

United States Patent [19]

Ikeda et al.

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[45] Date of Patent: **** May 1, 1990**

[54] **VACUUM CLEANER**

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[73] Assignee: **Sharp Corporation**, Osaka, Japan

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

[21] Appl. No.: **79,334**

[22] Filed: **Jul. 30, 1987**

[30] **Foreign Application Priority Data**

Apr. 24, 1987 [JP] Japan 62-16393

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

[58] Field of Search D32/21-22, D32/24, 32-34; 15/320-322, 328-329, 333, 338, 347, 349-351, 353, 412, 415 R, 415 A, 418-422

[56] **References Cited**

U.S. PATENT DOCUMENTS

D. 263,235 3/1982 Akita D32/22

D. 275,428 9/1984 Wareham D32/22
D. 293,727 1/1988 Wareham et al. D32/22
D. 293,728 1/1988 Ohhira et al. D32/22
3,938,216 2/1976 Schmitz et al. D32/22

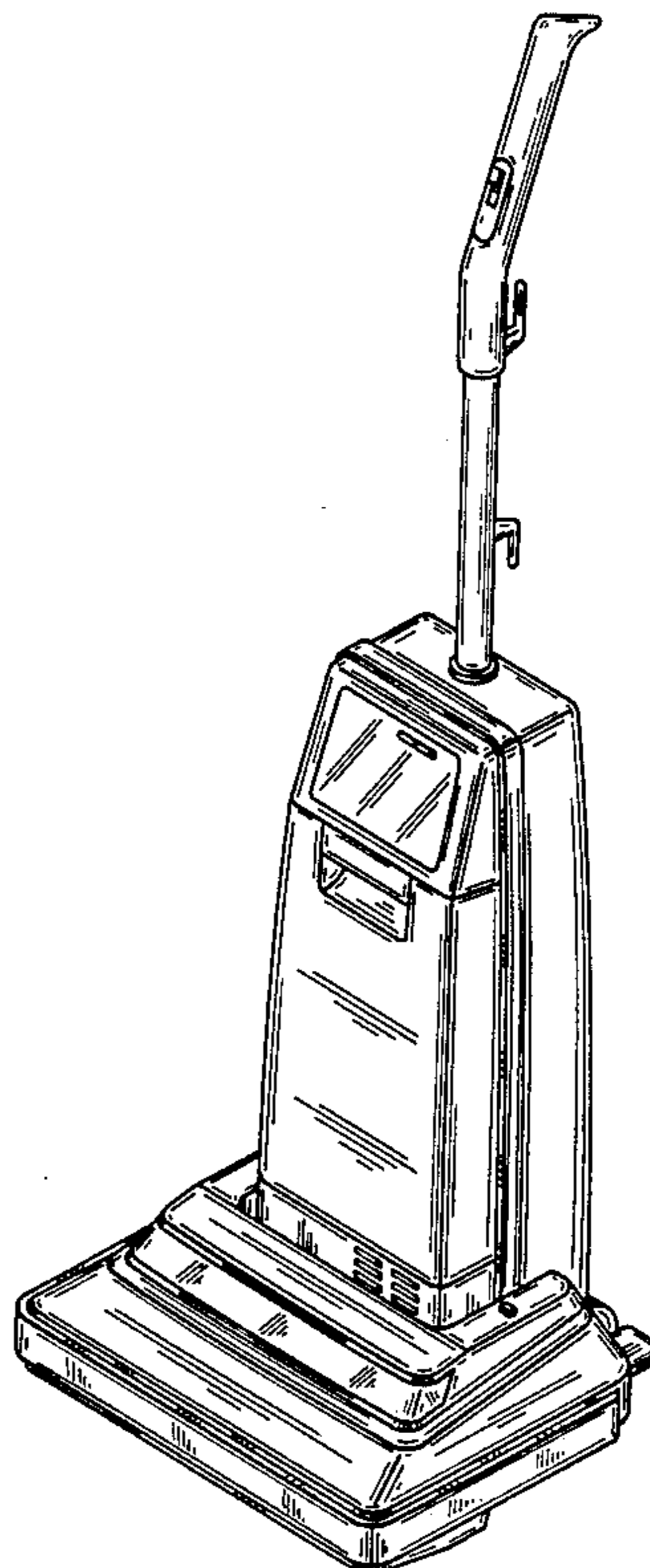
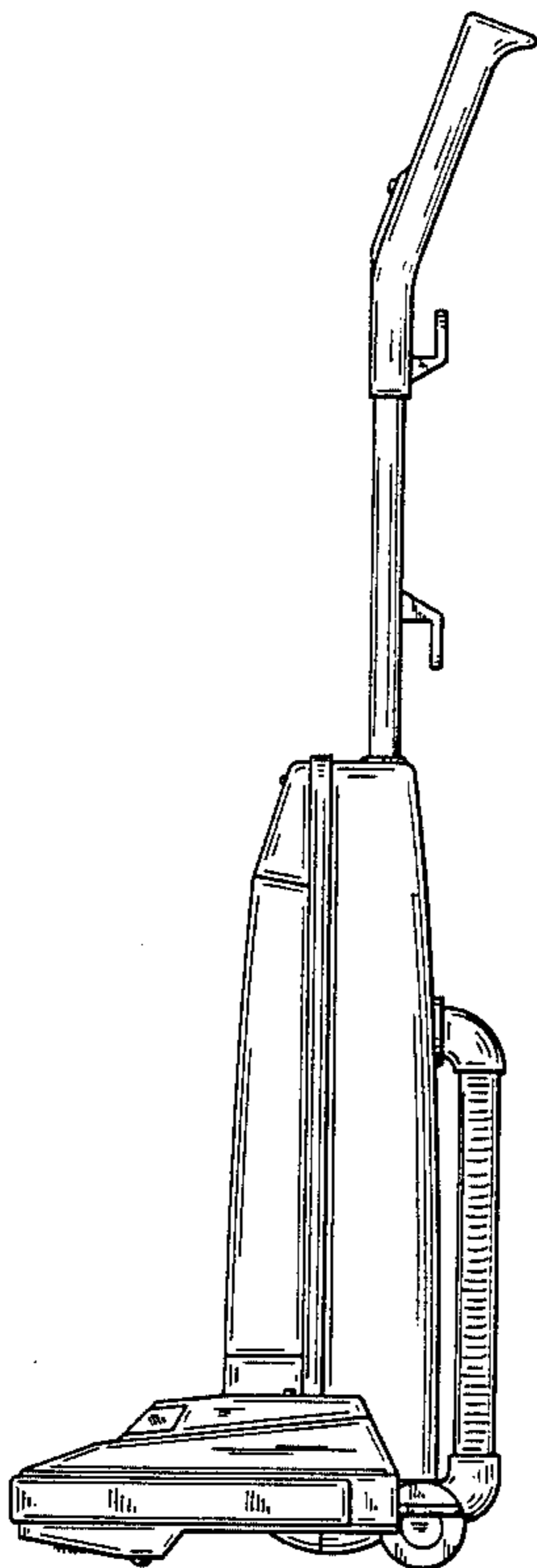
Primary Examiner—A. Hugo Word
Assistant Examiner—Ruth McInroy
Attorney, Agent, or Firm—Flehr, Hohbach, Test, Albritton & Herbert

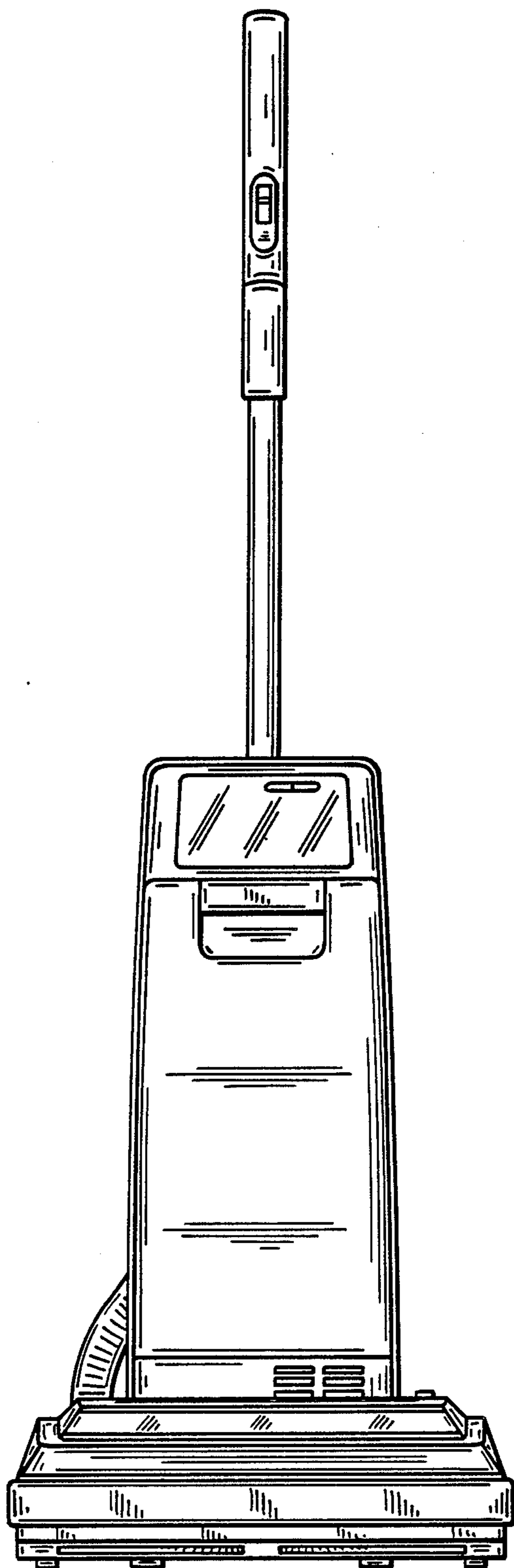
[57] CLAIM

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

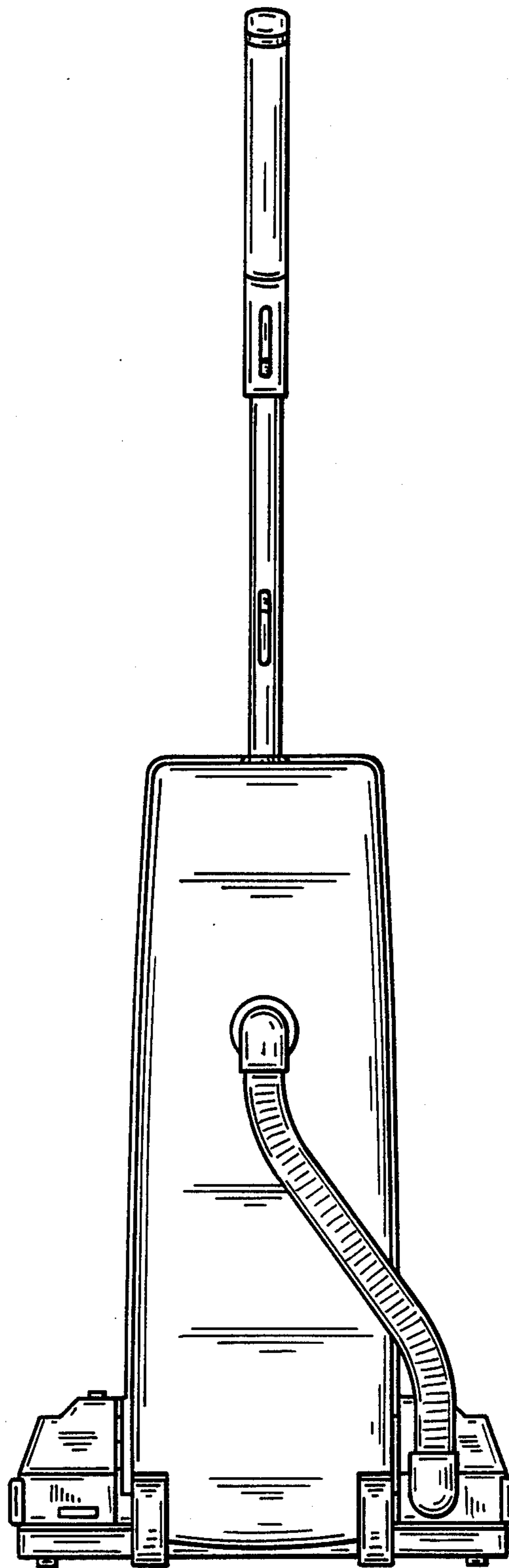
DESCRIPTION

FIG. 1 is a front elevational view of the vacuum cleaner showing our new design;
FIG. 2 is a rear 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 view thereof;
FIG. 6 is a bottom plan view thereof; and
FIG. 7 is a perspective view as seen from the top, front and one side thereof.

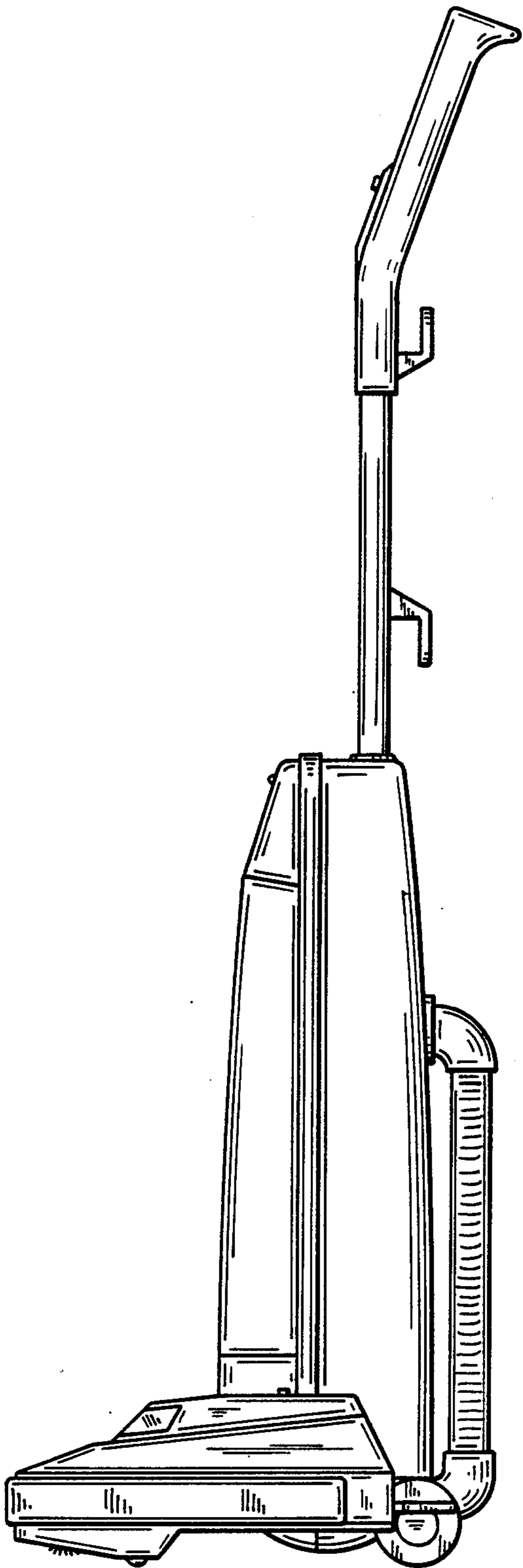




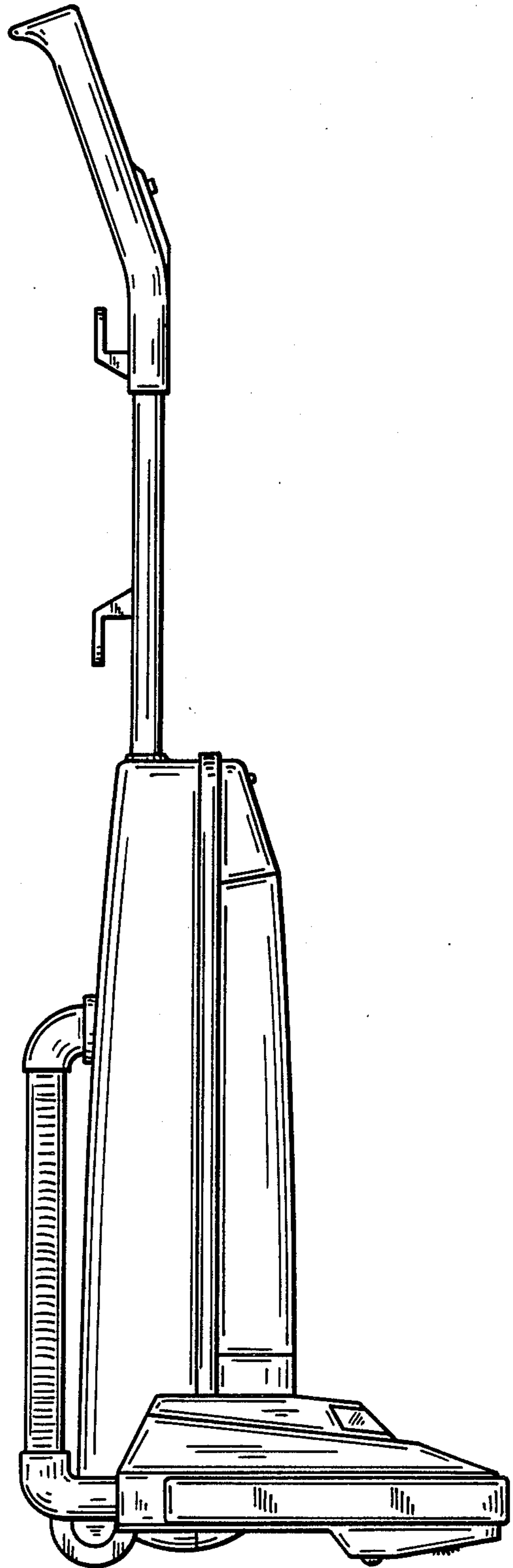
FIG_1



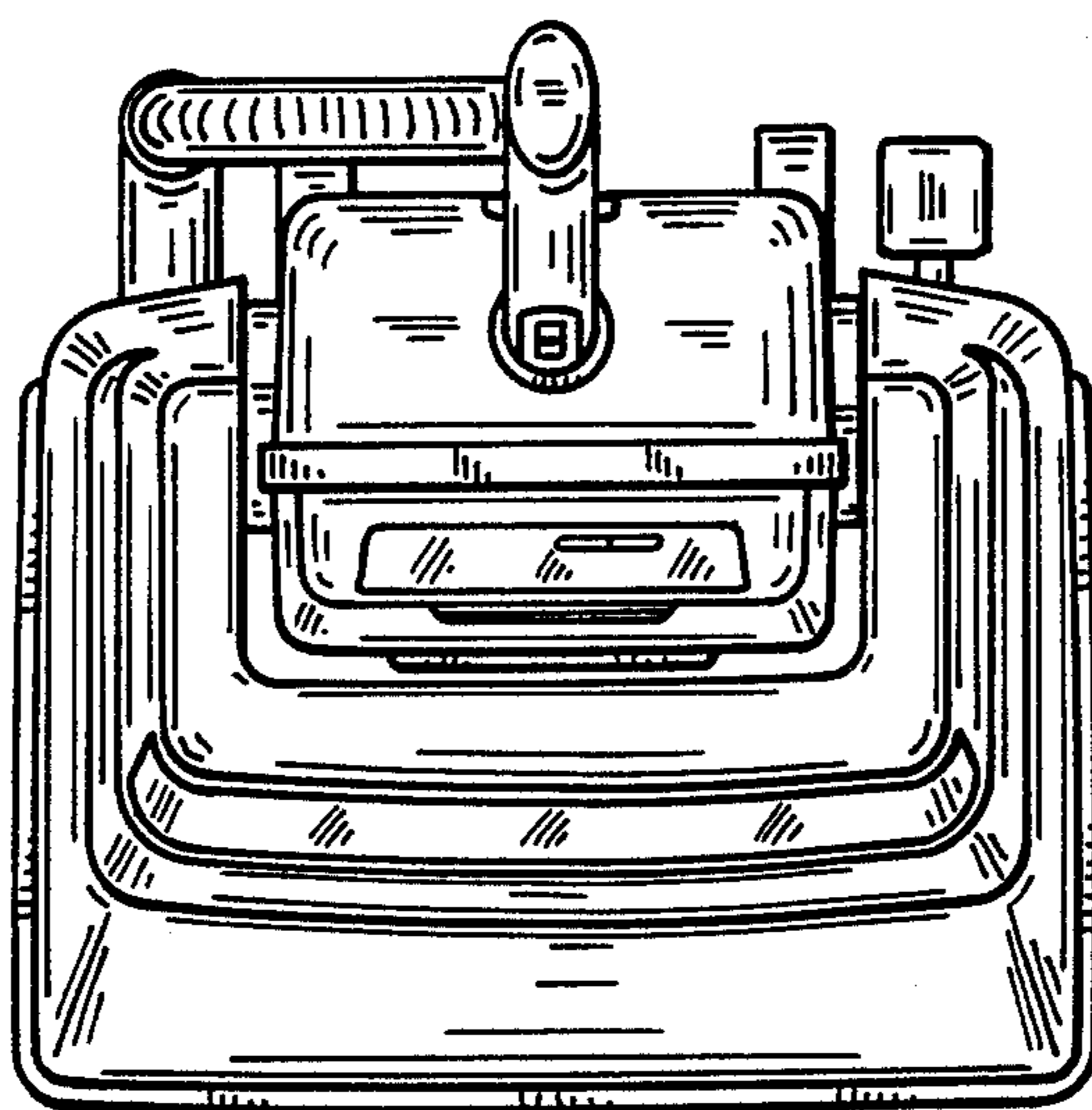
FIG_2



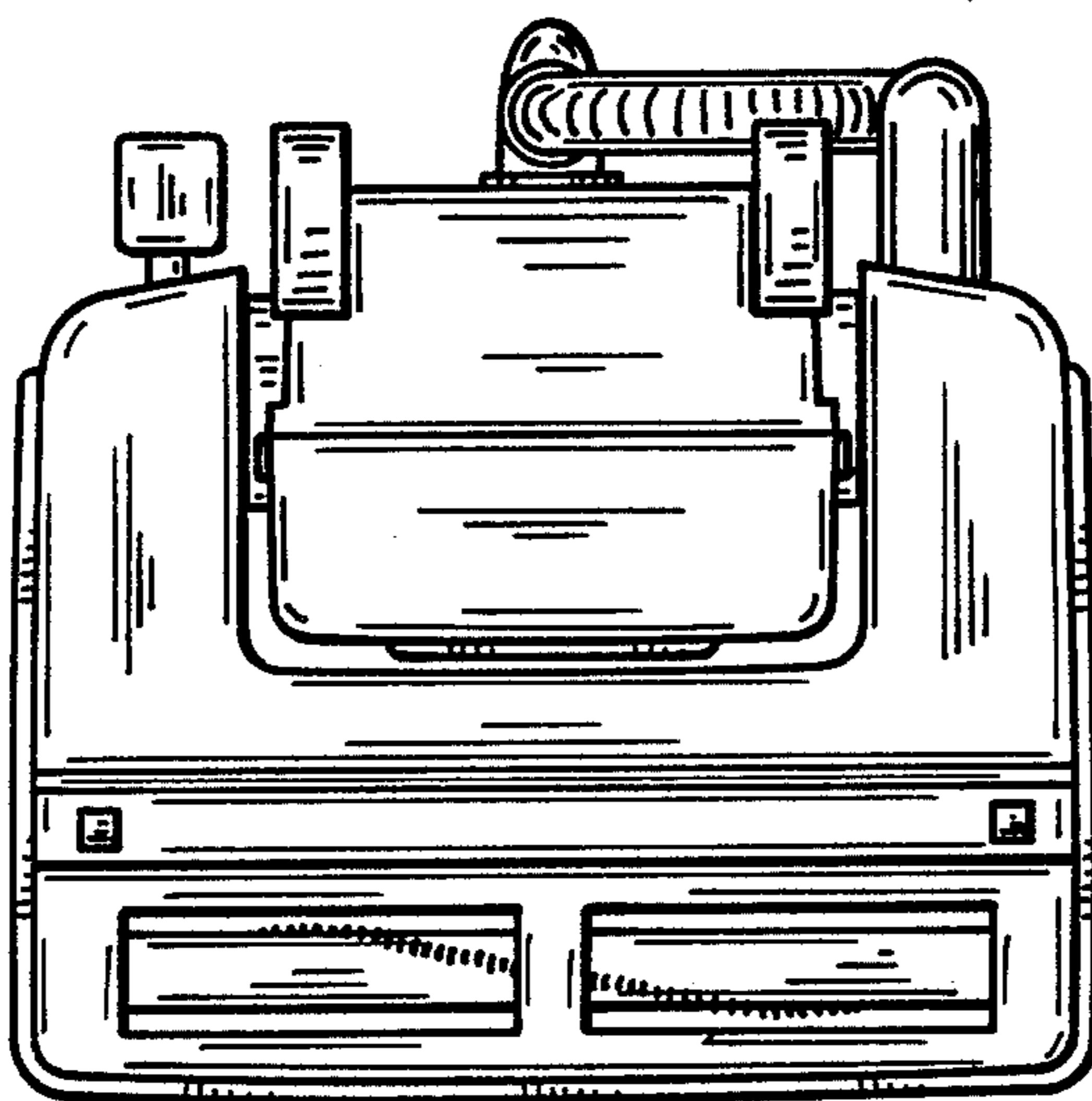
FIG_3



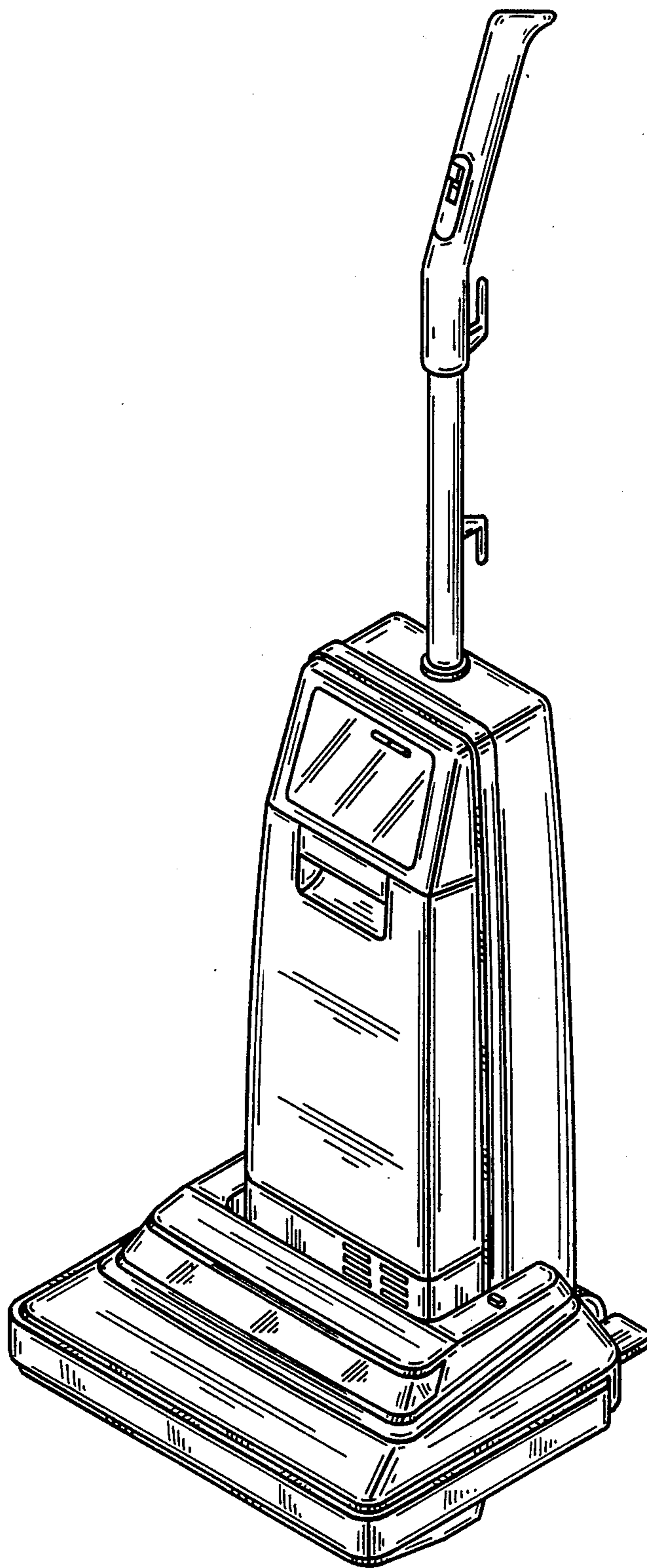
FIG_4



FIG_5



FIG_6



FIG_7