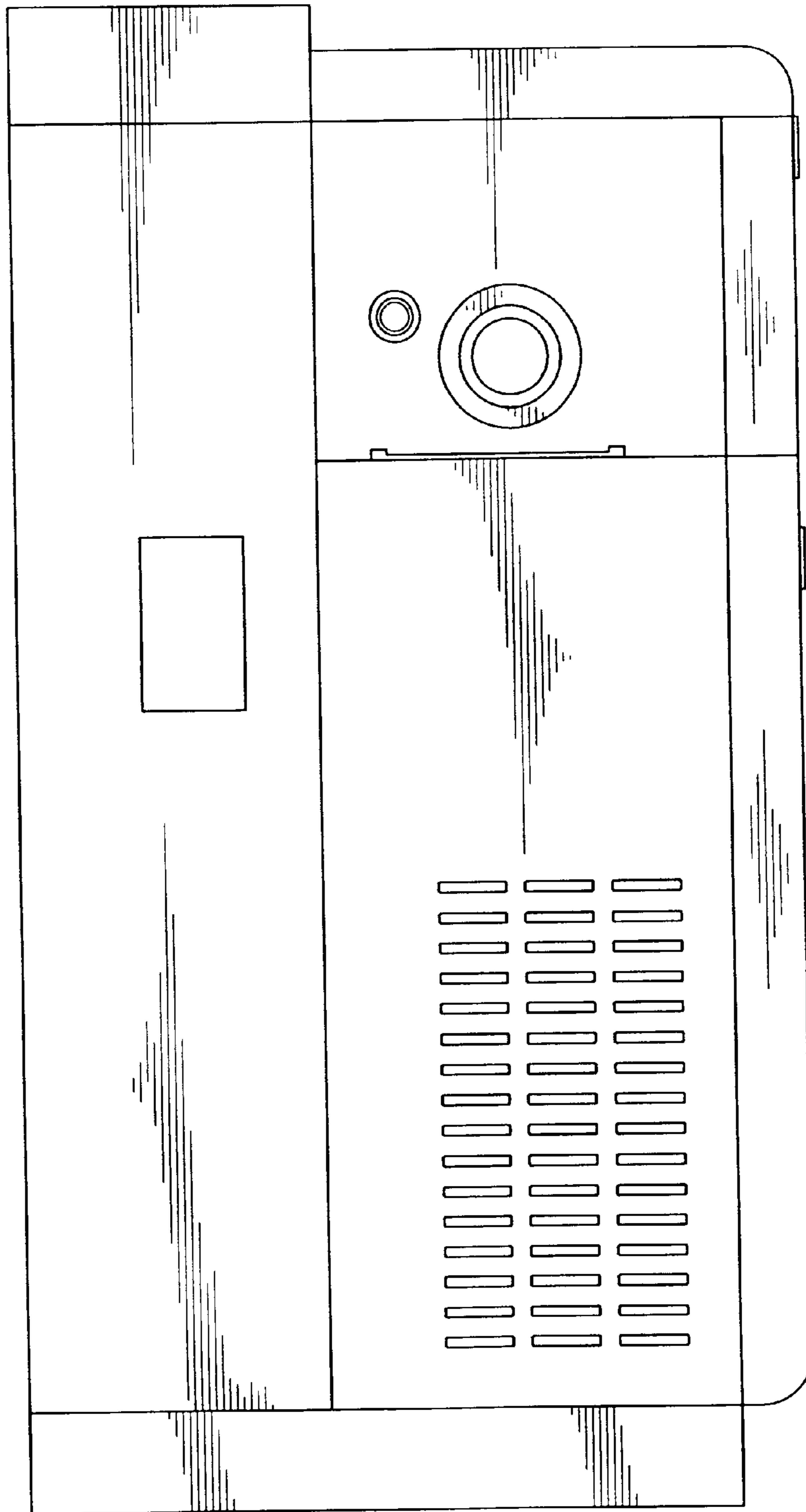


FIG. 5

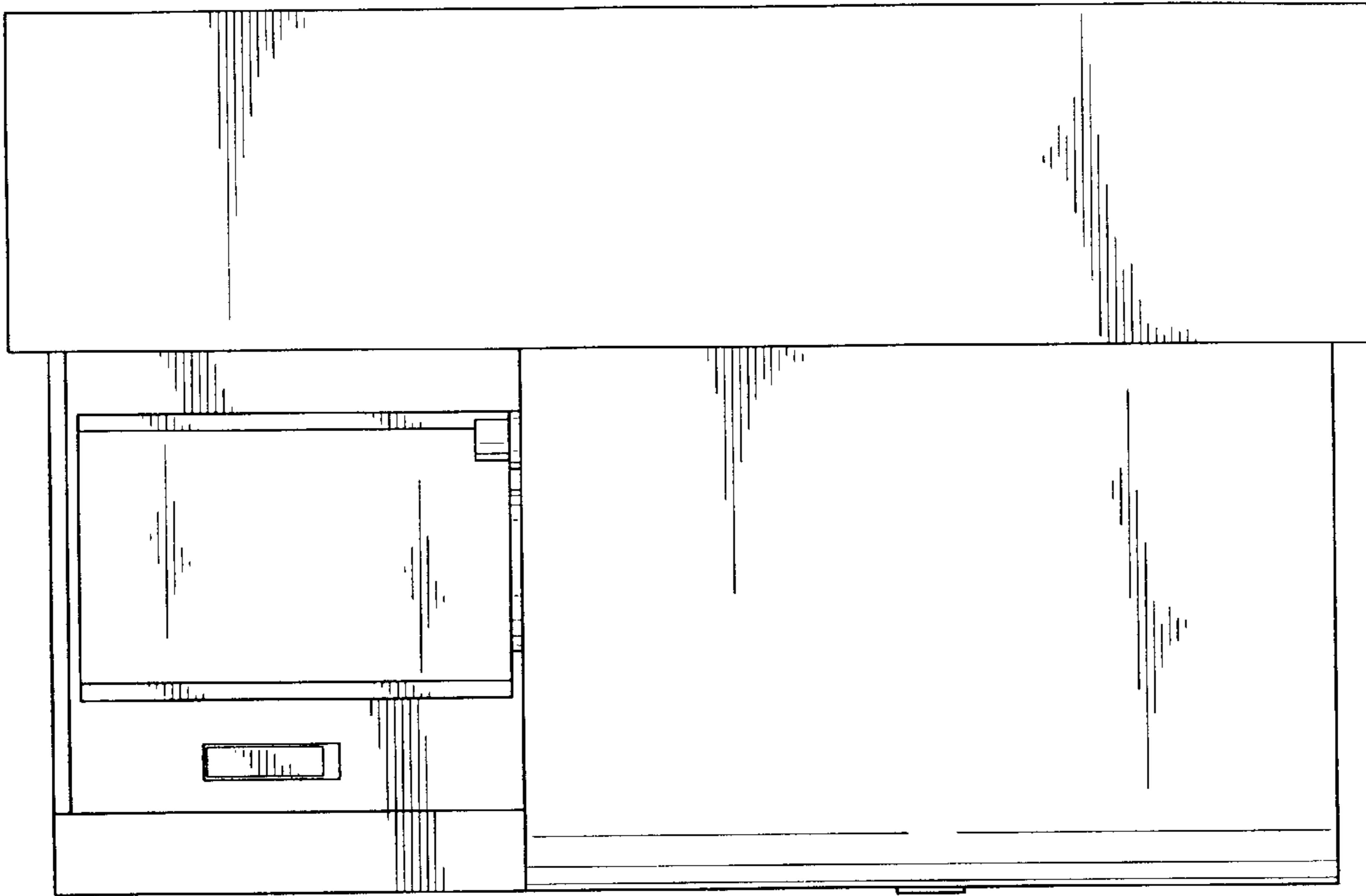


FIG. 6

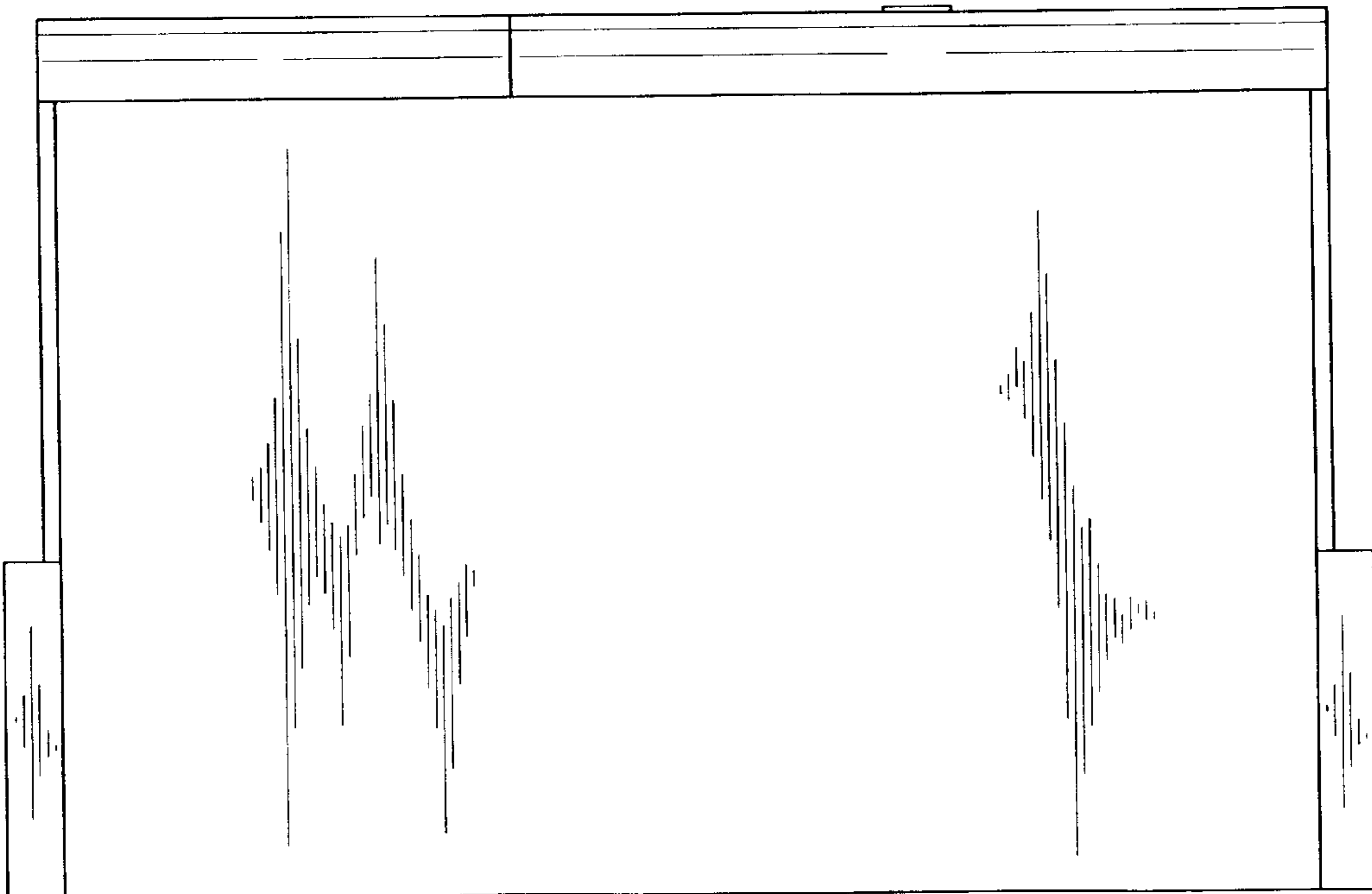


FIG. 7

