



US00D339433S

United States Patent [19]

Stein et al.

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[45] Date of Patent: **** Sep. 14, 1993**

[54] **VACUUM CLEANER**

[75] Inventors: **Klaus Stein; Heinz Kaulig**, both of Velbert, Fed. Rep. of Germany

[73] Assignee: **Stein & Co. GmbH**, Velbert, Fed. Rep. of Germany

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

[21] Appl. No.: **748,453**

[22] Filed: **Aug. 22, 1991**

Related U.S. Application Data

[63] Continuation-in-part of Ser. No. 747,185, Mar. 19, 1991.

Foreign Application Priority Data

Apr. 18, 1991 [DE] Fed. Rep. of Germany 9104750

[52] U.S. Cl. **D32/22**

[58] Field of Search **D32/21-22, D32/32-34; 15/323-326, 327.6, 335, 350-351, 361, 377, 412**

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Primary Examiner—Ruth McInroy

Attorney, Agent, or Firm—Nils H. Ljungman & Associates

[57] CLAIM

The ornamental design for a vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a front perspective view of a vacuum cleaner showing our new design;

FIG. 2 is a rear perspective view thereof;

FIG. 3 is a front elevational view thereof;

FIG. 4 is a left side elevational view thereof;

FIG. 5 is a right side elevational view thereof;

FIG. 6 is a top plan view thereof;

FIG. 7 is a bottom plan view thereof;

FIG. 8 is a front perspective view of a second embodiment thereof;

FIG. 9 is a rear perspective view thereof;

FIG. 10 is a front elevational view thereof;

FIG. 11 is a left side elevational view thereof;

FIG. 12 is a right side elevational view thereof;

FIG. 13 is a top plan view thereof;

FIG. 14 is a bottom plan view thereof;

FIG. 15 is a front perspective view of a third embodiment thereof;

FIG. 16 is a rear perspective view thereof;

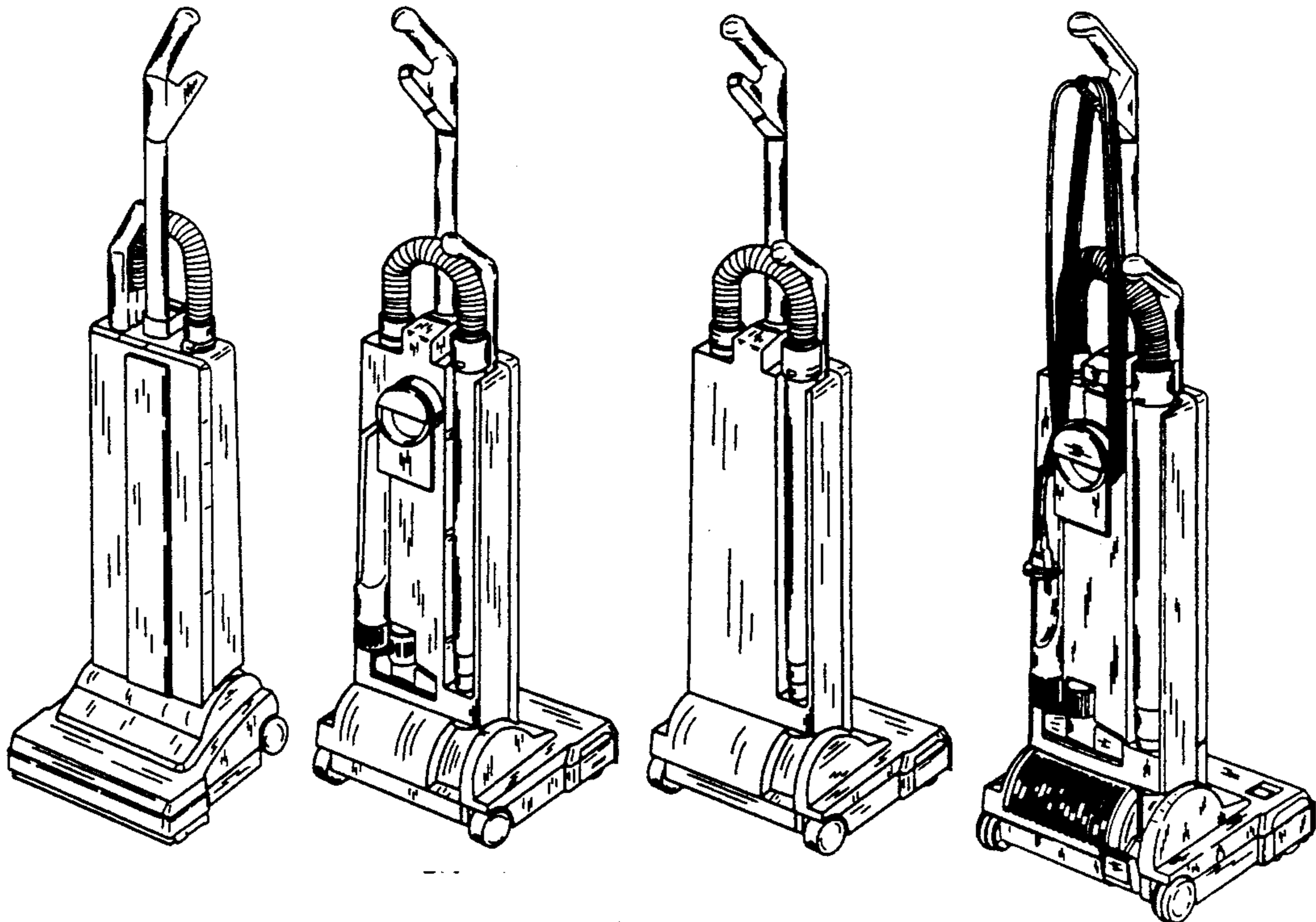
FIG. 17 is a front elevational view thereof;

FIG. 18 is a left side elevational view thereof;

FIG. 19 is a top plan view thereof; and,

FIG. 20 is a bottom plan view thereof.

The electric cord is shown broken away in FIGS. 18-20 for ease of illustration and is understood to look like the cord in FIG. 16.



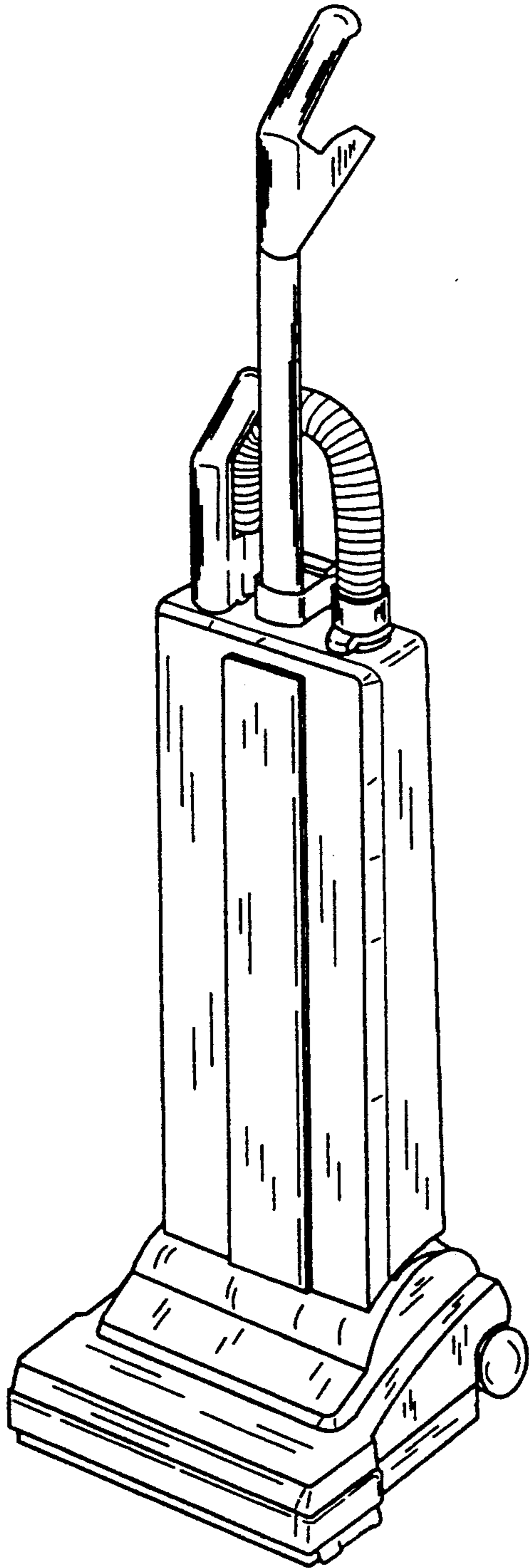


FIG. 1

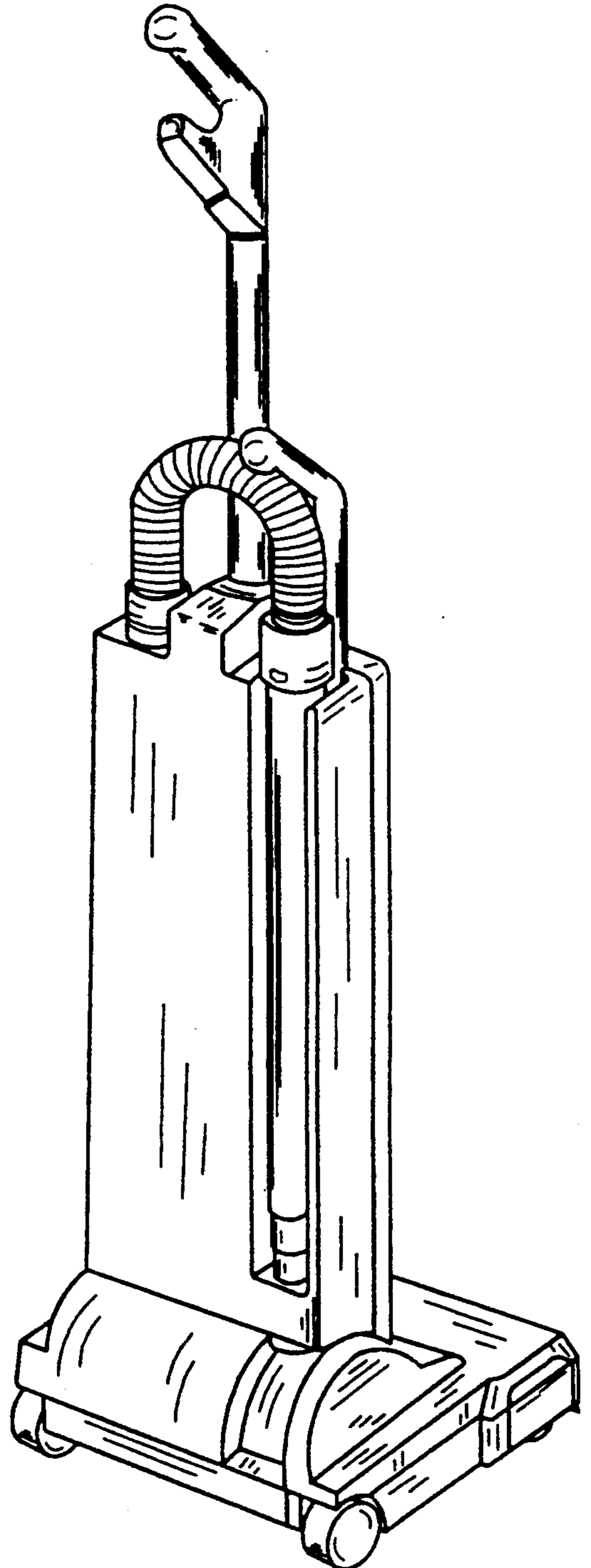


FIG. 2

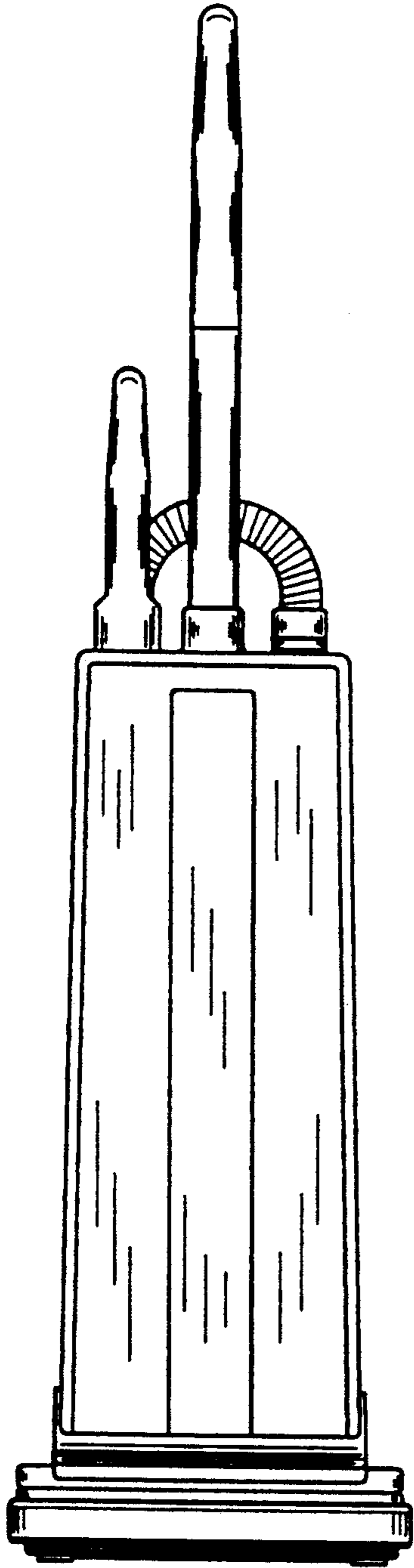


FIG. 3

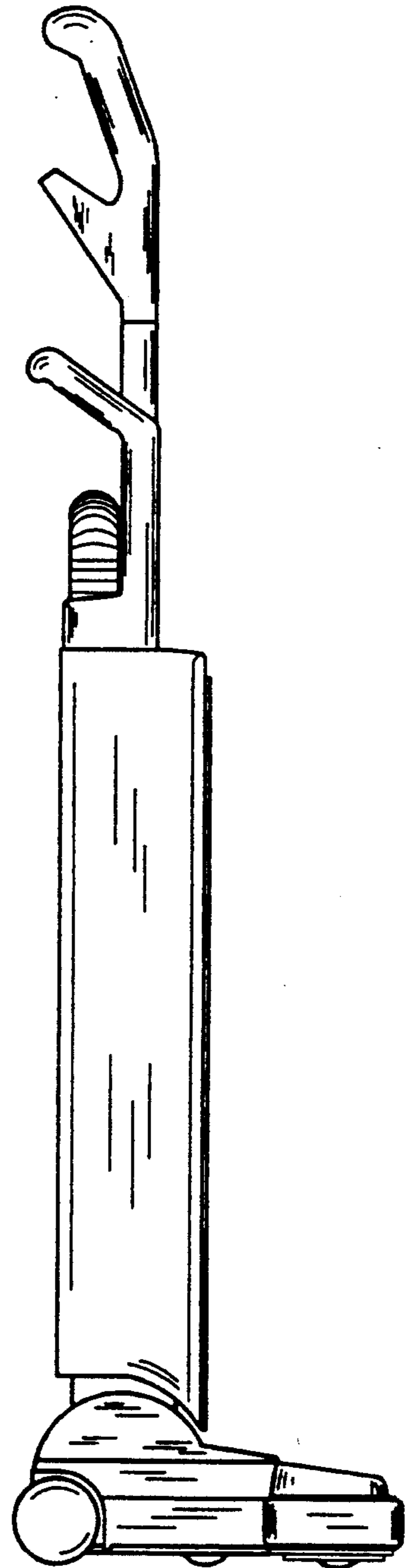


FIG. 4

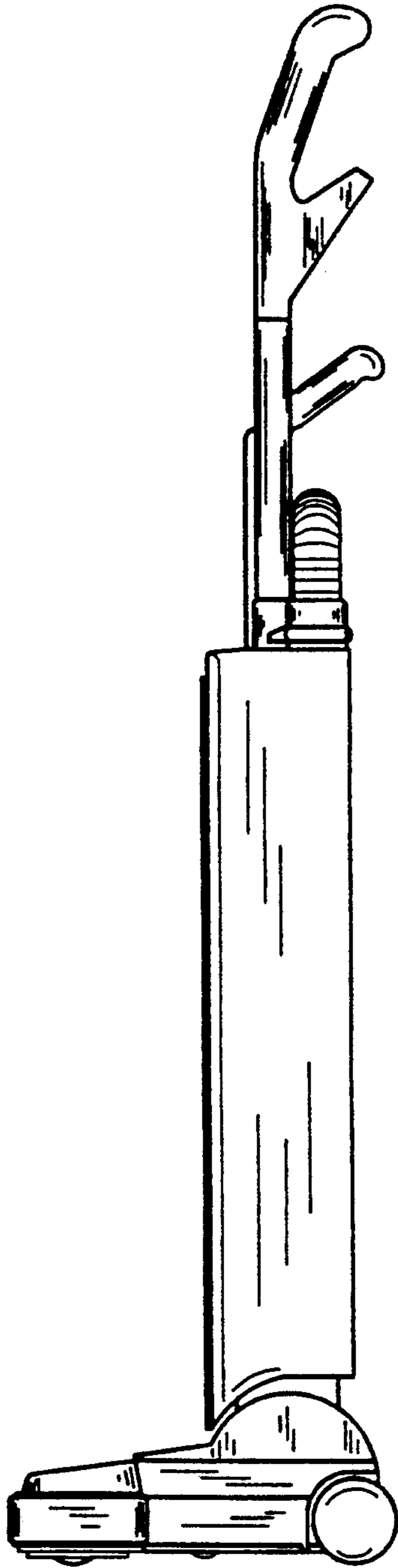


FIG. 5

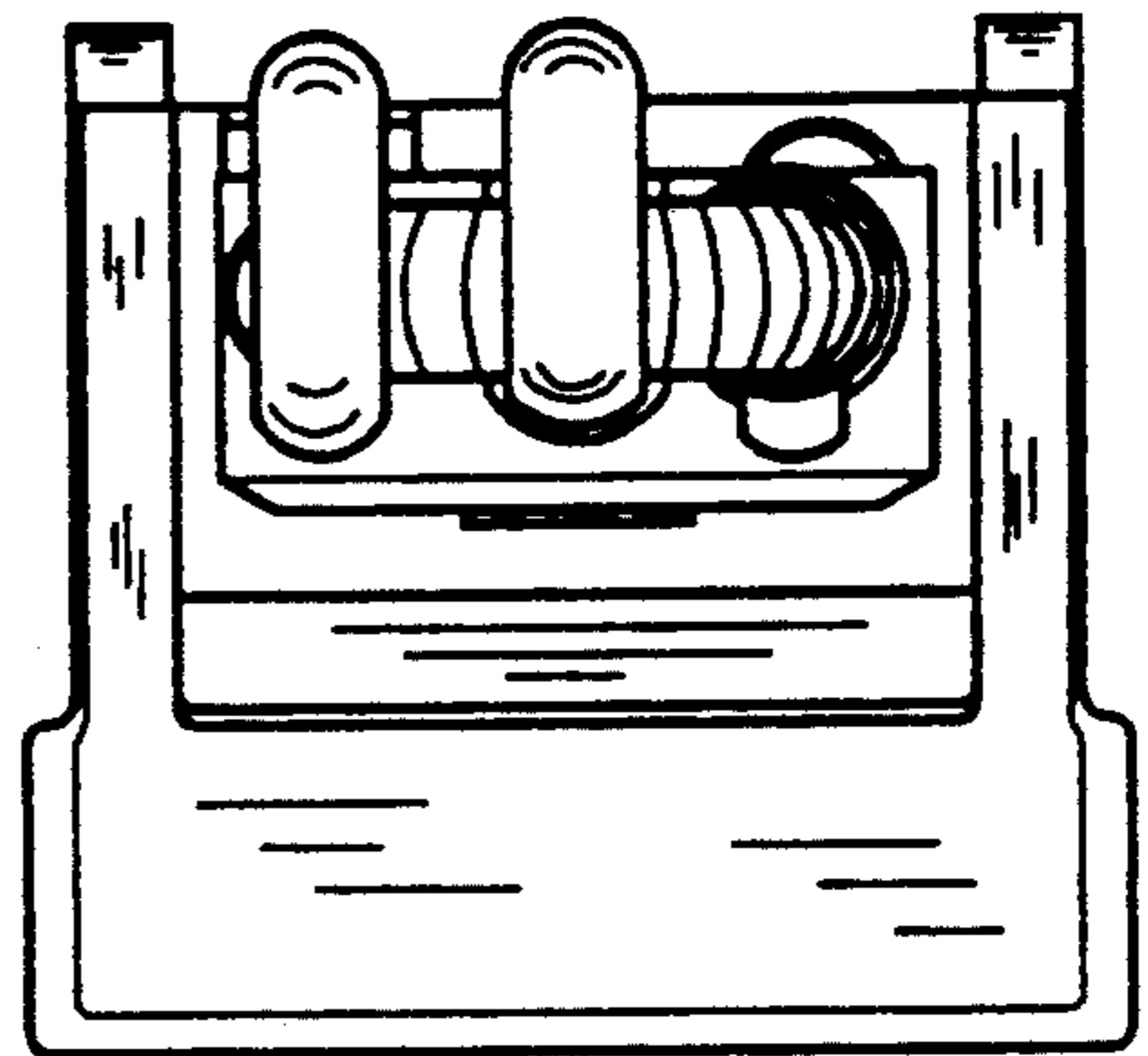


FIG. 6

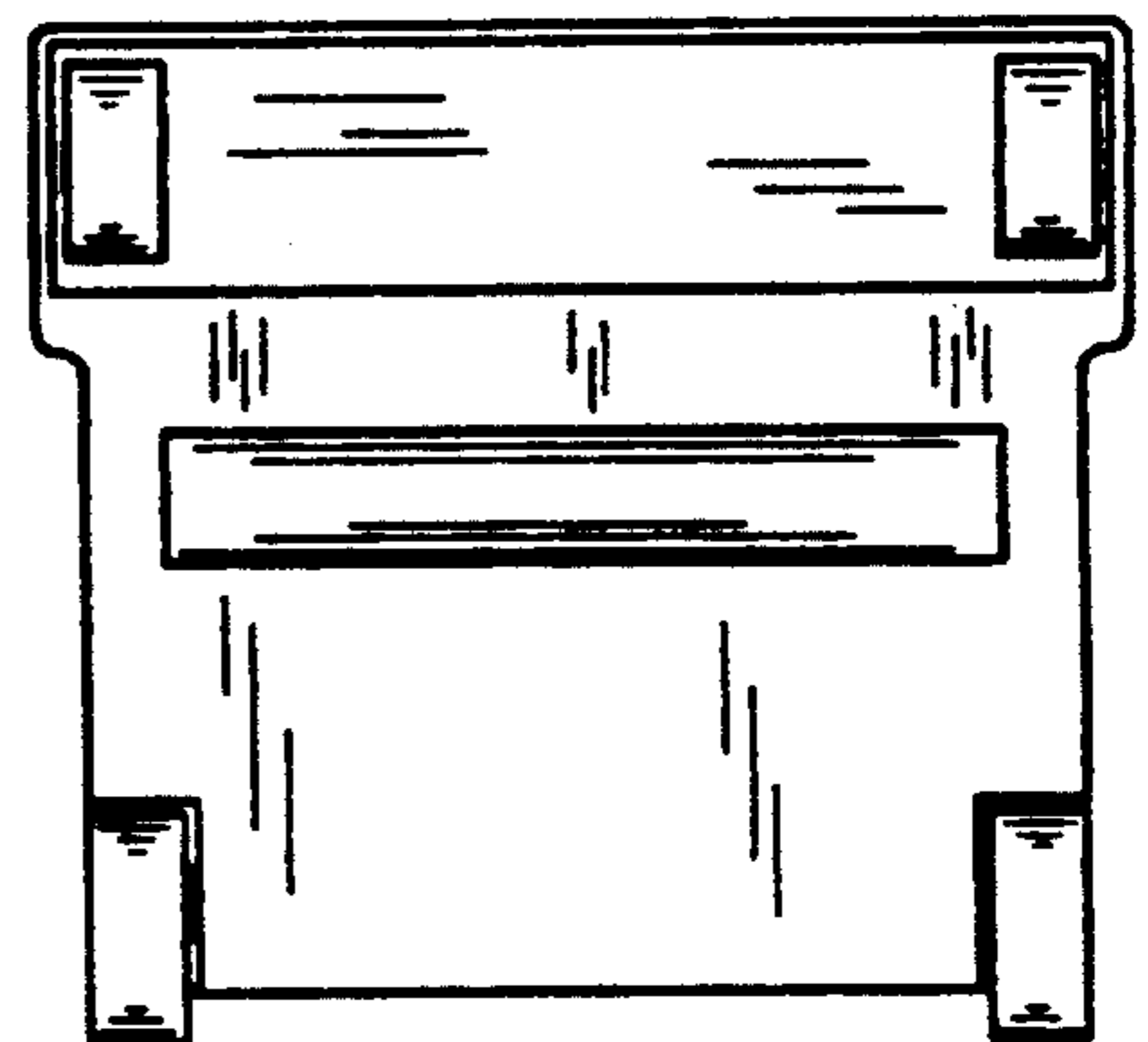


FIG. 7

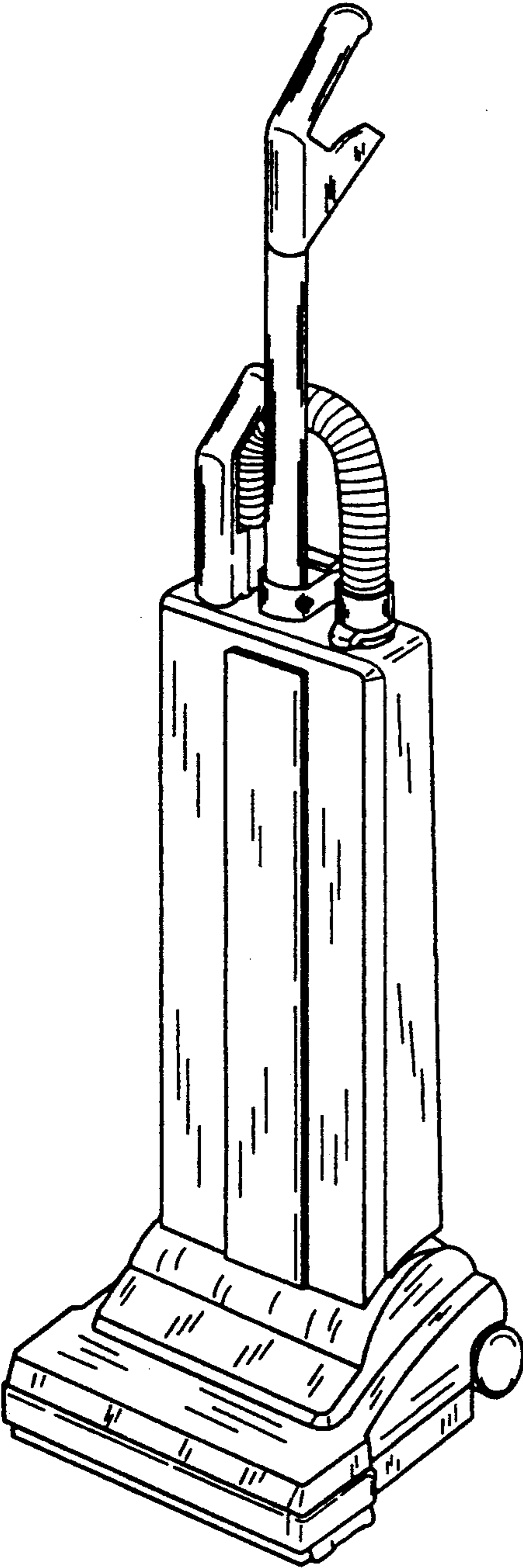


FIG. 8

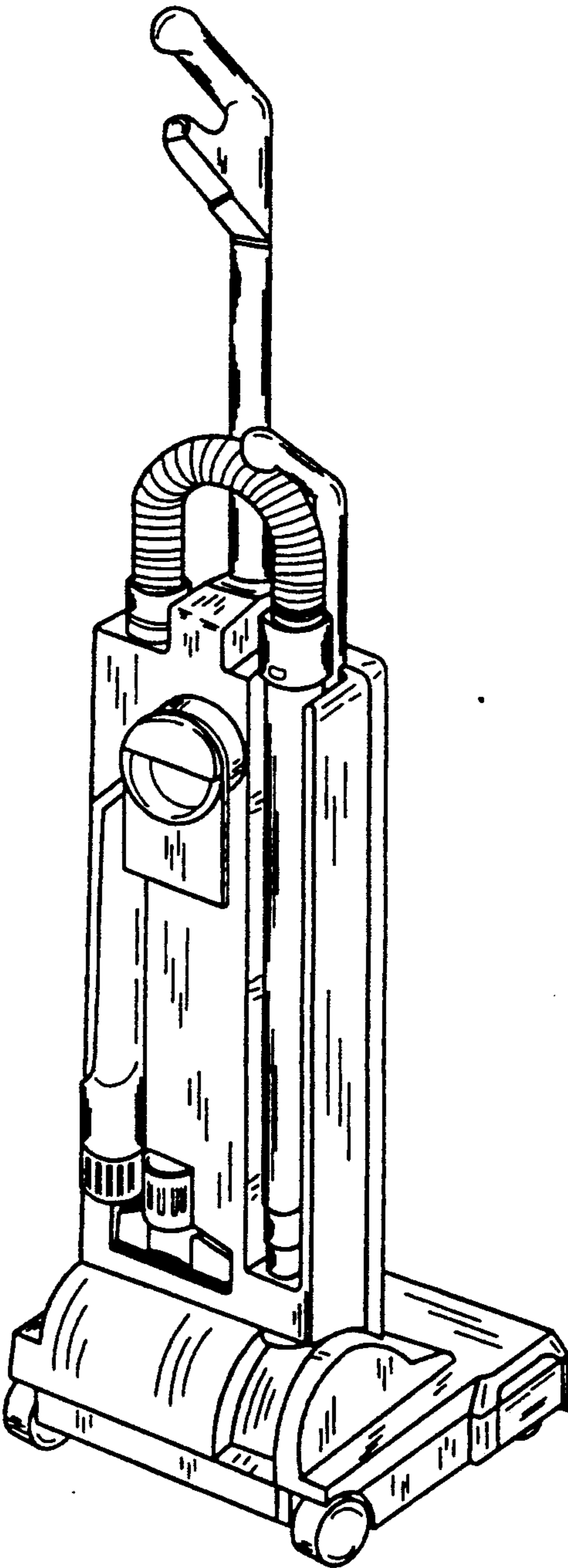


FIG. 9

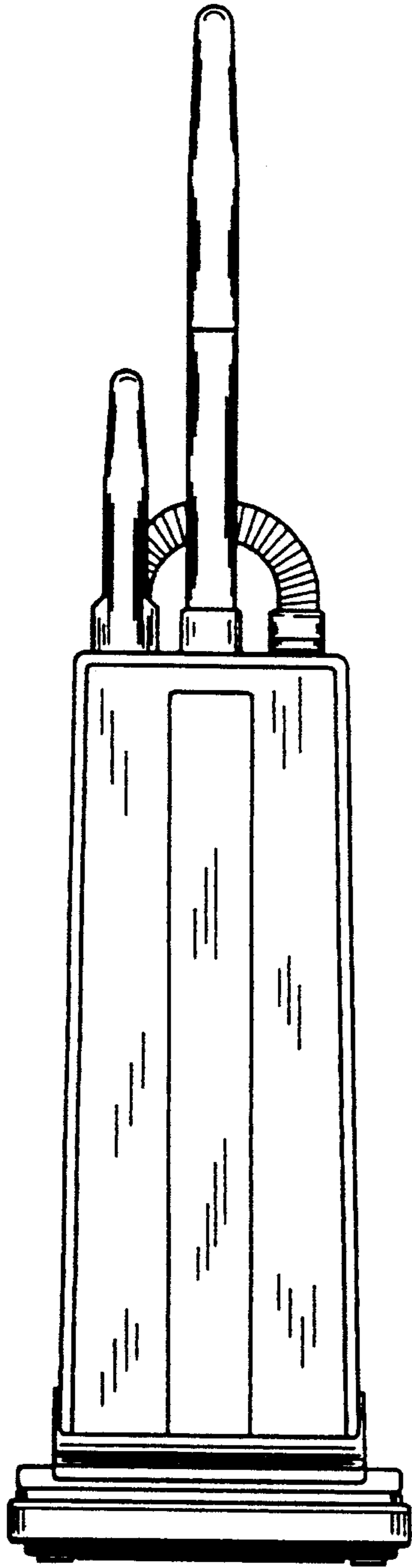


FIG. 10

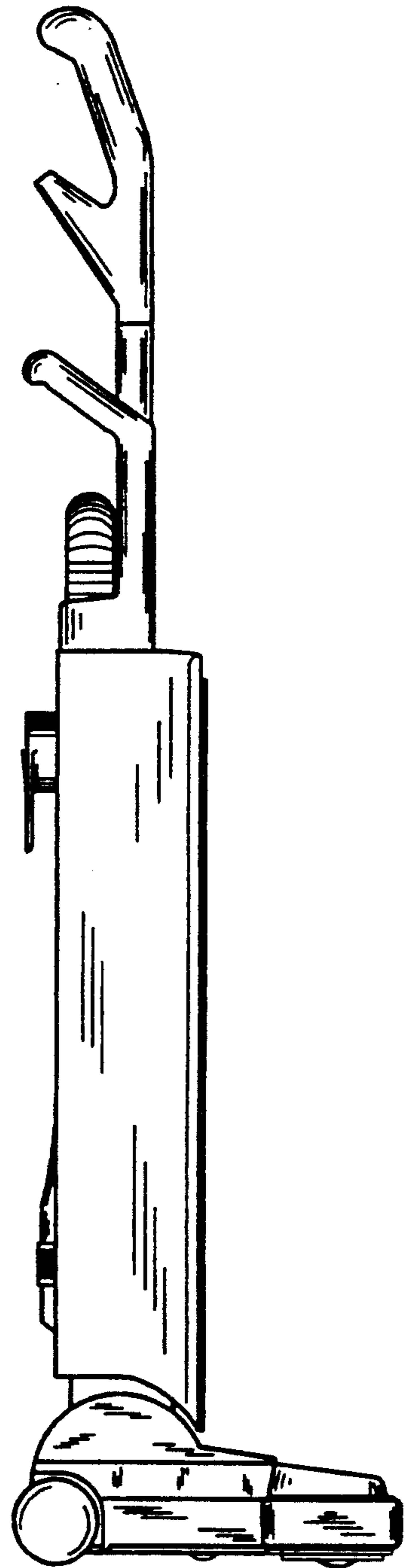


FIG. 11

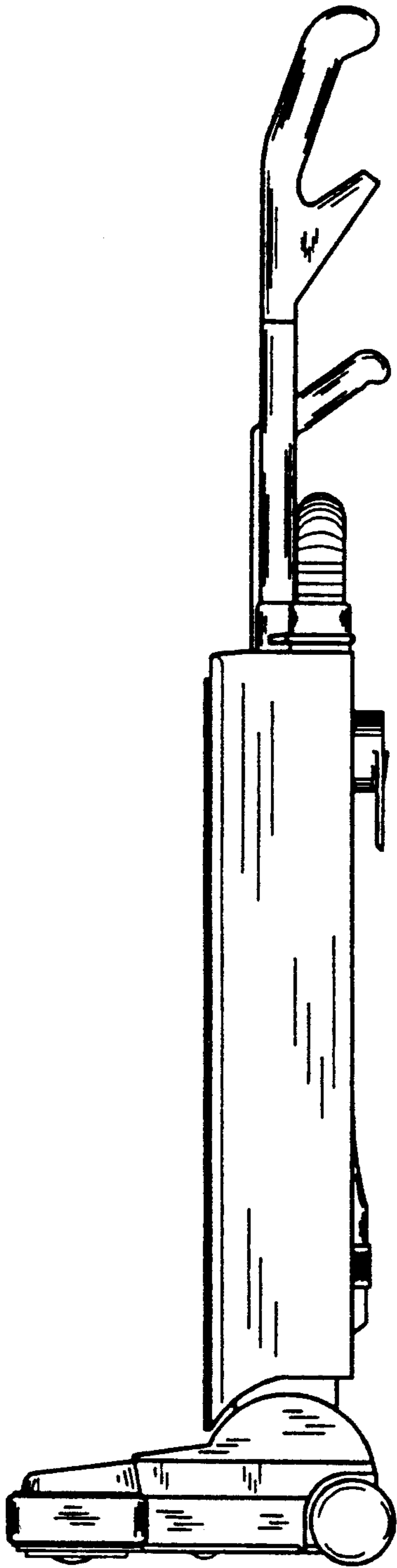


FIG. 12

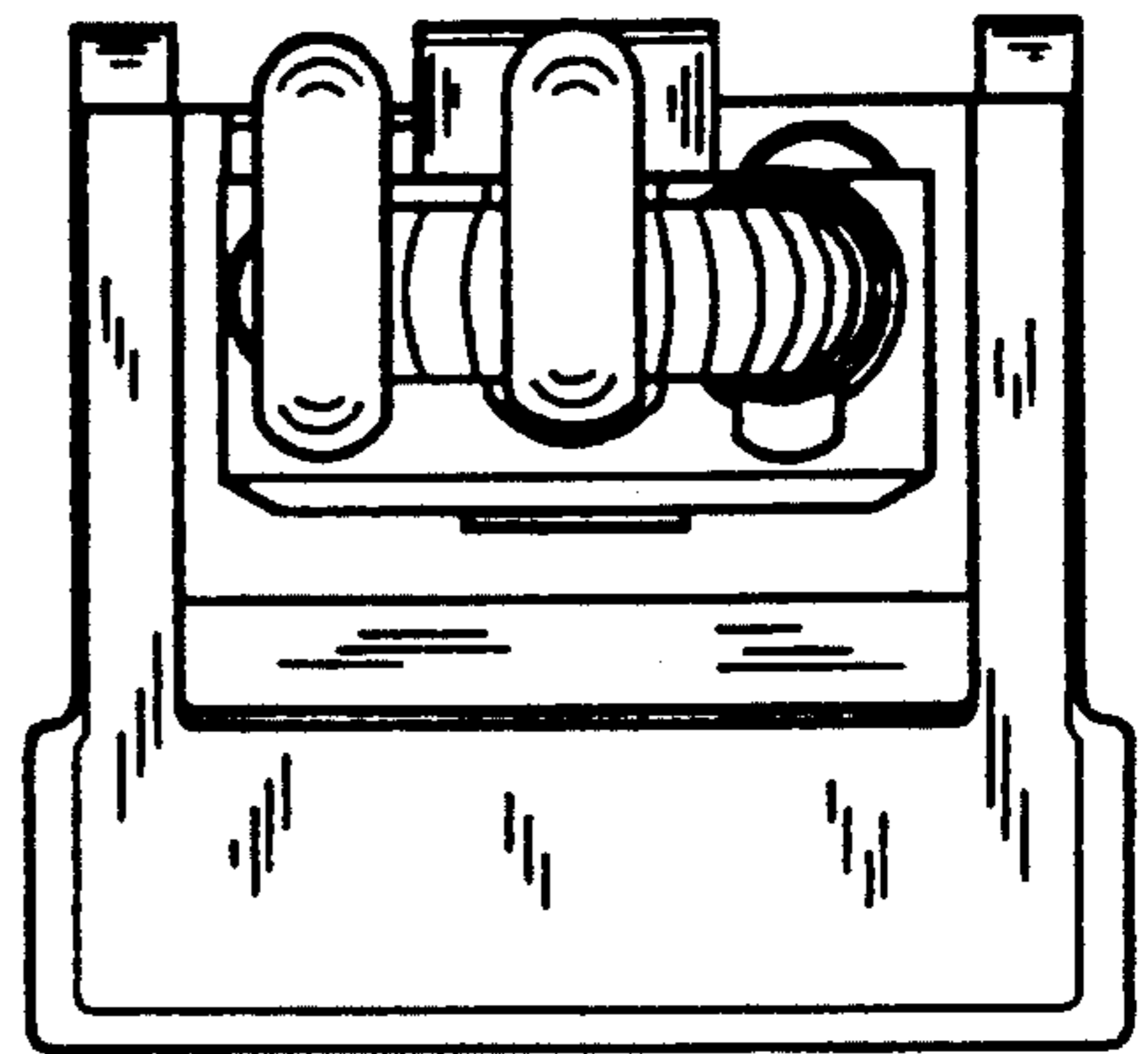


FIG. 13

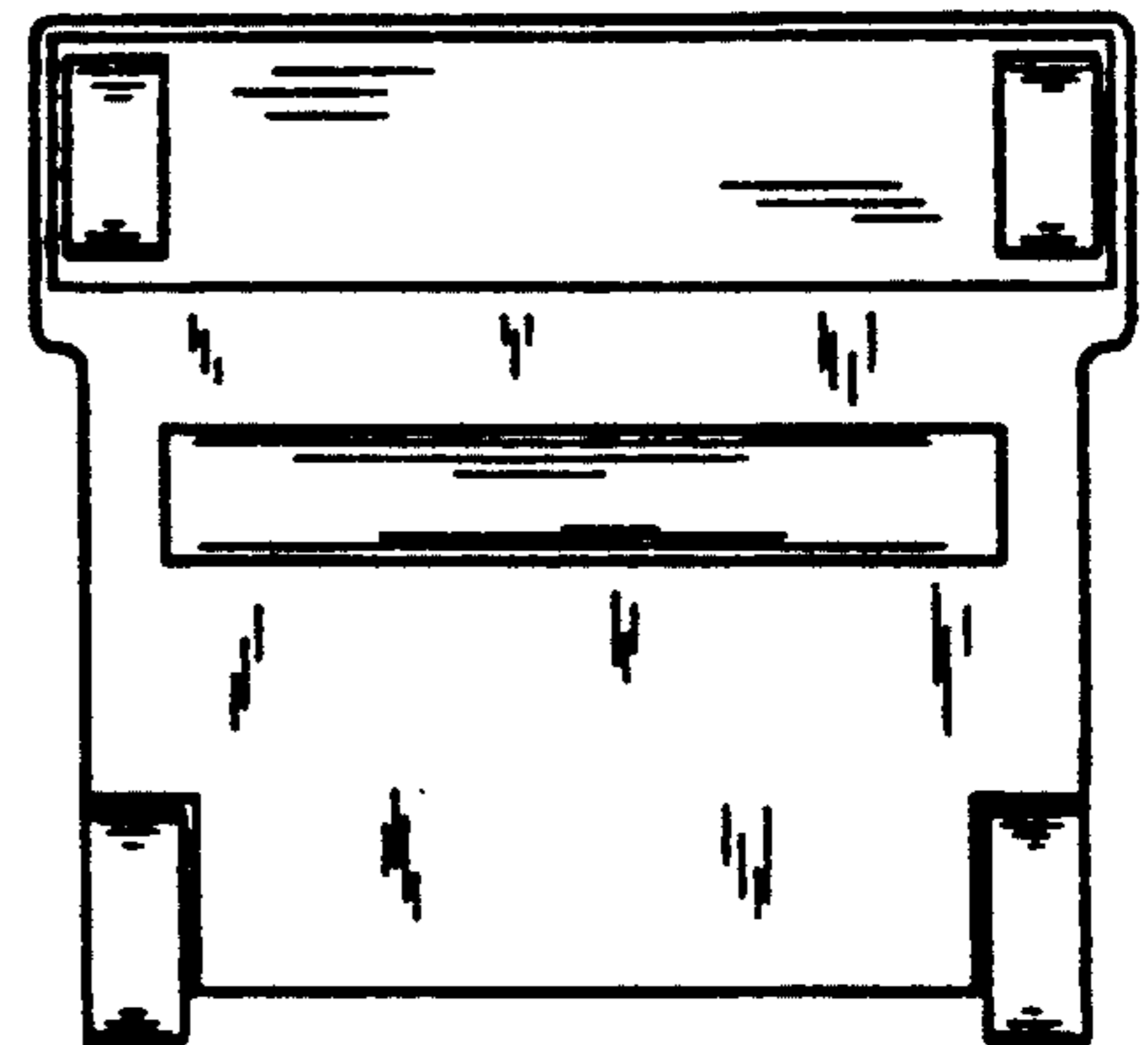


FIG. 14

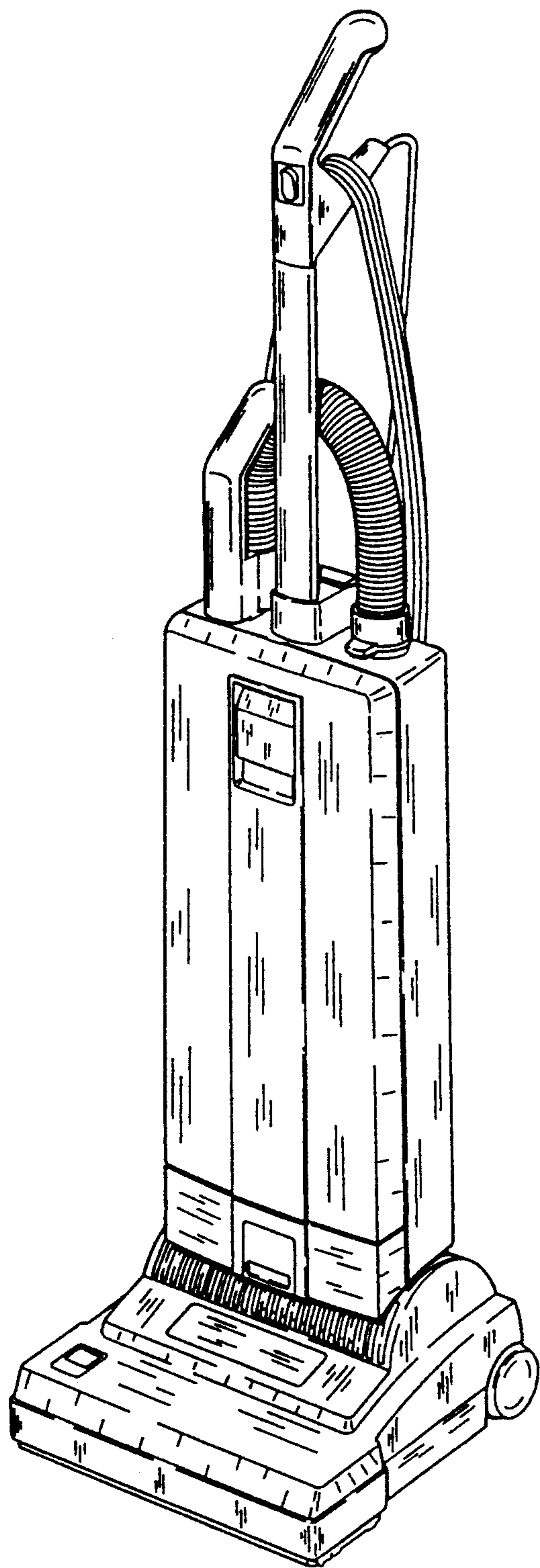


FIG. 15

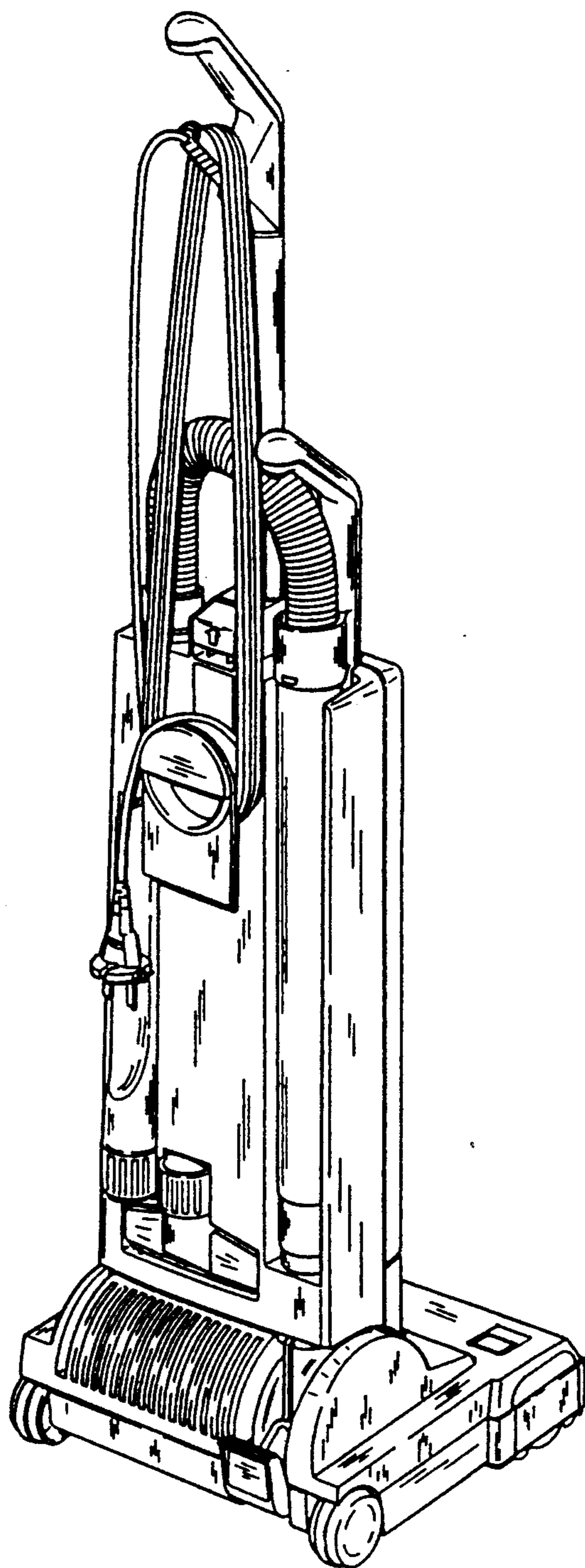


FIG. 16

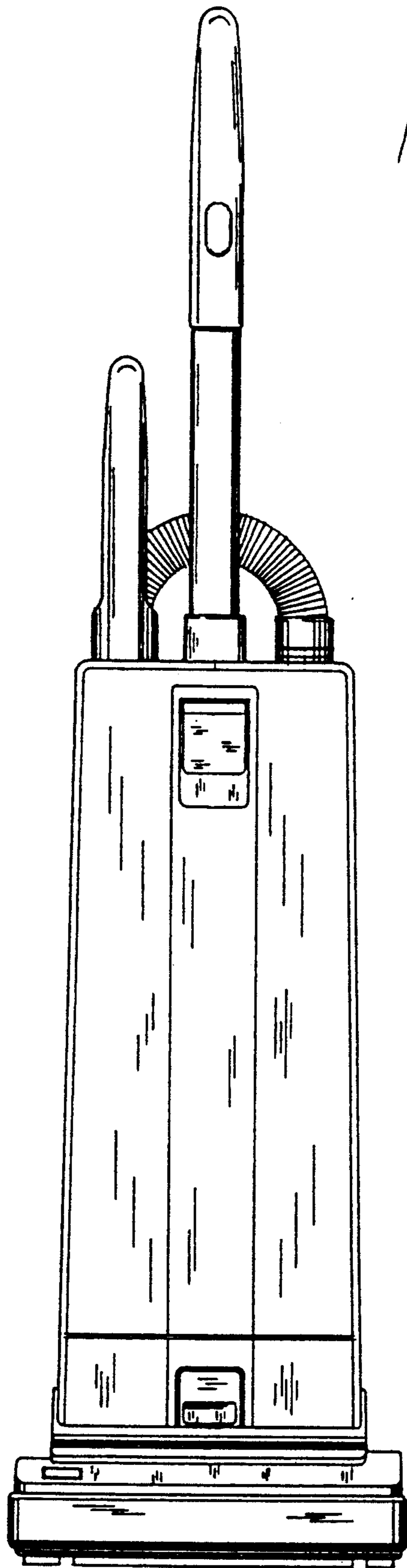


FIG. 17

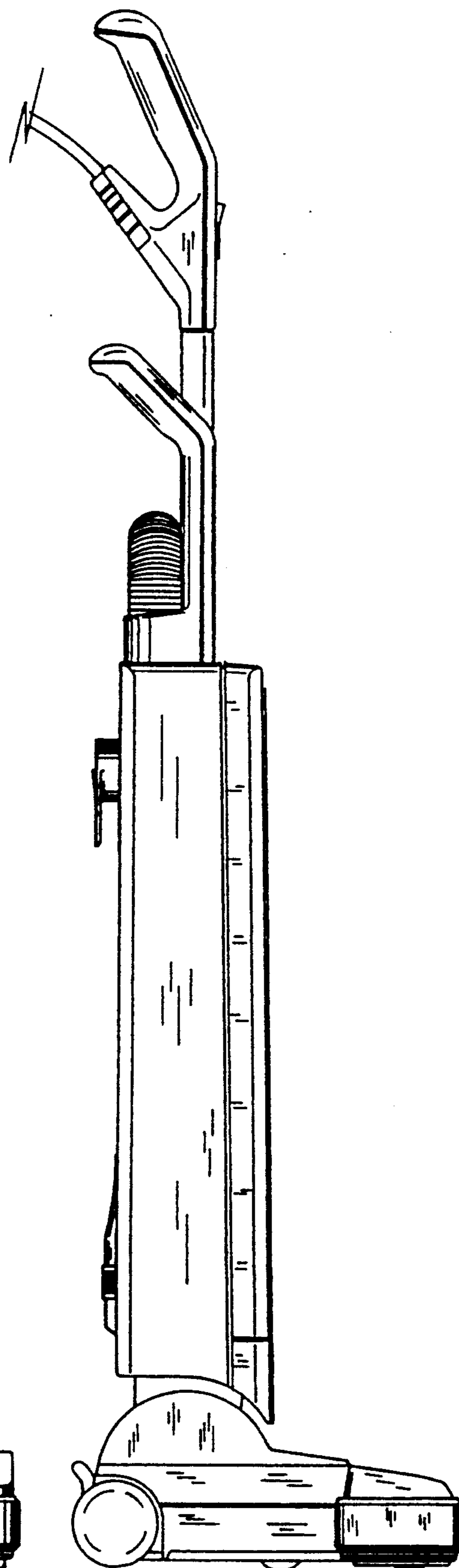


FIG. 18

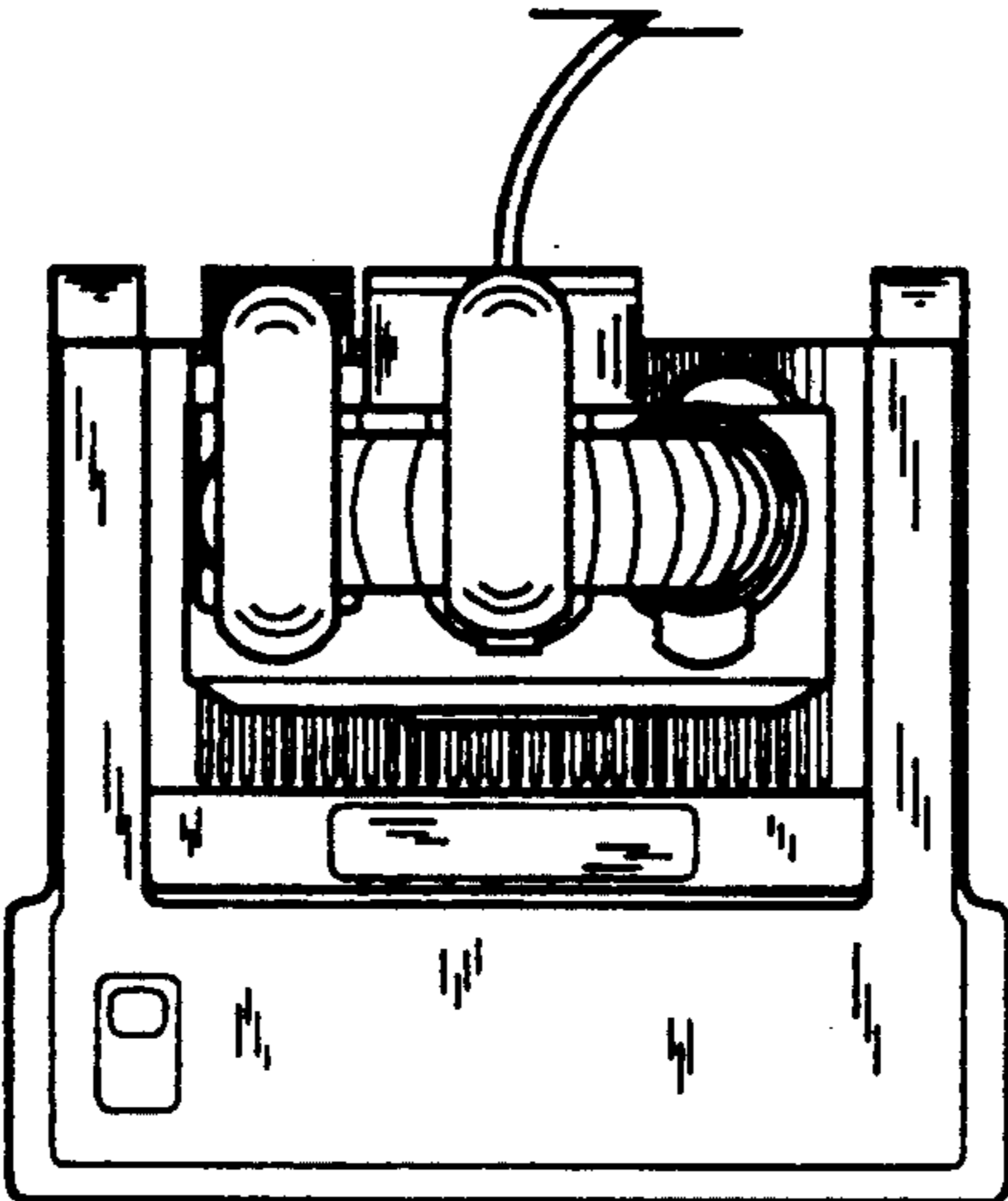


FIG. 19

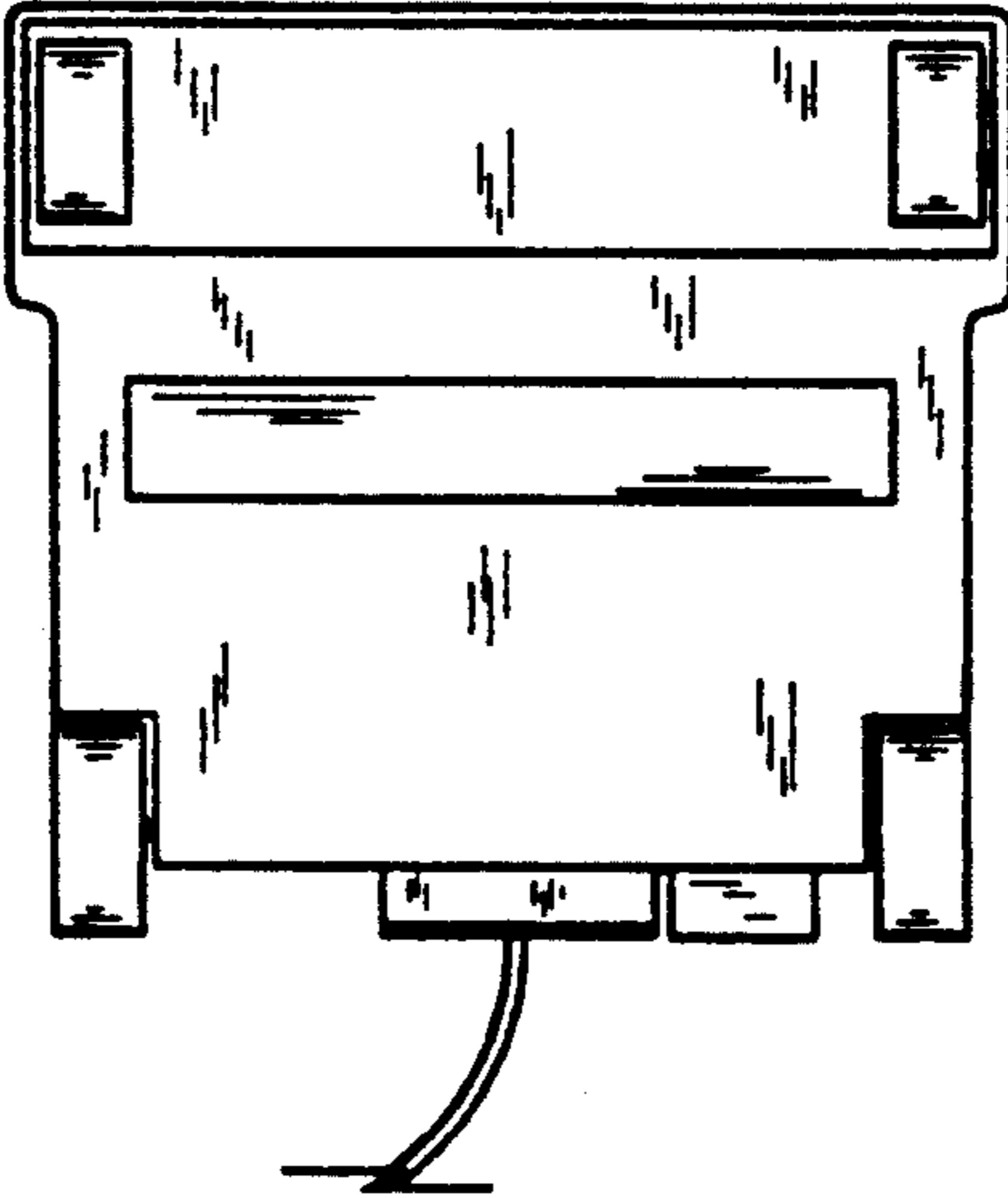


FIG. 20