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# United States Patent [19]

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Abe et al.

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[54] **ELECTRIC VACUUM CLEANER**

D. 314,847 2/1991 Shouji et al. .... D32/22  
D. 335,556 5/1993 Kuniya ..... D32/22

[75] Inventors: **Toru Abe, Hyogo; Takashi Shoji; Toshiaki Tsuruha**, both of Osaka, all of Japan

**OTHER PUBLICATIONS**

Photocopy of a Hoover catalog, published Nov. of 1991.

[73] Assignee: **Matsushita Electric Industrial Co., Ltd.**, Osaka, Japan

Photocopy of Electrolux electric vacuum cleaners catalog, published Aug. of 1991.

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

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*Attorney, Agent, or Firm*—Sughrue, Mion, Zinn, Macpeak & Seas

[21] Appl. No.: **1,502**

[22] Filed: **Nov. 5, 1992**

[57] **CLAIM**

[30] **Foreign Application Priority Data**

The ornamental design for an electric vacuum cleaner, as shown.

Jun. 18, 1992 [JP] Japan ..... 4-18307  
[52] U.S. Cl. .... **D32/22**  
[58] Field of Search ..... 15/323-326,  
15/327.6, 331-337, 347, 350-351, 377, 412, 413;  
D32/21-22, 31-34

**DESCRIPTION**

FIG. 1 is a front, top and right side perspective view of an electric vacuum cleaner showing our new design; FIG. 2 is a front elevational view thereof; FIG. 3 is a top plan view thereof; FIG. 4 is a bottom plan view thereof; FIG. 5 is a right side elevational view thereof; FIG. 6 is a rear elevational view thereof; and, FIG. 7 is a left side elevational view thereof.

[56] **References Cited**

**U.S. PATENT DOCUMENTS**

D. 263,235 3/1982 Akita ..... D32/22  
D. 305,168 12/1989 Kroll ..... D32/22  
D. 314,072 1/1991 Shinozaki et al. .... D32/22

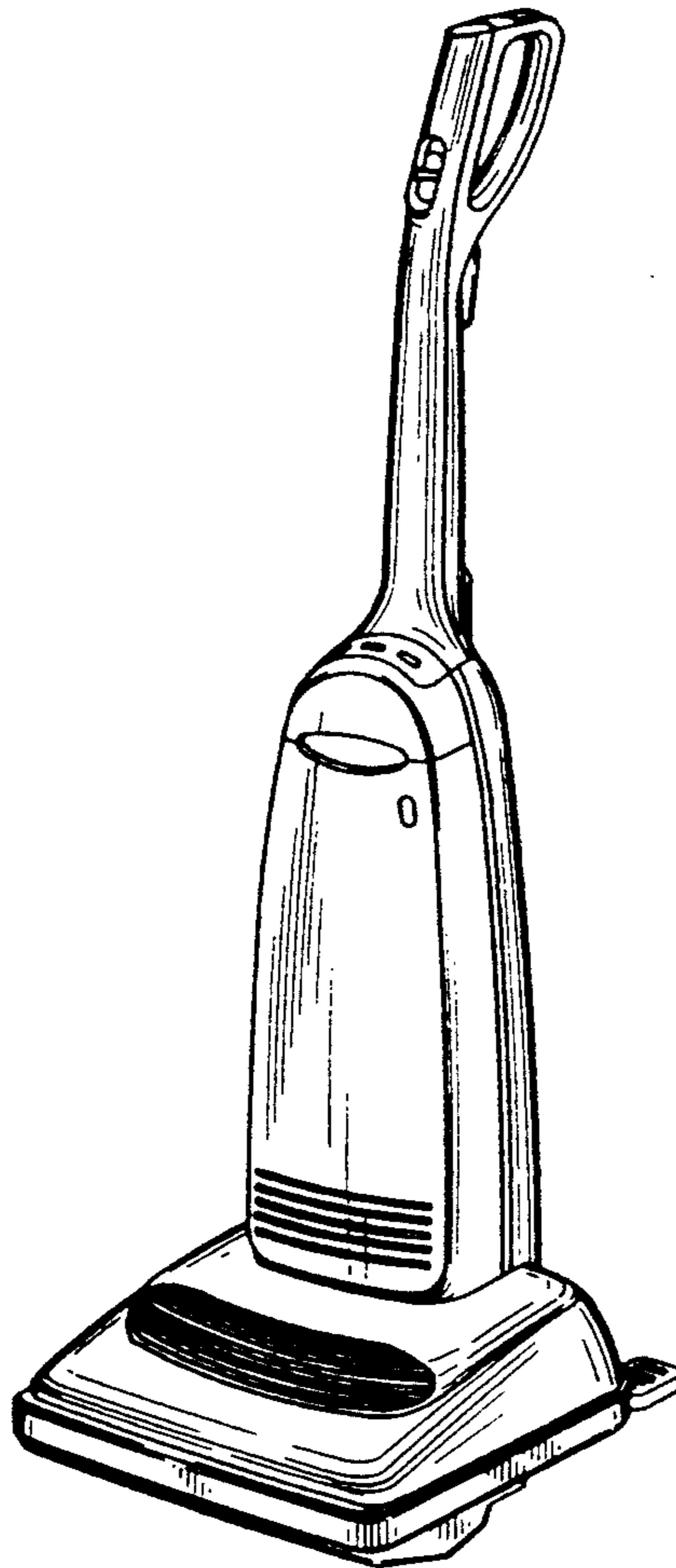


FIG. 1

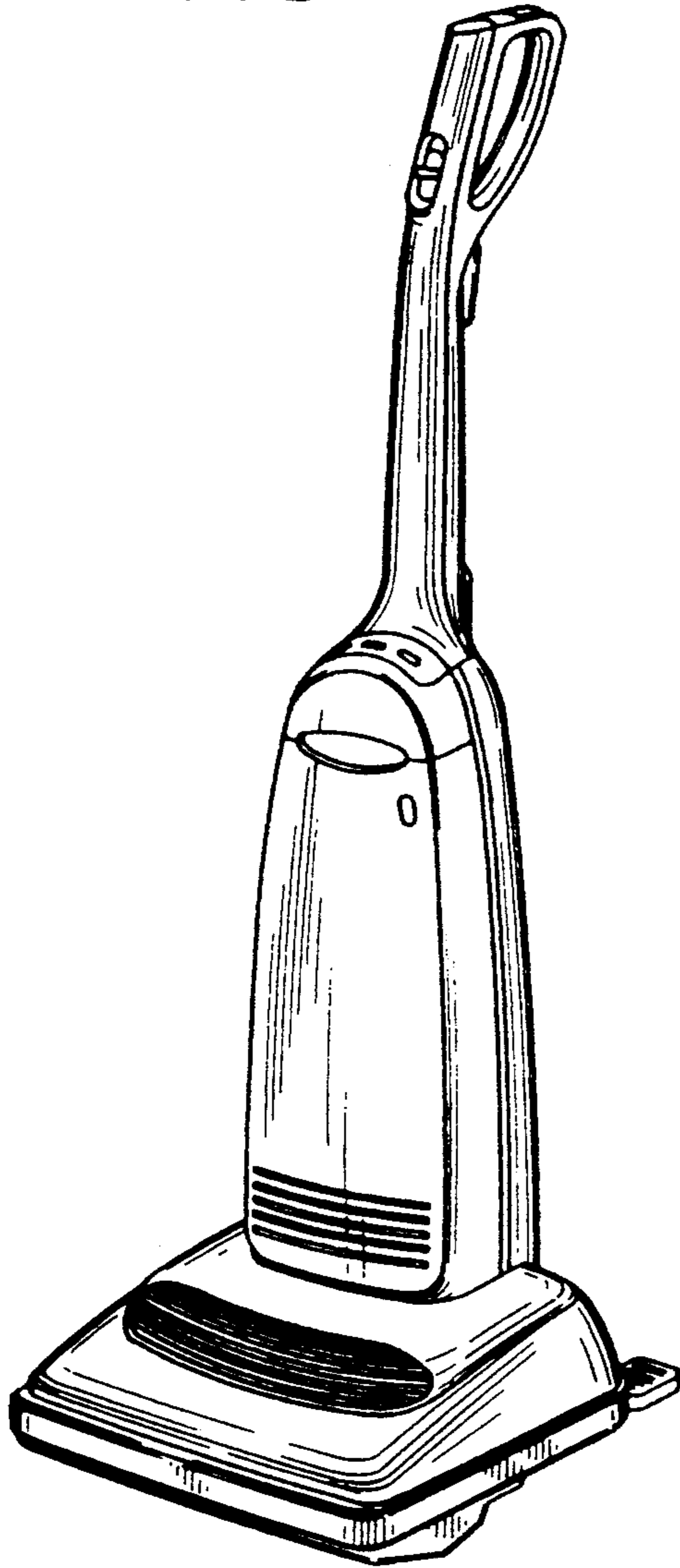


FIG. 2

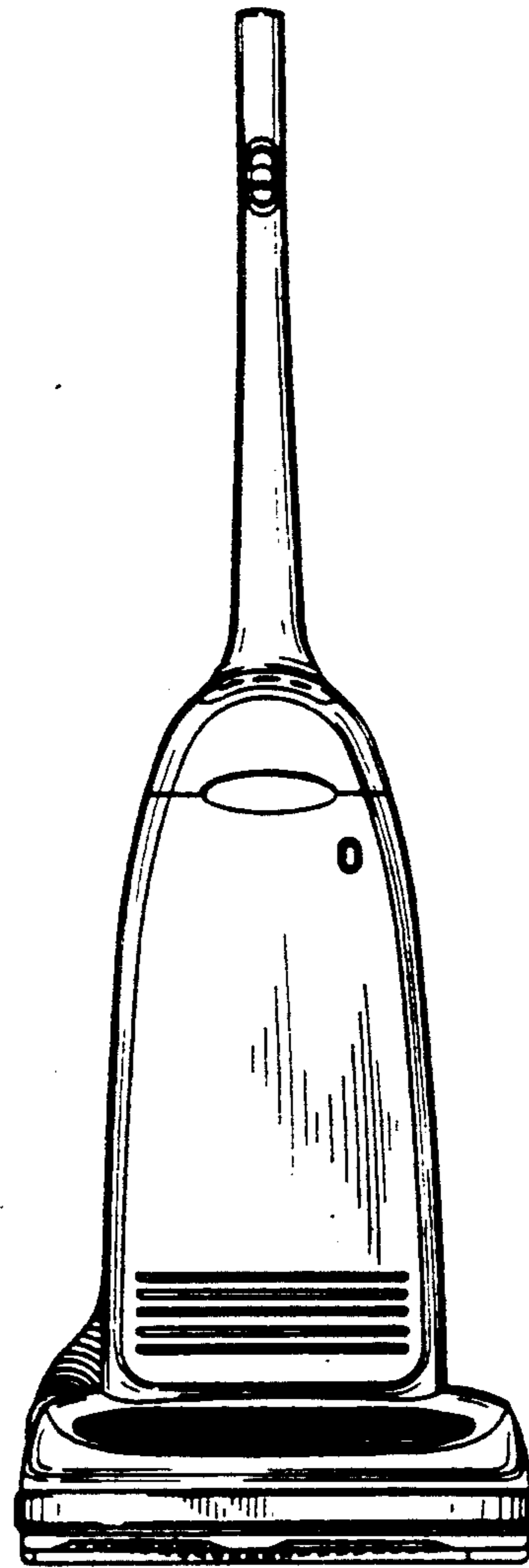


FIG. 3

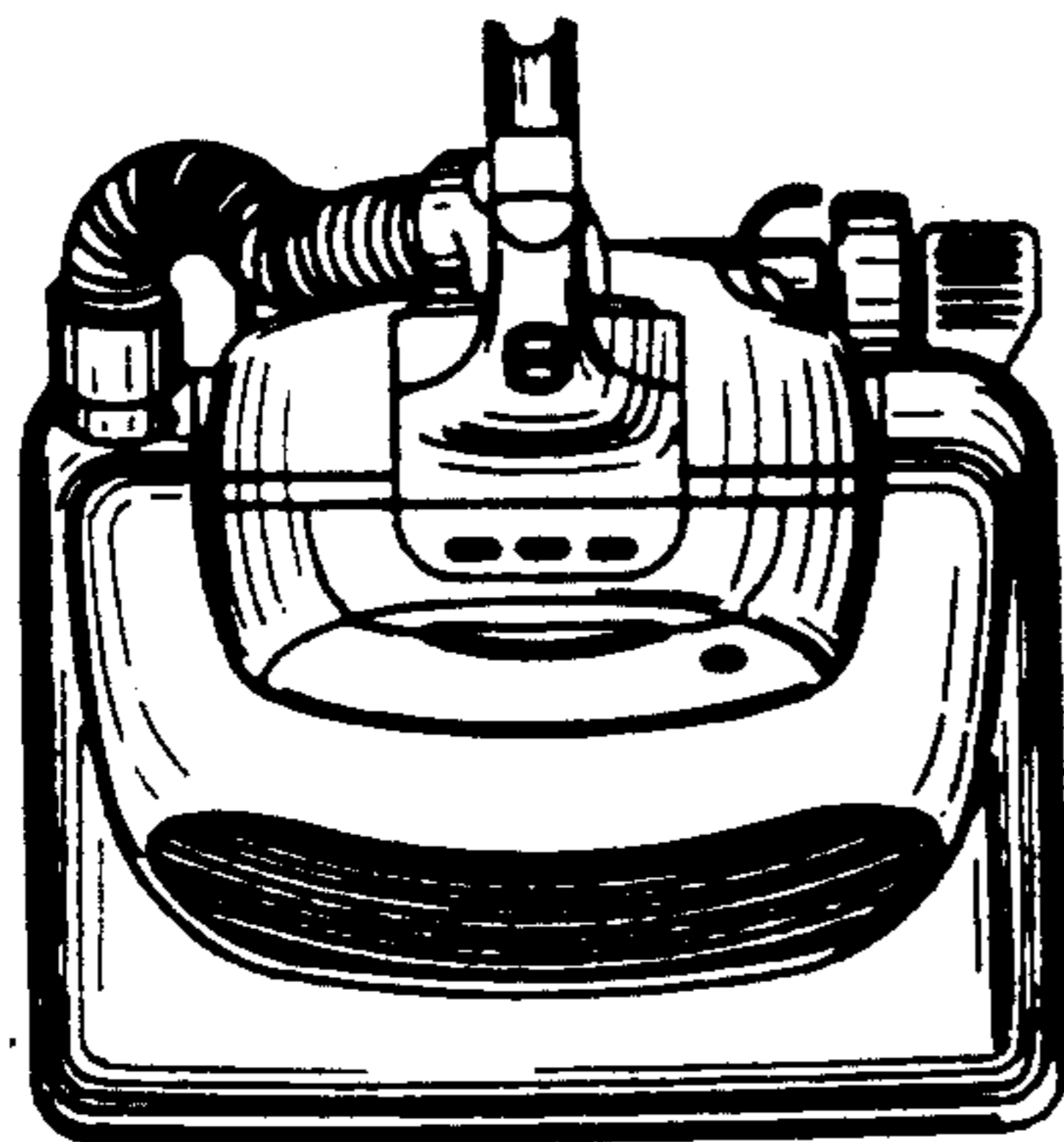
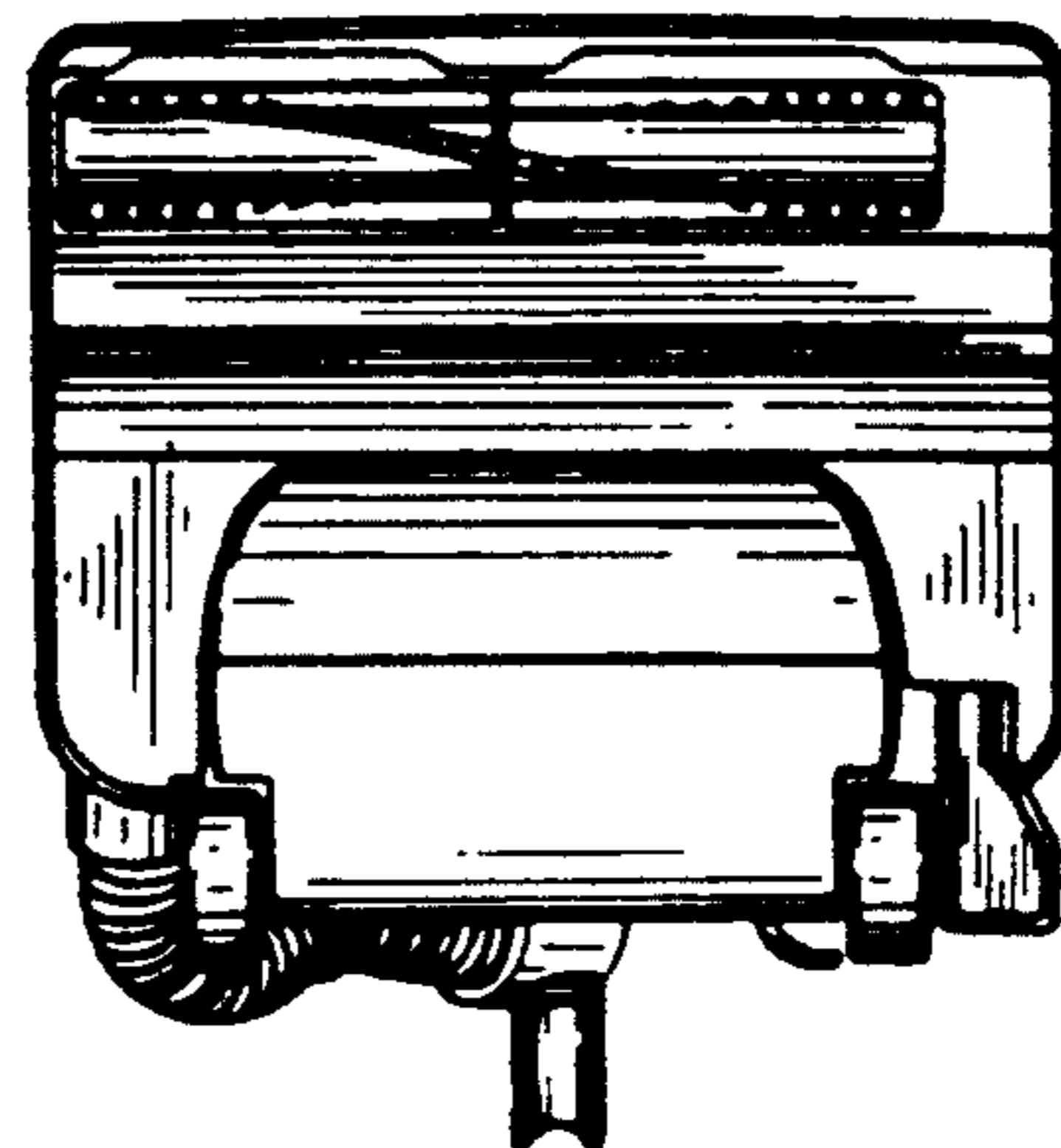


FIG. 4



*FIG. 5*

*FIG. 6*

*FIG. 7*

