



US00D403477S

United States Patent [19]

Tsujimoto et al.

[11] Patent Number: **Des. 403,477**

[45] Date of Patent: ****Dec. 29, 1998**

[54] **VACUUM CLEANER**

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[73] Assignee: **Sharp Kabushiki Kaisha**, Osaka, Japan

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

[21] Appl. No.: **72,517**

[22] Filed: **Jun. 19, 1997**

[30] Foreign Application Priority Data

Dec. 19, 1996 [JP] Japan 8-38687

[51] **LOC (6) Cl.** **15-05**

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

[58] **Field of Search** D32/21-22, 31-34;
15/323, 347, 350, 351, 352, 410-411, 412,
415.1-422.1

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Primary Examiner—Ruth McInroy
Attorney, Agent, or Firm—Nixon & Vanderhye P.C.

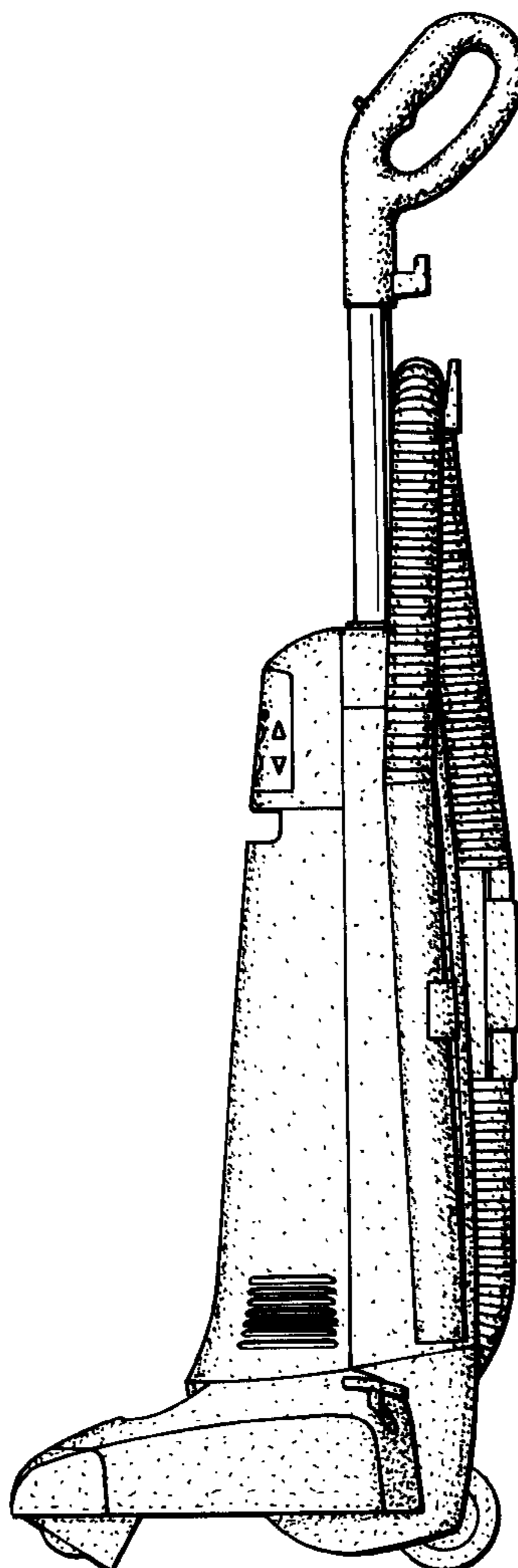
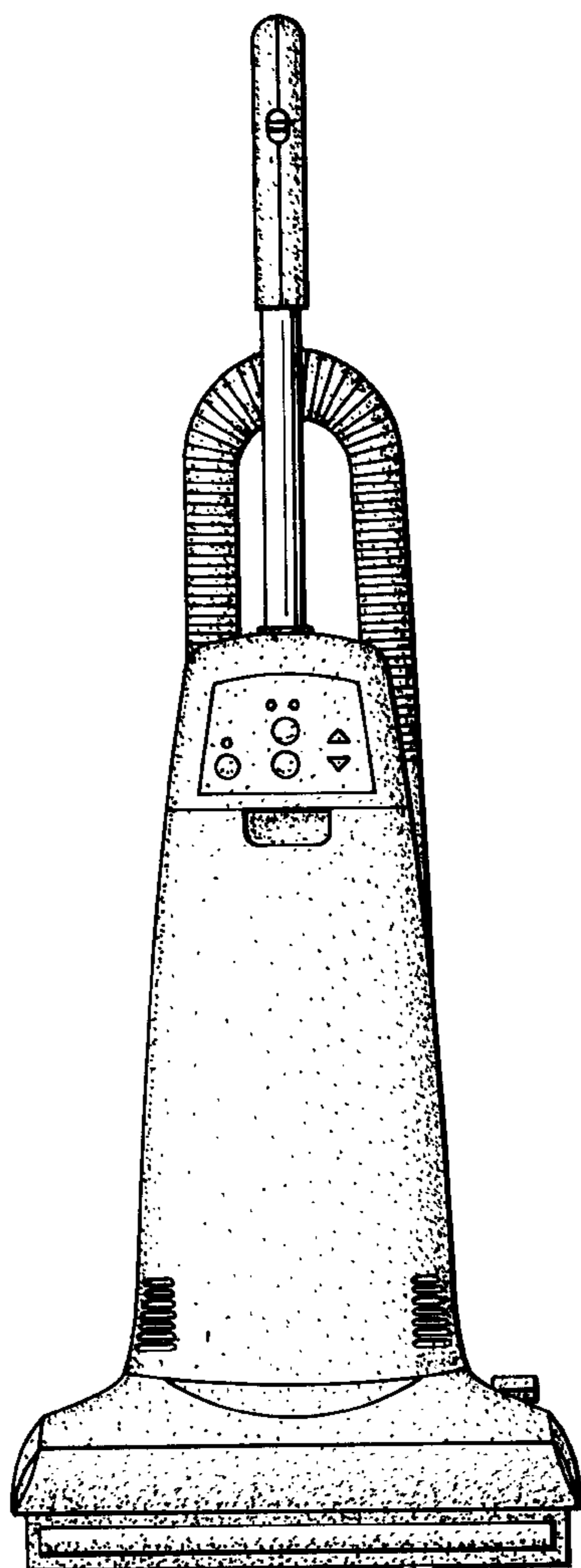
[57] CLAIM

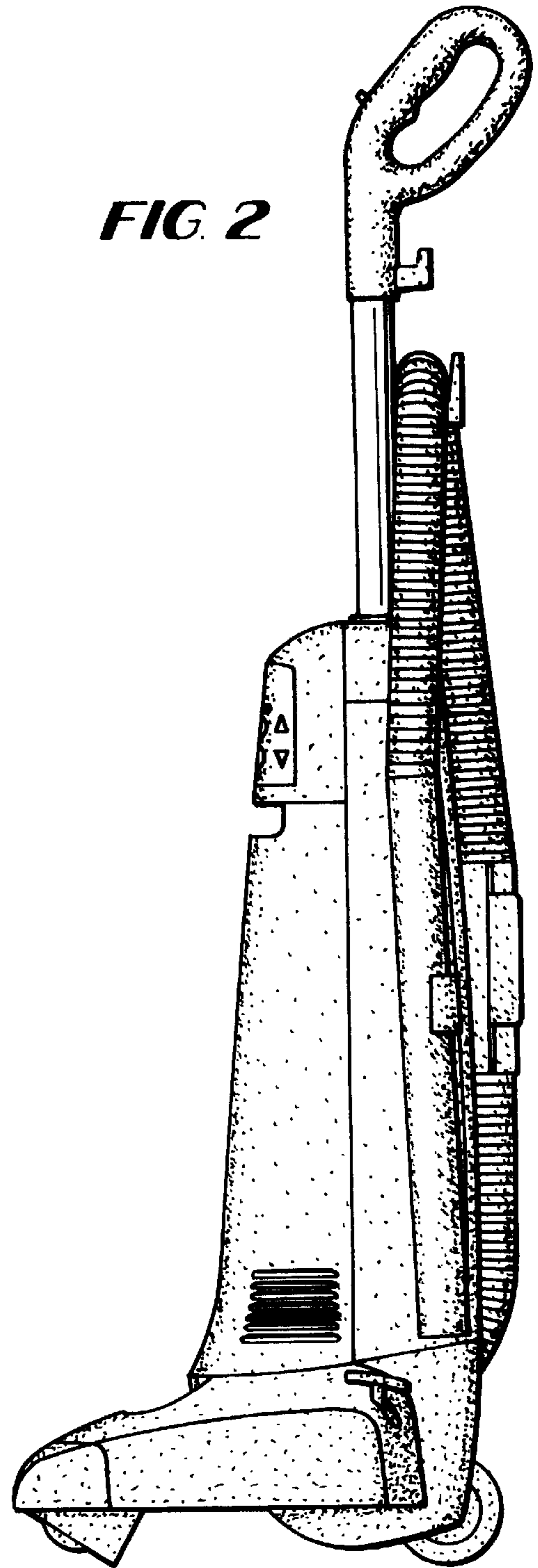
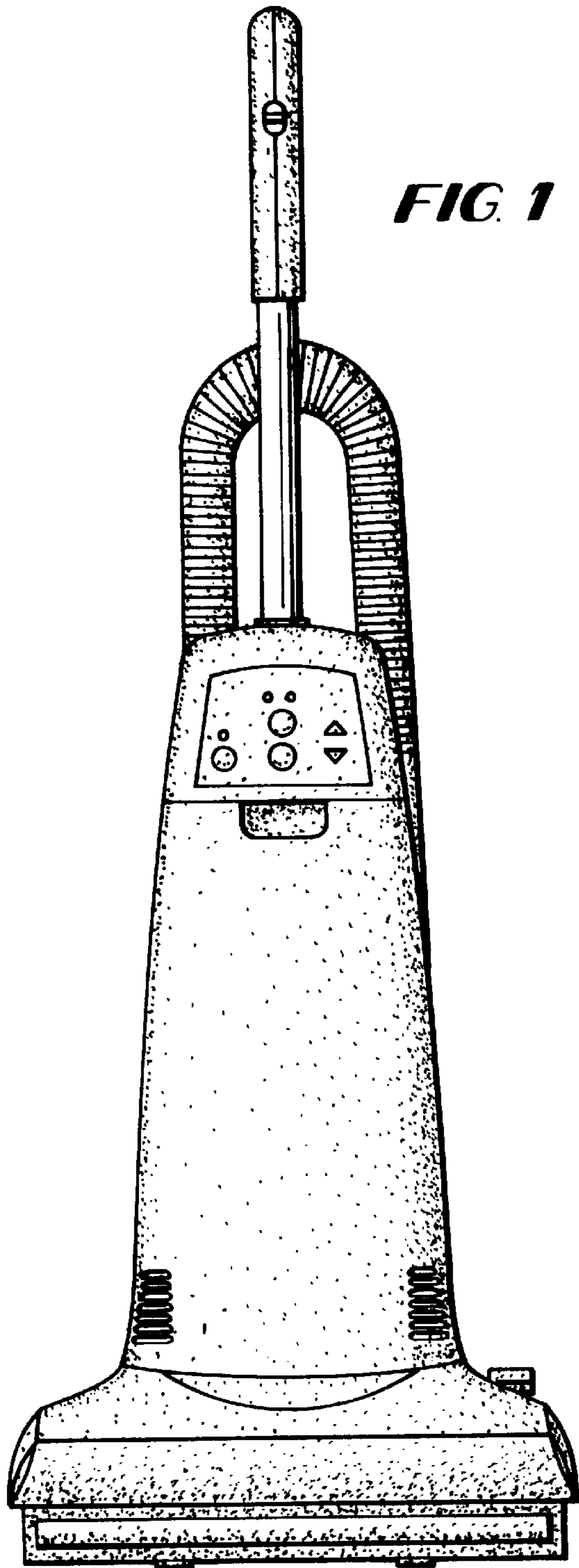
The ornamental design for a vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a front elevational view of a vacuum cleaner showing our new design;
FIG. 2 is a right side elevational view thereof;
FIG. 3 is a rear elevational view thereof;
FIG. 4 is a left side elevational view thereof;
FIG. 5 is a top plan view thereof; and,
FIG. 6 is a bottom plan view thereof.

1 Claim, 3 Drawing Sheets





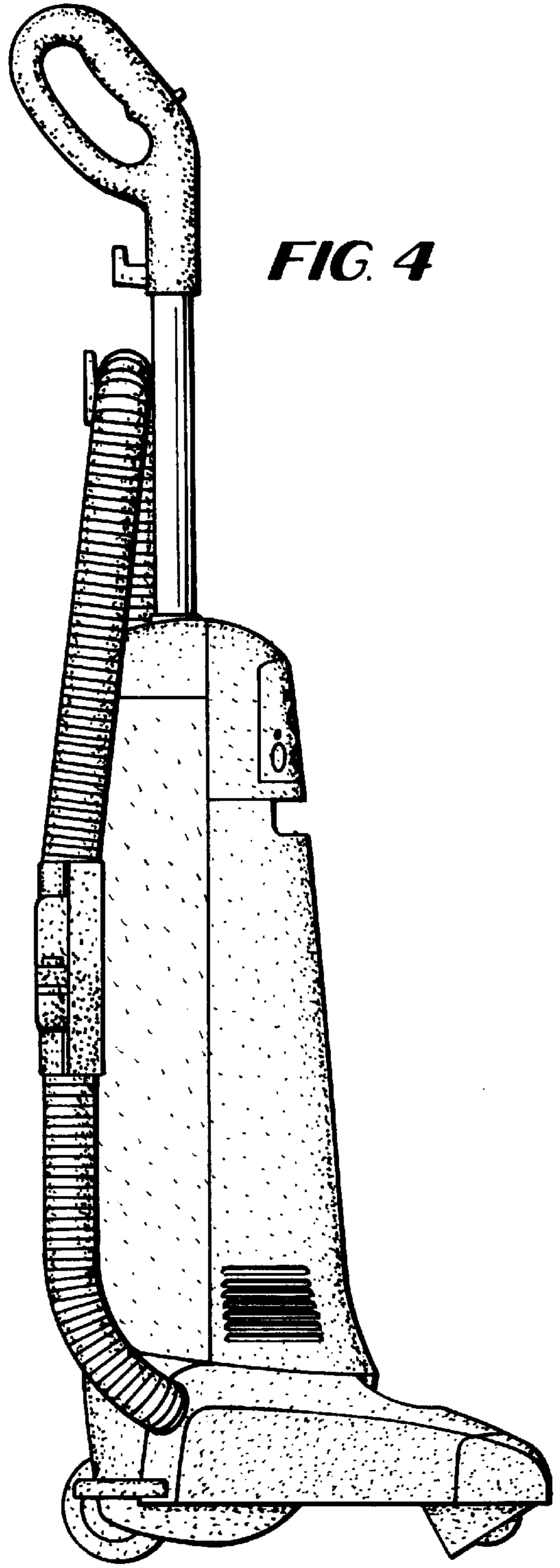
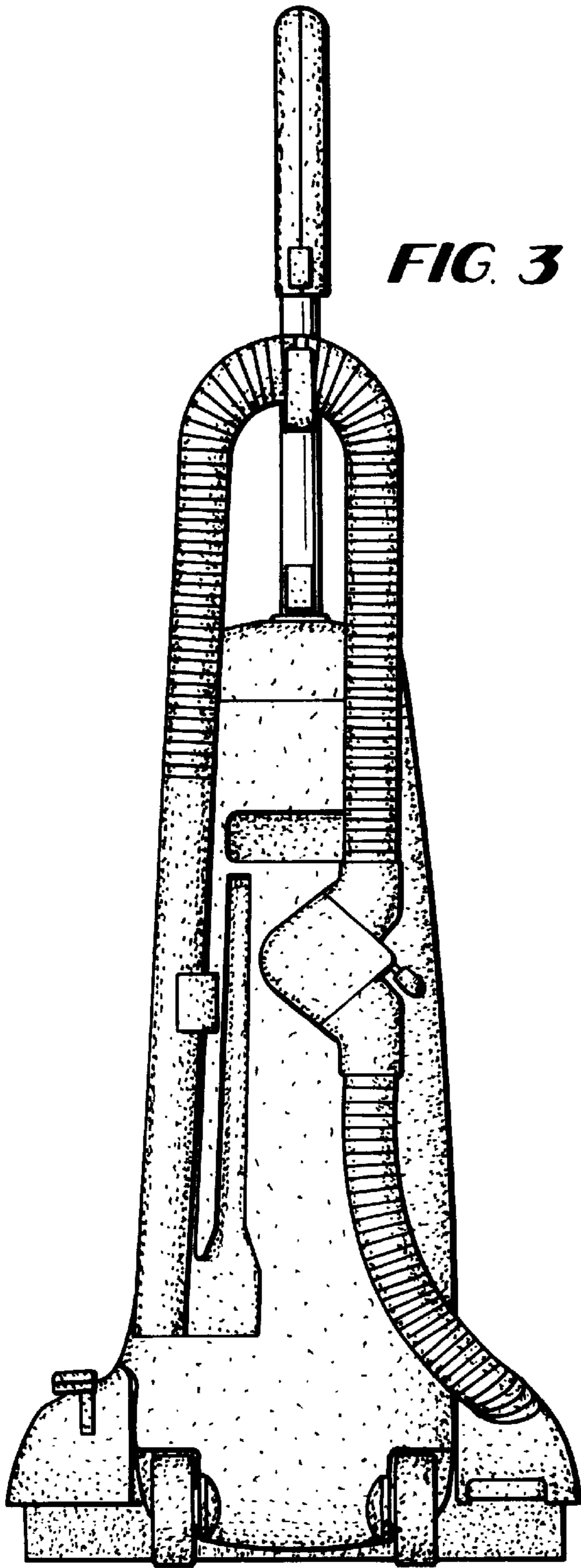


FIG. 6

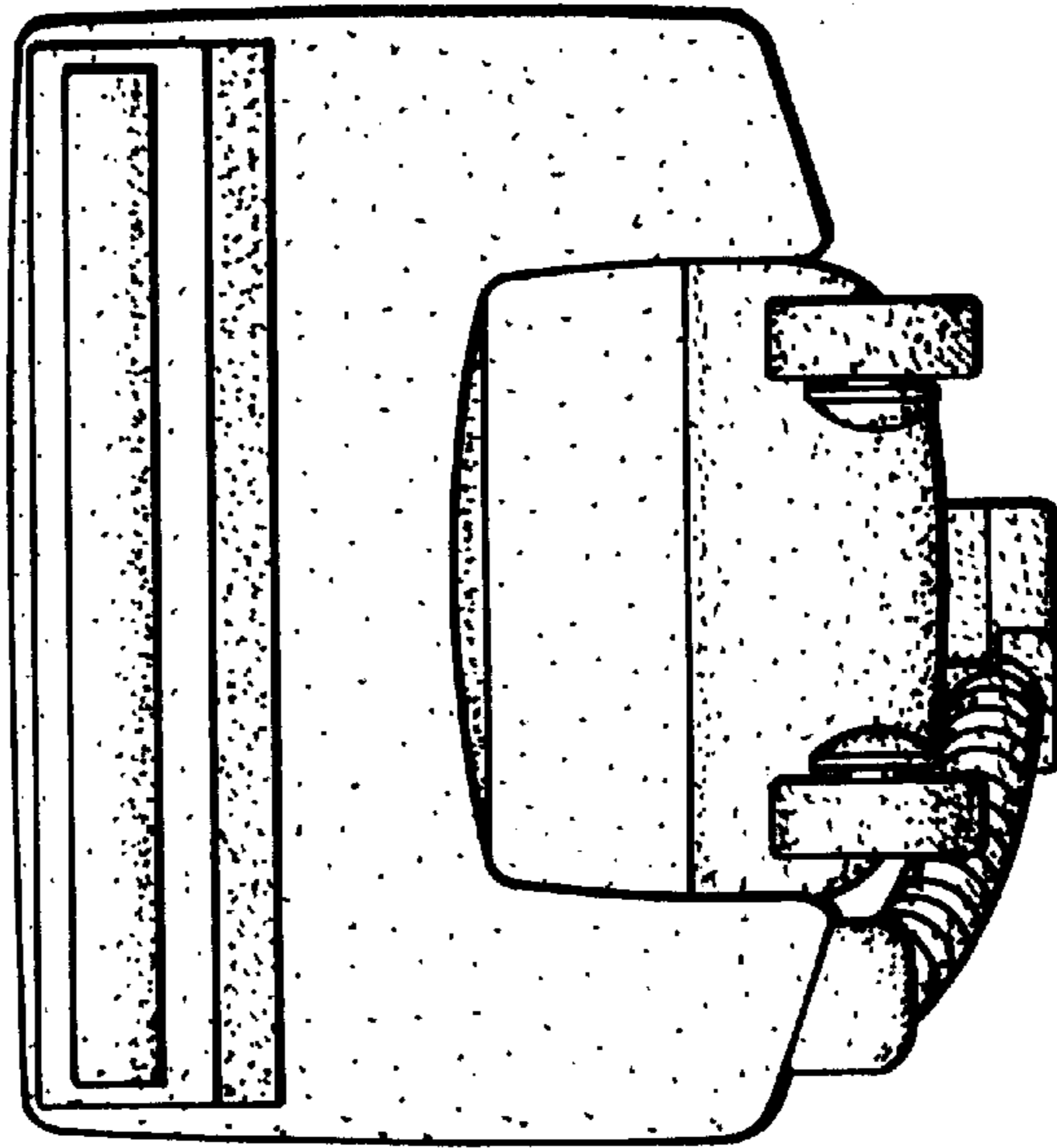


FIG. 5

