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United States Patent [19]

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Chen et al.

[45] Date of Patent: ****Feb. 27, 1996**

[54] **AUTOMATIC DOCUMENT FEEDER**

[57] **CLAIM**

[75] Inventors: **Tony Chen; Thomas Chang**, both of Hsinchu, Taiwan

The ornamental design for an automatic document feeder, as shown and described.

[73] Assignee: **Umax Data System Inc.**, Taiwan, China

DESCRIPTION

[**] Term: **14 Years**

FIG. 1 is a top view;
FIG. 2 is a bottom view;
FIG. 3 is a left side elevational view;
FIG. 4 is a right side elevational view;
FIG. 5 is a rear elevational view;
FIG. 6 is a front elevational view;
FIG. 7 is a perspective view;

[21] Appl. No.: **38,439**

[22] Filed: **May 5, 1995**

[52] U.S. Cl. **D18/49**

[58] Field of Search D18/36-49, 55;
271/3, 3.1, 8.1, 9, 10, 18, 110, 111, 114,
116, 119, 122, 126, 147, 157, 171, 258;
355/200, 308, 309; 358/498

FIG. 8 is a perspective view of the automatic document feeder of the present invention showing the state of the document tray raised slantly;

[56] **References Cited**

U.S. PATENT DOCUMENTS

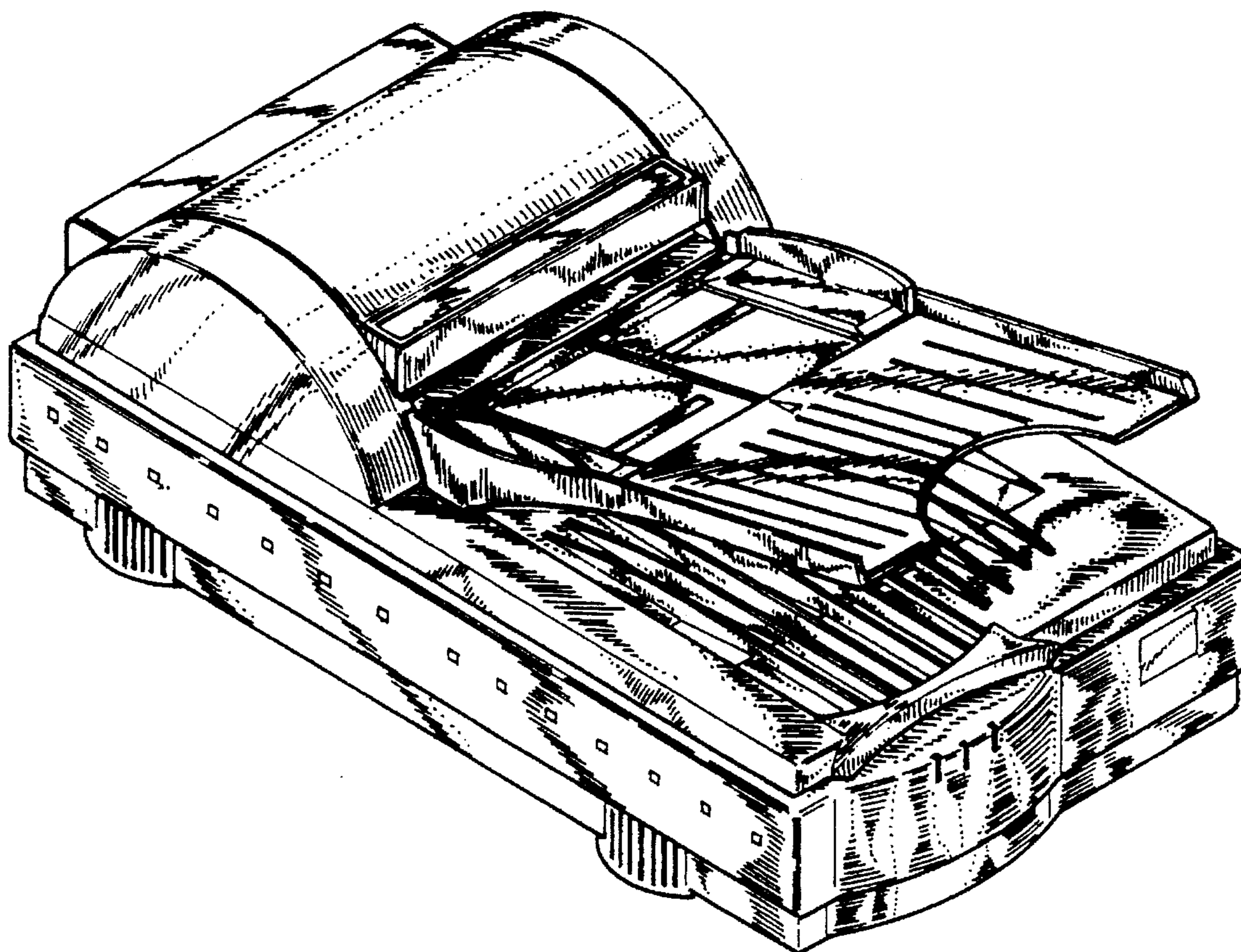
- D. 314,789 2/1991 Hirata et al. D18/36
- D. 322,626 12/1991 Imai D18/49
- D. 324,536 3/1992 Isomoto et al. D18/40 X

FIG. 9 is a perspective view of the automatic document feeder of the present invention showing the state of the cover raised slantly from the document tray; and,

FIG. 10 is an exploded perspective view of the automatic document feeder of the present invention.

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Attorney, Agent, or Firm—Shoemaker and Mattare, Ltd.

1 Claim, 7 Drawing Sheets



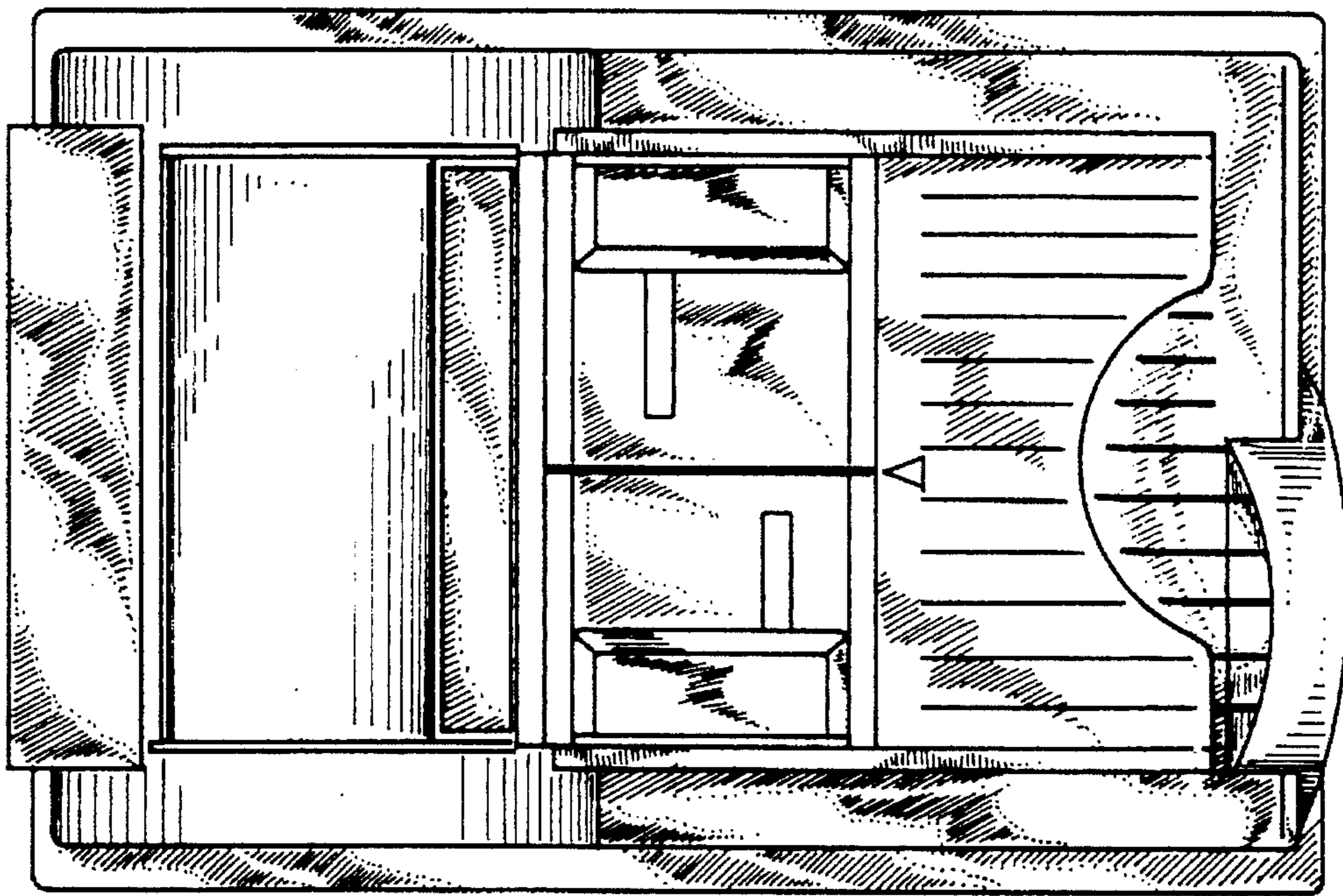


FIG. 1

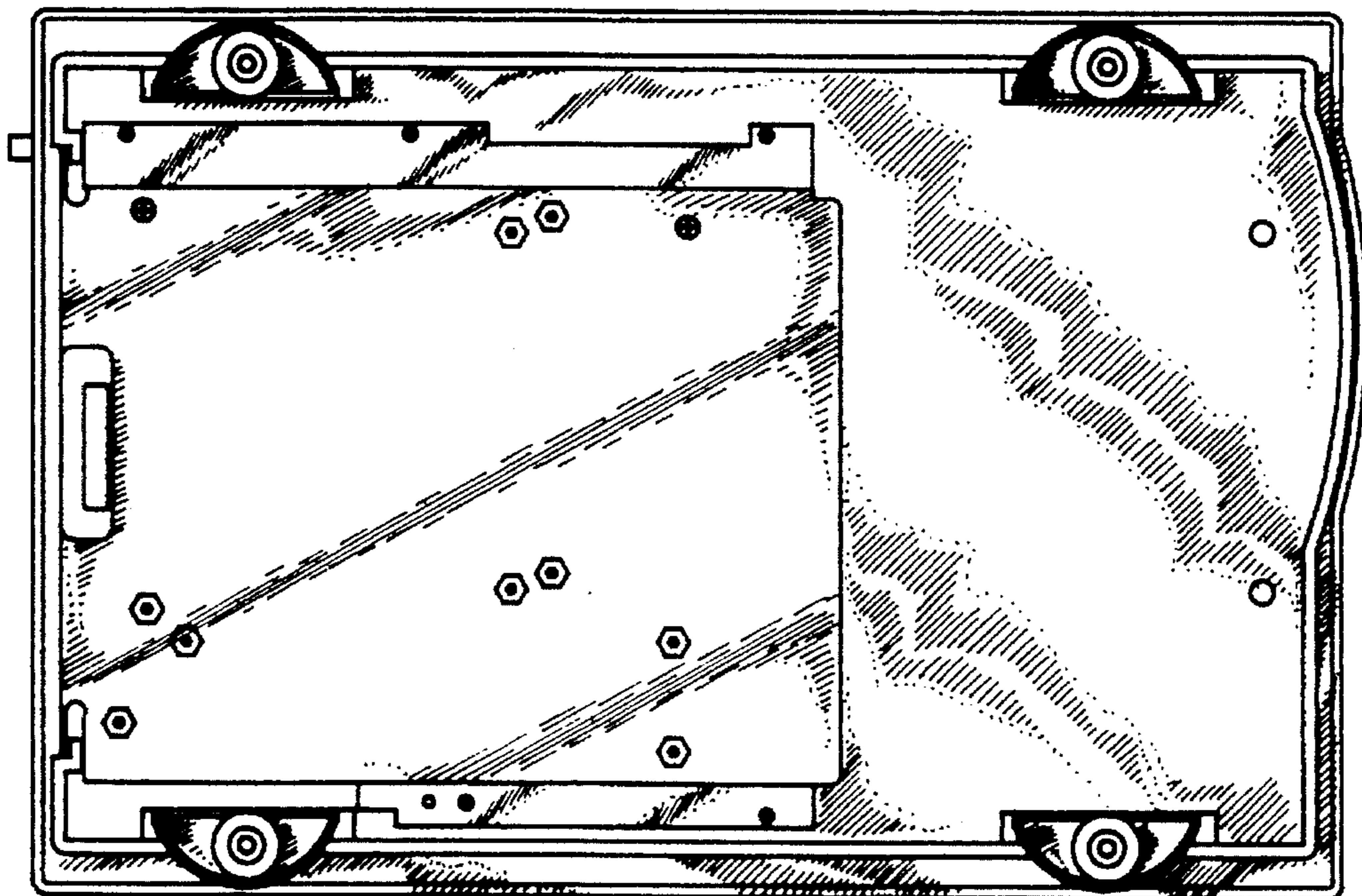


FIG. 2

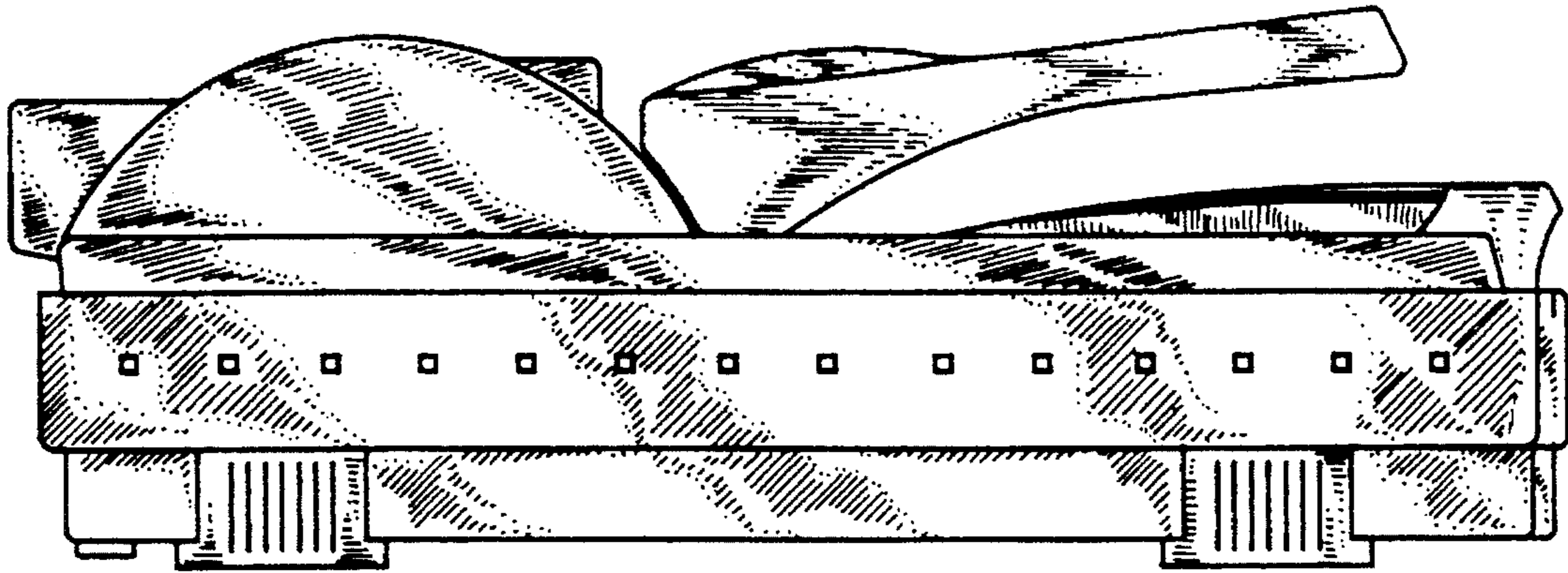


FIG. 3

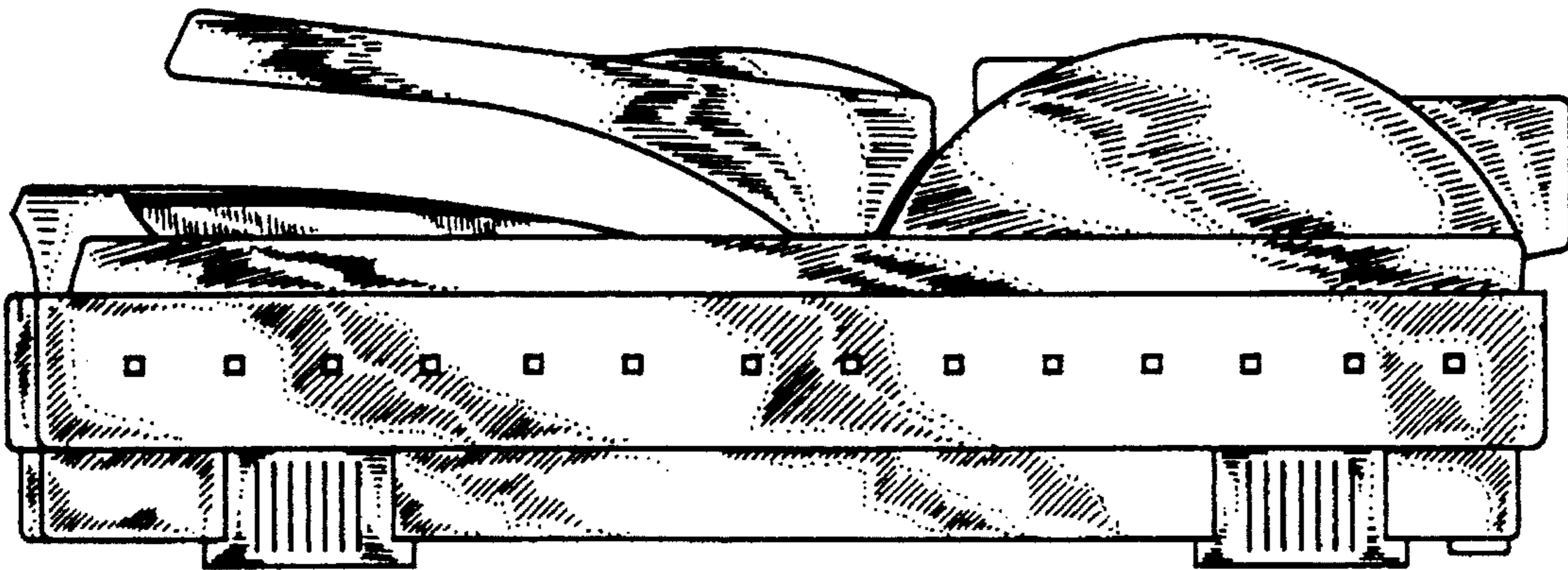


FIG. 4

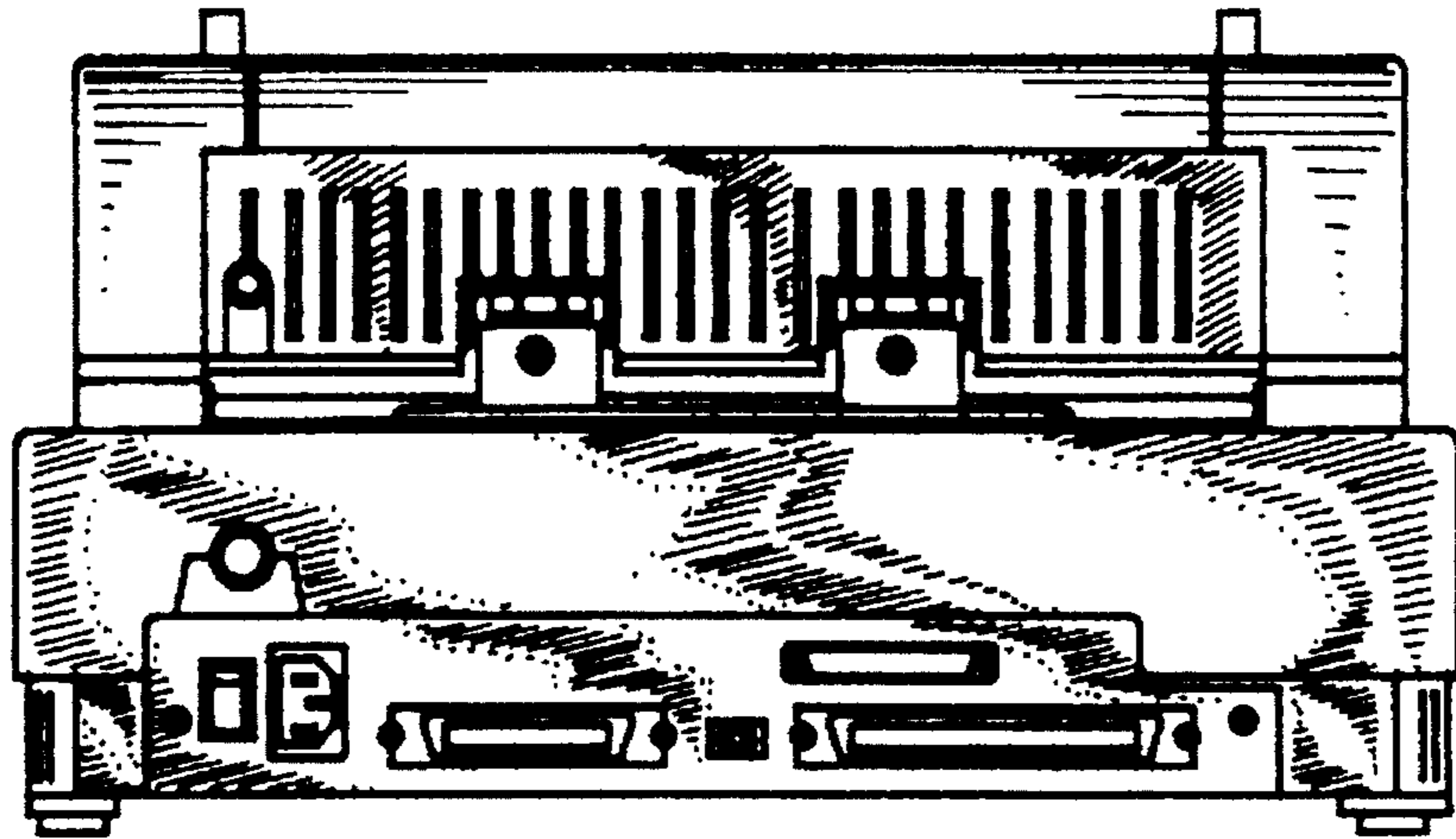


FIG. 5

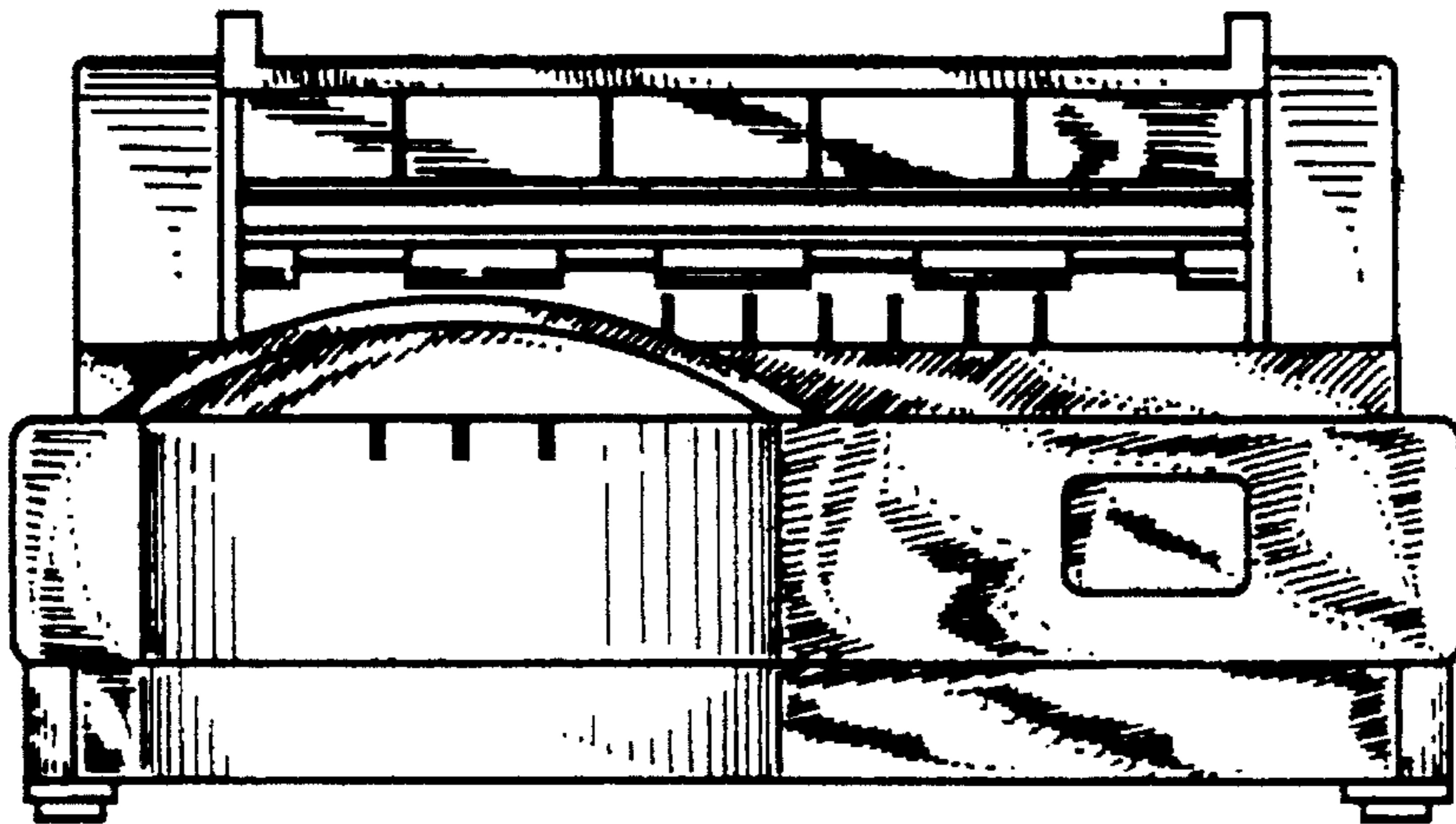


FIG. 6

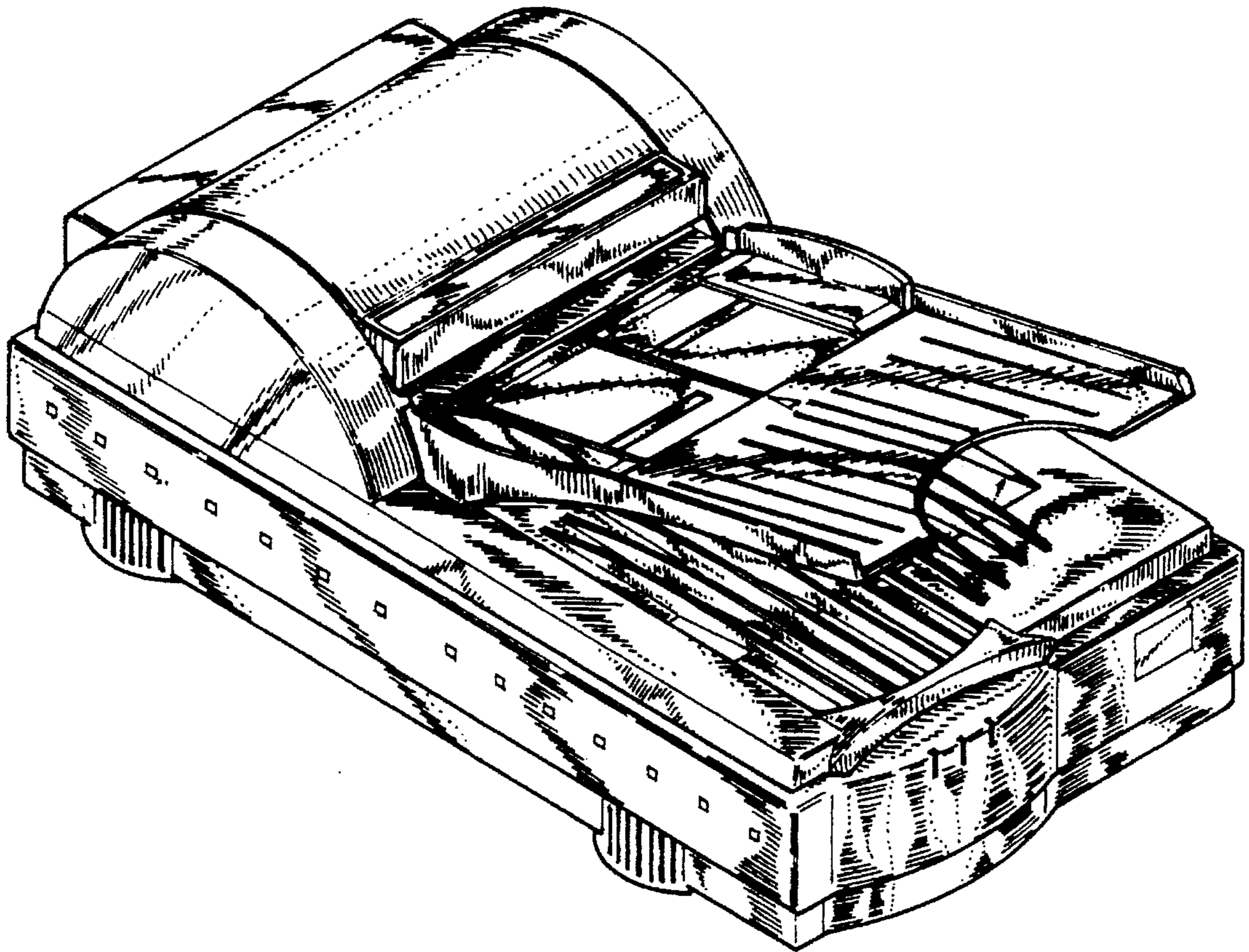


FIG. 7

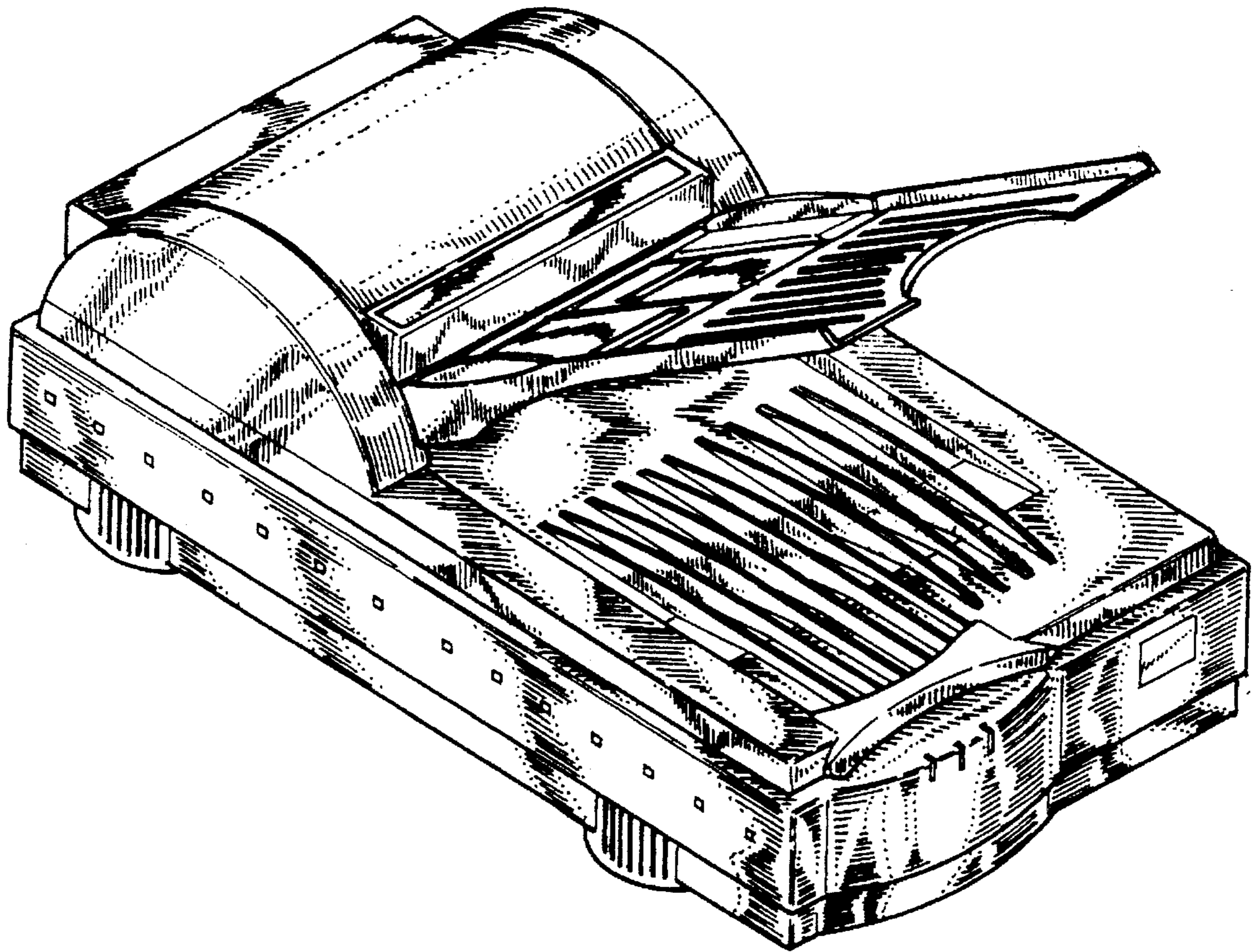


FIG. 8

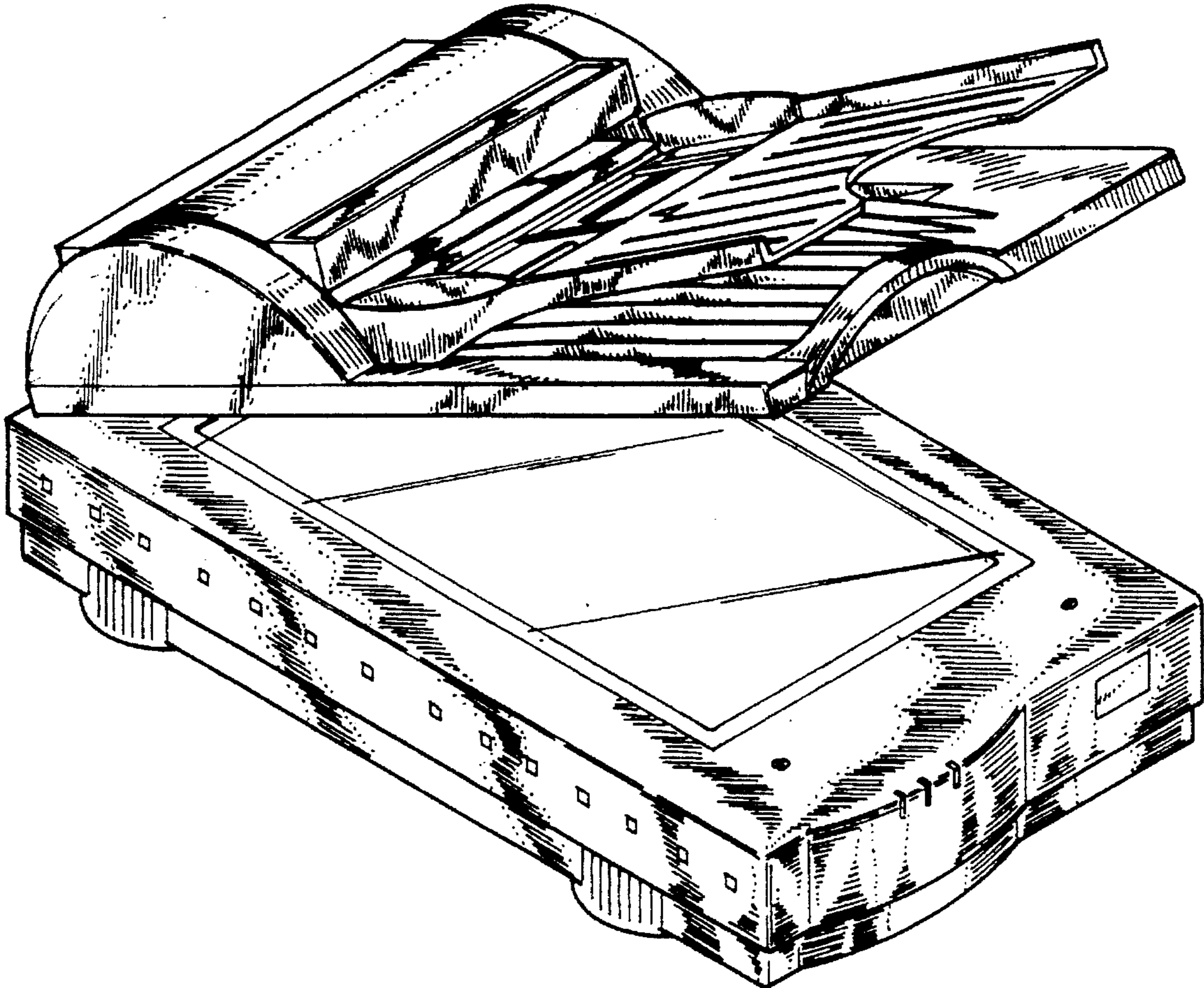
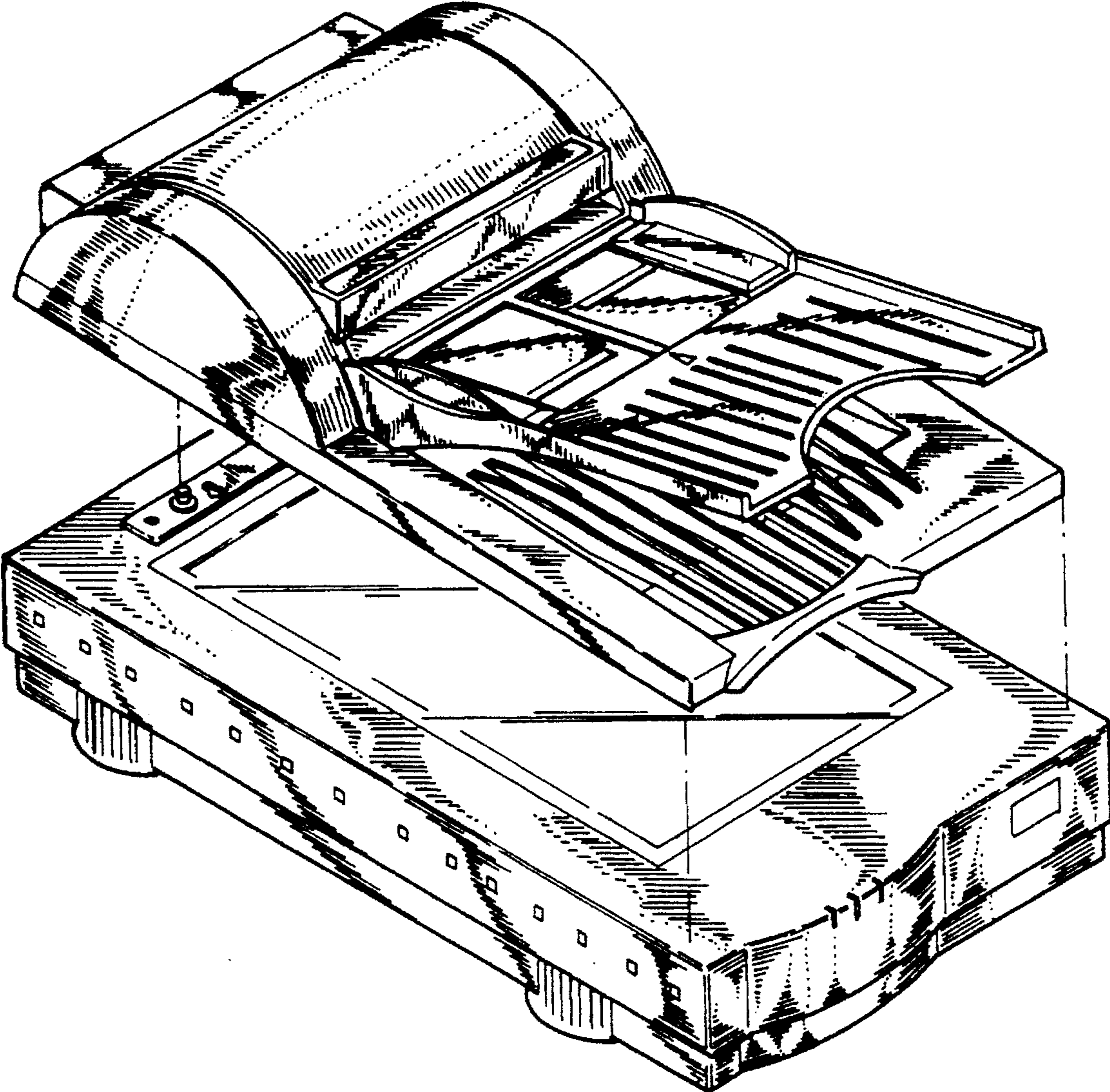


FIG. 9



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