

United States Patent [19]

Ikeda

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[54] **VACUUM CLEANER**

[75] Inventor: Mafumi Ikeda, Osaka, Japan

[73] Assignee: Sharp Corporation, Osaka, Japan

[**] Term: 14 Years

[21] Appl. No.: 426,089

[22] Filed: Oct. 24, 1989

[30] **Foreign Application Priority Data**

Apr. 25, 1989 [JP] Japan 1-15668

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

[58] Field of Search D32/21-22,
D32/31, 34; 15/347, 349-352, 354, 362, 410,
412, 413

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Albritton & Herbert

[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 my new design;

FIG. 2 is a front elevational view thereof;

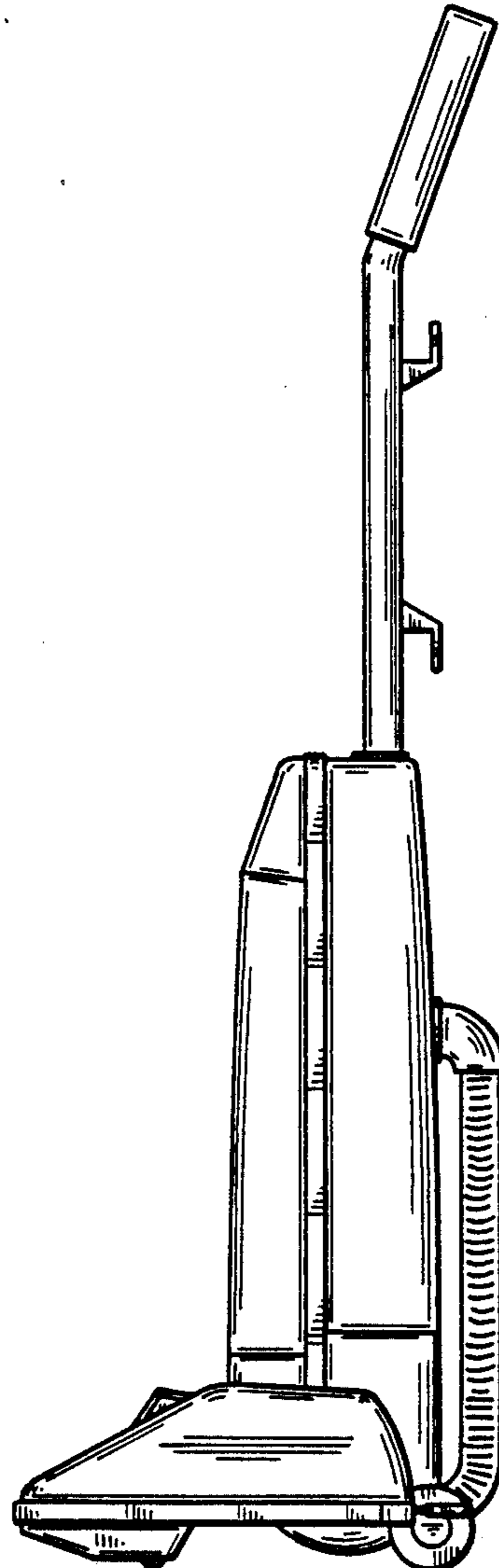
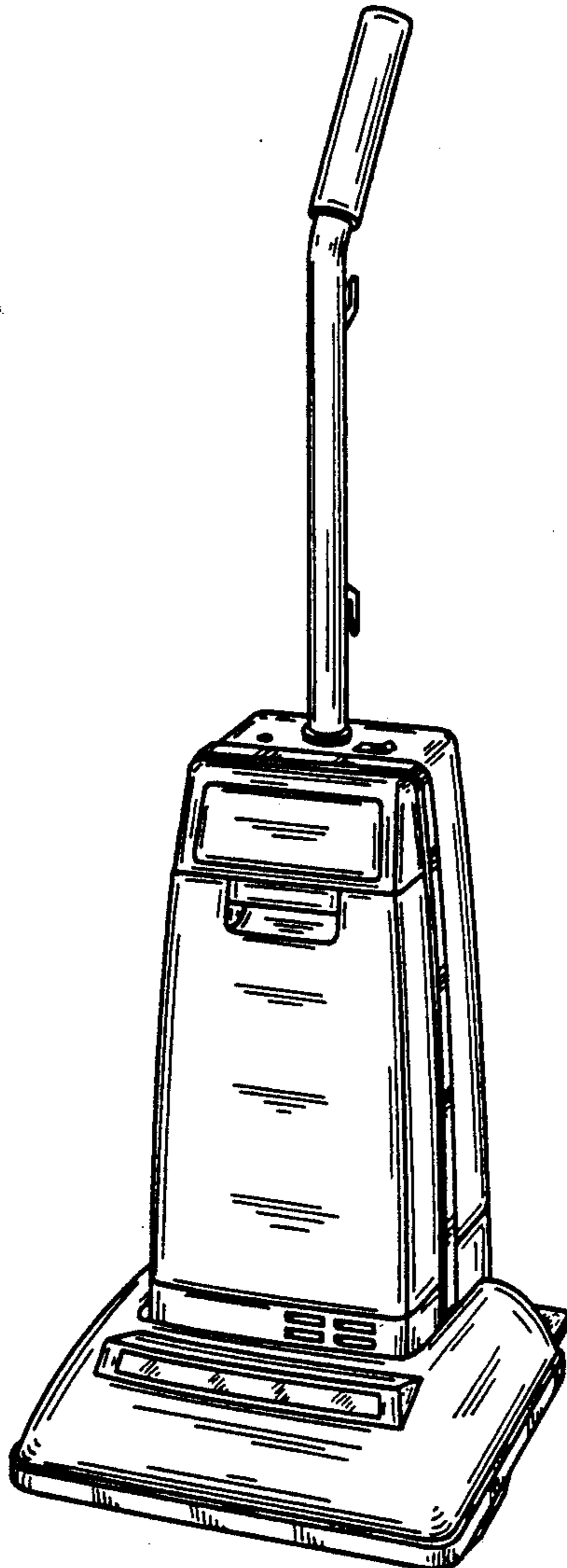
FIG. 3 is a rear elevational view thereof;

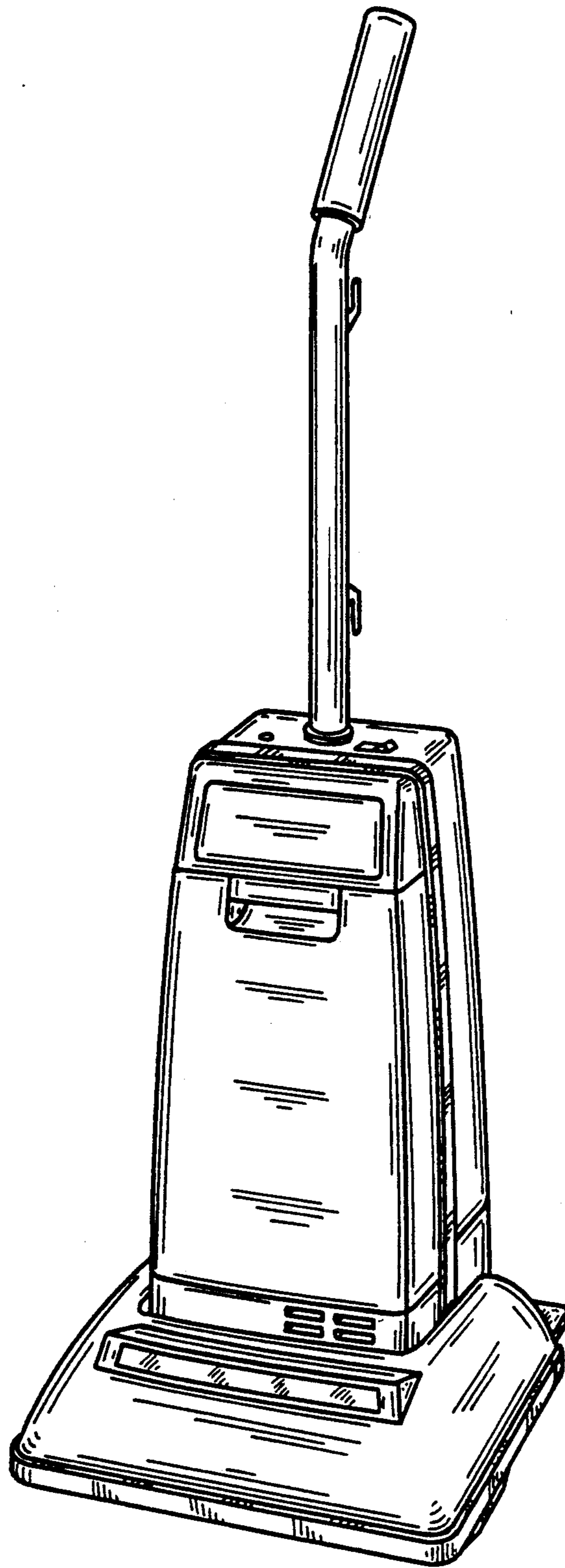
FIG. 4 is a top plan view thereof;

FIG. 5 is a bottom plan view thereof;

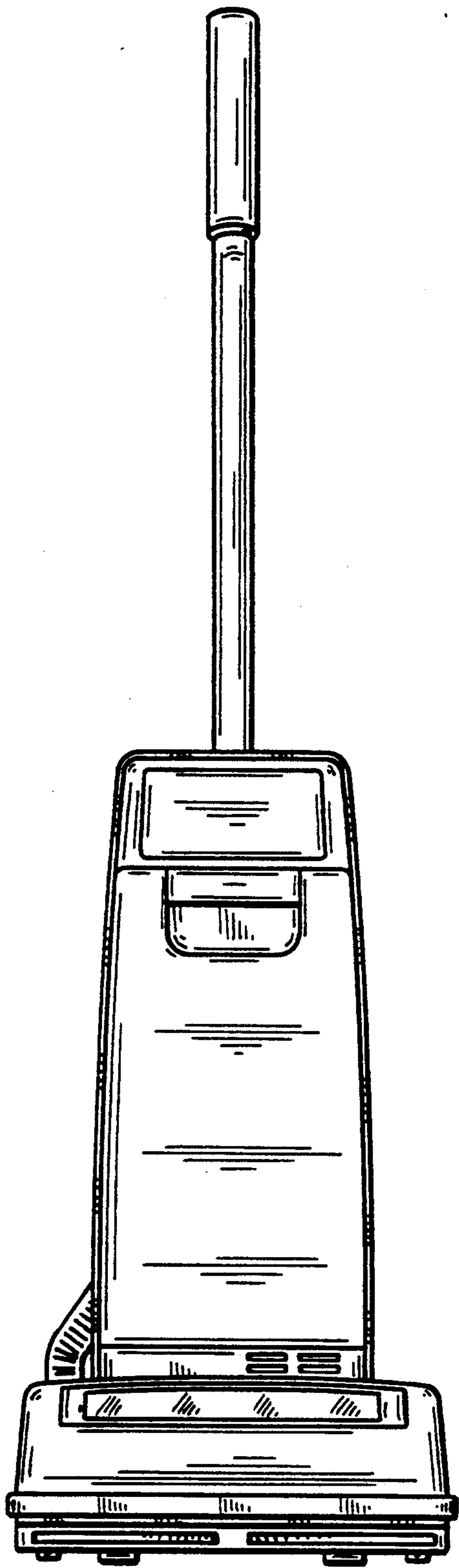
FIG. 6 is a right side elevational view thereof; and

FIG. 7 is a left side elevational view thereof.

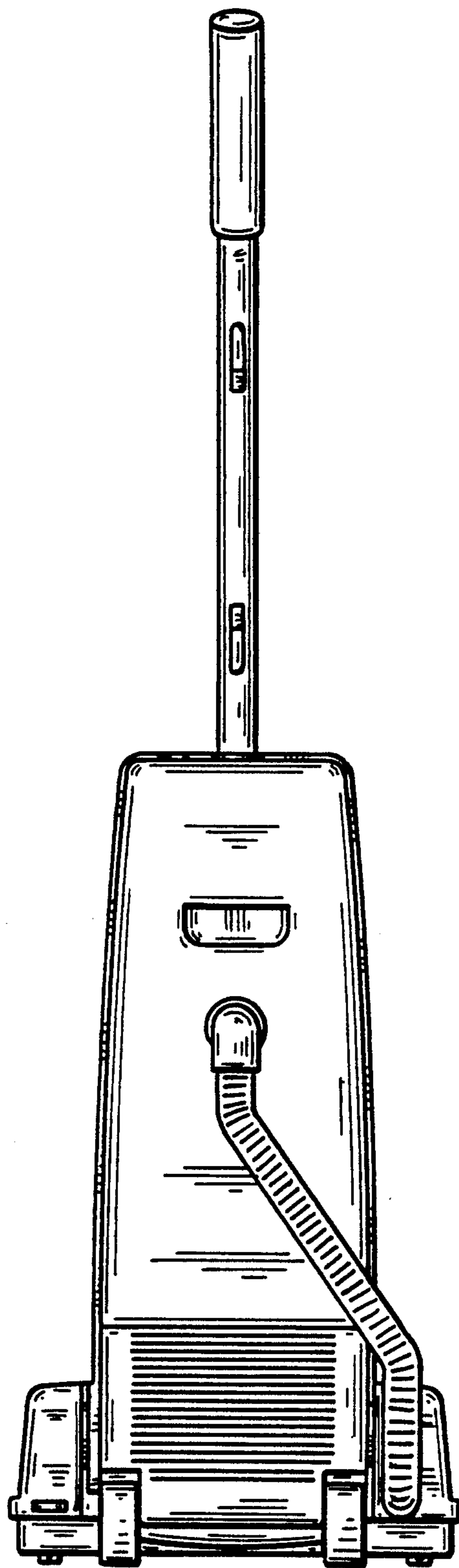




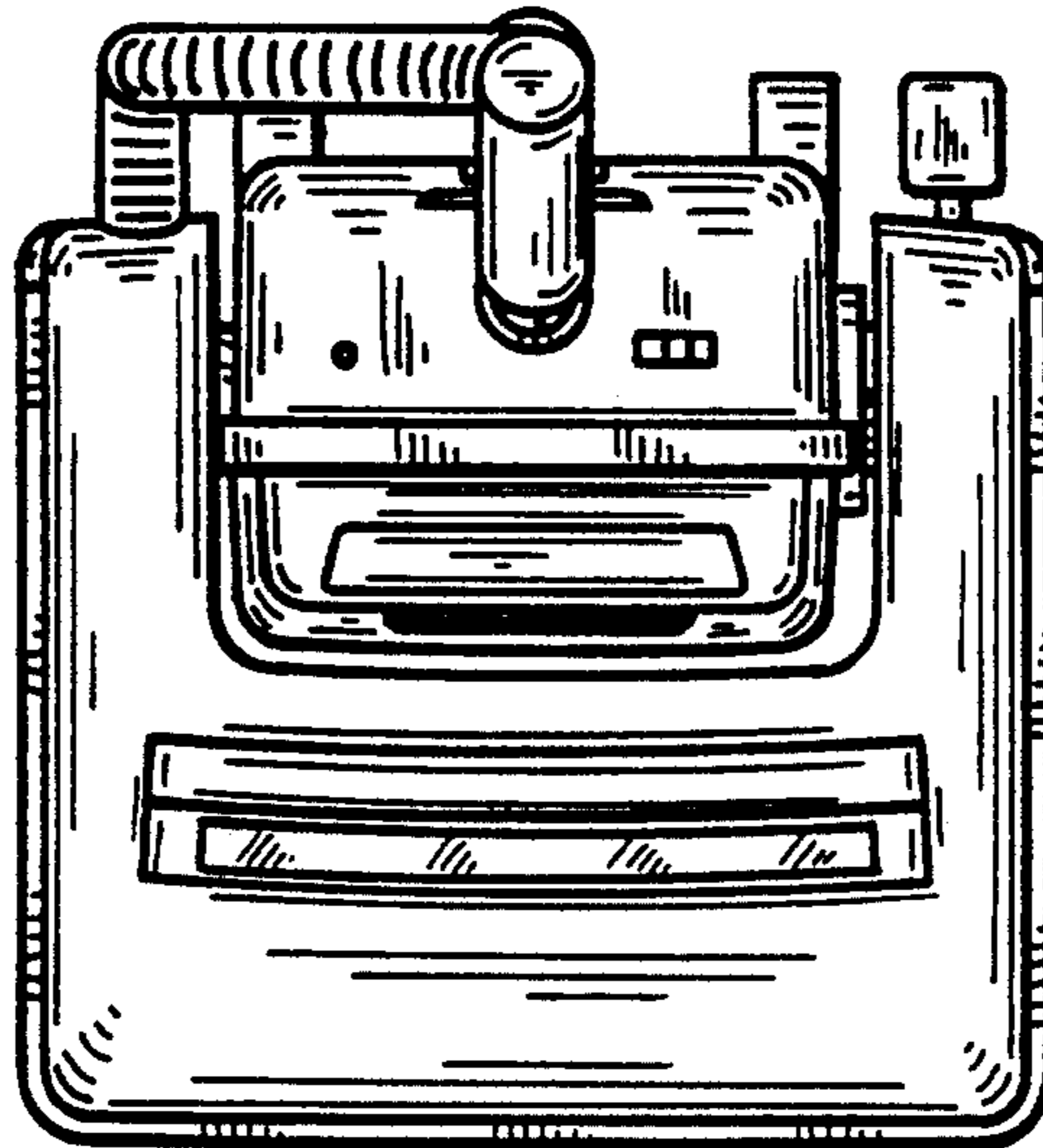
FIG_1



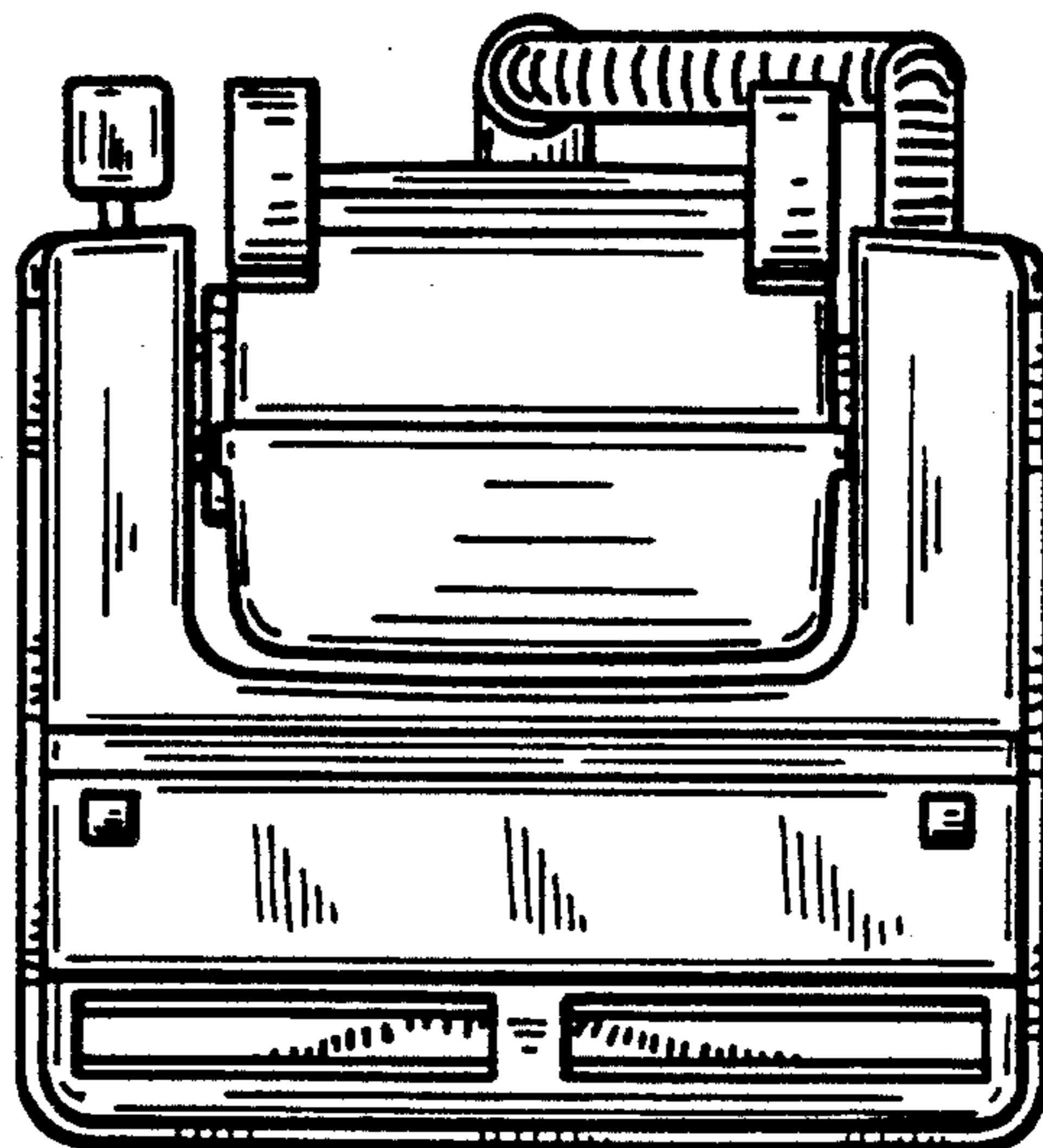
FIG_2



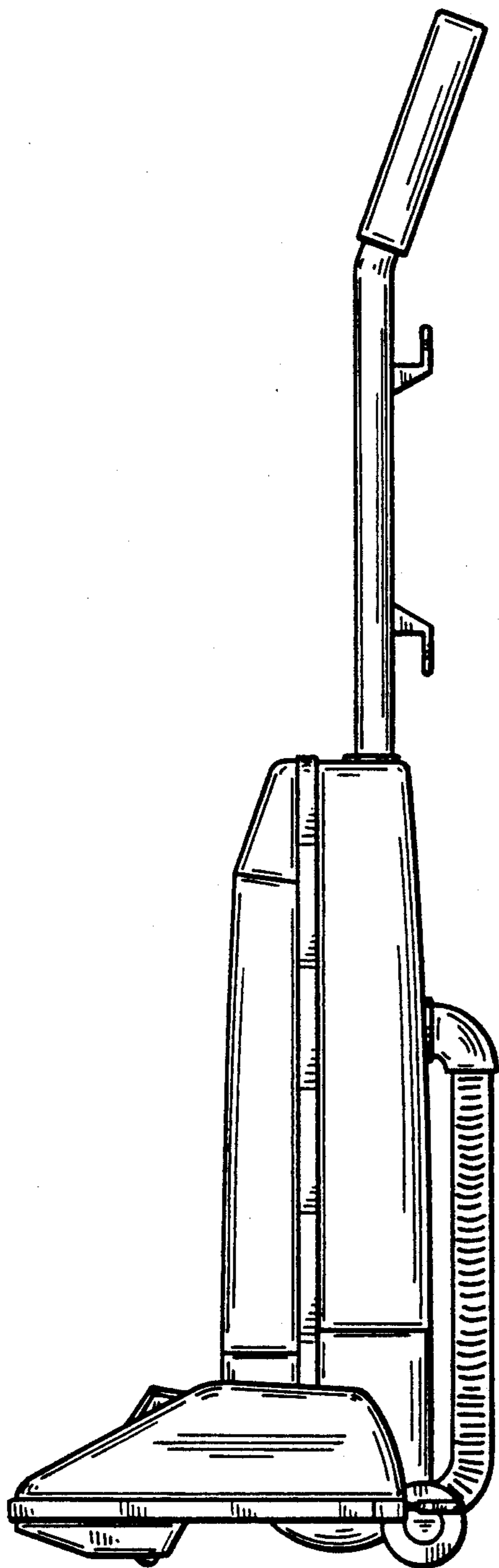
FIG_3



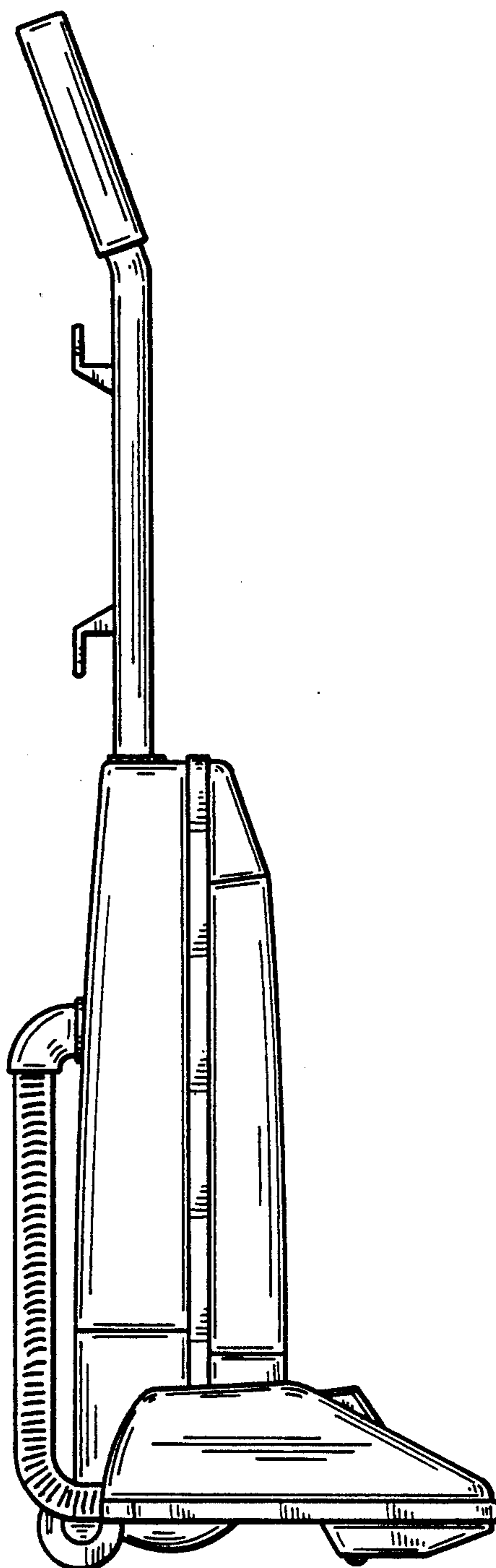
FIG_4



FIG_5



FIG_6



FIG_7