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United States Patent [19]

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Moine et al.

[45] Date of Patent: ****Oct. 7, 1997**

[54] **HAND HELD VACUUM CLEANER**

[75] Inventors: **David W. Moine; John D. Essex**, both of North Canton, Ohio

[73] Assignee: **The Hoover Company**, North Canton, Ohio

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

[21] Appl. No.: **55,753**

[22] Filed: **Jun. 12, 1996**

Related U.S. Application Data

[62] Division of Ser. No. 44,847, Oct. 2, 1995.

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

[52] U.S. Cl. **D32/18**

[58] Field of Search **D32/17, 18; 15/329, 15/344, 347**

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Primary Examiner—Ruth McInroy

Attorney, Agent, or Firm—A. Burgess Lowe; Richardson B. Farley

[57] CLAIM

The ornamental design of a hand held vacuum cleaner, as shown and described.

DESCRIPTION

FIG. 1 is a side view of our invention of a design for a hand held vacuum cleaner, the opposite side view being a mirror image thereof;

FIG. 2 is a top view thereof;

FIG. 3 is a bottom view thereof;

FIG. 4 is a bottom view similar to FIG. 3 but with the nozzle in an alternative position;

FIG. 5 is a front view of FIG. 1;

FIG. 6 is a front view similar to FIG. 5 but with the nozzle in an alternative position;

FIG. 7 is a rear view of FIG. 1;

FIG. 8 is a second embodiment thereof, the opposite side view being a mirror image thereof;

FIG. 9 is a top view thereof;

FIG. 10 is a bottom view thereof;

FIG. 11 is a front view thereof;

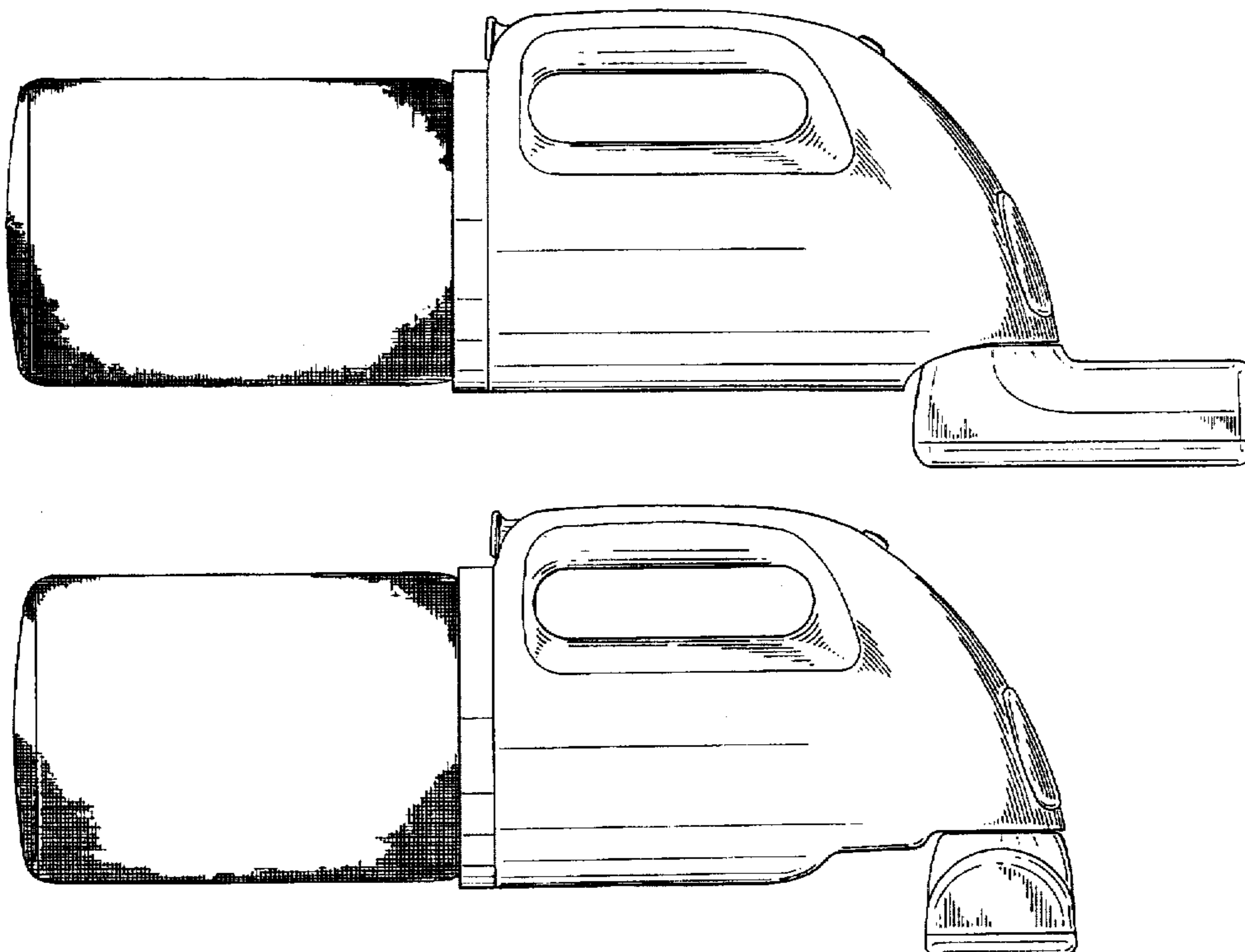
FIG. 12 is a front view similar to FIG. 11 with the nozzle in an alternative position;

FIG. 13 is a side view of the alternative nozzle position shown in FIG. 11; and,

FIG. 14 is a rear view of FIG. 8.

The crosshatch shading shown in FIGS. 1-4, 7-10 and 13-14 is understood to repeat throughout the indicated area.

1 Claim, 6 Drawing Sheets



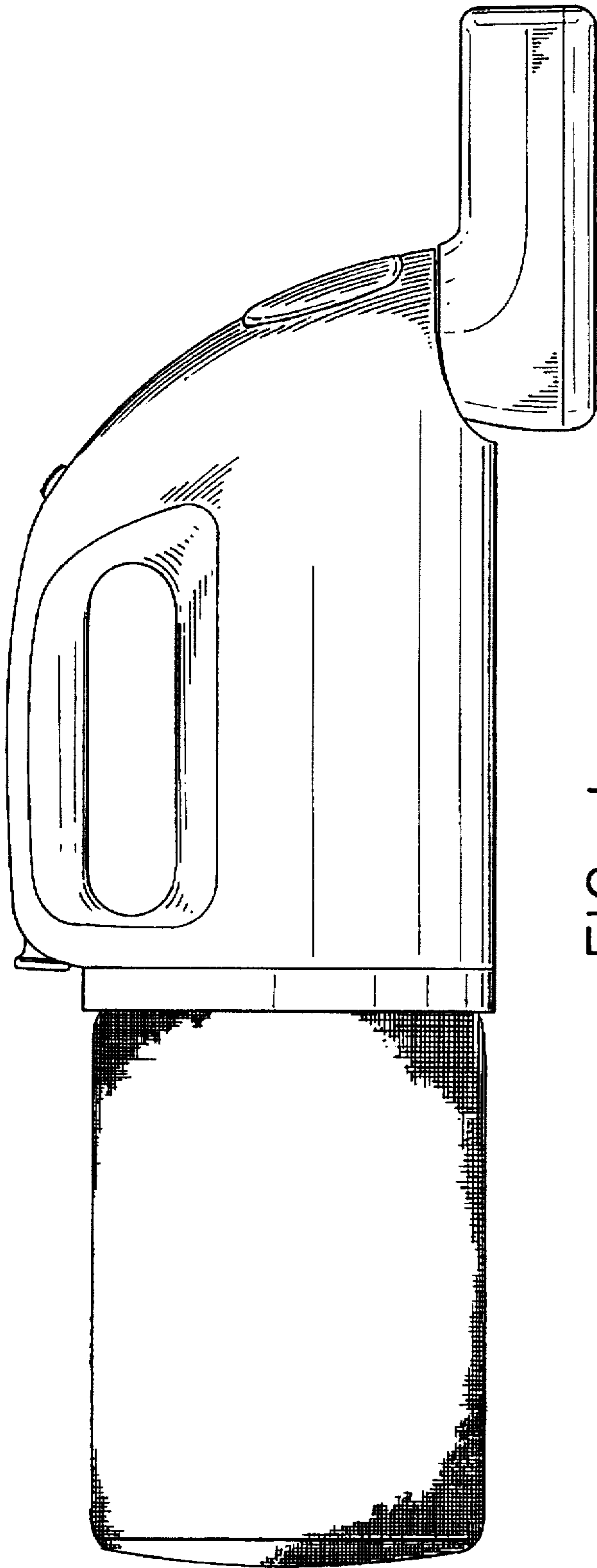


FIG.-1

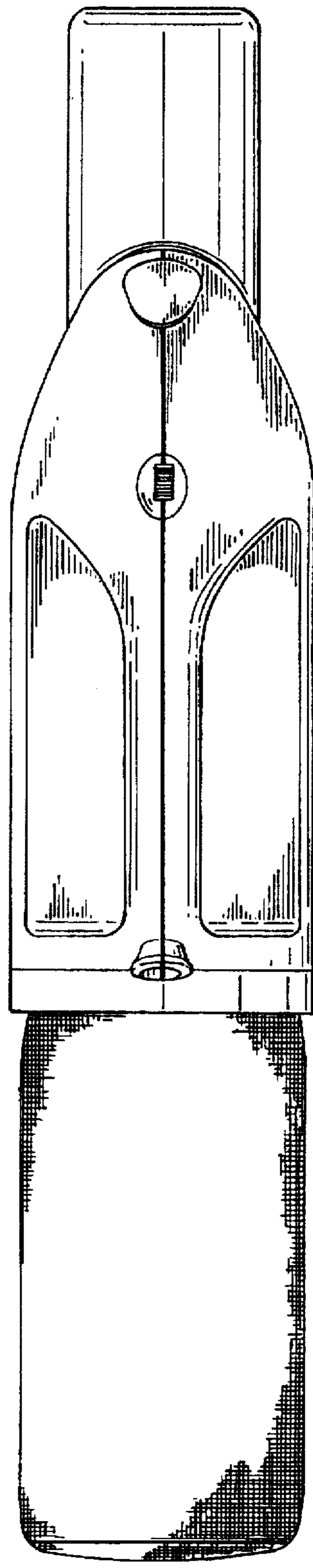


FIG.-2

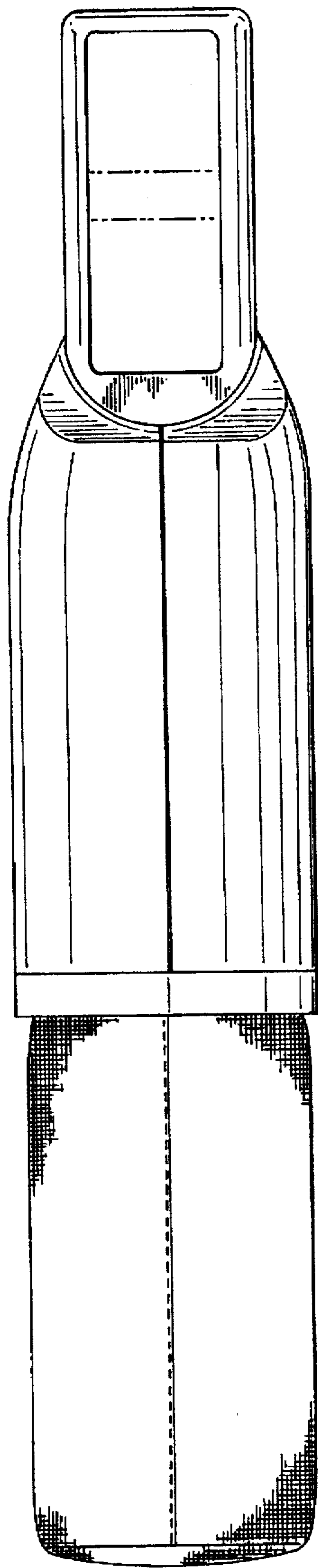


FIG. - 3

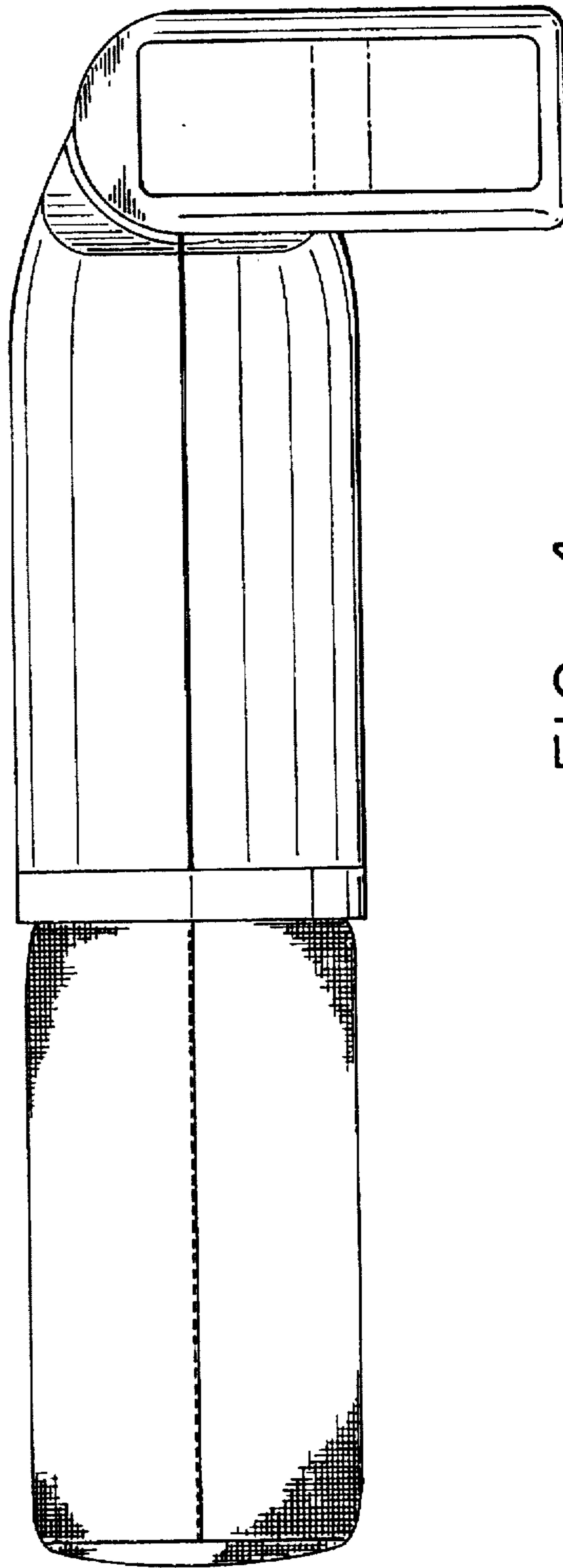


FIG. - 4

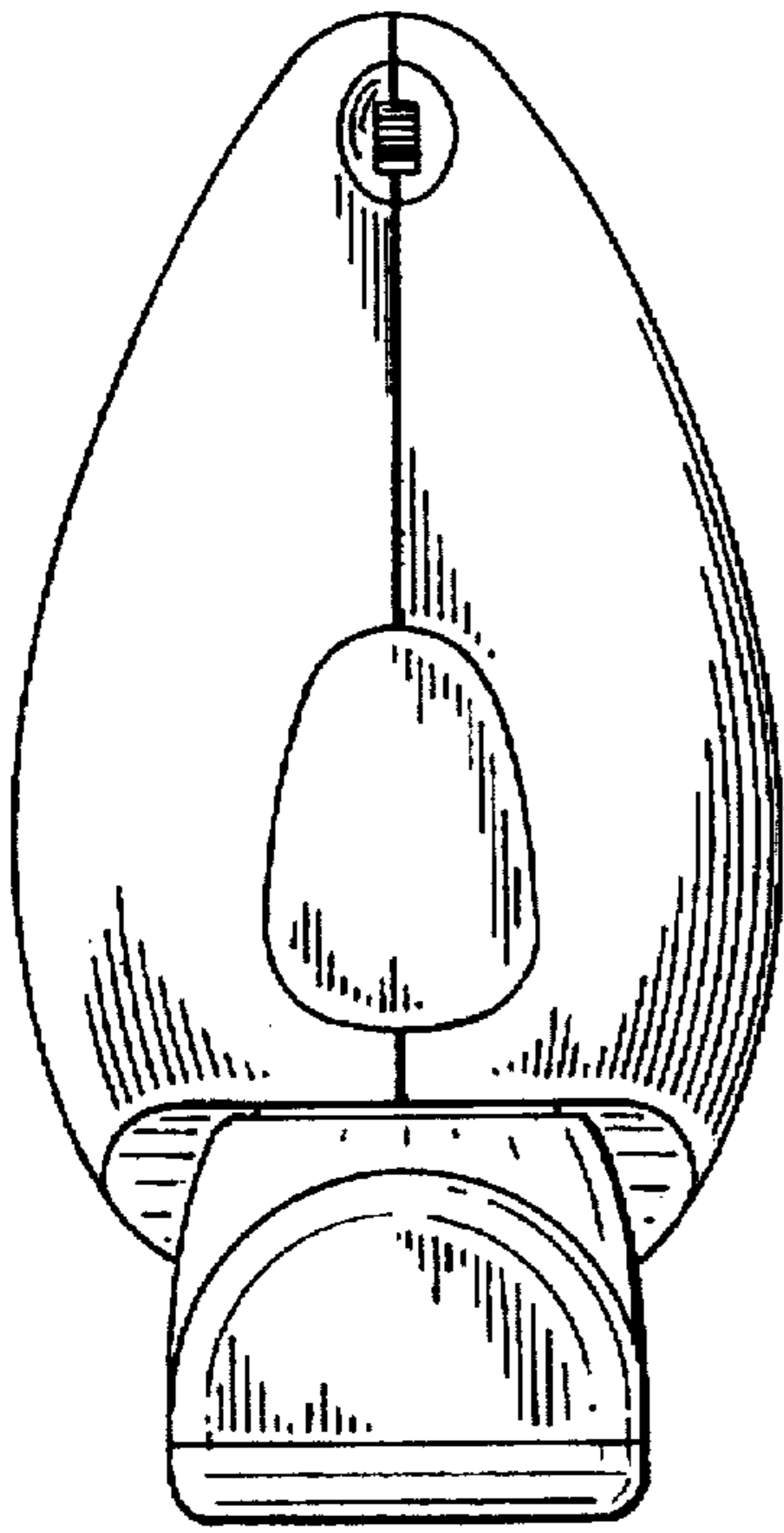


FIG. - 5

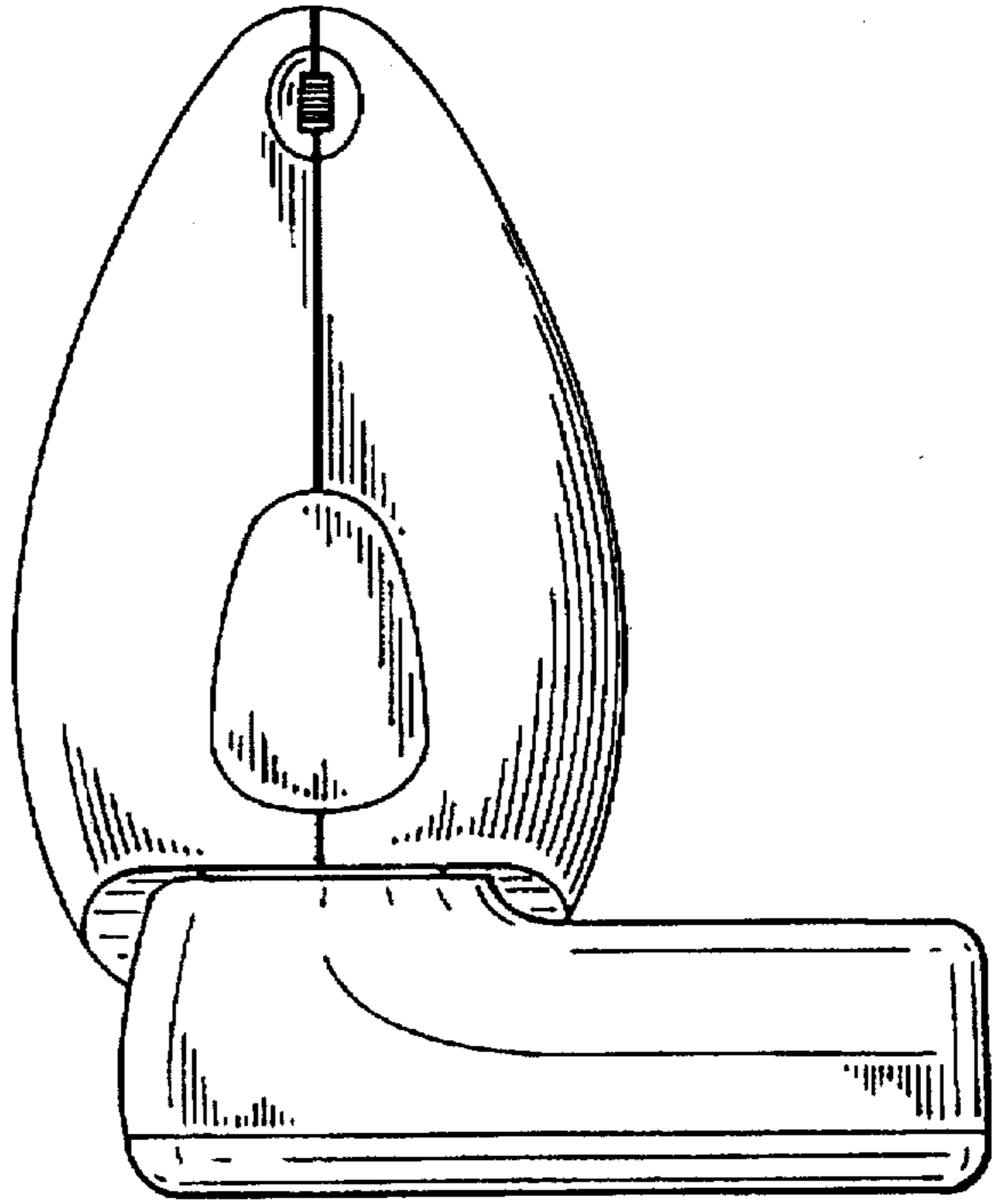


FIG. - 6

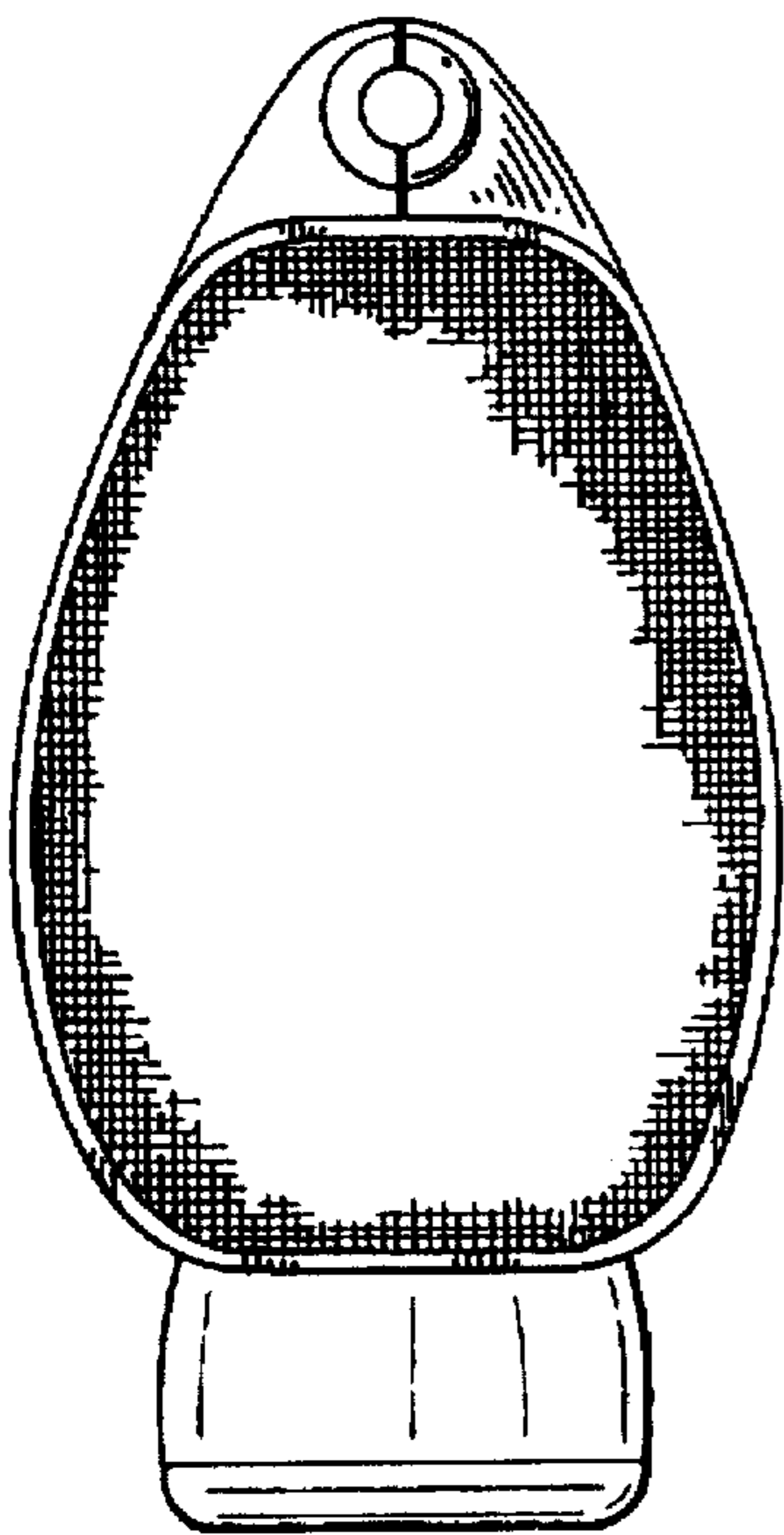


FIG. - 7

FIG. - 8

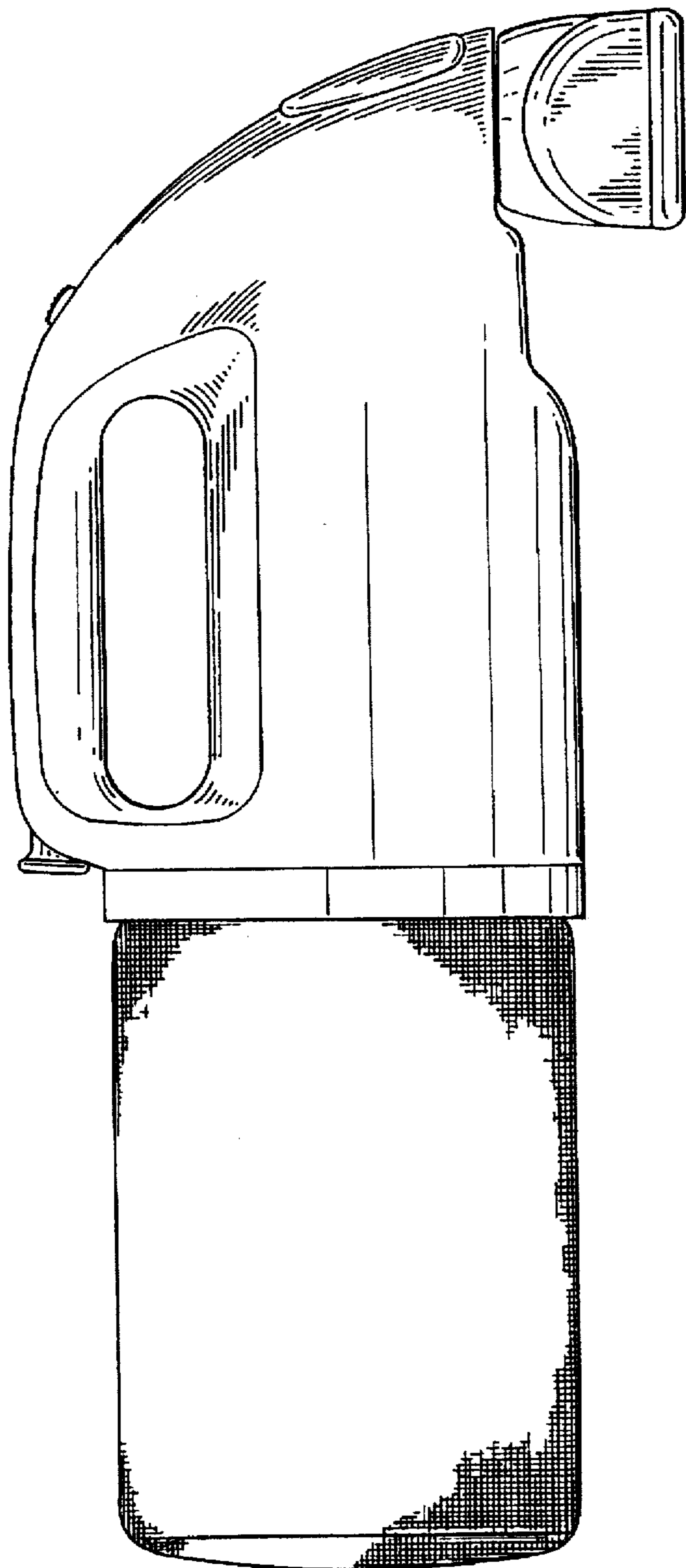


FIG. - 9

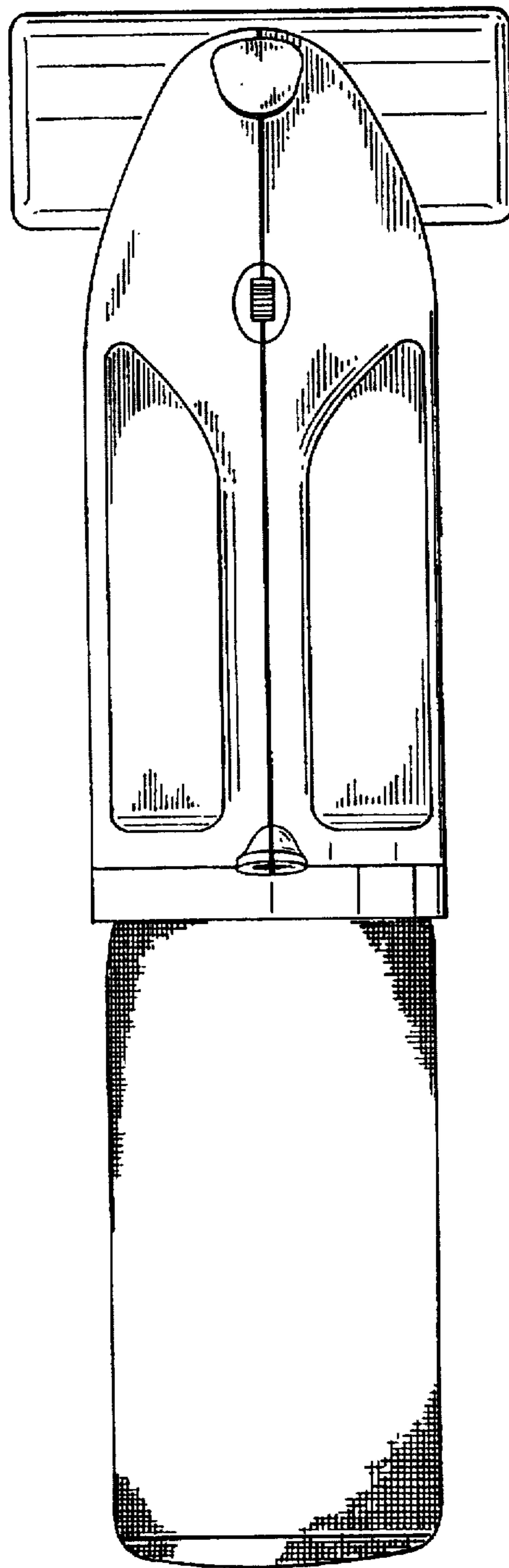


FIG.-10

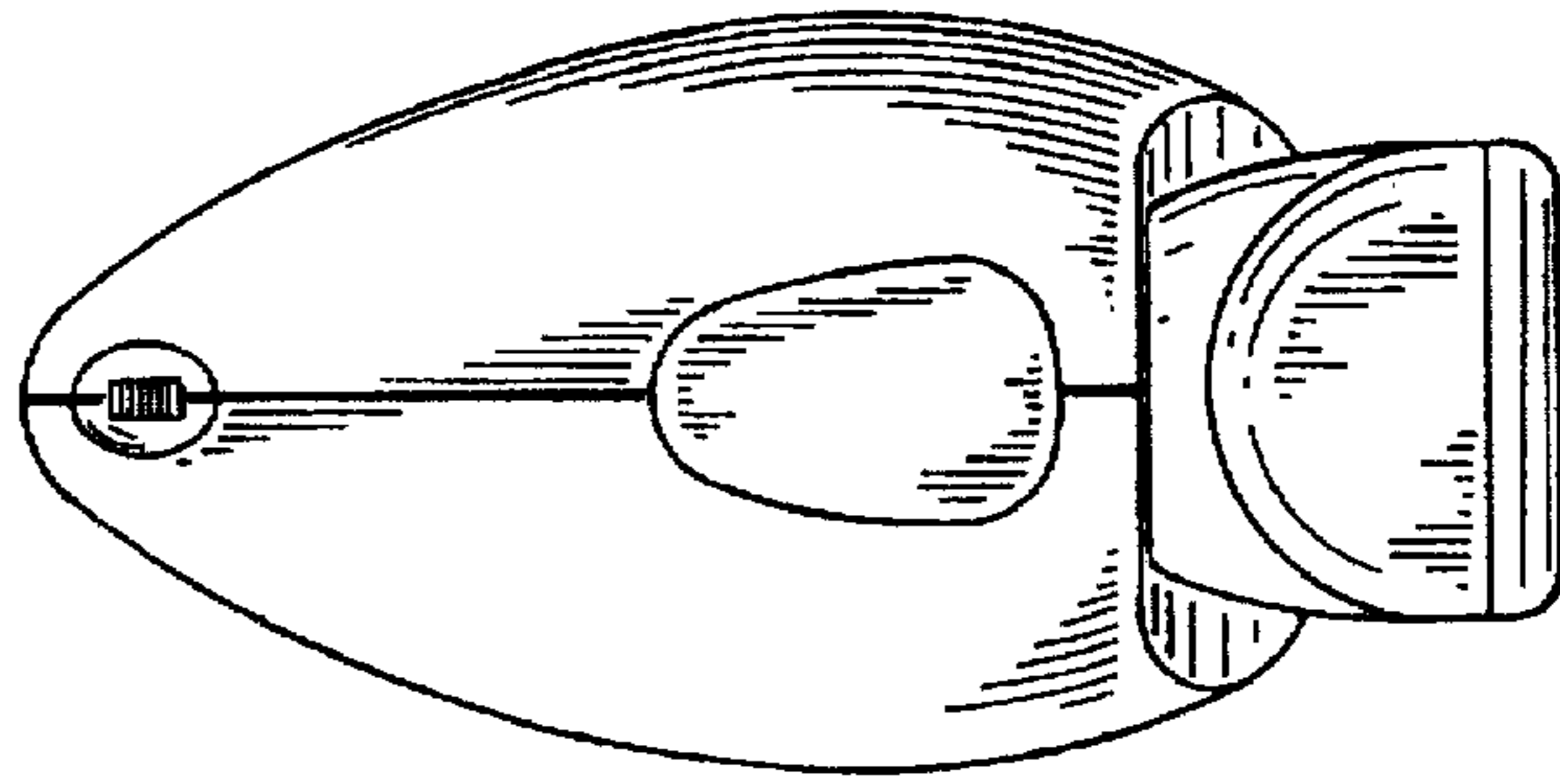
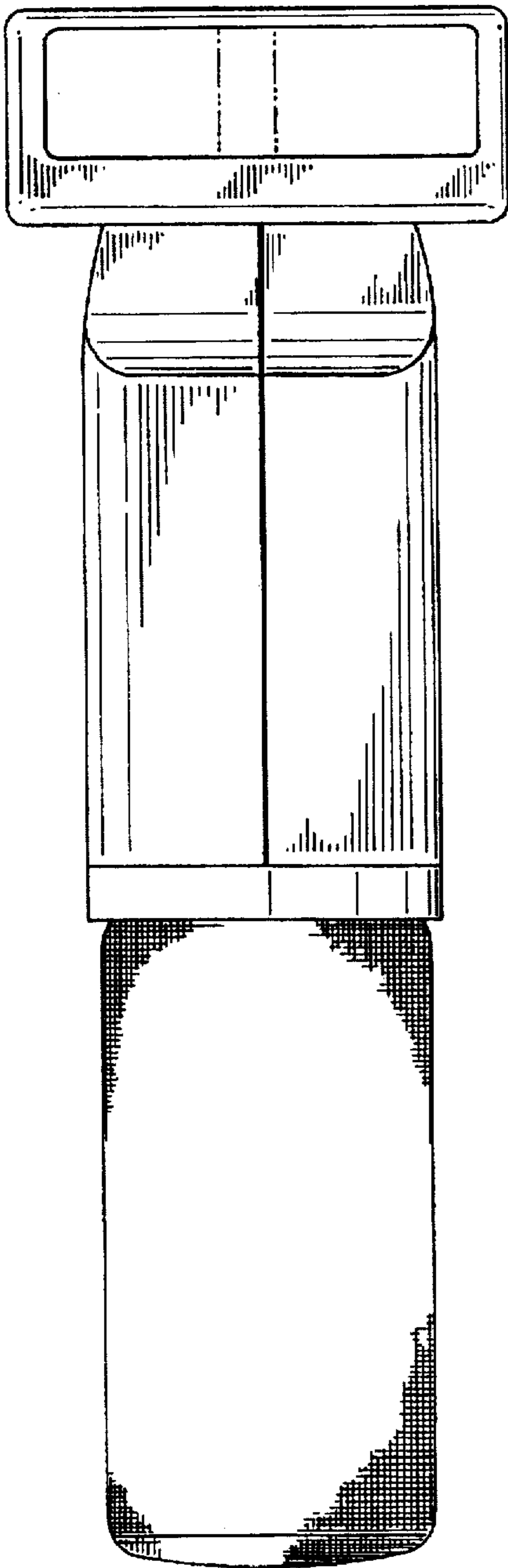


FIG.-12

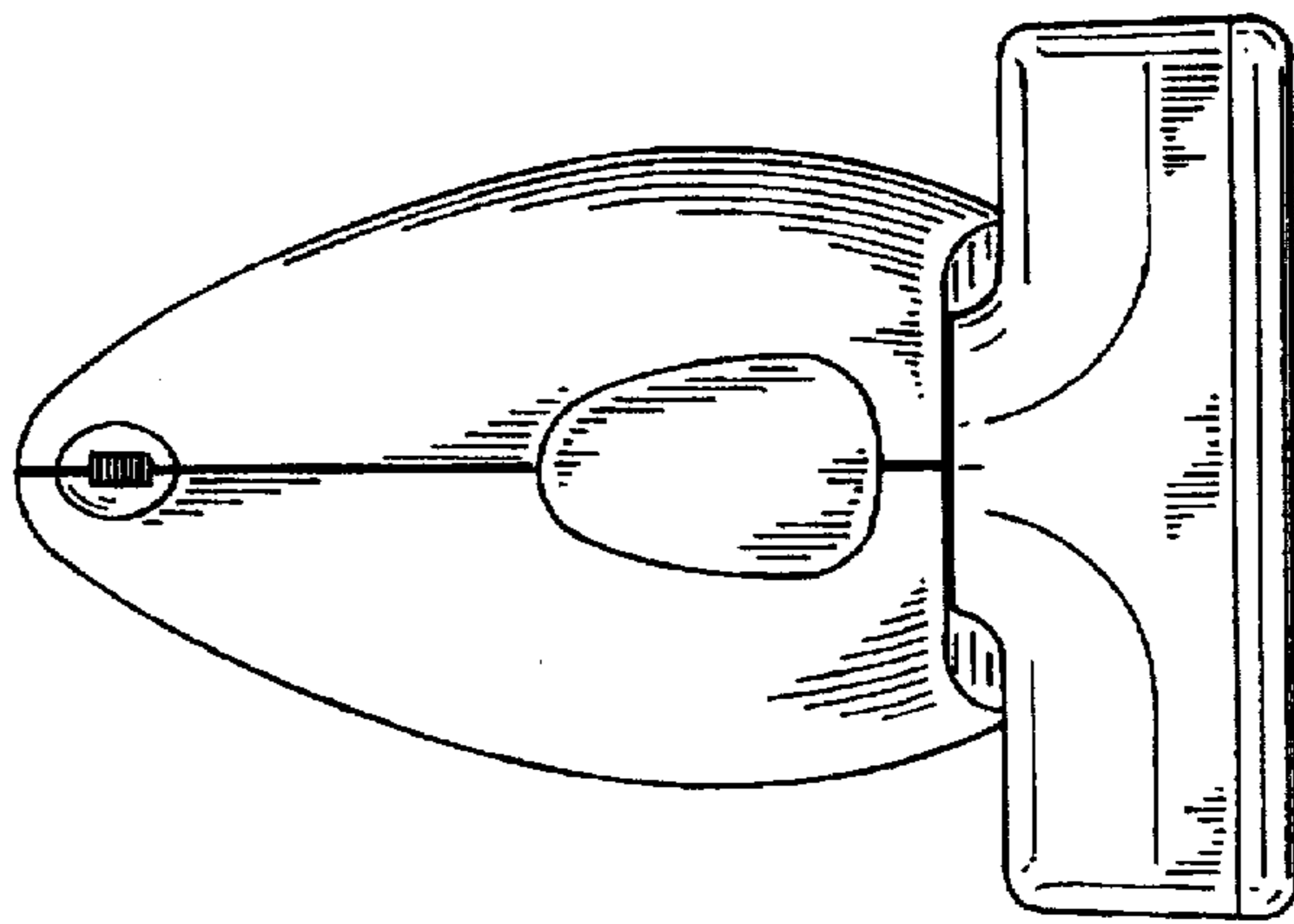


FIG.-11

FIG. - 13

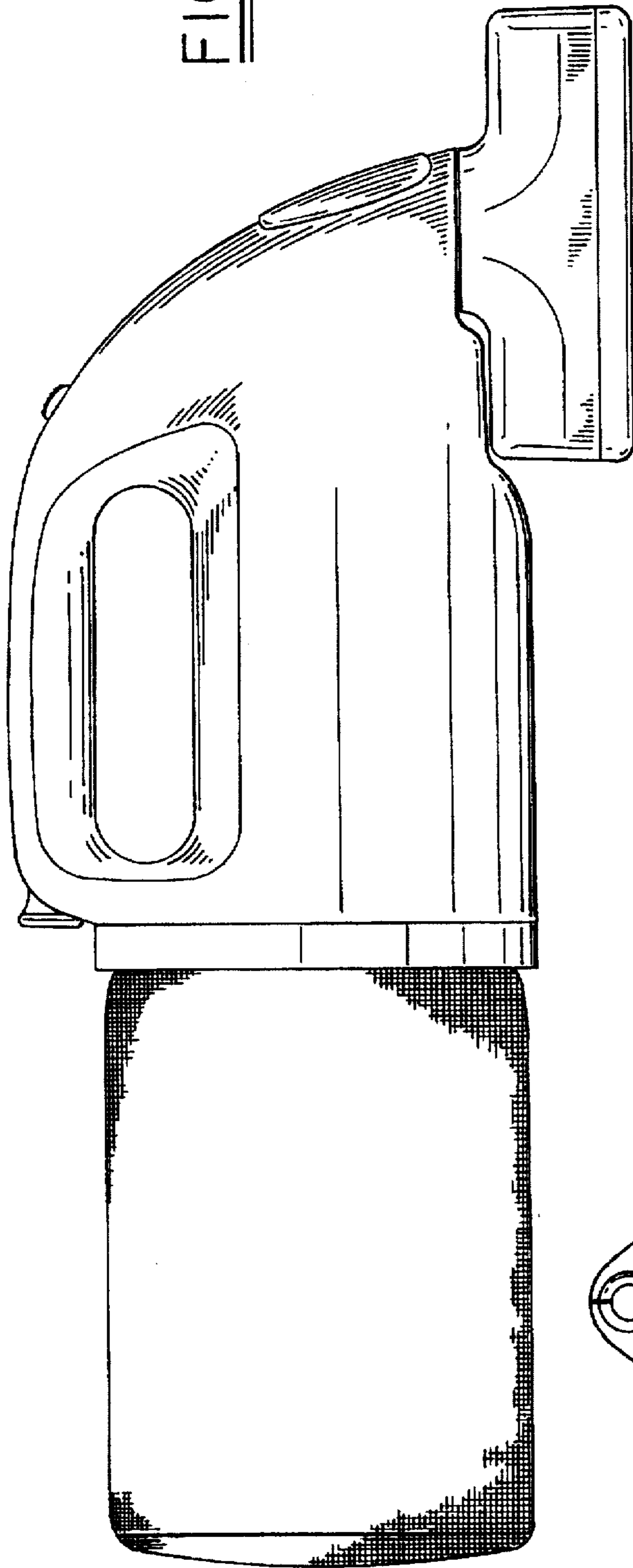


FIG. - 14

