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

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

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

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(30) **Foreign Application Priority Data**

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(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

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(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

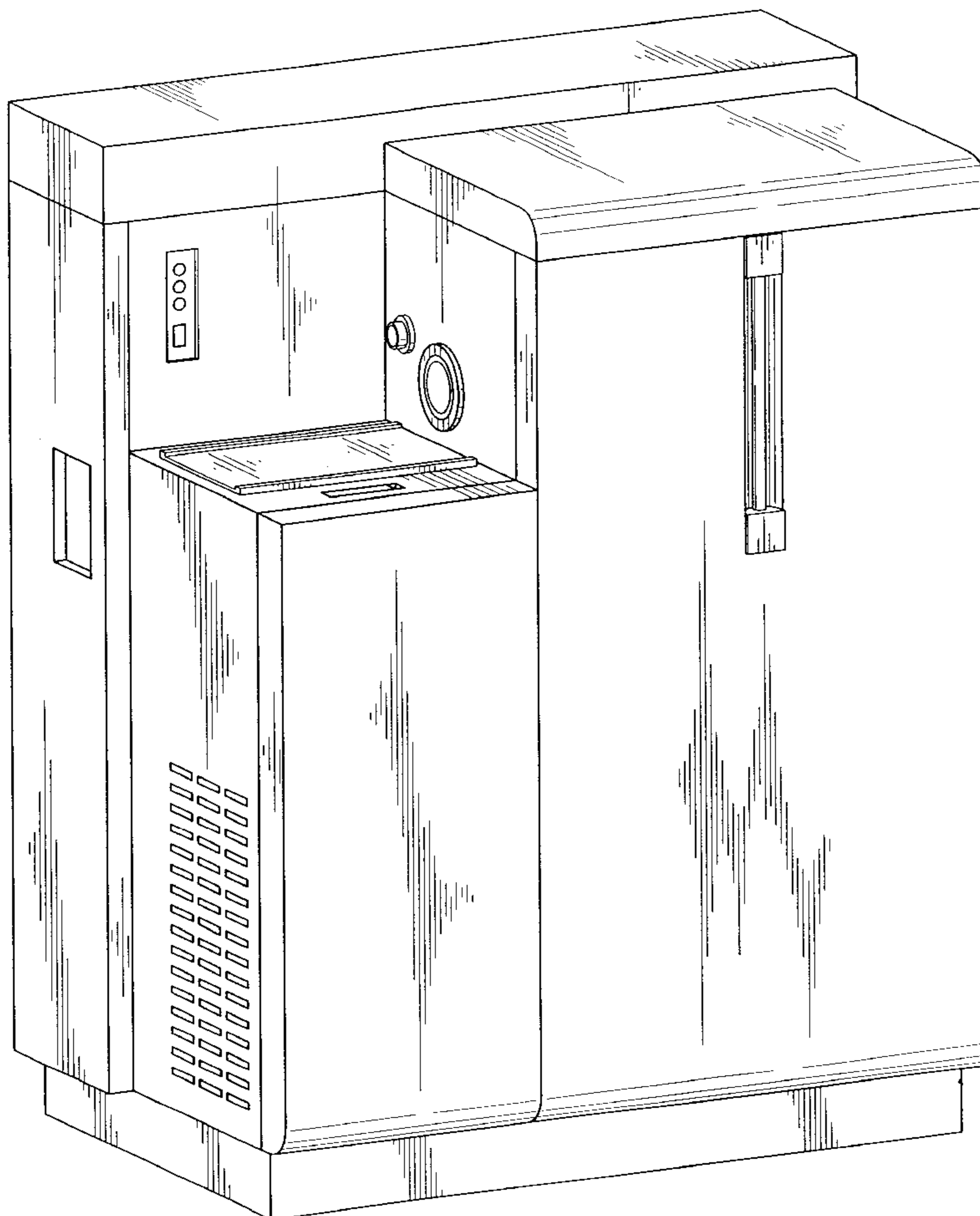


FIG. 1

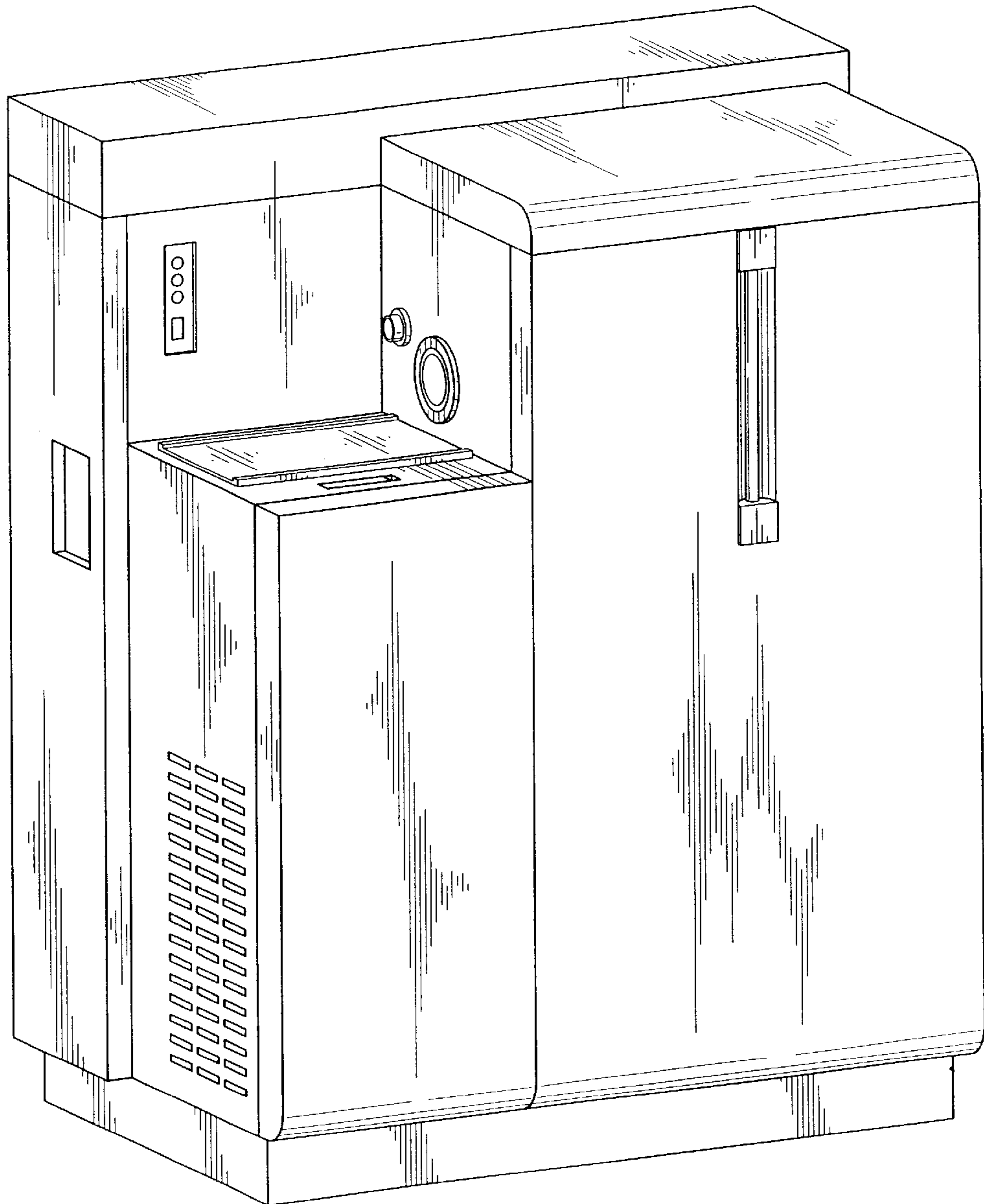


FIG. 2

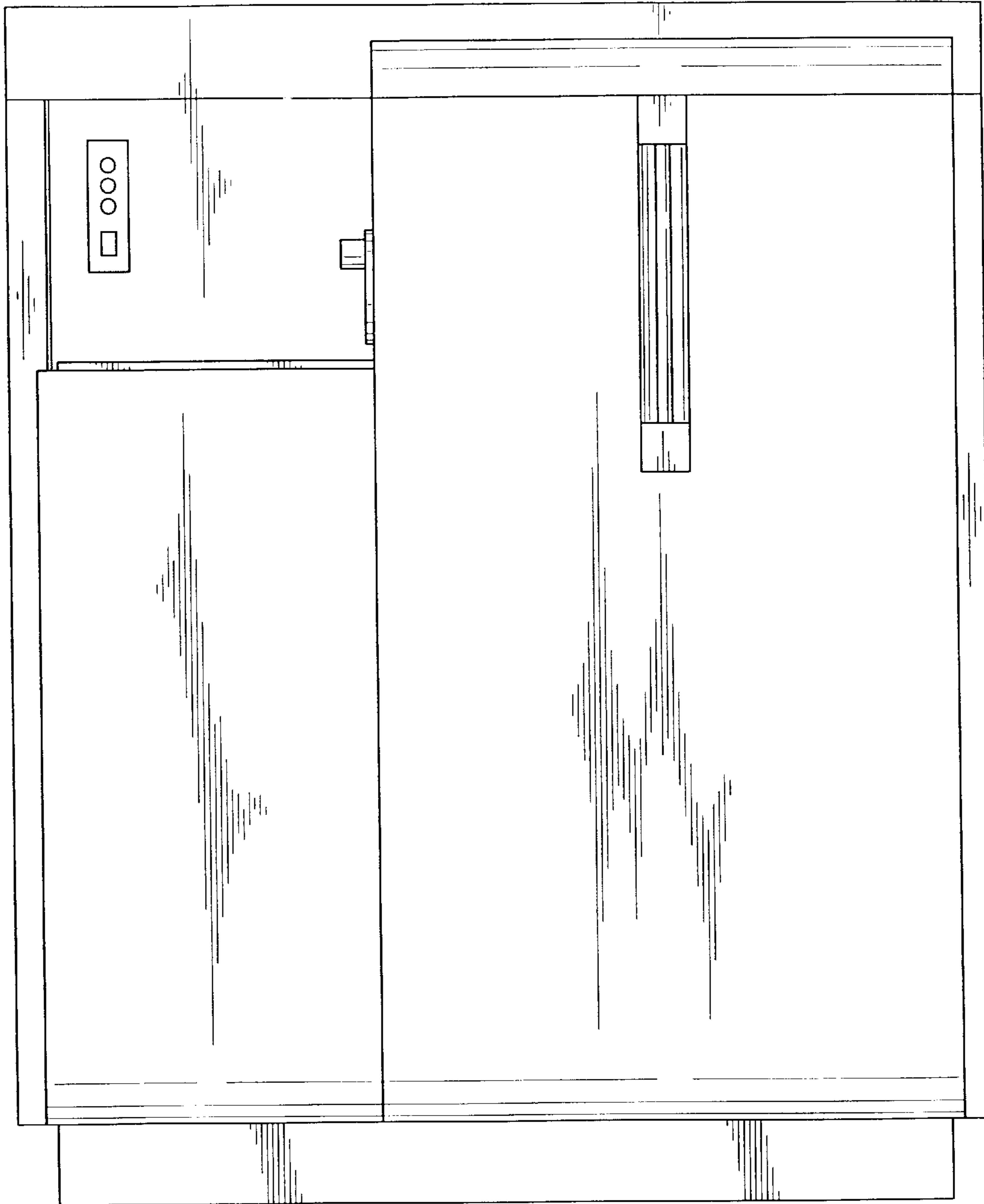


FIG. 3

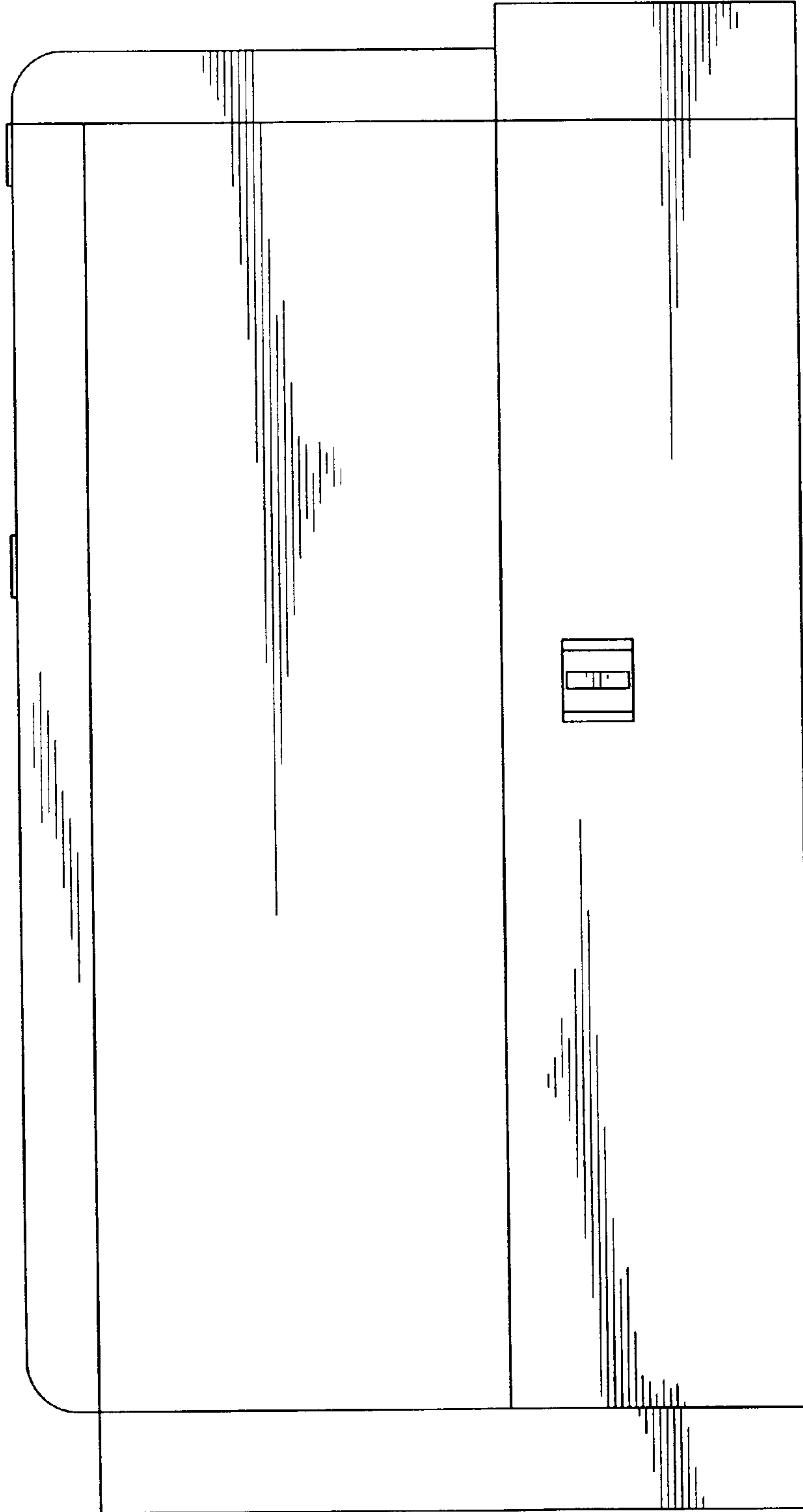


FIG. 4

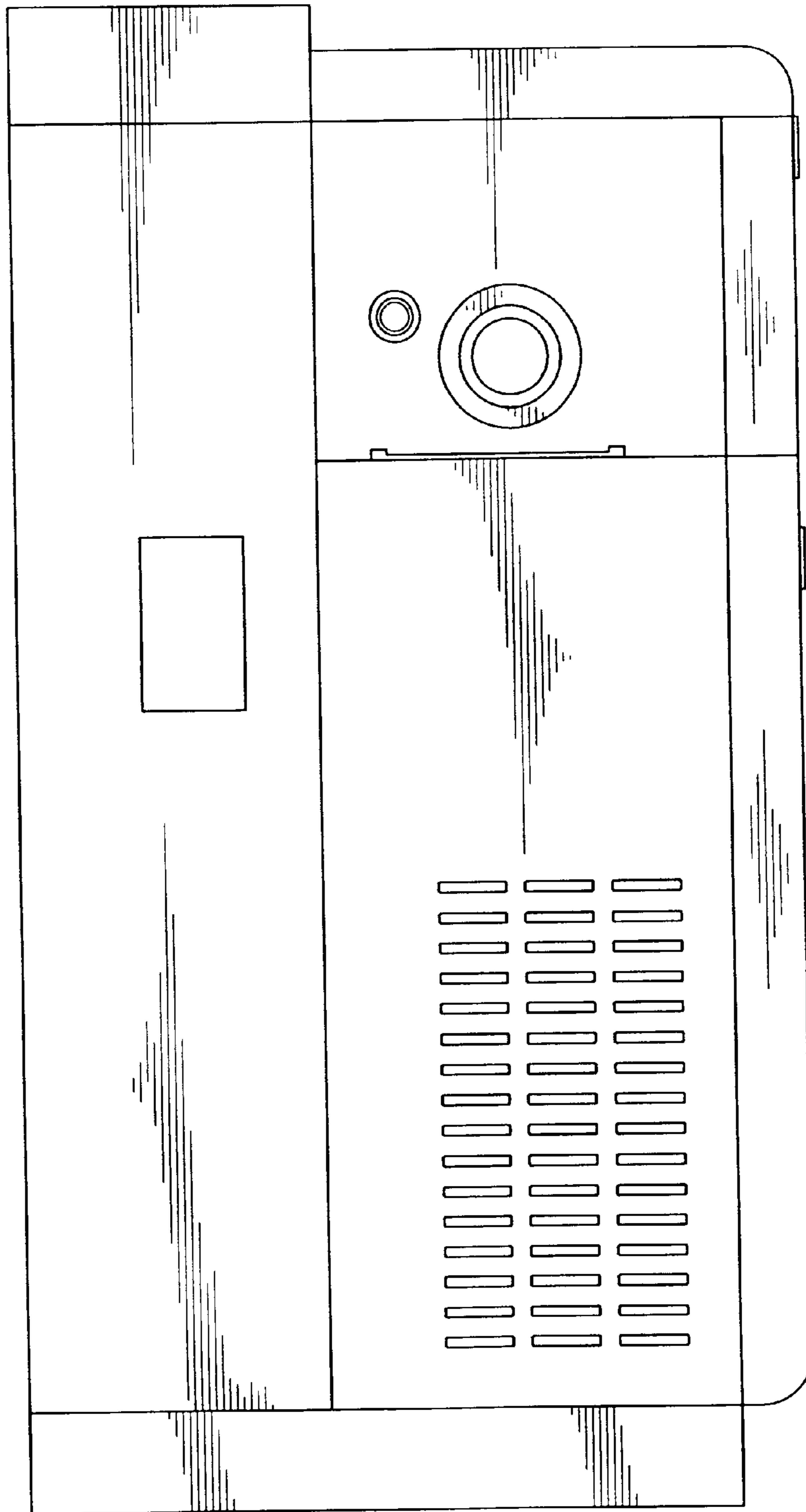


FIG. 5

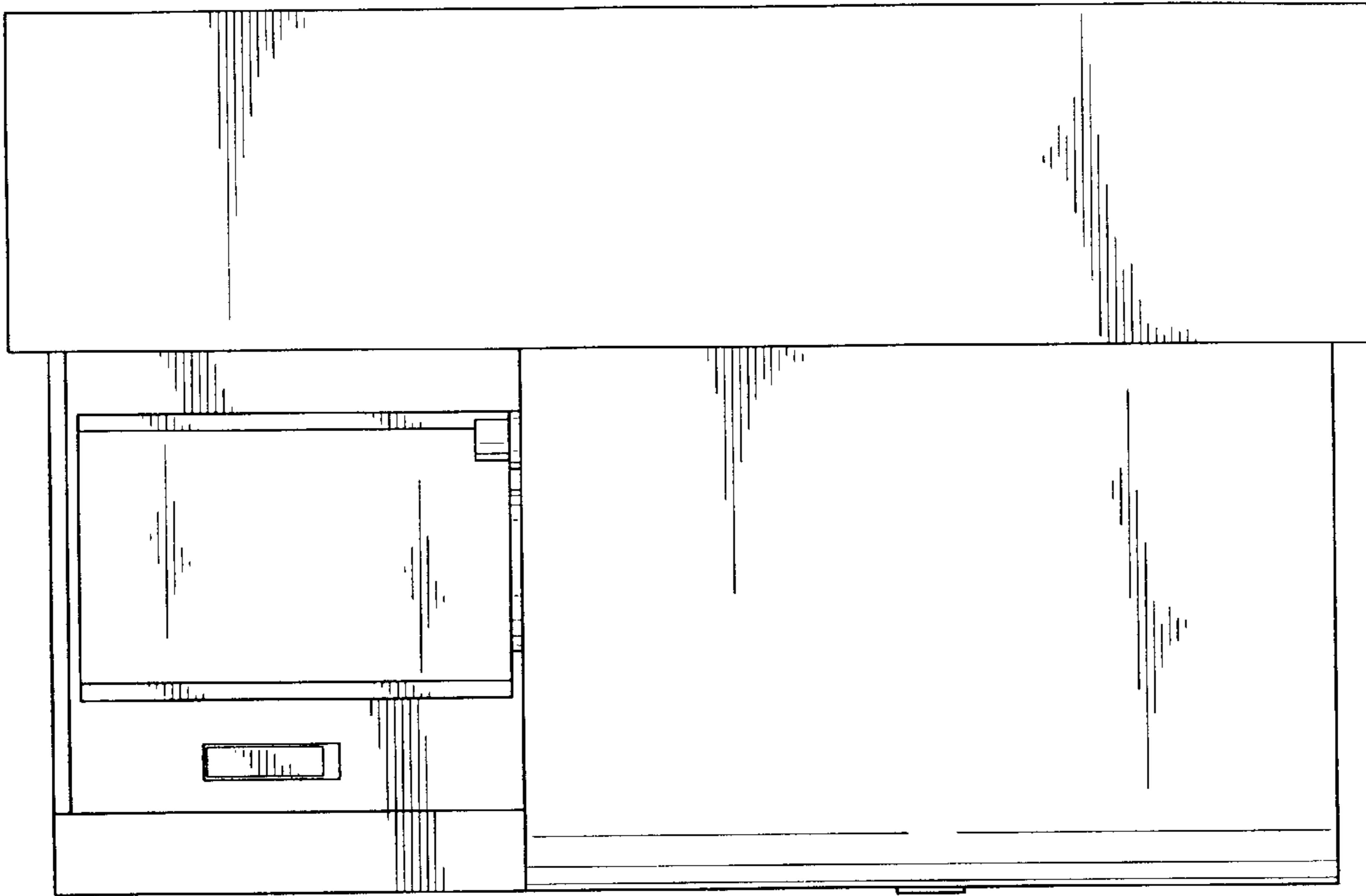


FIG. 6

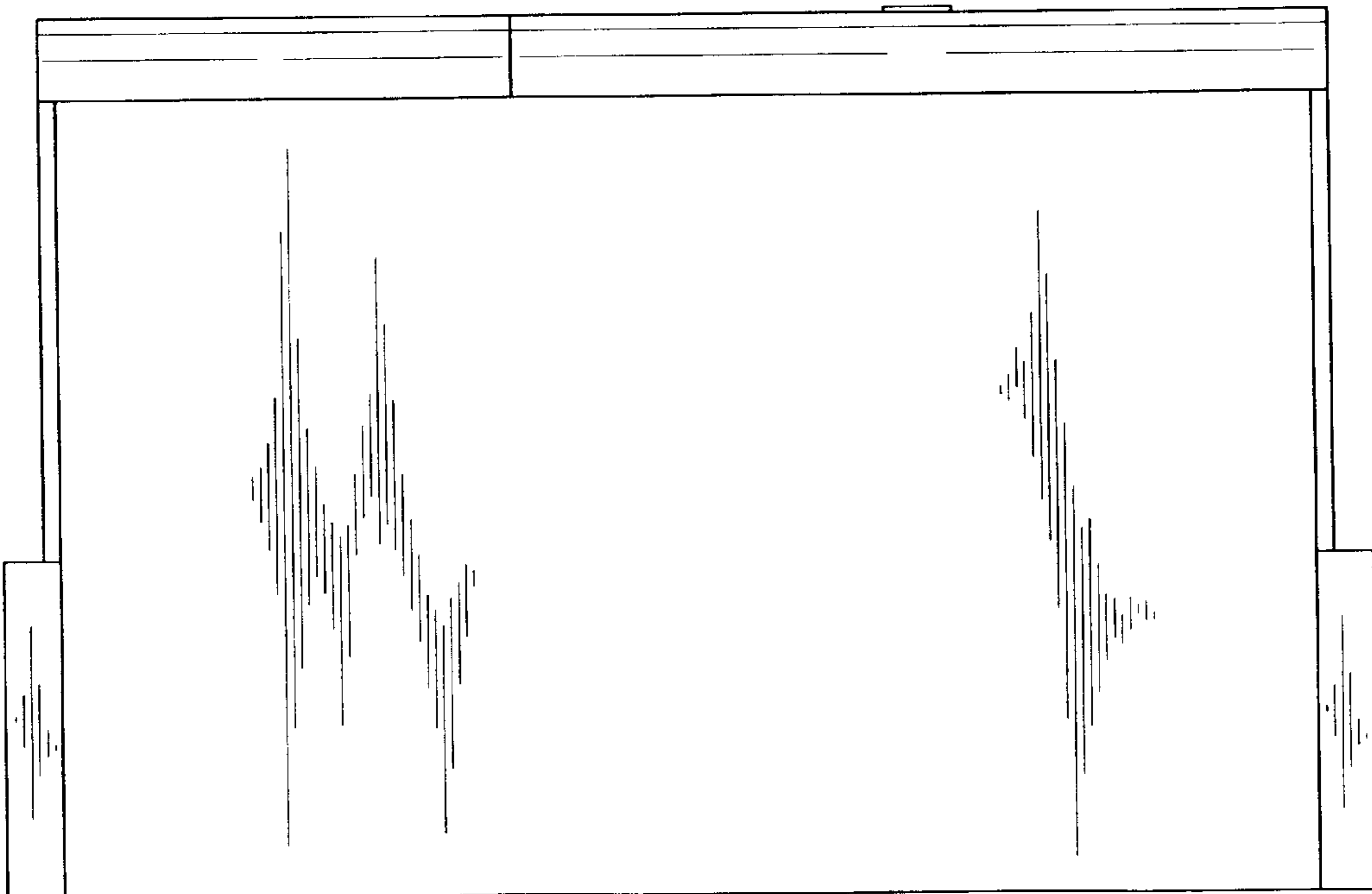


FIG. 7

