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(12) **United States Design Patent**
Bickford

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(45) **Date of Patent:** **** *Mar. 19, 2013**

(54) **CONVEX-CONCAVE ROLLER**

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(*) Notice: This patent is subject to a terminal disclaimer.

(**) Term: **14 Years**

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(22) Filed: **Aug. 24, 2011**

(51) **LOC (9) Cl.** **28-03**

(52) **U.S. Cl.** **D24/211**

(58) **Field of Classification Search** D24/200, D24/211–215, 141; 601/27, 28, 33, 40, 46, 601/47, 48, 63, 80, 99, 104, 112, 113, 114, 601/119, 122, 125, 129, 134, 135, 137, DIG. 12, 601/DIG. 13, DIG. 14, DIG. 15, DIG. 16, 601/DIG. 17; D14/137, 147

See application file for complete search history.

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Primary Examiner — Sandra Snapp

(74) *Attorney, Agent, or Firm* — Cynthia R. Miller

(57) **CLAIM**

The ornamental design for a convex-concave roller, substantially as shown and described.

DESCRIPTION

FIG. 1 is a perspective view of a first embodiment of our new design for a convex-concave roller, both rollers having a smooth surface;

FIG. 2 is an end view of the convex-concave roller shown in FIG. 1;

FIG. 3 is a front elevational view of the convex-concave roller shown in FIG. 1;

FIG. 4 is an opposite end view of the convex-concave roller shown in FIG. 1;

FIG. 5 is a side elevational view of the convex-concave roller shown in FIG. 1;

FIG. 6 is a rear elevational view of the convex-concave roller shown in FIG. 1;

FIG. 7 is an opposite side elevational view of the convex-concave roller shown in FIG. 1;

FIG. 8 is a perspective view of a second embodiment of our new design for a convex-concave roller, both rollers having a flocced or a textured surface;

FIG. 9 is an end view of the convex-concave roller shown in FIG. 8;

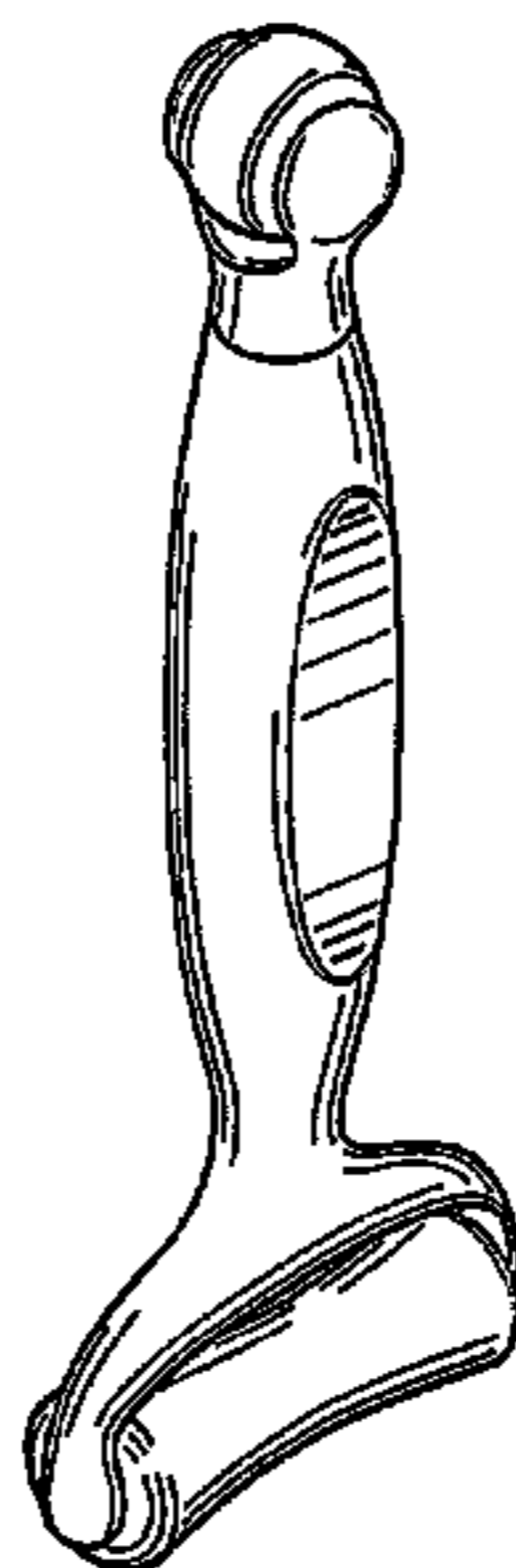


FIG. 10 is a front elevational view of the convex-concave roller shown in FIG. 8;

FIG. 11 is an opposite end view of the convex-concave roller shown in FIG. 8;

FIG. 12 is a side elevational view of the convex-concave roller shown in FIG. 8;

FIG. 13 is a rear elevational view of the convex-concave roller shown in FIG. 8;

FIG. 14 is an opposite side elevational view of the convex-concave roller shown in FIG. 8;

FIG. 15 is a perspective view of a third embodiment of our new design for a convex-concave roller, one roller having a smooth surface and the other roller having a flocked or textured surface;

FIG. 16 is an end view of the convex-concave roller shown in FIG. 15;

FIG. 17 is a front elevational view of the convex-concave roller shown in FIG. 15;

FIG. 18 is an opposite end view of the convex-concave roller shown in FIG. 15;

FIG. 19 is a side elevational view of the convex-concave roller shown in FIG. 15;

FIG. 20 is a rear elevational view of the convex-concave roller shown in FIG. 15;

FIG. 21 is an opposite side elevational view of the convex-concave roller shown in FIG. 15;

FIG. 22 is a perspective view of a fourth embodiment of our new design for a convex-concave roller, one roller having a smooth surface and the other roller having a flocked or textured surface;

FIG. 23 is an end view of the convex-concave roller shown in FIG. 22;

FIG. 24 is a front elevational view of the convex-concave roller shown in FIG. 22;

FIG. 25 is an opposite end view of the convex-concave roller shown in FIG. 22;

FIG. 26 is a side elevational view of the convex-concave roller shown in FIG. 22;

FIG. 27 is a rear elevational view of the convex-concave roller shown in FIG. 22; and,

FIG. 28 is an opposite side elevational view of the convex-concave roller shown in FIG. 22.

1 Claim, 12 Drawing Sheets

FIG. 1

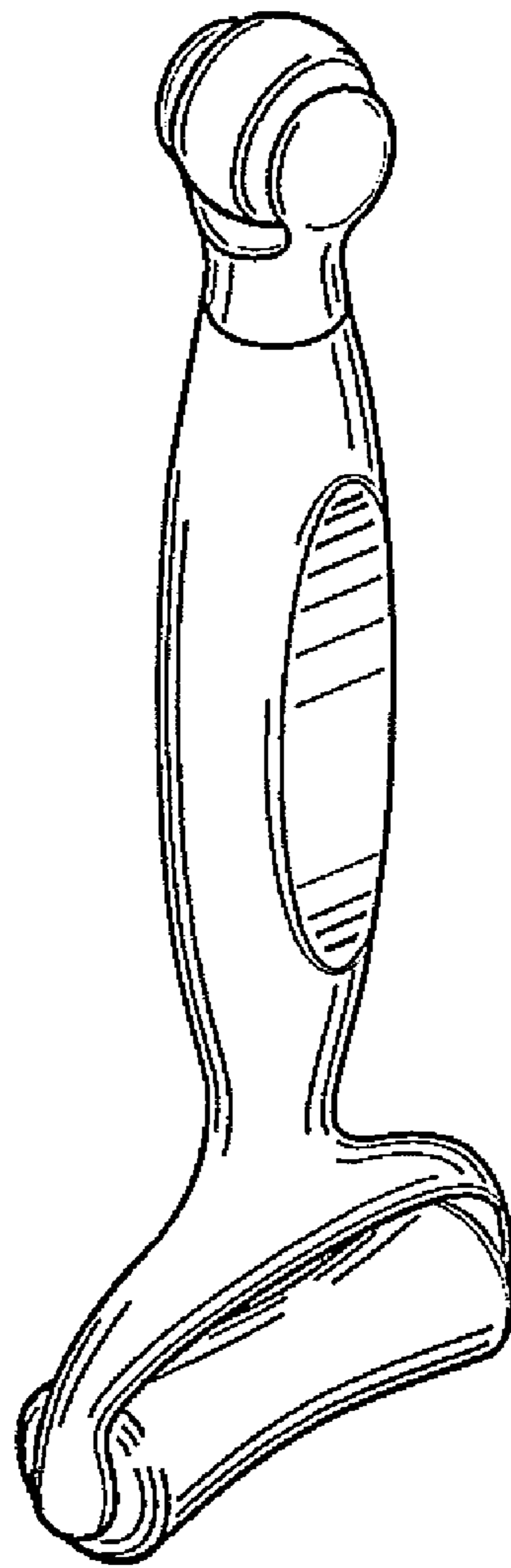


FIG. 2

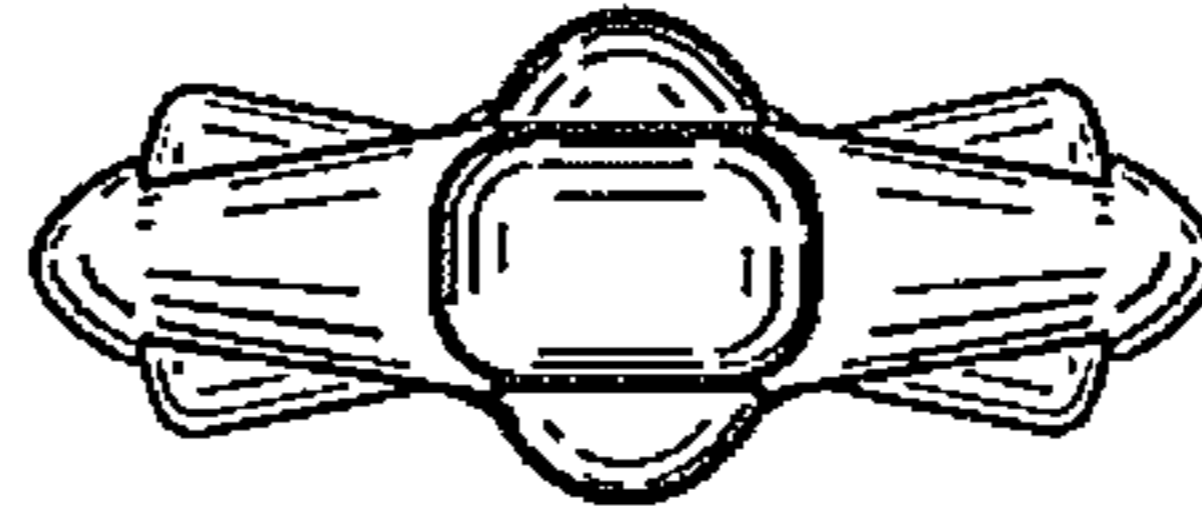


FIG. 3

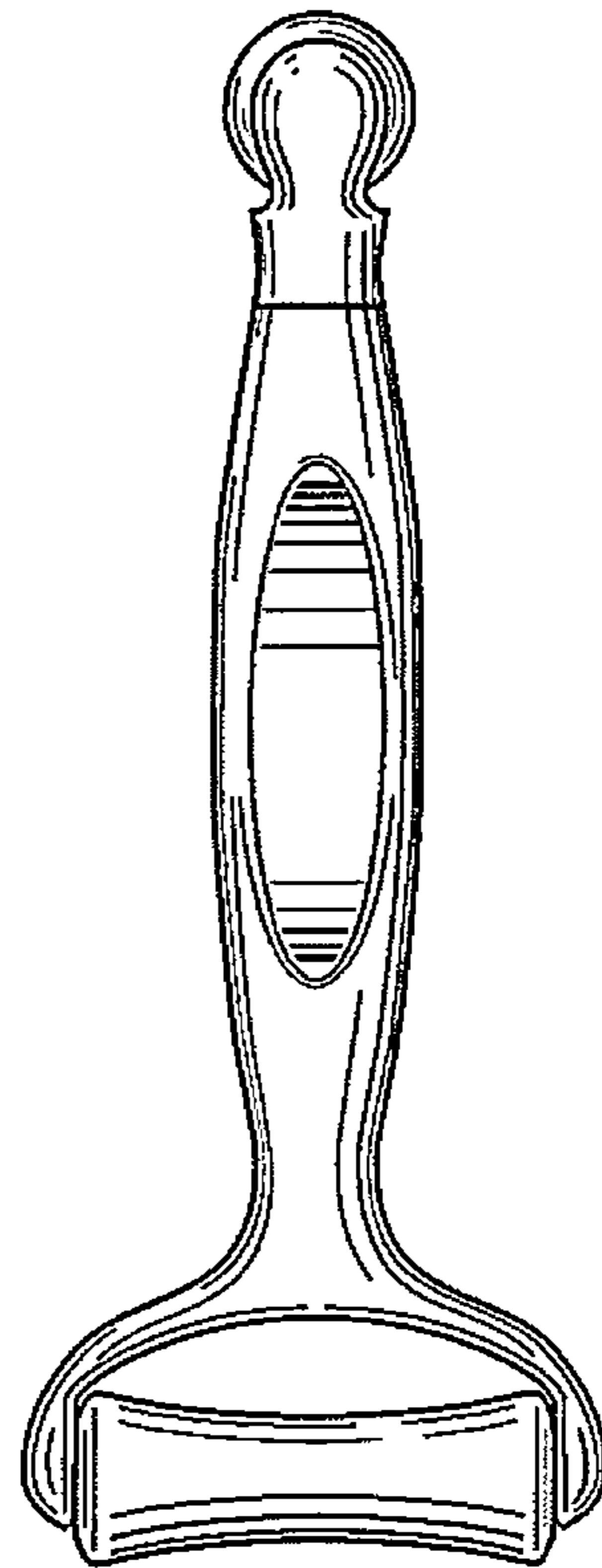


FIG. 4

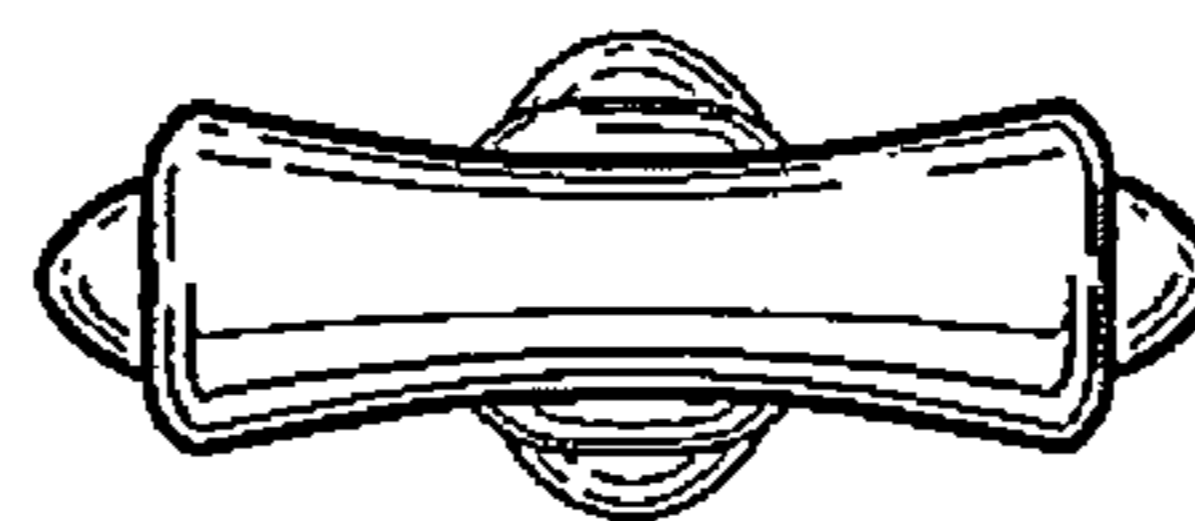


FIG. 5

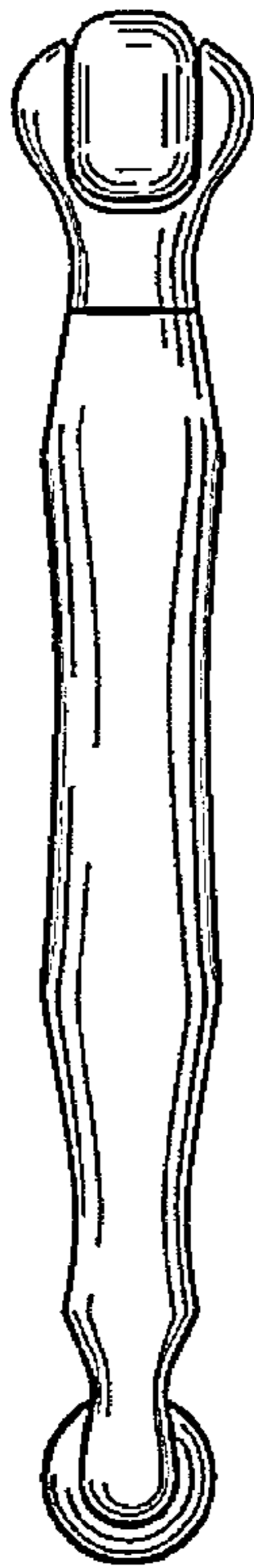


FIG. 6

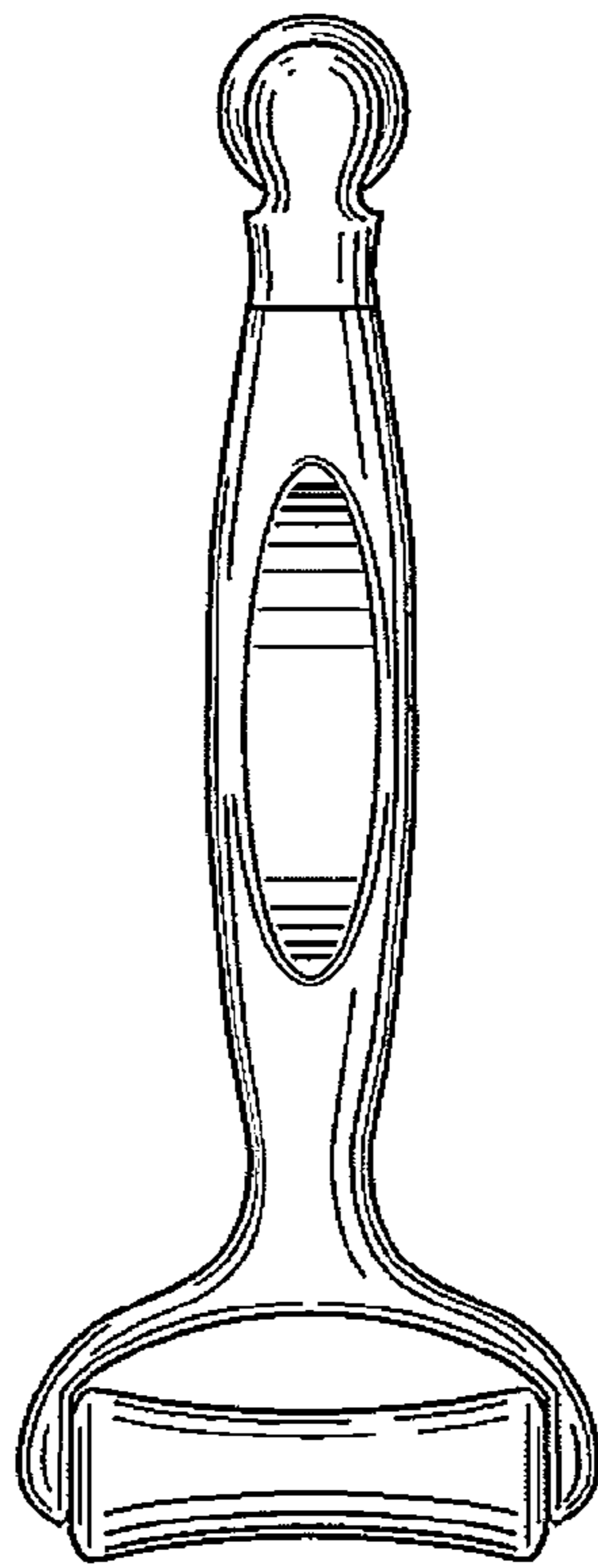


FIG. 7



FIG. 8

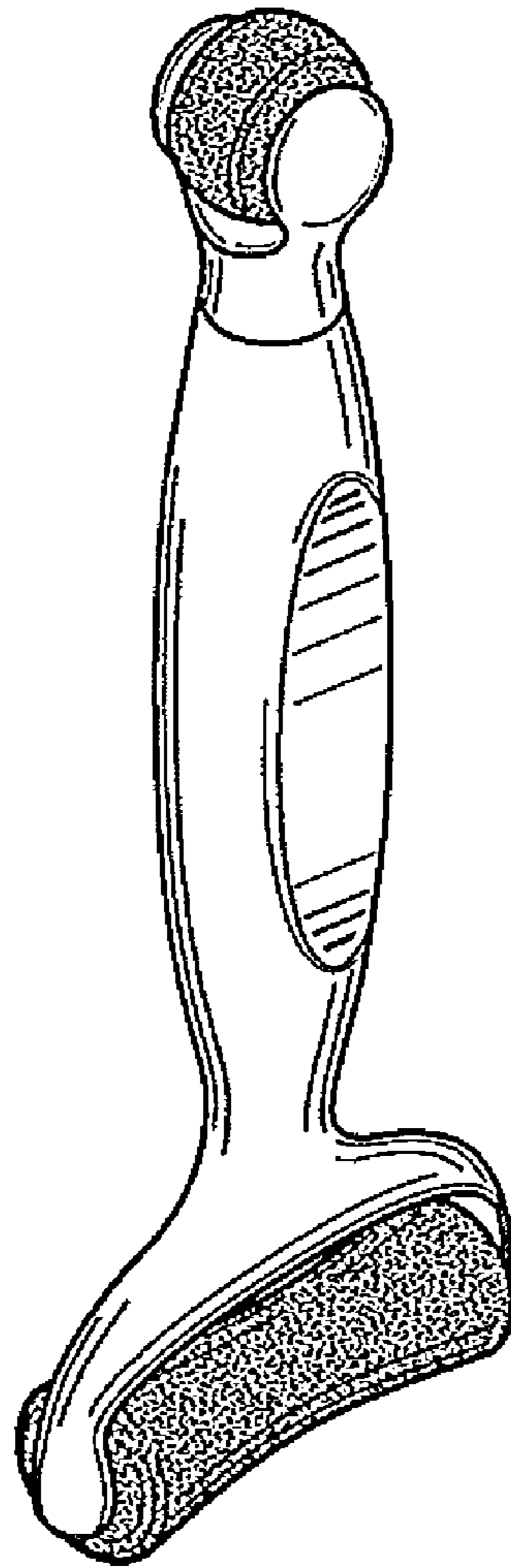


FIG. 9

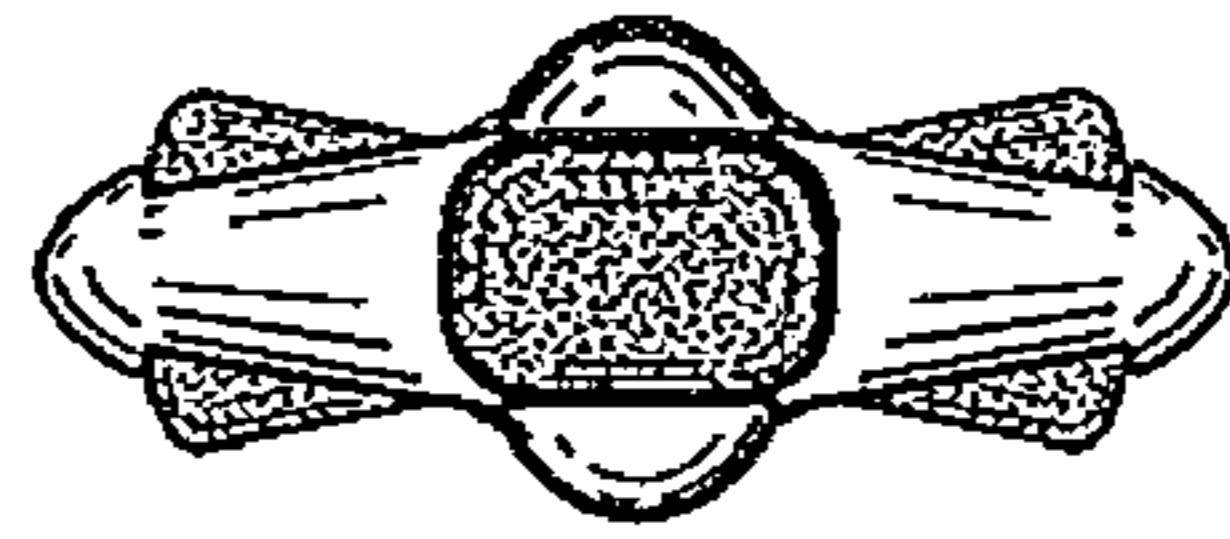


FIG. 10

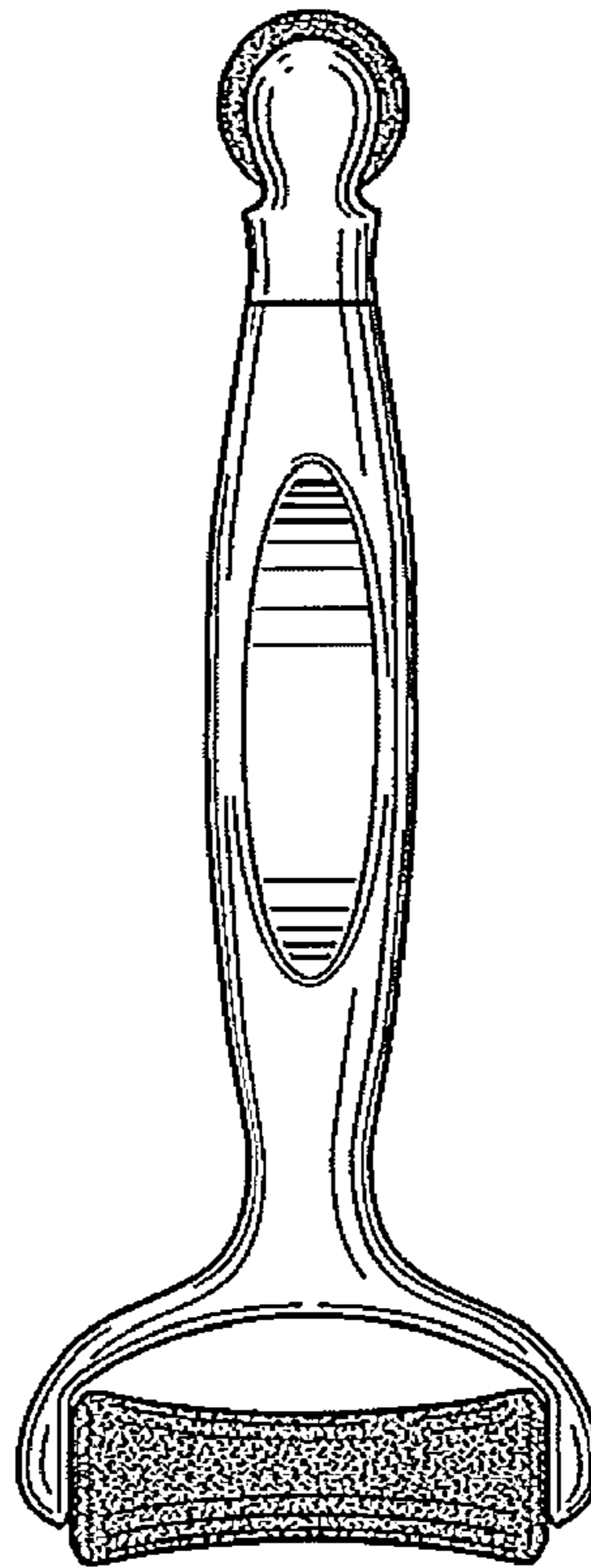


FIG. 11

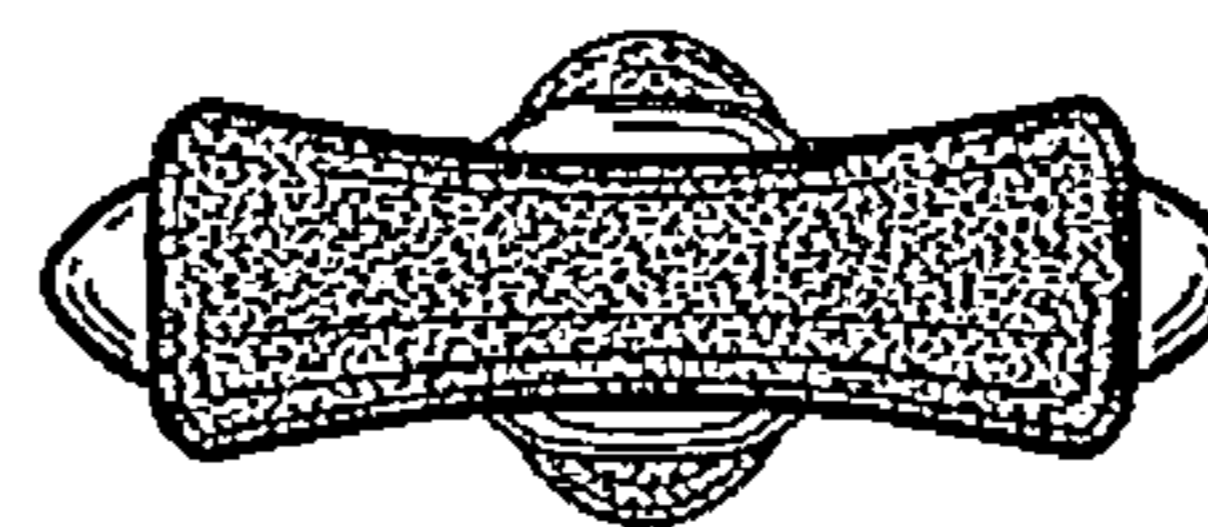


FIG. 12



FIG. 13

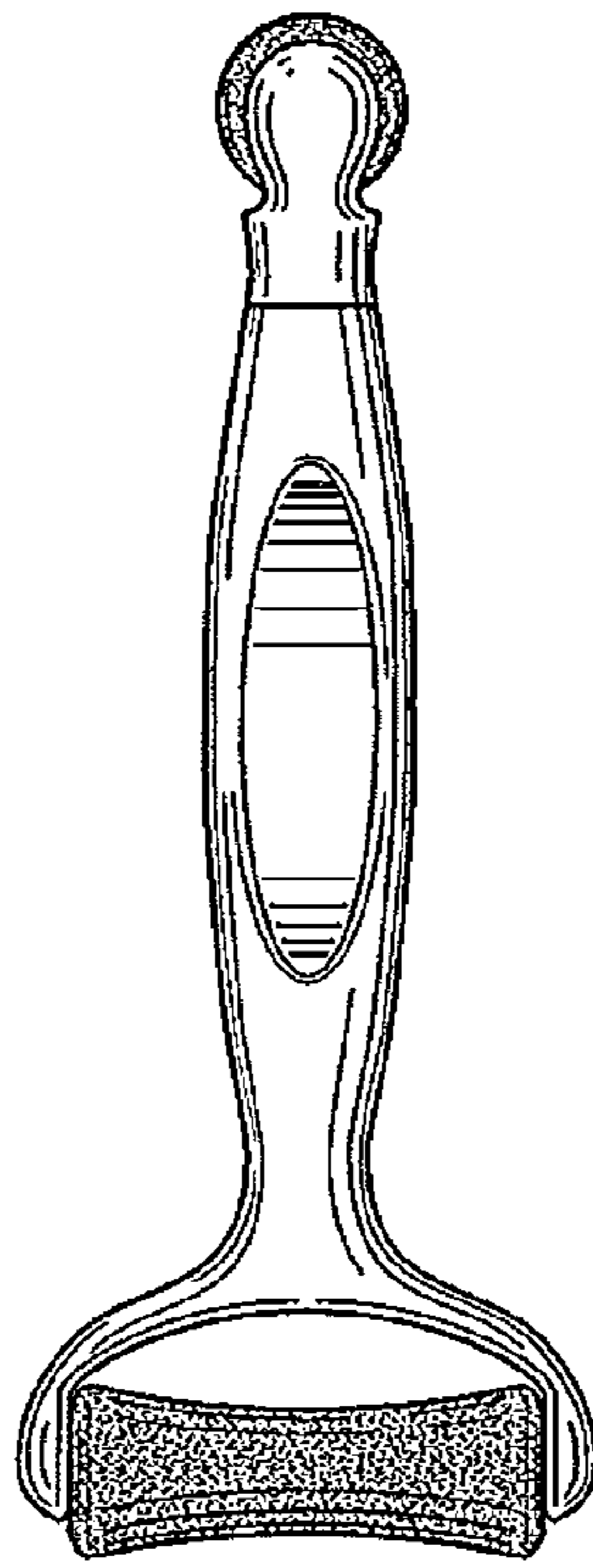


FIG. 14



FIG. 15

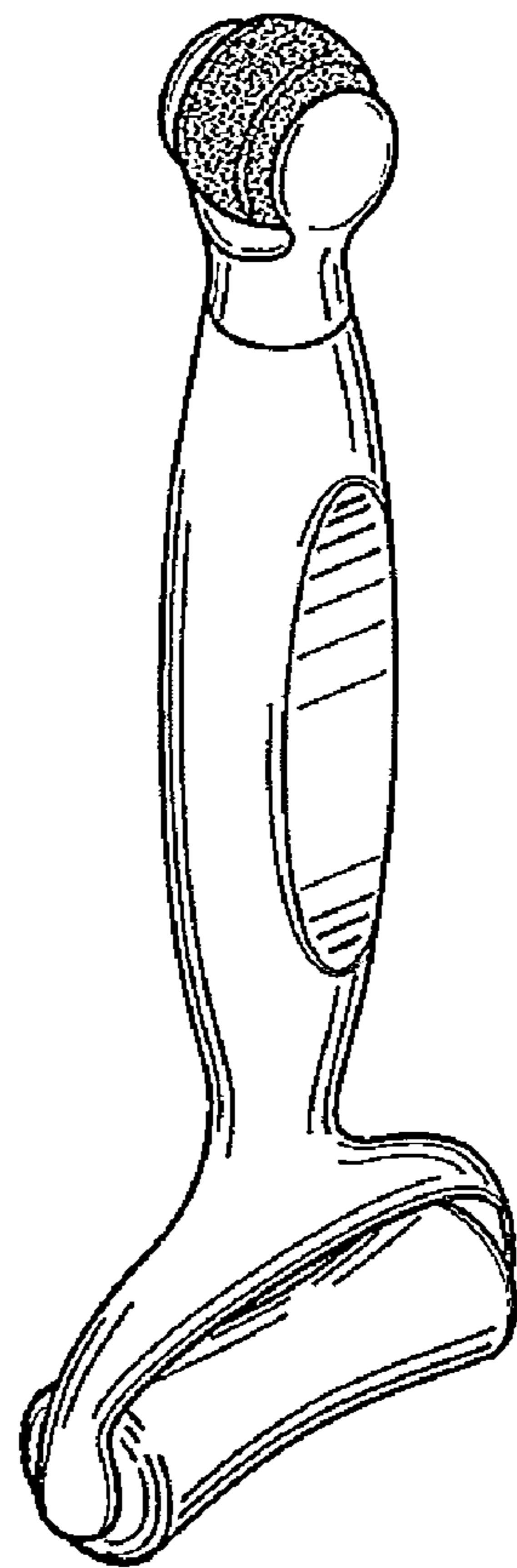


FIG. 16

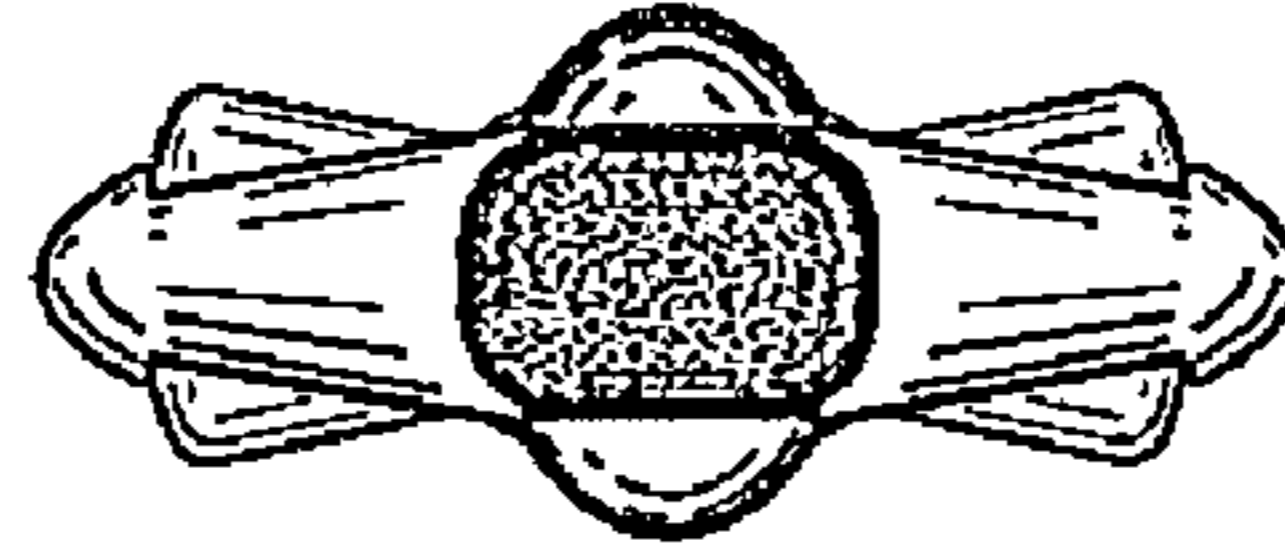


FIG. 17

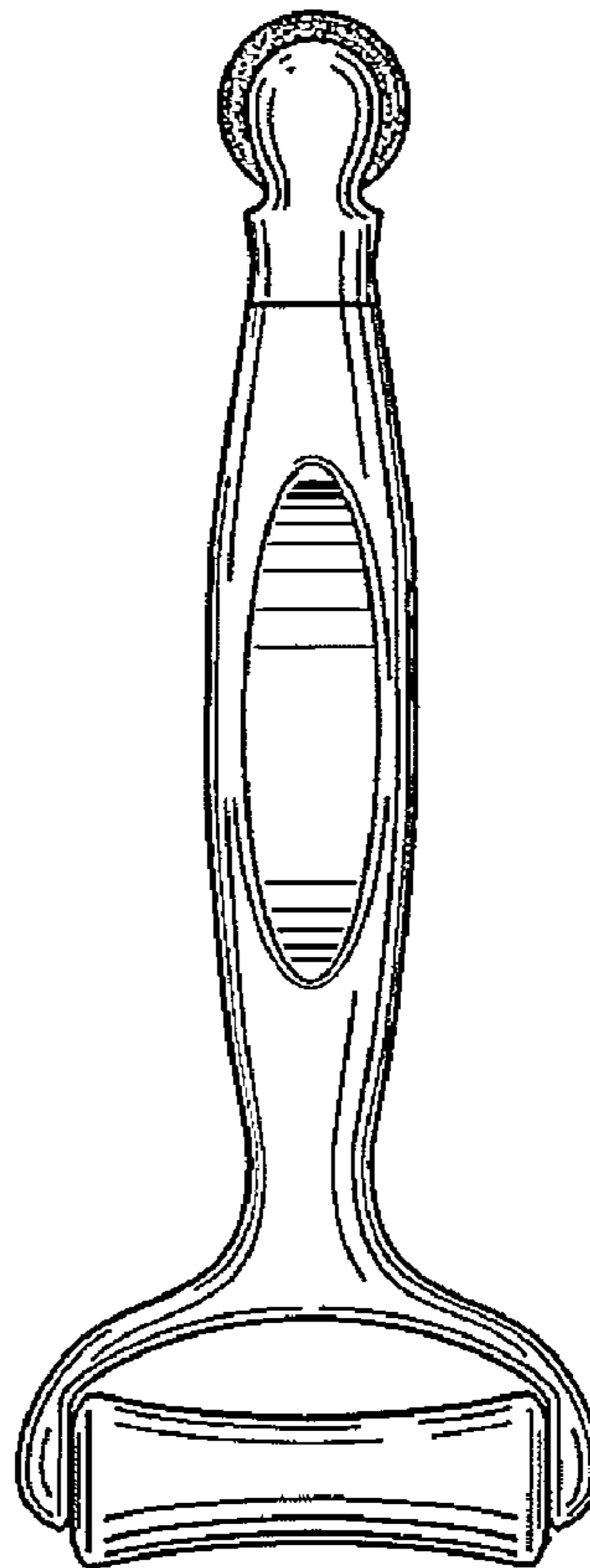


FIG. 18

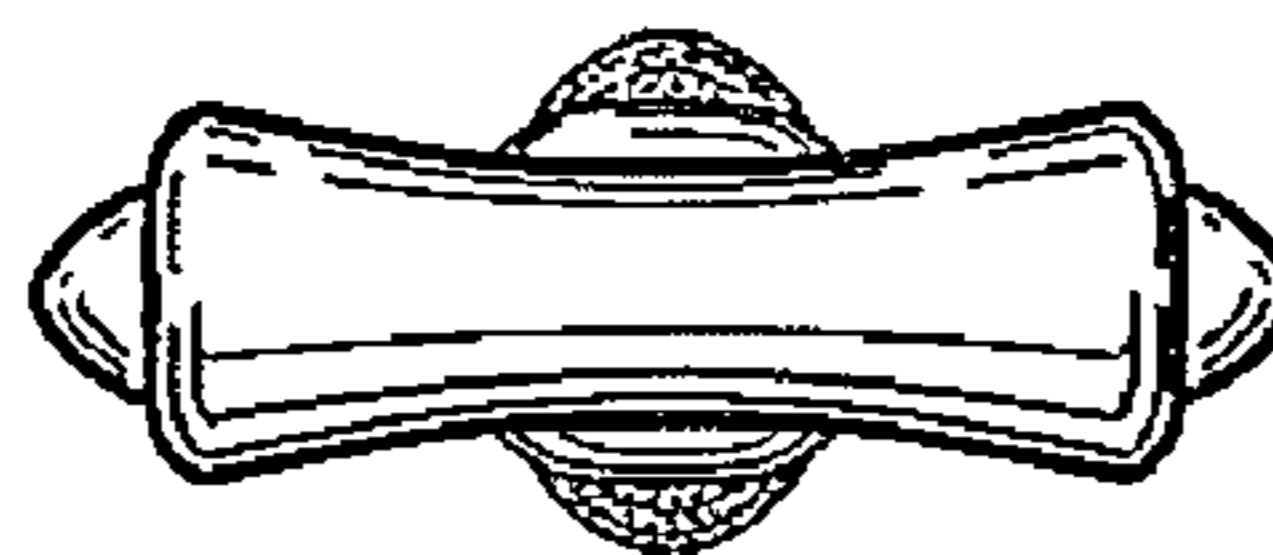


FIG. 19

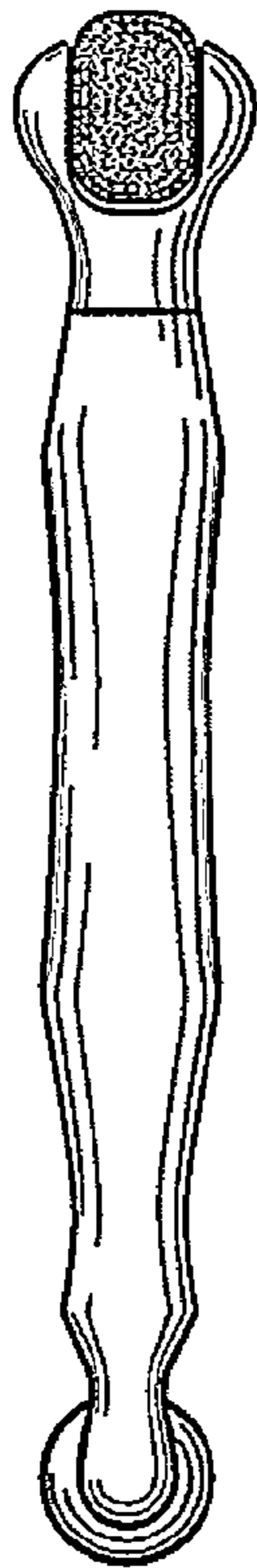


FIG. 20

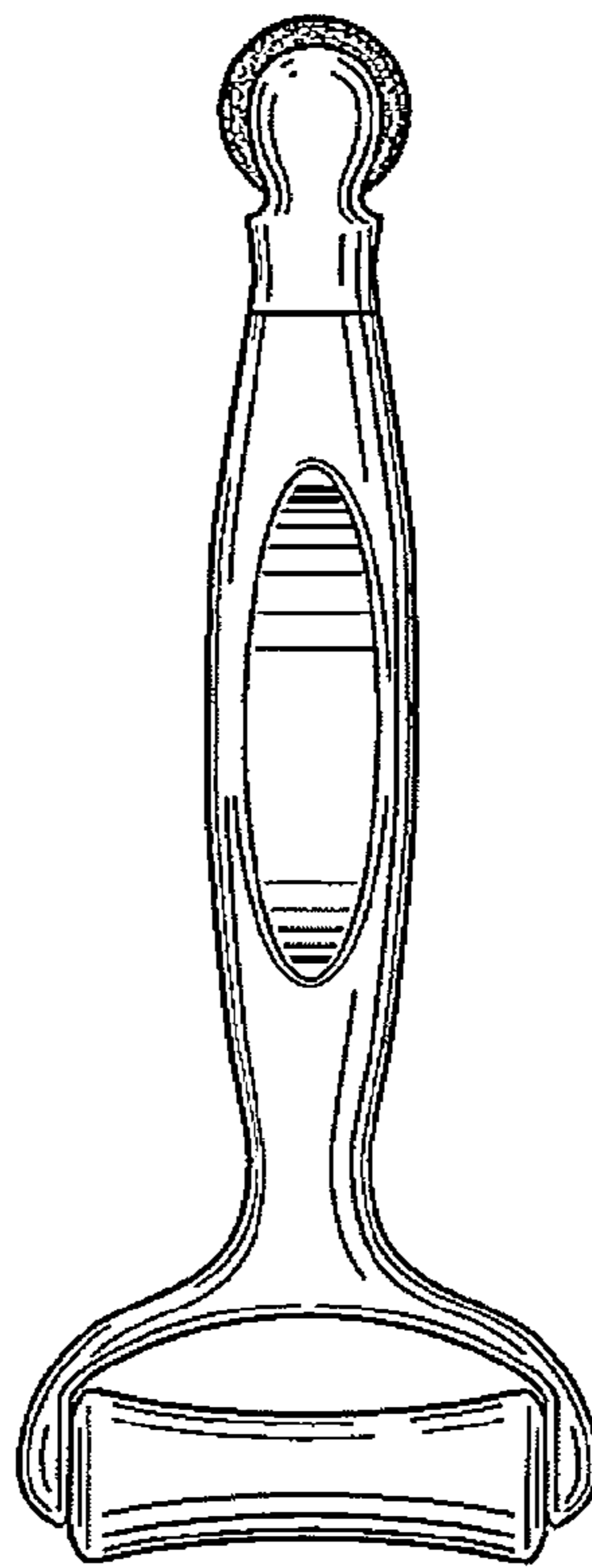


FIG. 21

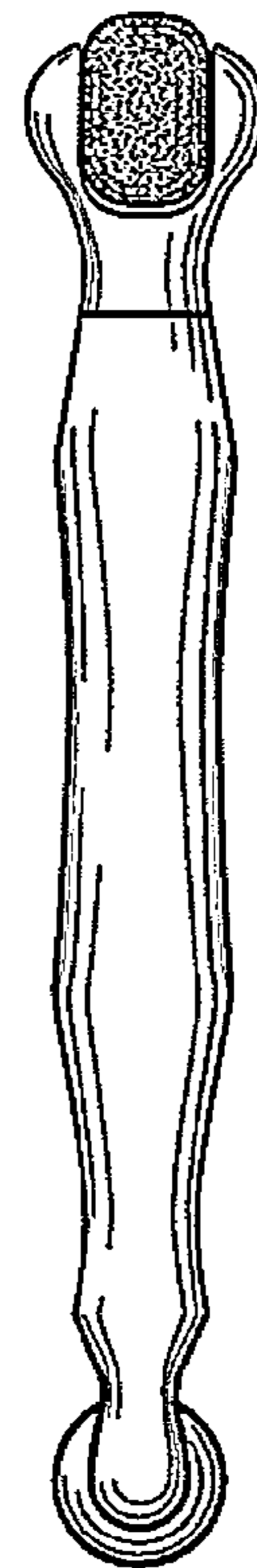


FIG. 22

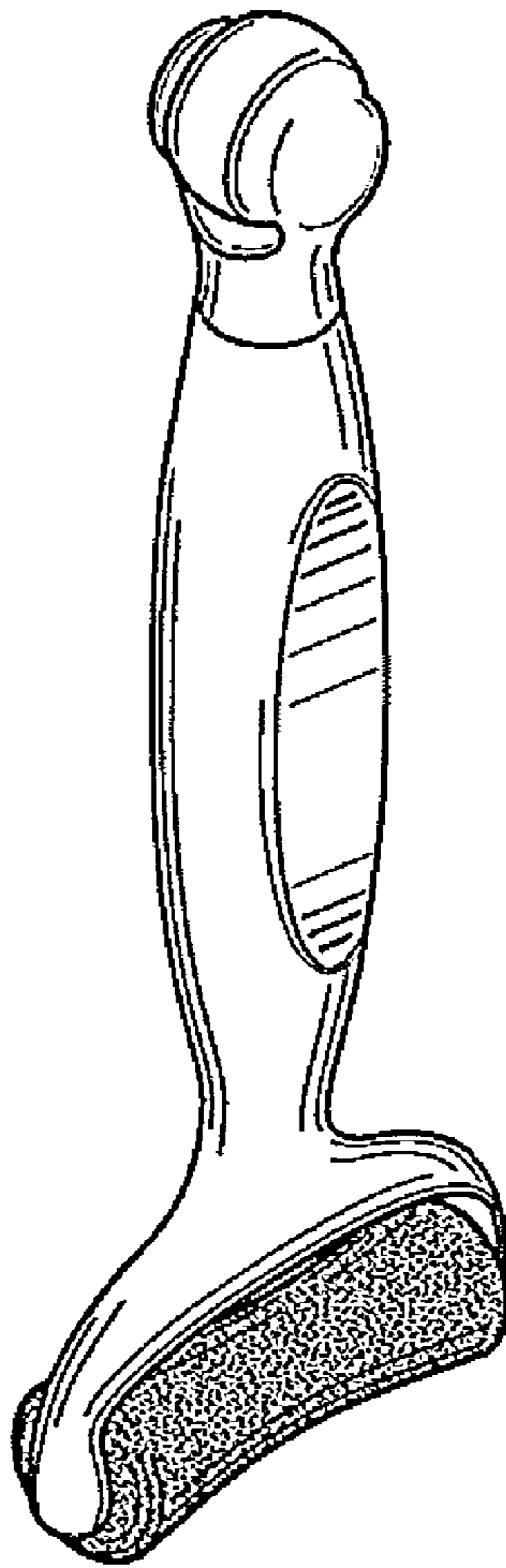


FIG. 23

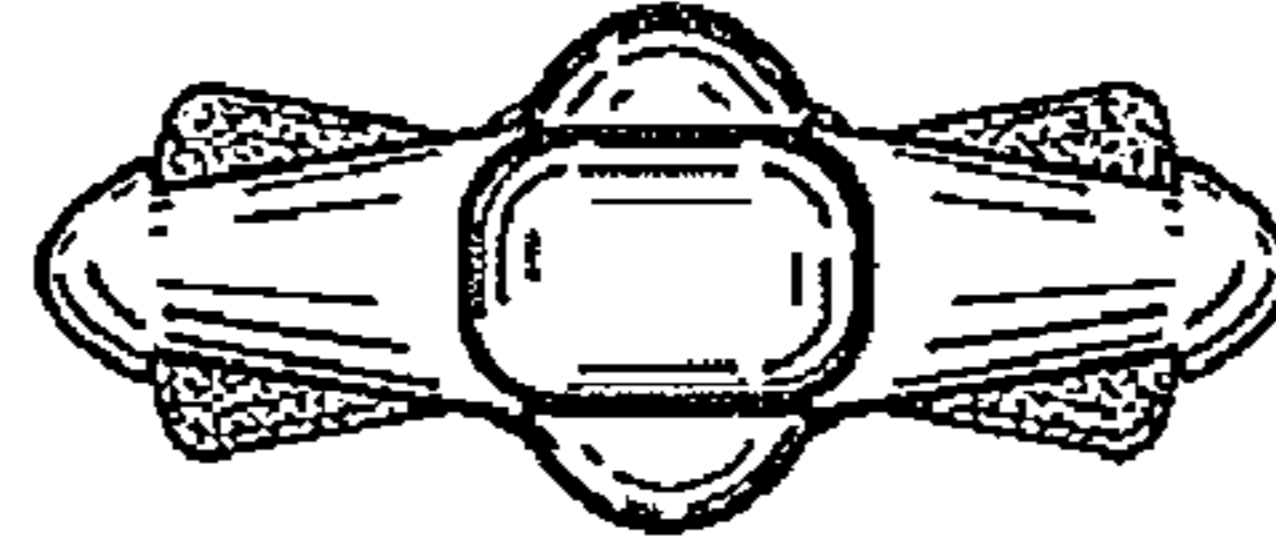


FIG. 24

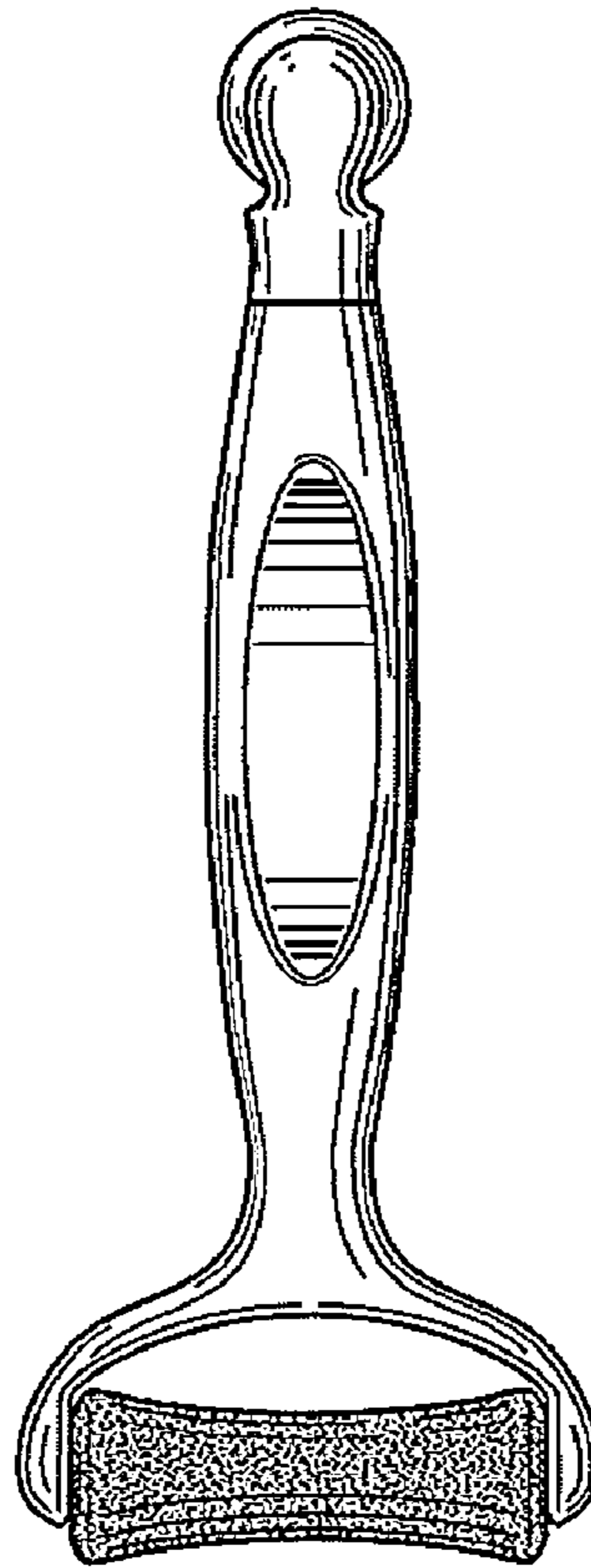


FIG. 25

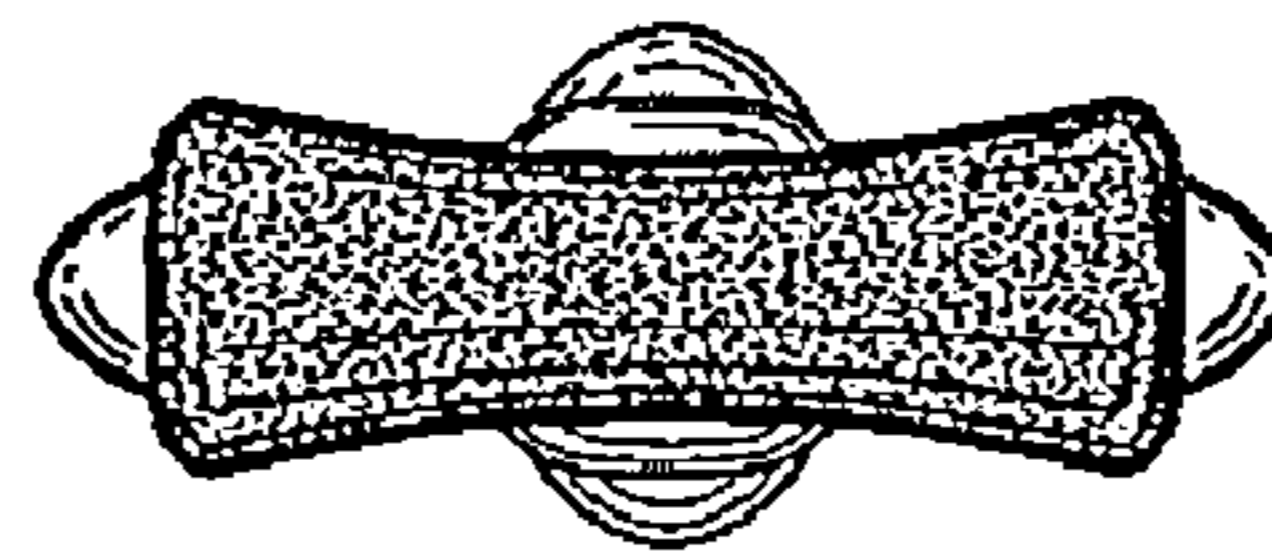


FIG. 26

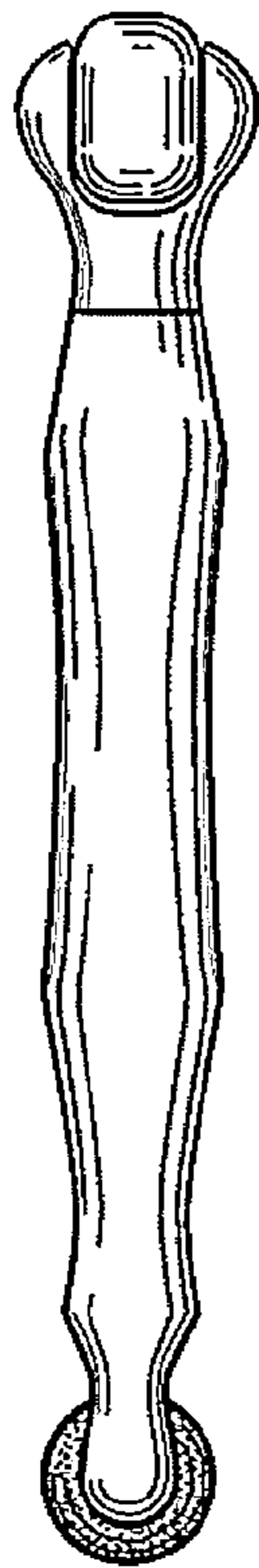


FIG. 27

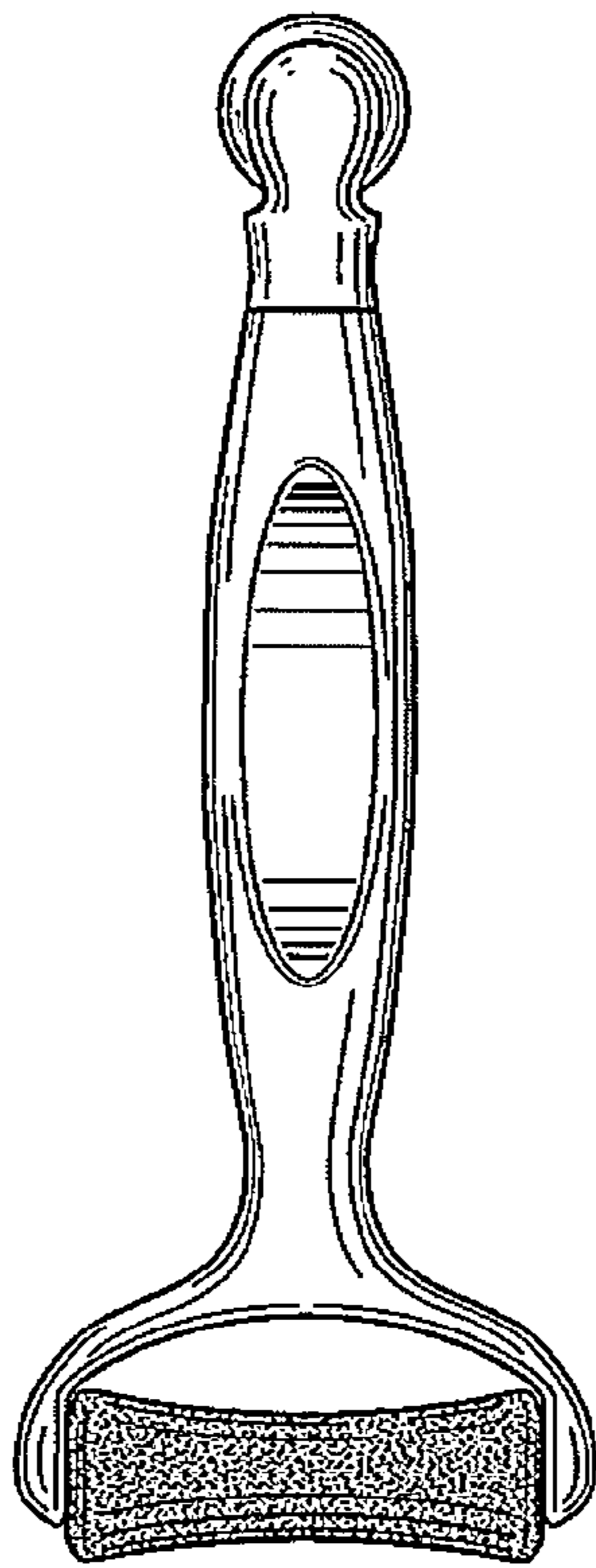


FIG. 28

