



US00D429392S

United States Patent [19]

Maruyama et al.

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[54] **VACUUM CLEANER**

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[73] Assignee: **Twinbird Corporation,** Japan

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

[21] Appl. No.: **29/111,107**

[22] Filed: **Sep. 20, 1999**

[30] **Foreign Application Priority Data**

Jun. 28, 1999 [JP] Japan 11-17115

[51] **LOC (7) Cl.** **15-05**

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

[58] **Field of Search** D32/17-18, 21-22,
D32/25, 30-34, 38, 51; 15/320-321, 323-334,
344, 347, 349, 350-353, 410, 412

[56] **References Cited**

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[57] **CLAIM**

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

DESCRIPTION

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

1 Claim, 4 Drawing Sheets

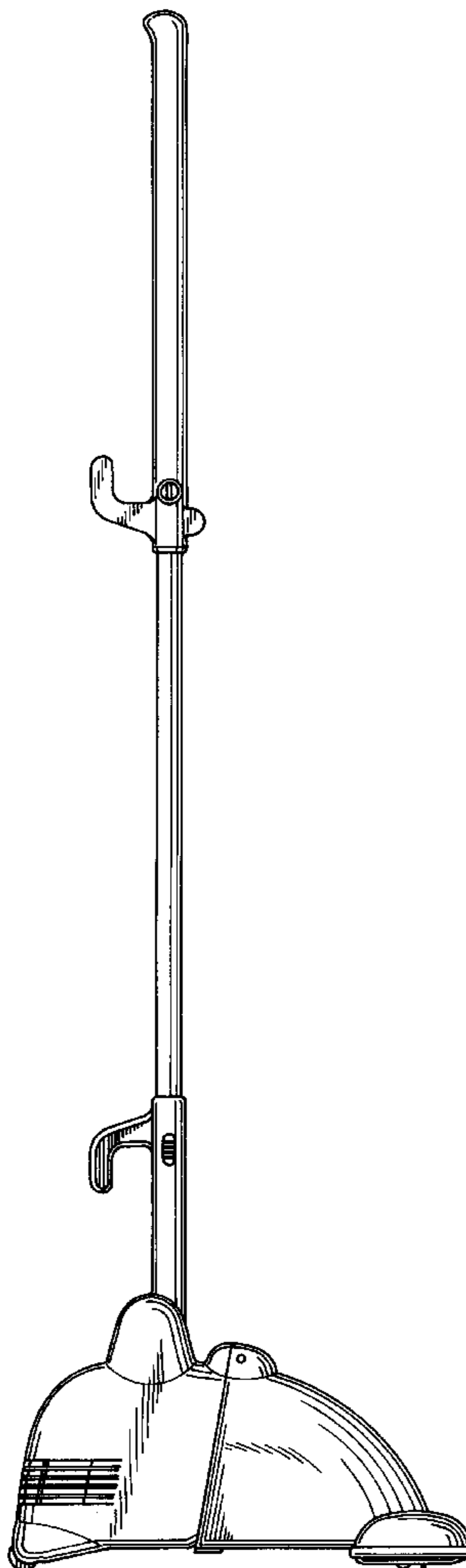
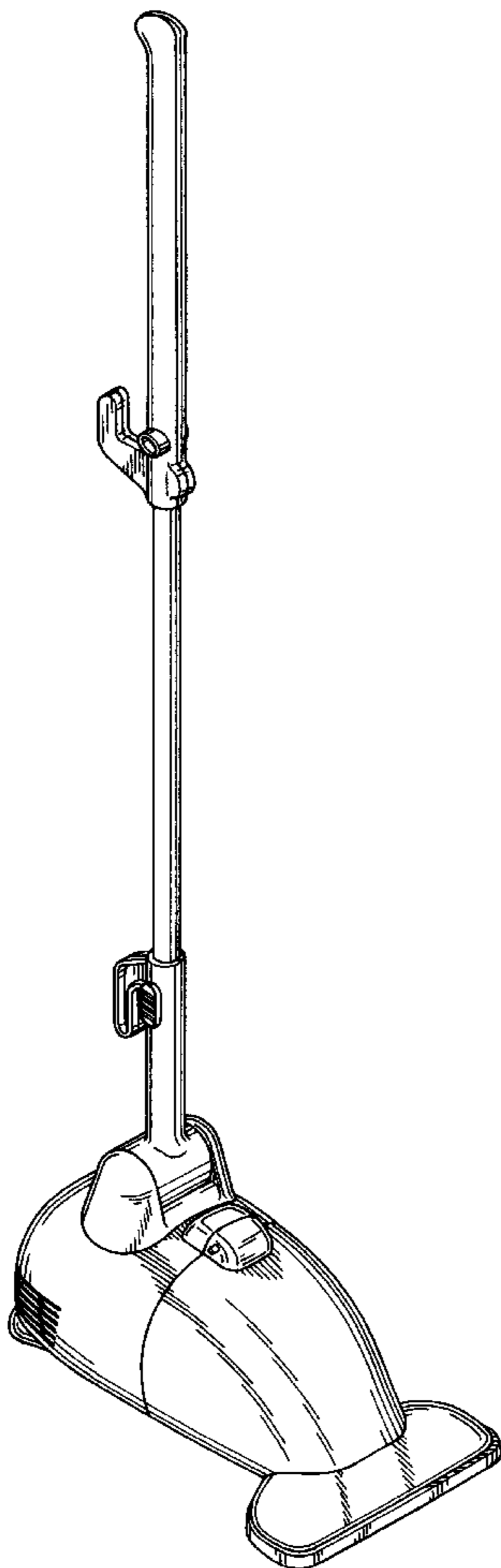


FIG. 1

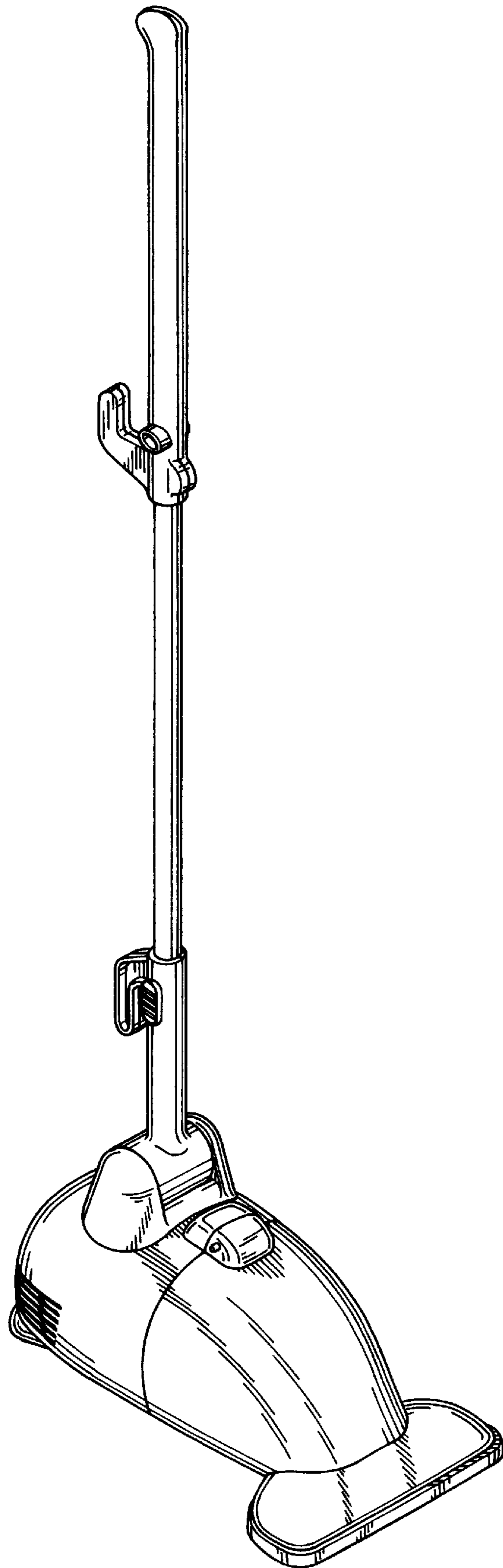


FIG. 2

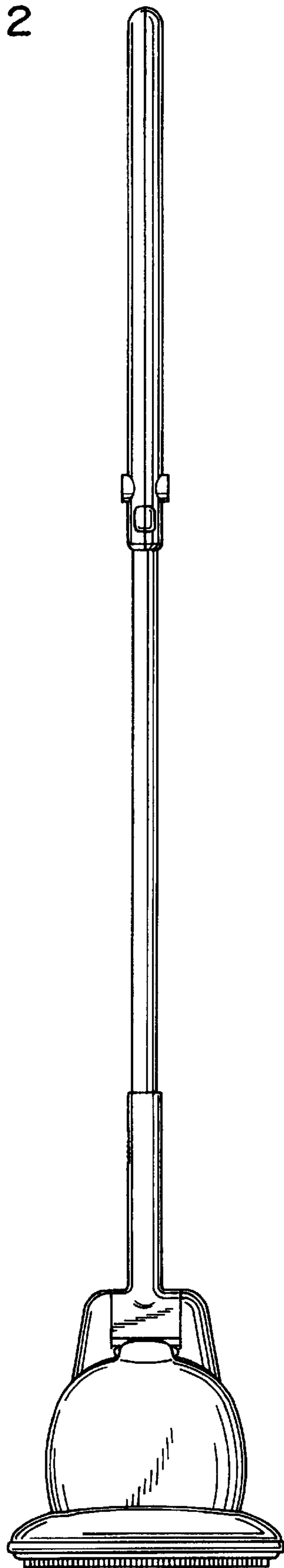


FIG. 3

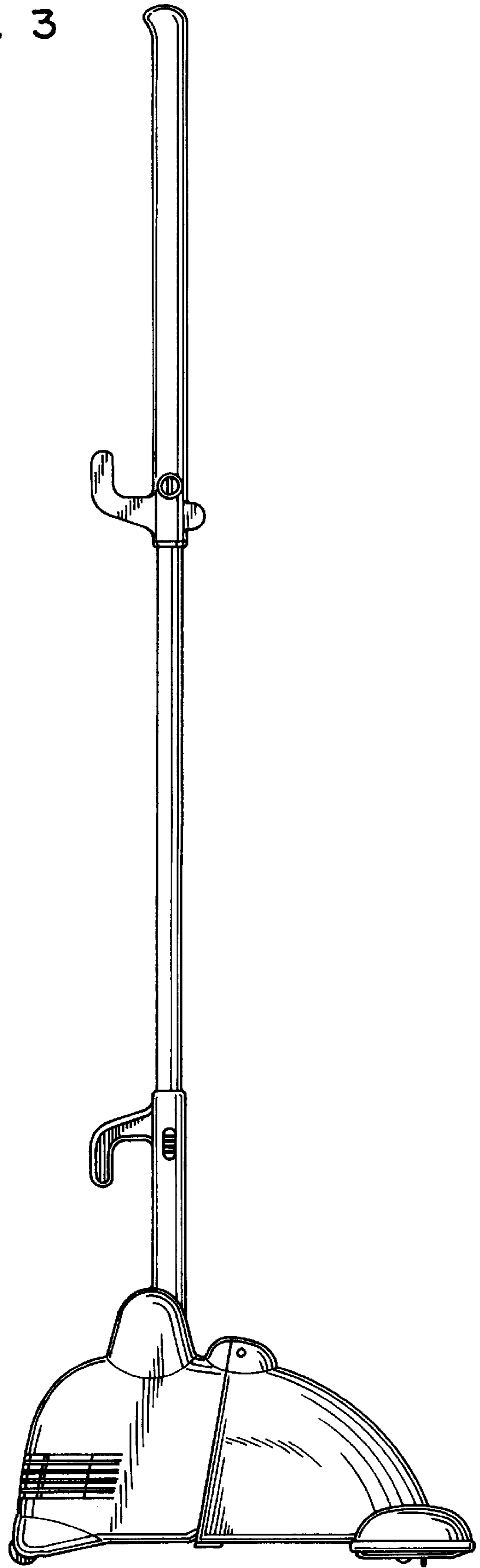


FIG. 4

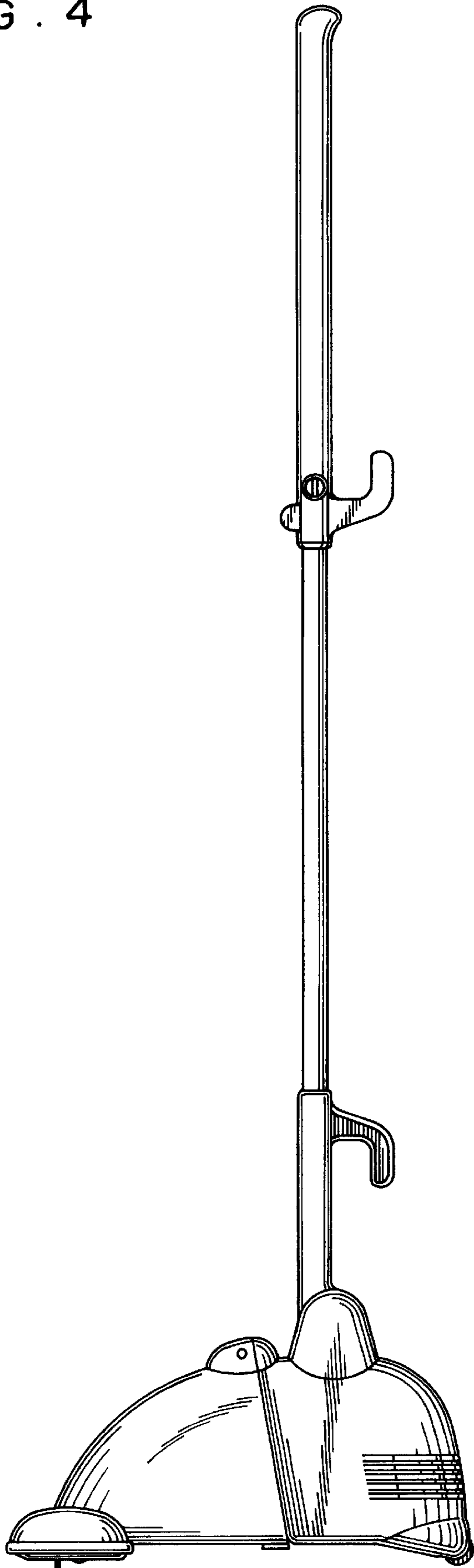


FIG. 5

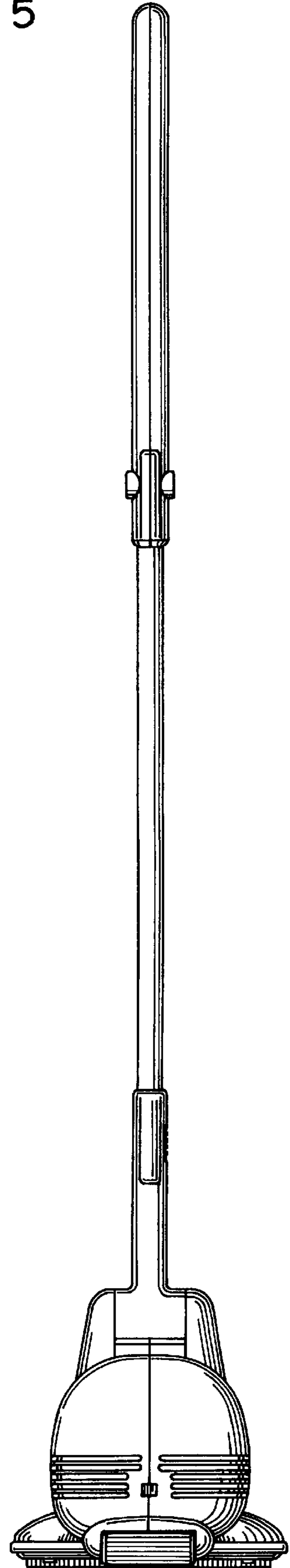


FIG. 6

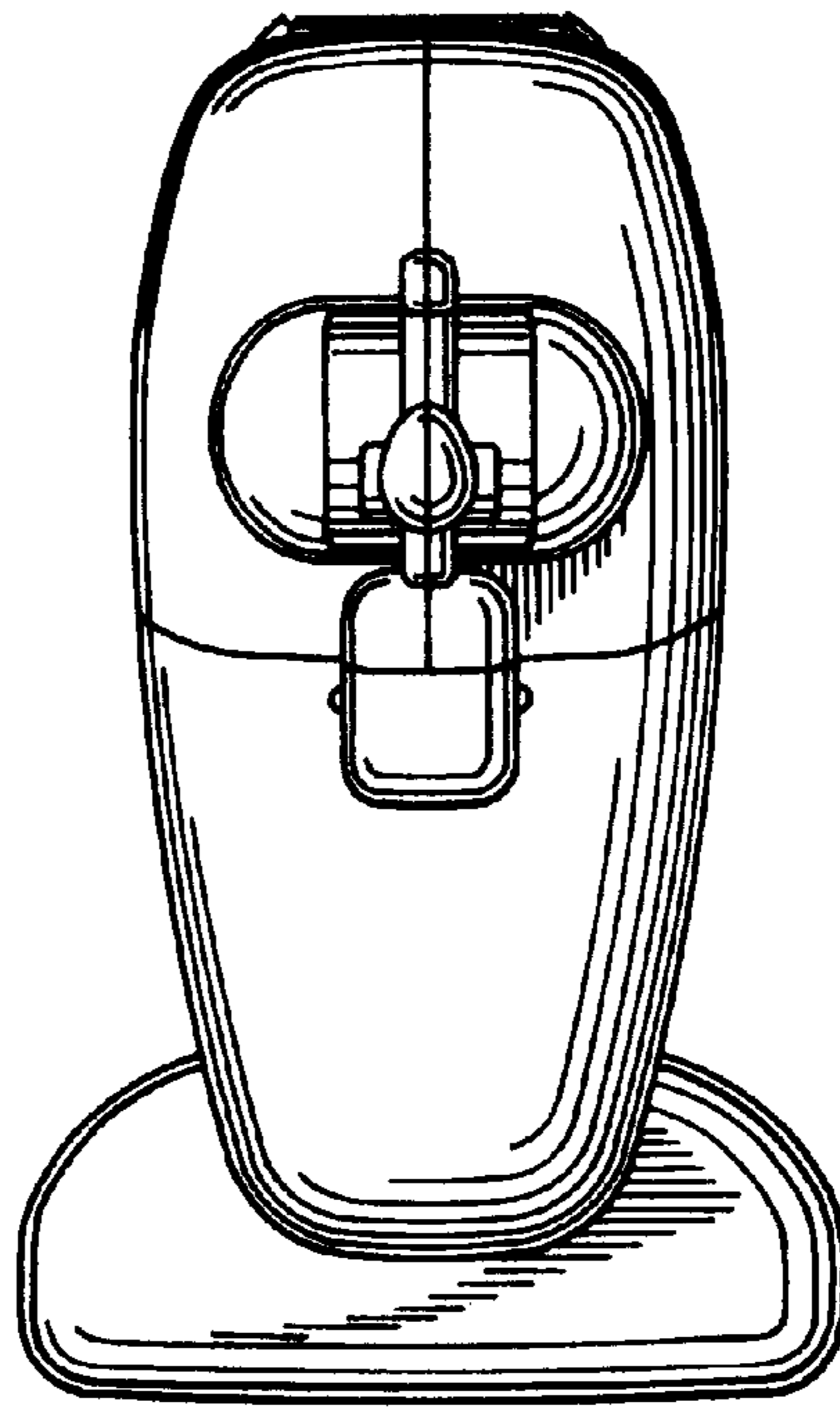


FIG. 7

