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Oonuma et al.

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(54) **REAGENT AUTOLOADER WITH A SAMPLE
BUFFER UNIT FOR A CLINICAL ANALYZER**

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(*) Notice: This patent is subject to a terminal dis-
claimer.

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

(21) Appl. No.: **29/383,169**

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(30) **Foreign Application Priority Data**

Jul. 23, 2010 (JP) 2010-017874

(51) **LOC (9) Cl.** **24-01**

(52) **U.S. Cl.** **D24/216**

(58) **Field of Classification Search** D24/216,
D24/224, 231, 232, 186, 107, 169, 217, 233;
D10/46, 81; 422/500, 547, 62-65, 67; 435/287.1,
435/287.3; 436/43, 45, 47

See application file for complete search history.

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,946,651 A * 8/1990 Liston et al. 422/63
D347,478 S * 5/1994 Pinkney D24/216
D356,967 S * 4/1995 Takekoshi et al. D10/81
6,521,183 B1 * 2/2003 Burri et al. 422/65
D508,999 S * 8/2005 Fanning et al. D24/216
D607,569 S * 1/2010 Yukikado et al. D24/186

7,678,331 B2 * 3/2010 Shanafelter 422/65
D638,545 S * 5/2011 Okawa et al. D24/186
2004/0081583 A1 * 4/2004 Berndt et al. 422/63
2009/0269841 A1 * 10/2009 Wojciechowski et al. . 435/289.1
2009/0325274 A1 * 12/2009 Hamada et al. 422/65

FOREIGN PATENT DOCUMENTS

JP D1029815 1/1999

OTHER PUBLICATIONS

U.S. Appl. No. 29/383,151, filed Jan. 13, 2011, Oonumba, copend-
ing.

U.S. Appl. No. 29/383,163, filed Jan. 13, 2011, Oonumba, copend-
ing.

* cited by examiner

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(57) **CLAIM**

We claim the ornamental design for a reagent autoloader with
a sample buffer unit for a clinical analyzer, as shown and
described.

DESCRIPTION

FIG. 1 is a front, top and left side perspective view of a reagent
autoloader with a sample buffer unit for a clinical analyzer
showing our new design;

FIG. 2 is a front elevational view thereof;

FIG. 3 is a rear elevational view thereof;

FIG. 4 is a top plan view thereof;

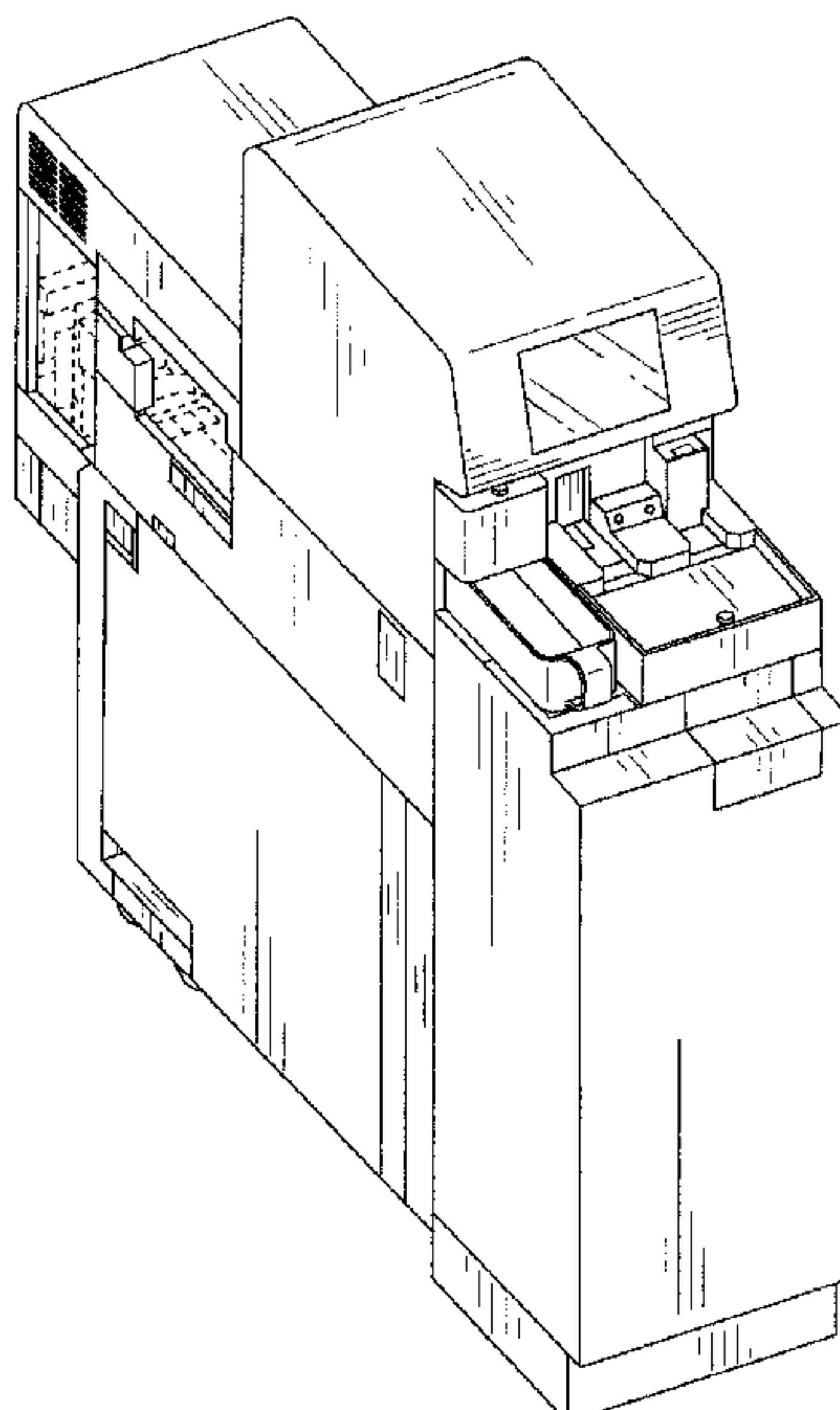
FIG. 5 is a bottom plan view thereof;

FIG. 6 is a left side elevational view thereof; and,

FIG. 7 is a right side elevational view thereof.

The broken lines in all drawing views are included for the
purpose of illustrating portions of the reagent autoloader with
a sample buffer unit for a clinical analyzer that form no part of
the claimed design.

1 Claim, 5 Drawing Sheets



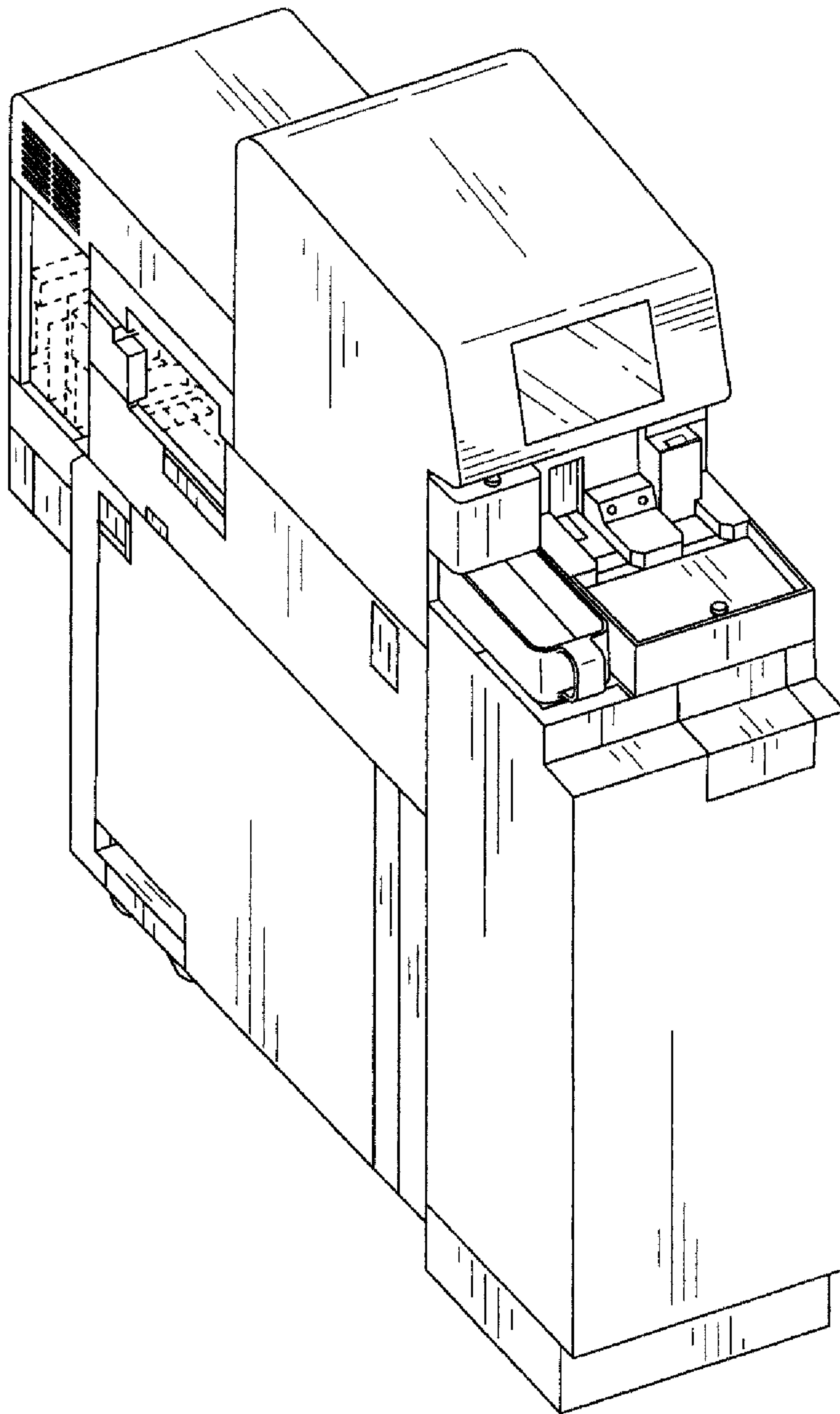


FIG. 1

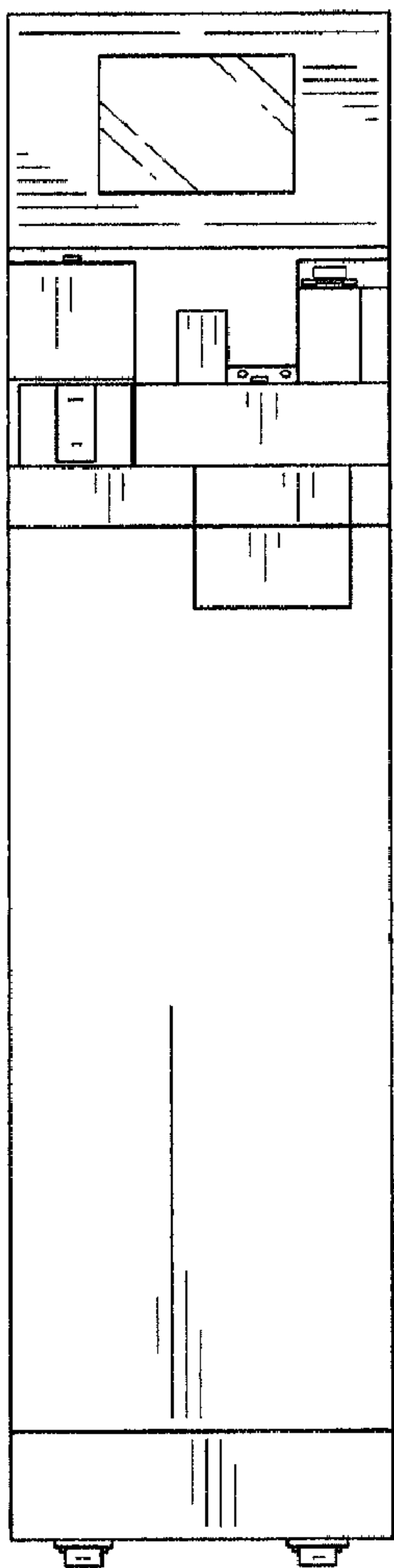


FIG. 2

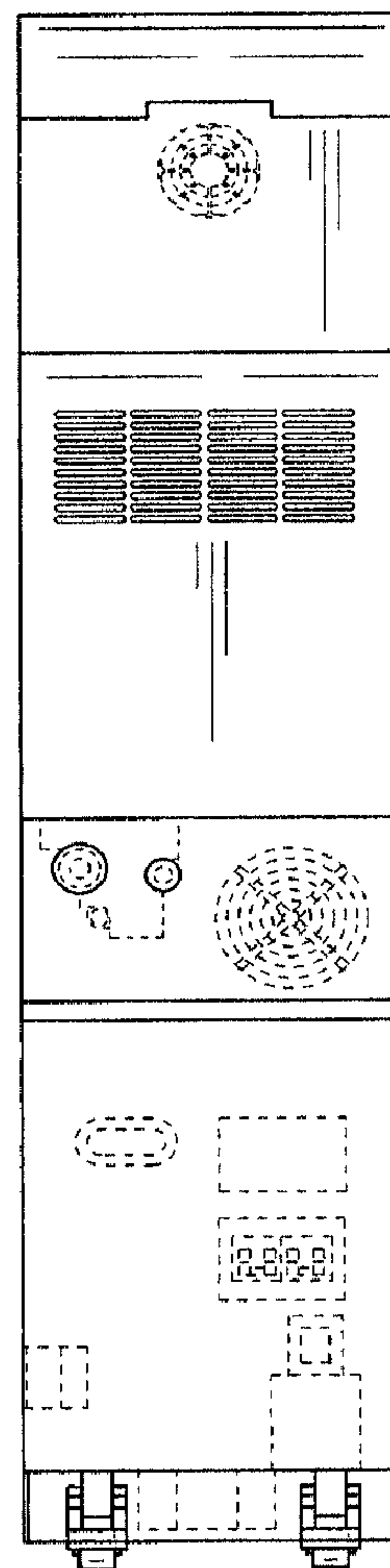


FIG. 3

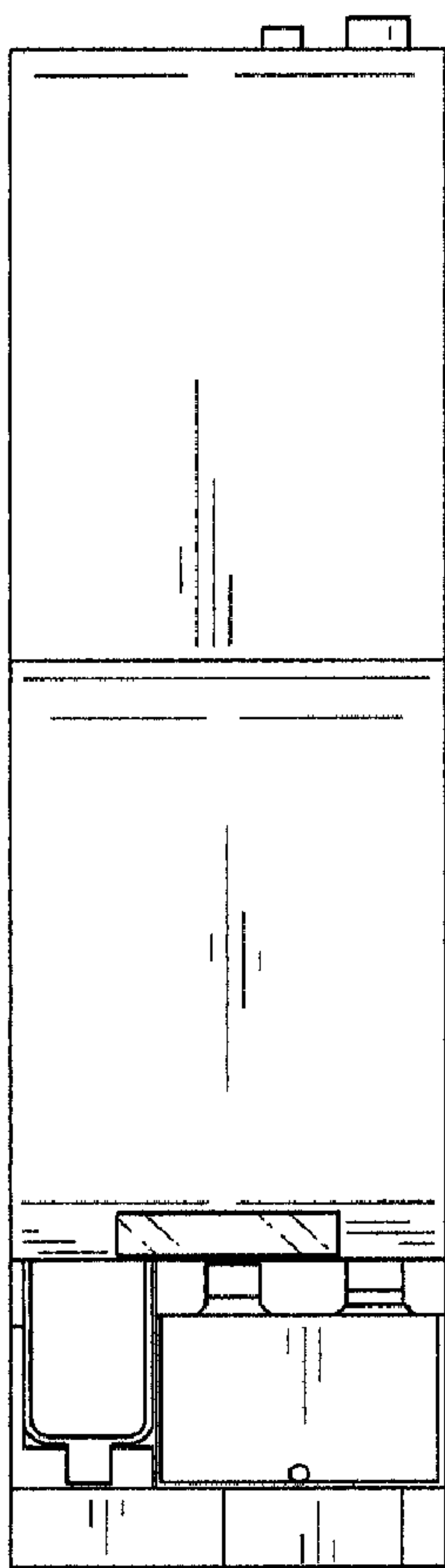


FIG. 4

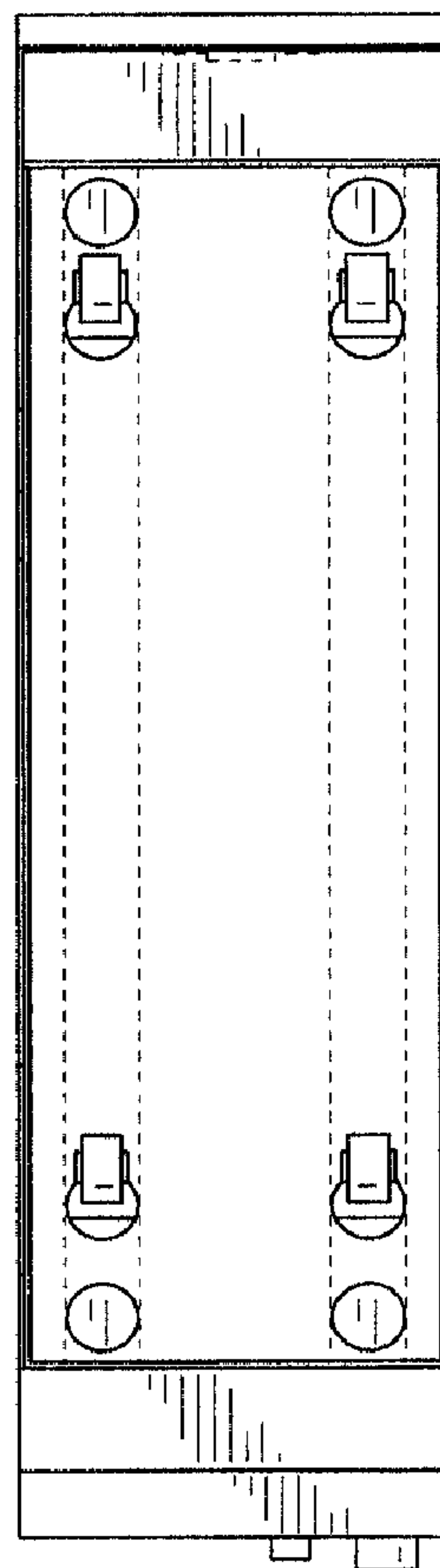


FIG. 5

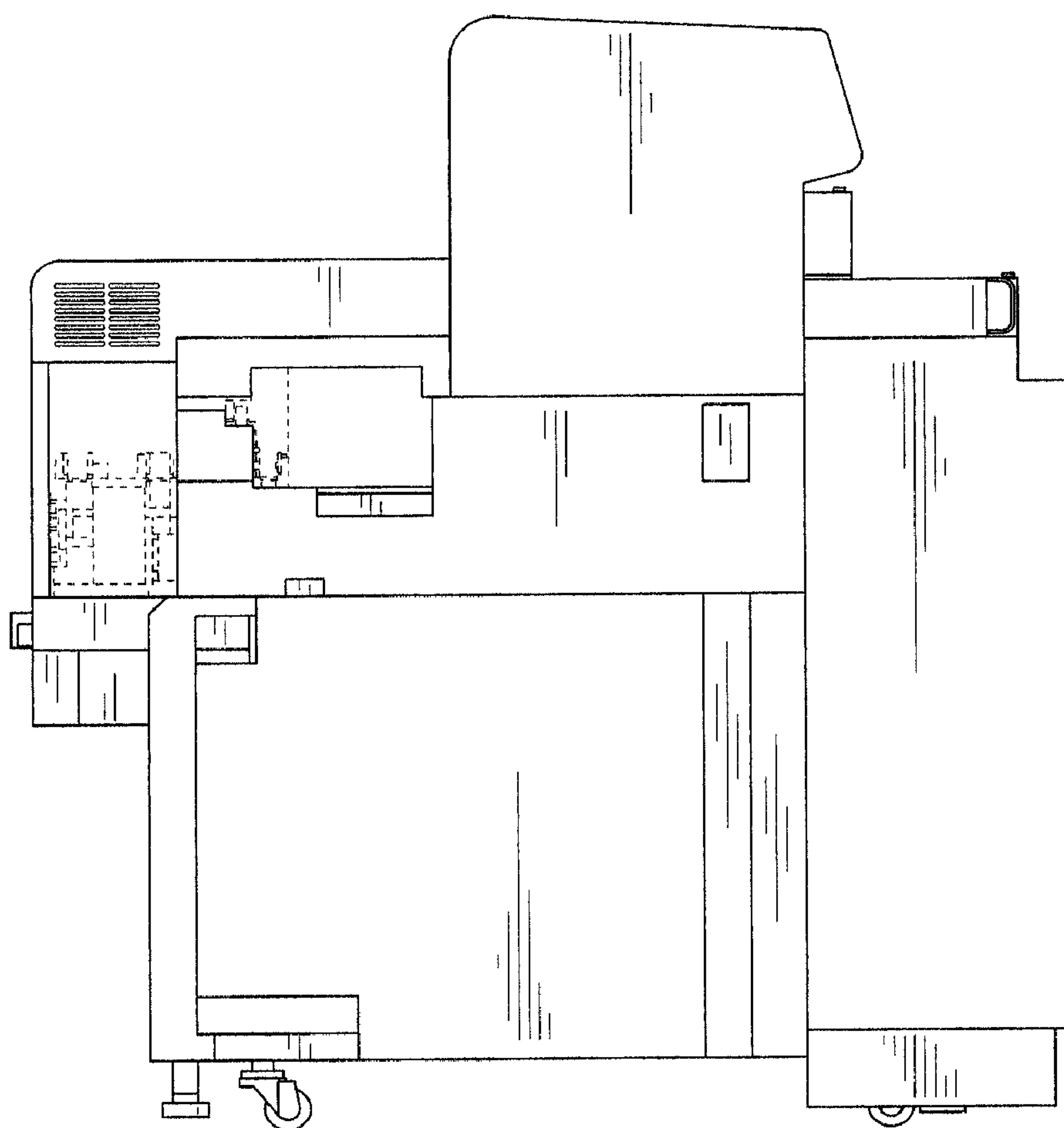


FIG. 6

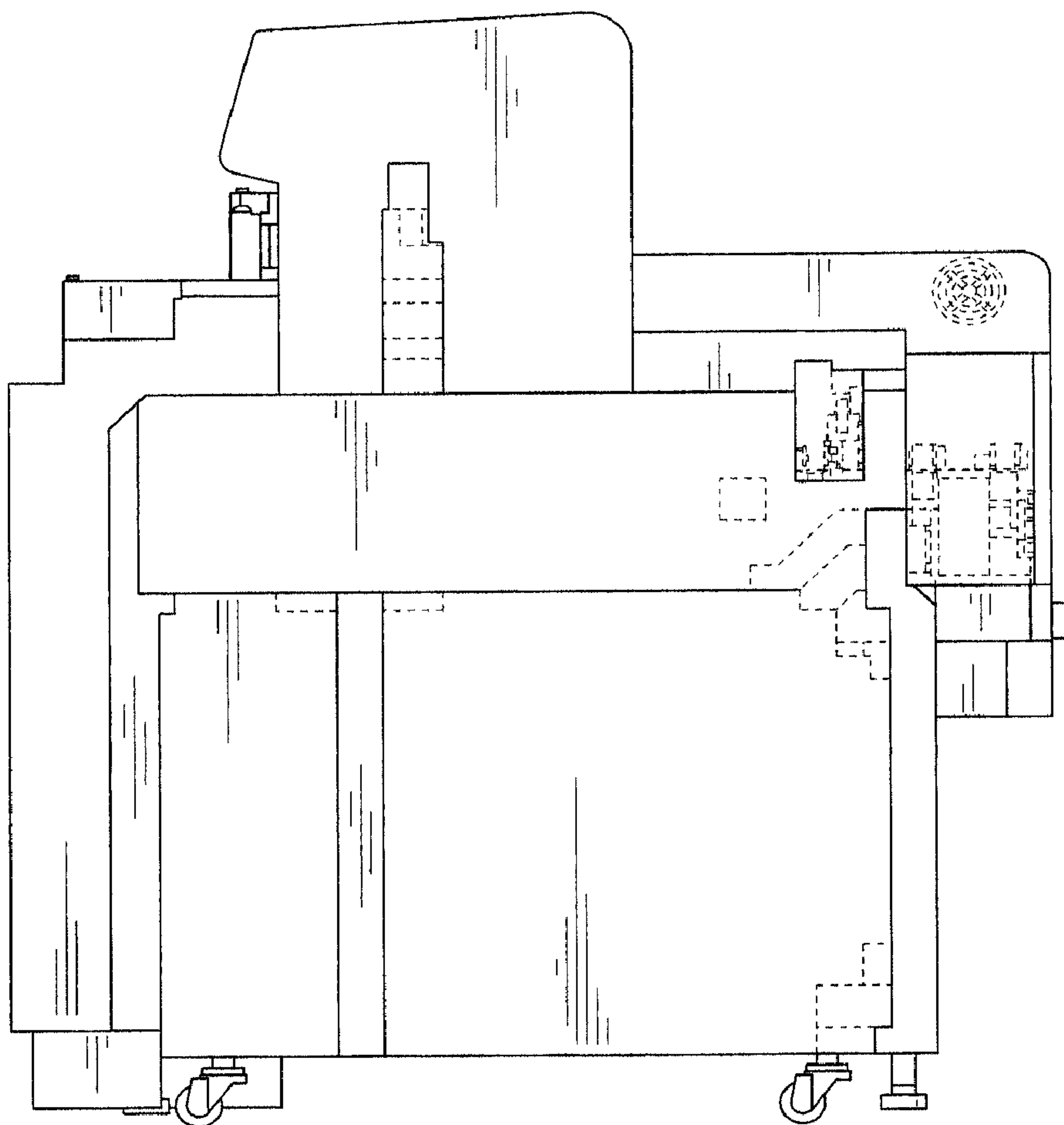


FIG. 7