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

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(54) **CONVEX-CONCAVE ROLLER**  
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(\*\*) 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,  
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601/DIG. 17; D14/137, 147

See application file for complete search history.

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(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 flocked 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;

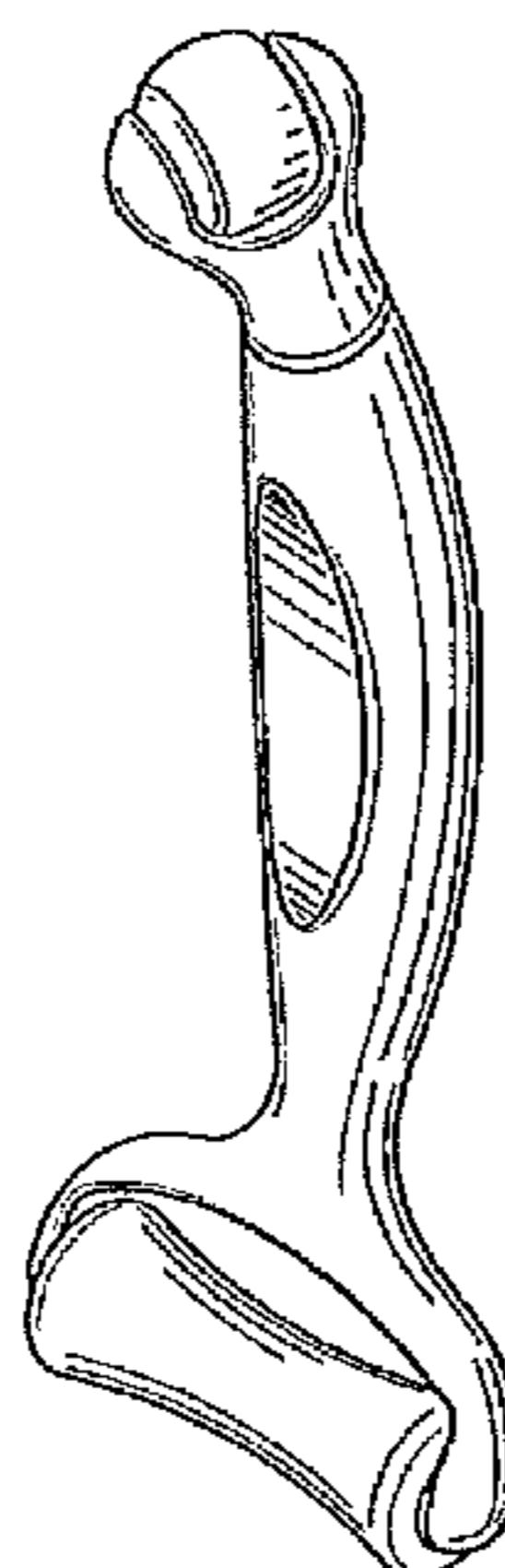


FIG. 12 is a side elevational view of the convex-concave roller shown in FIG. 8;

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;

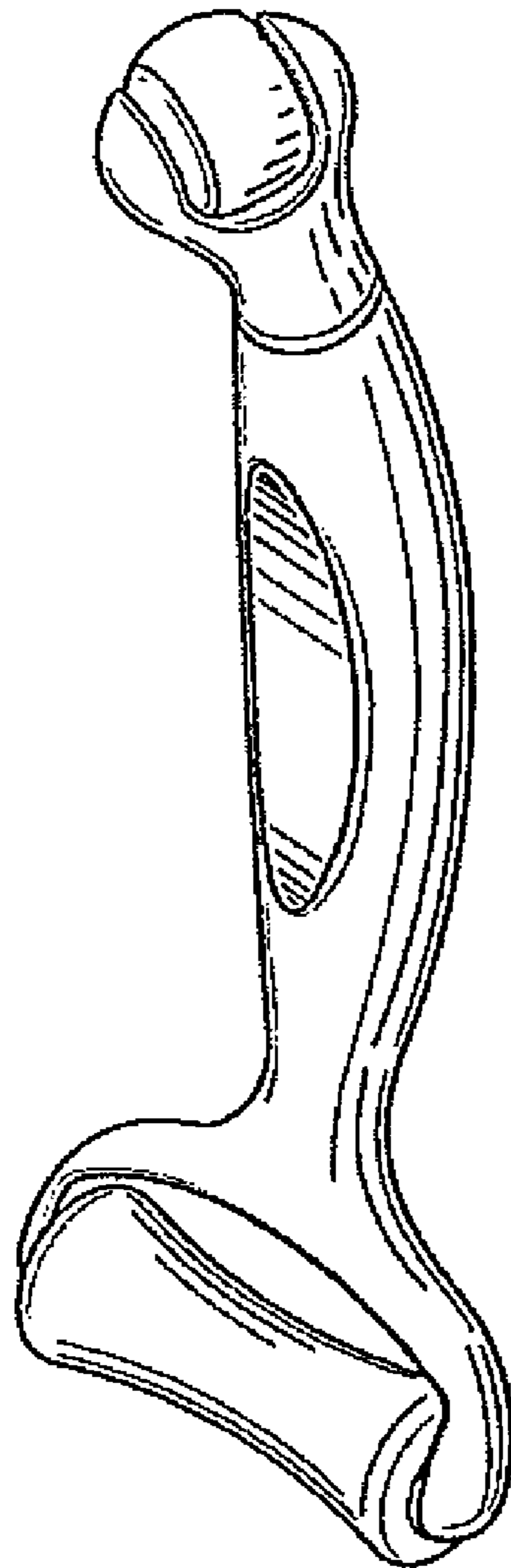
FIG. 26 is a side elevational view of the convex-concave roller shown in FIG. 22;

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

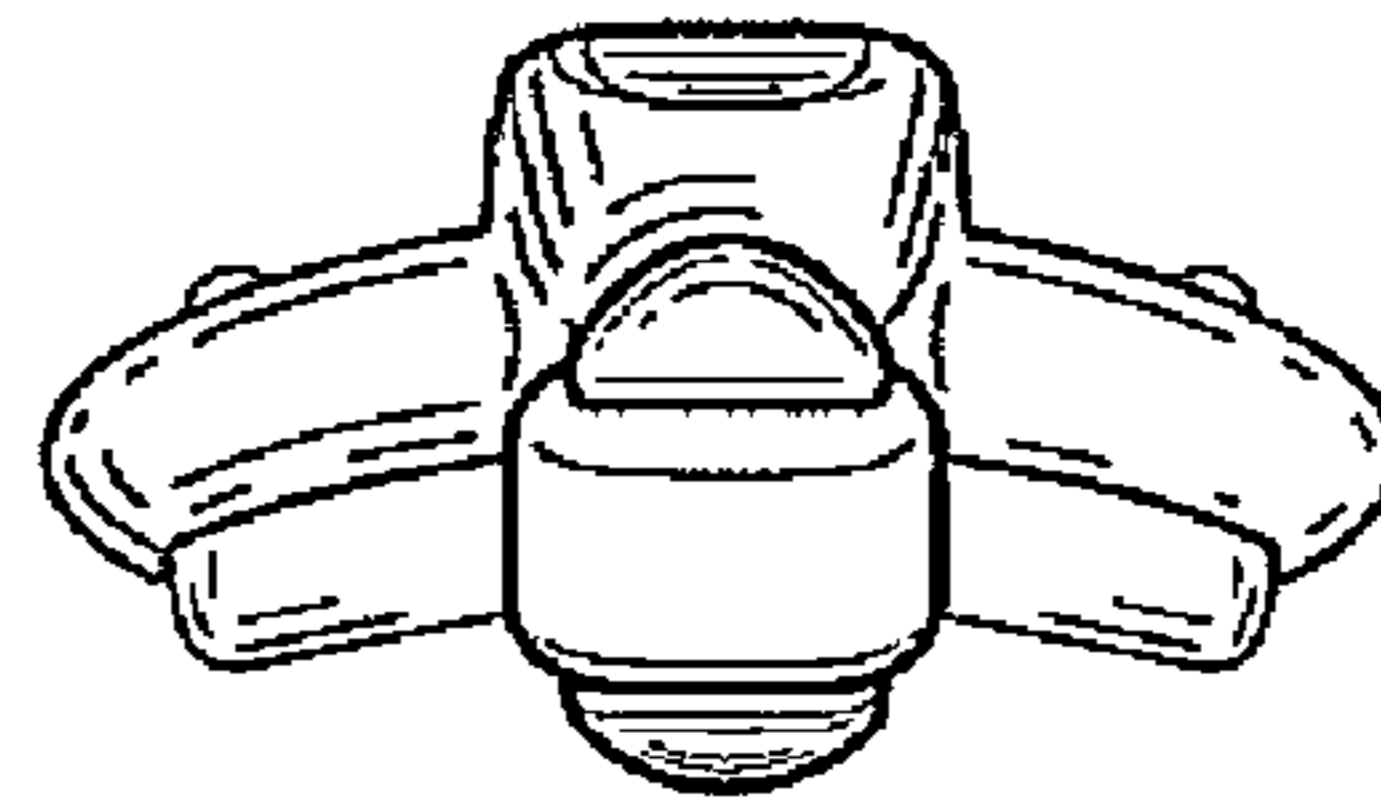
FIG. 28 is an opposite side elevational view of the convex-concave roller shown in FIG. 22.

**1 Claim, 12 Drawing Sheets**

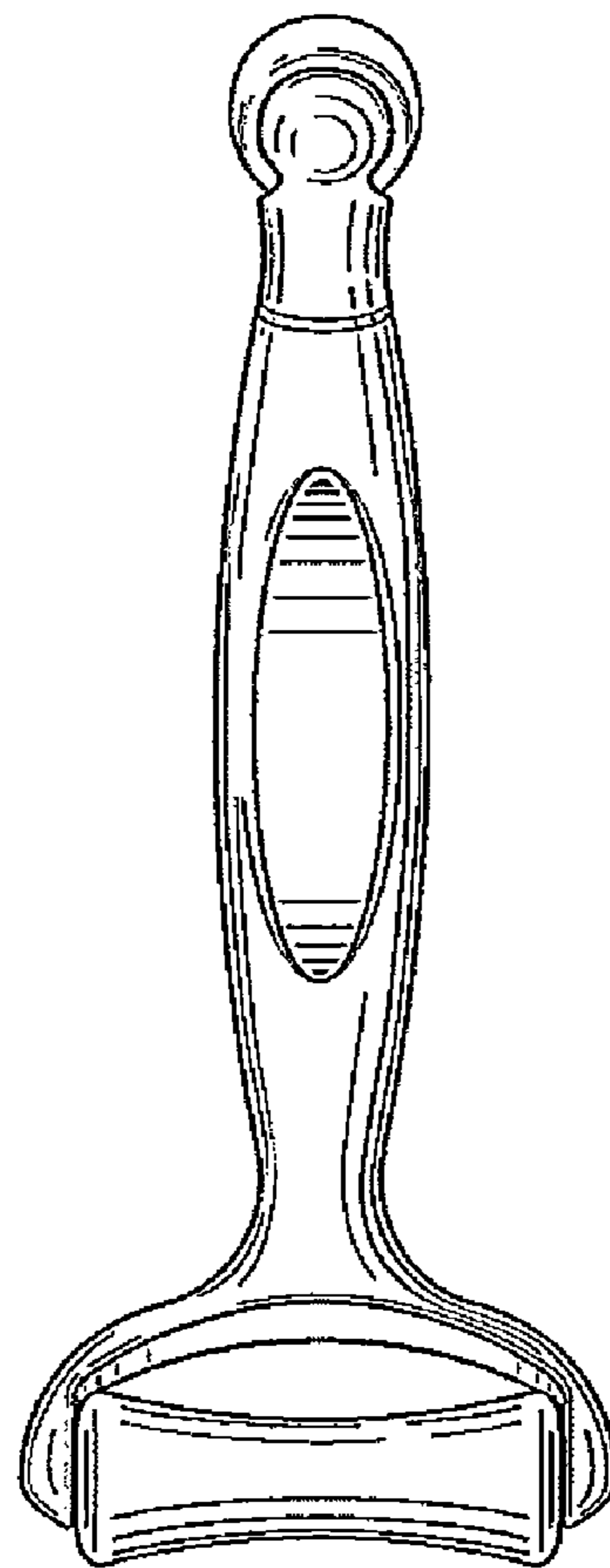
**FIG. 1**



**FIG. 2**



**FIG. 3**



**FIG. 4**

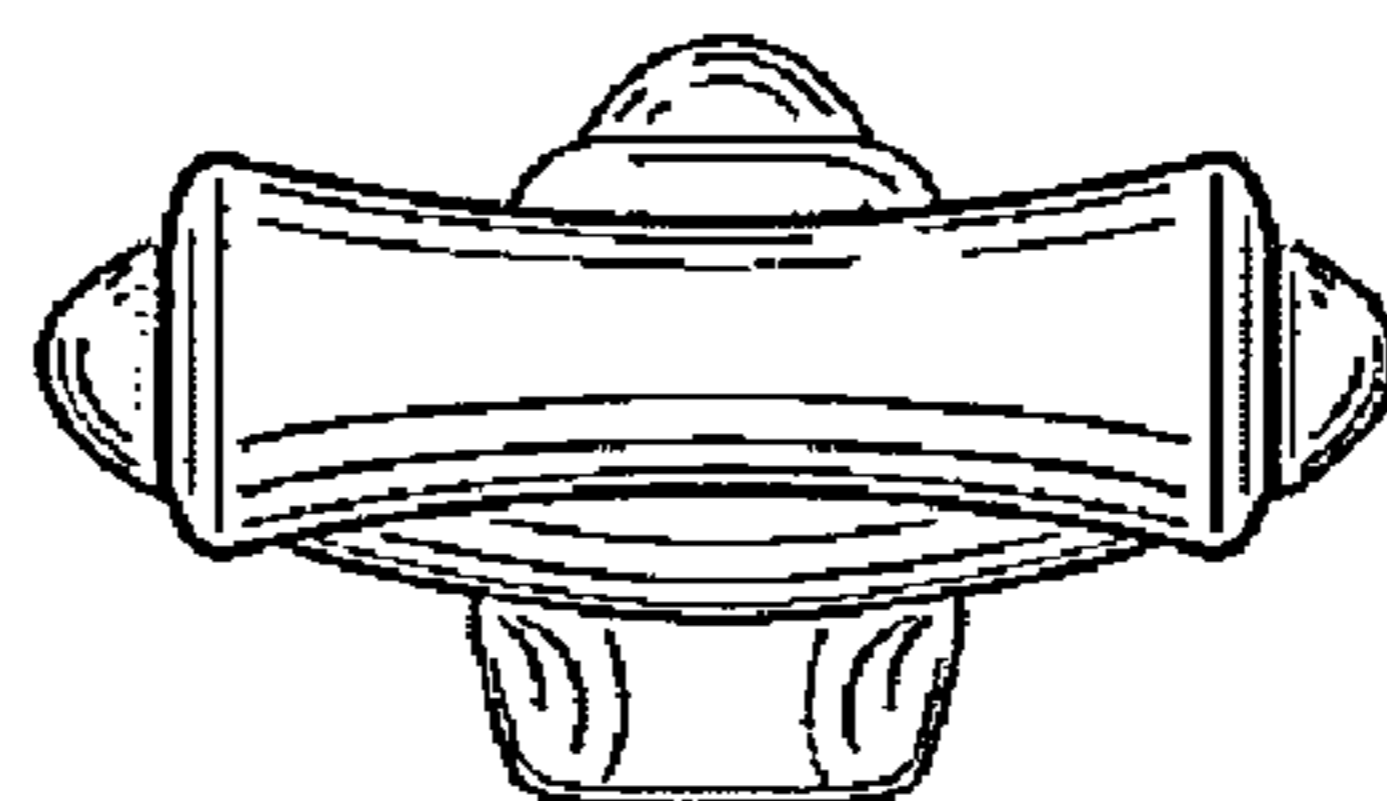


FIG. 5



FIG. 6

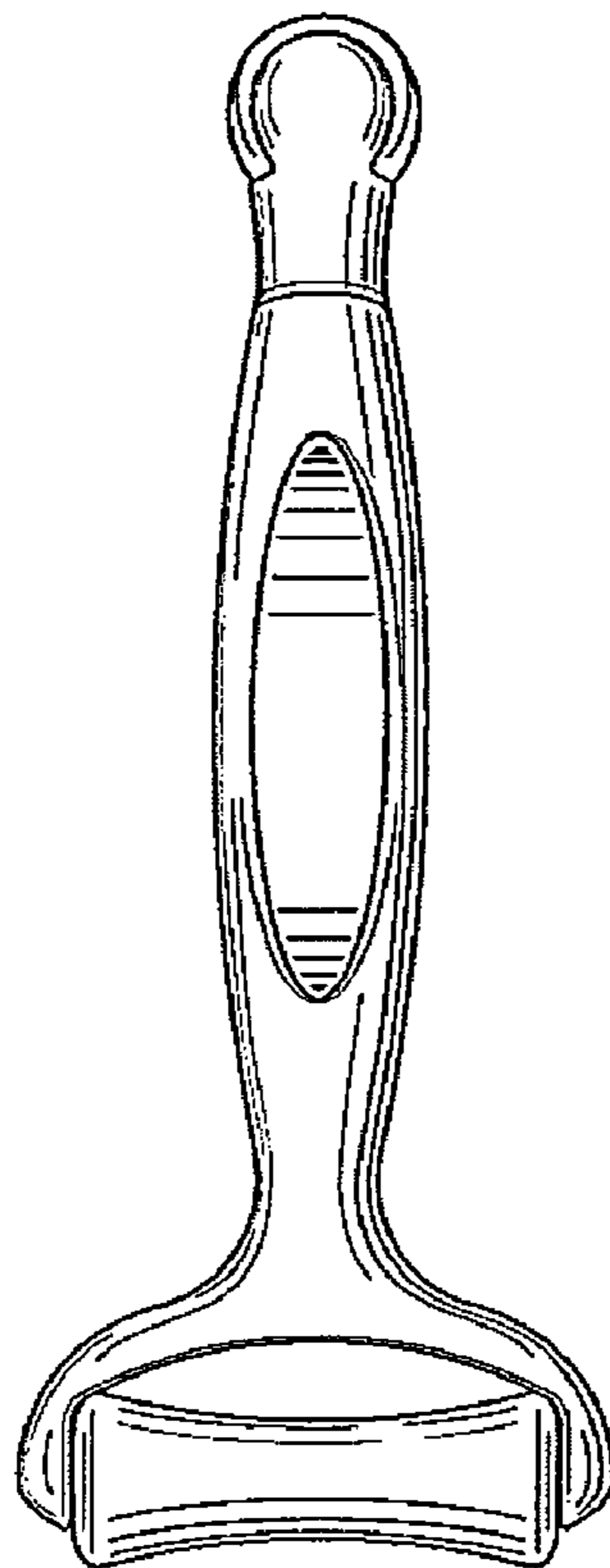
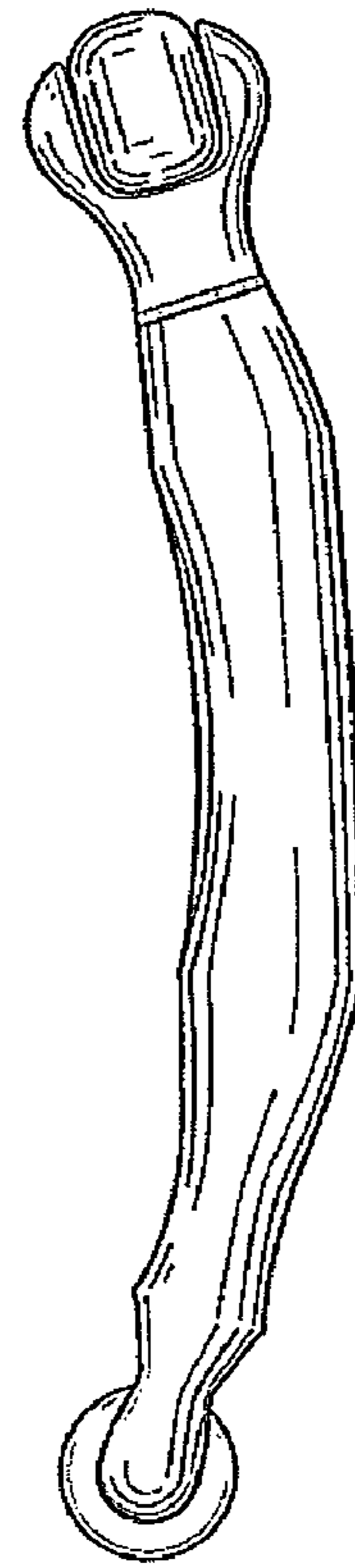
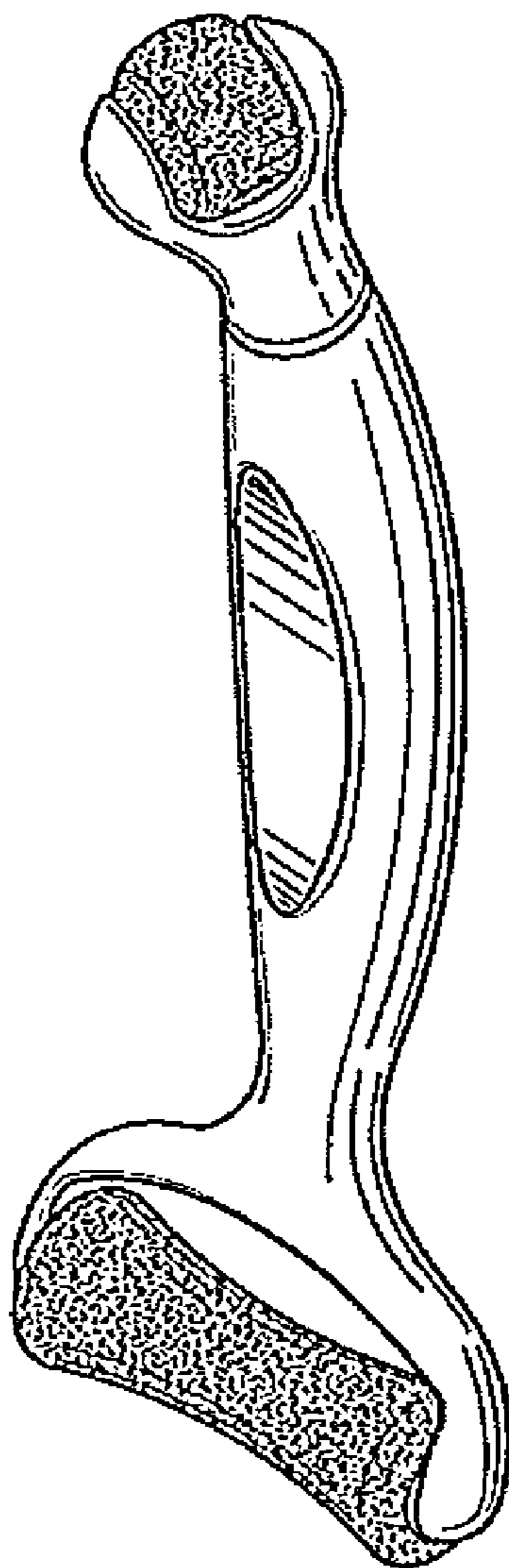


FIG. 7

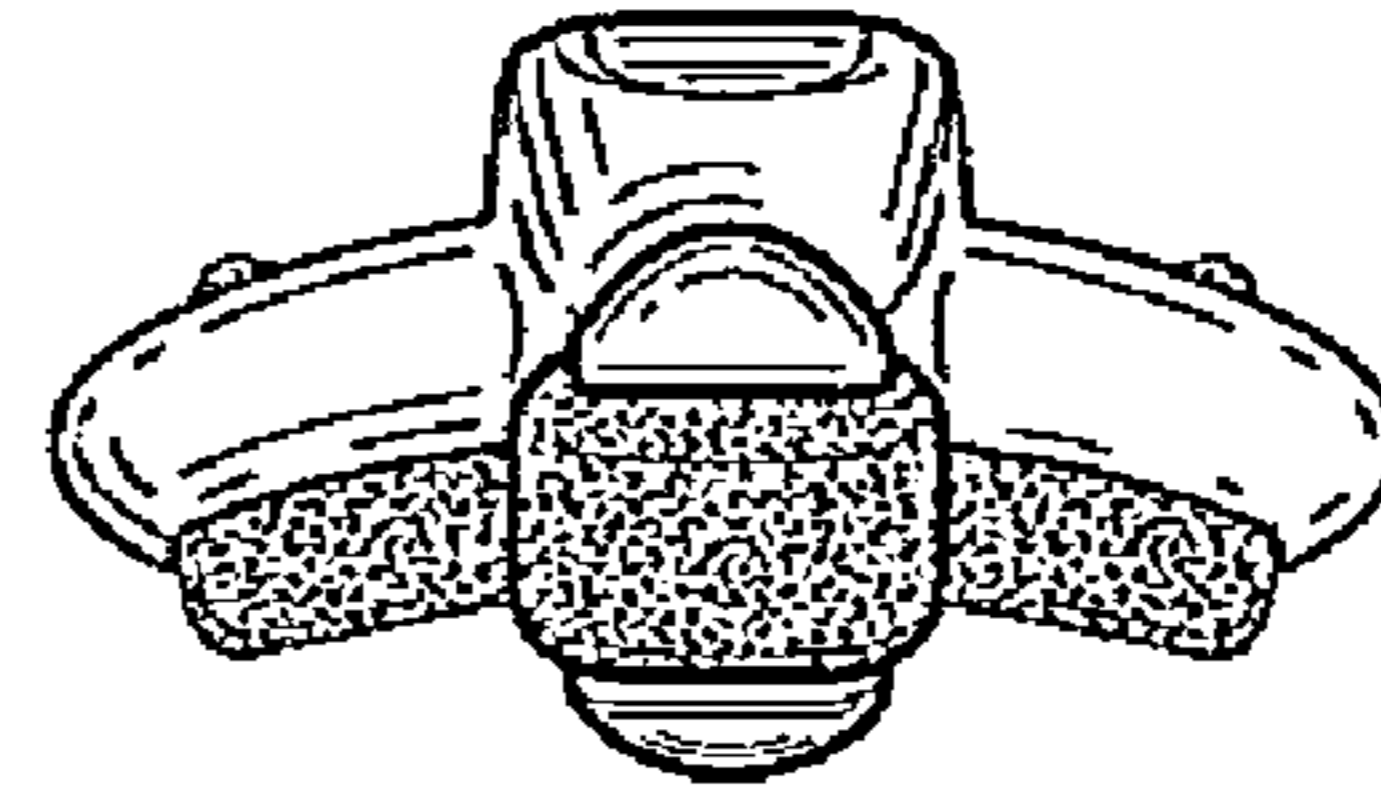




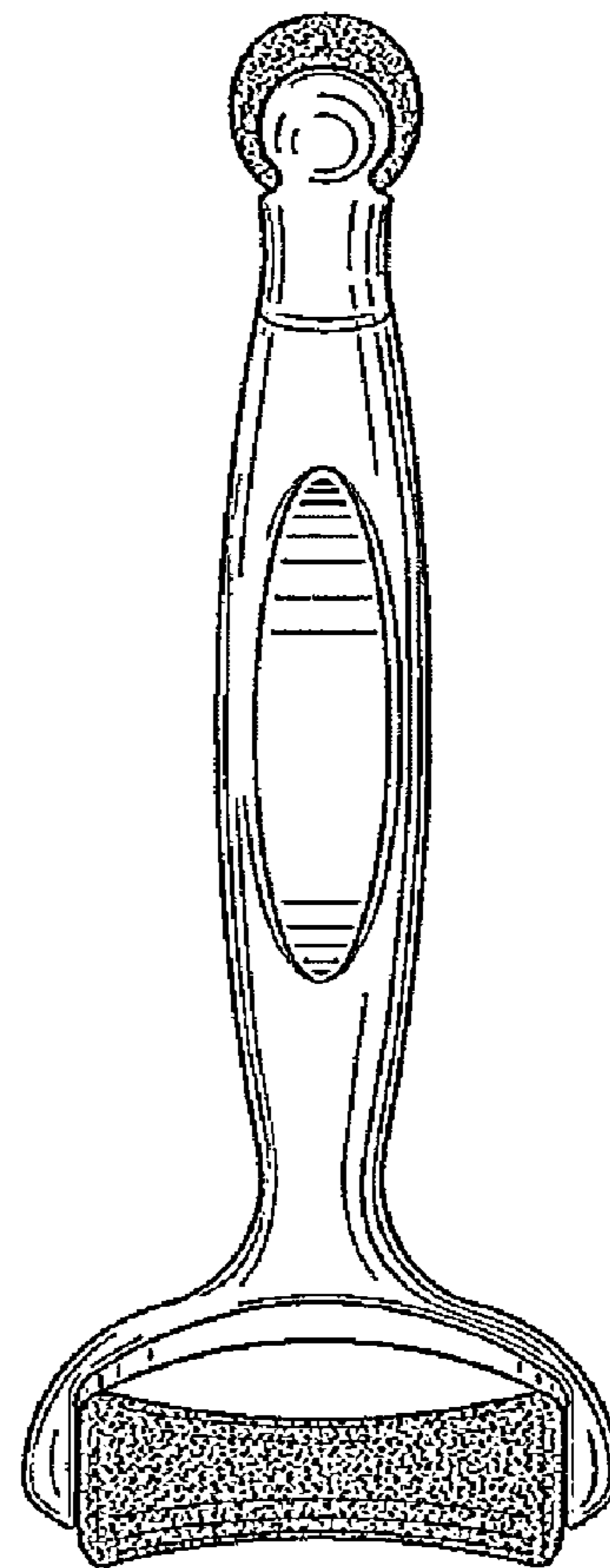
**FIG. 8**



**FIG. 9**



**FIG. 10**



**FIG. 11**

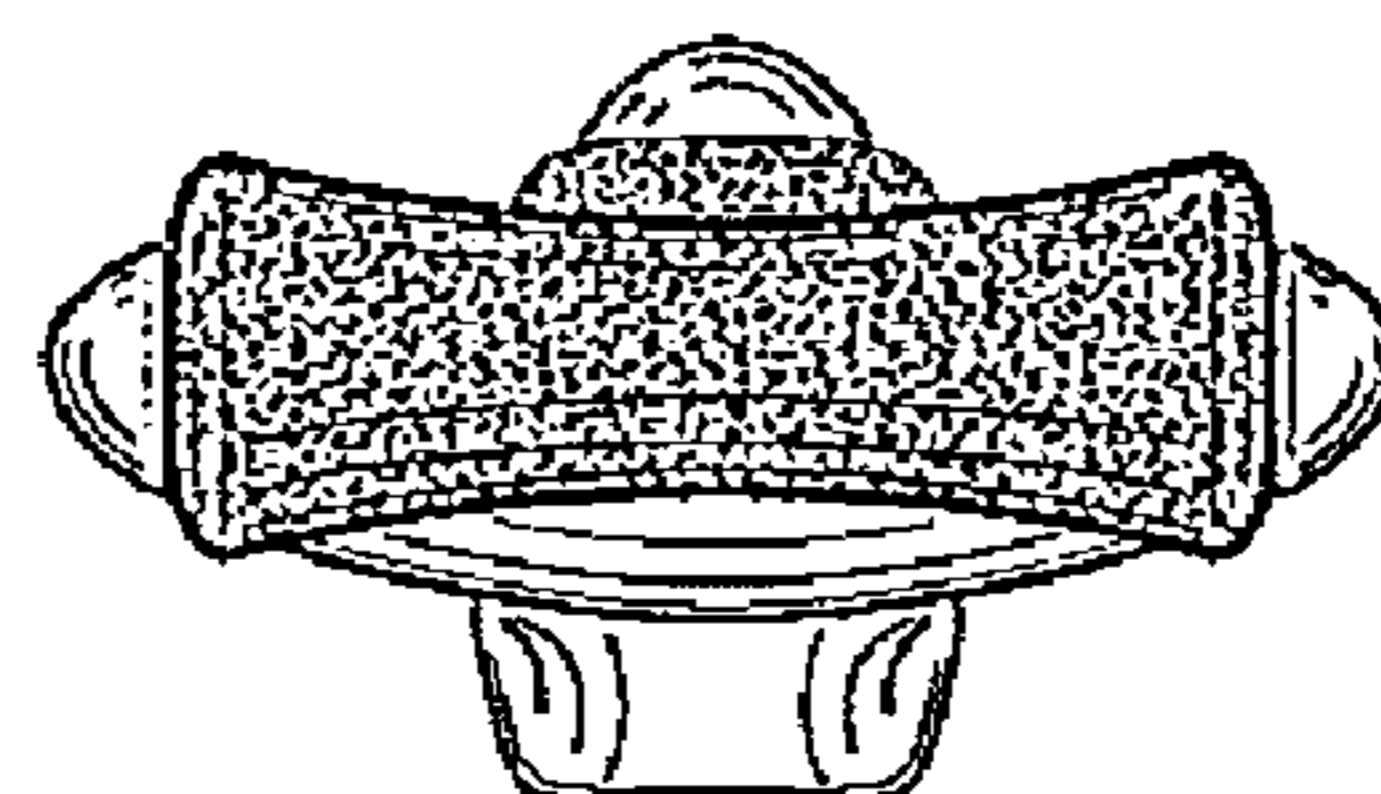


FIG. 12



FIG. 13

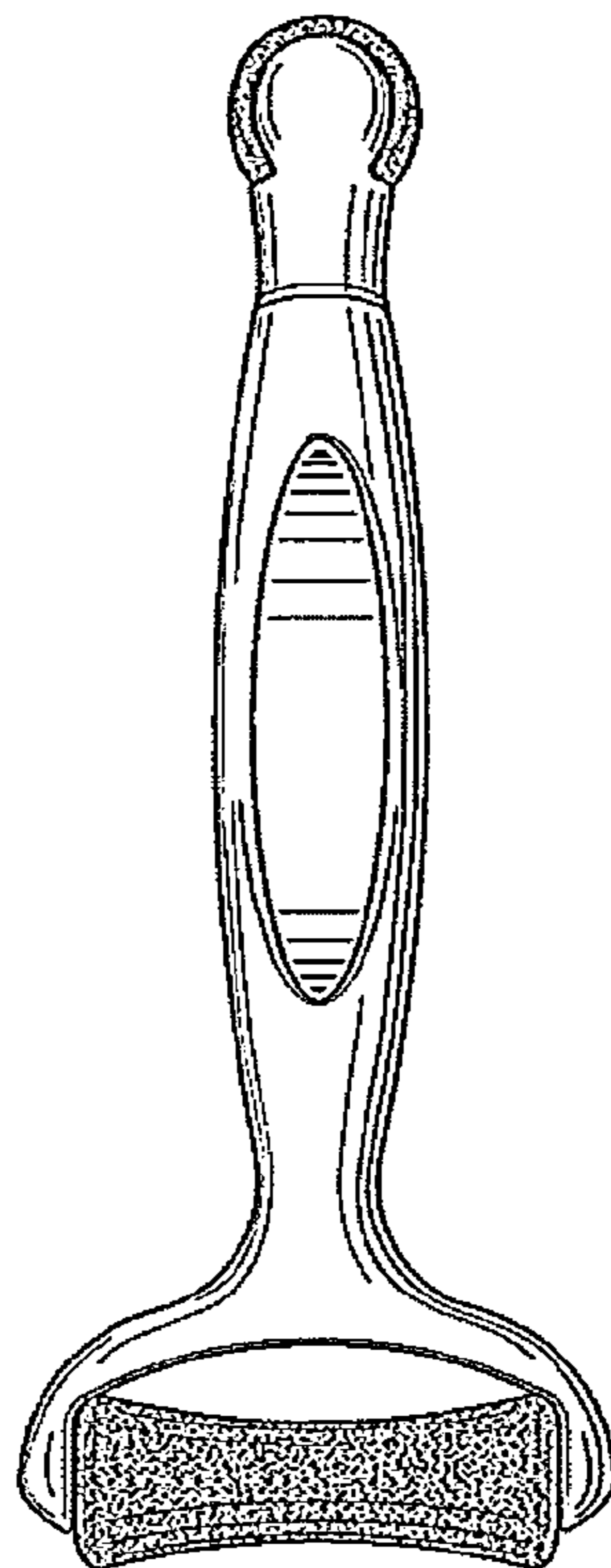
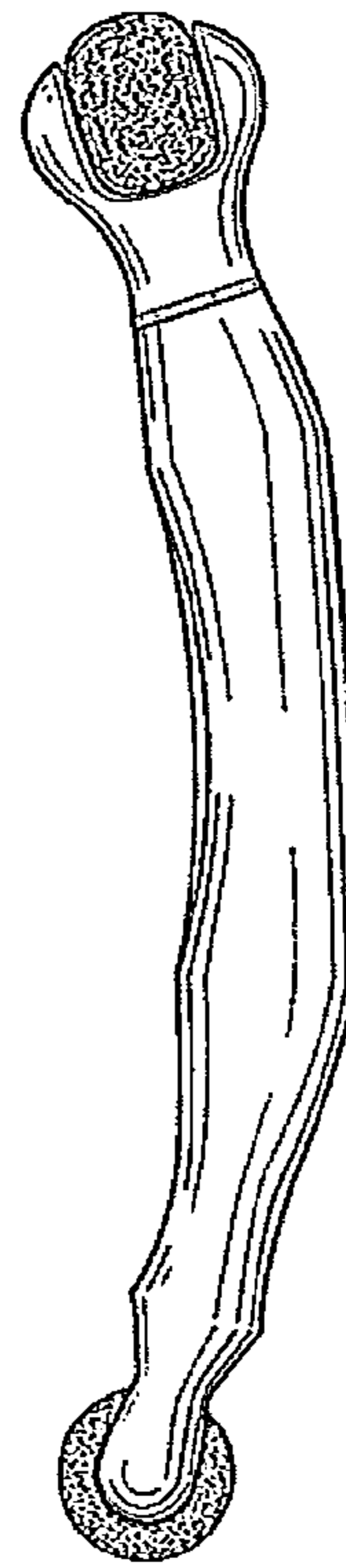


FIG. 14





**FIG. 15**

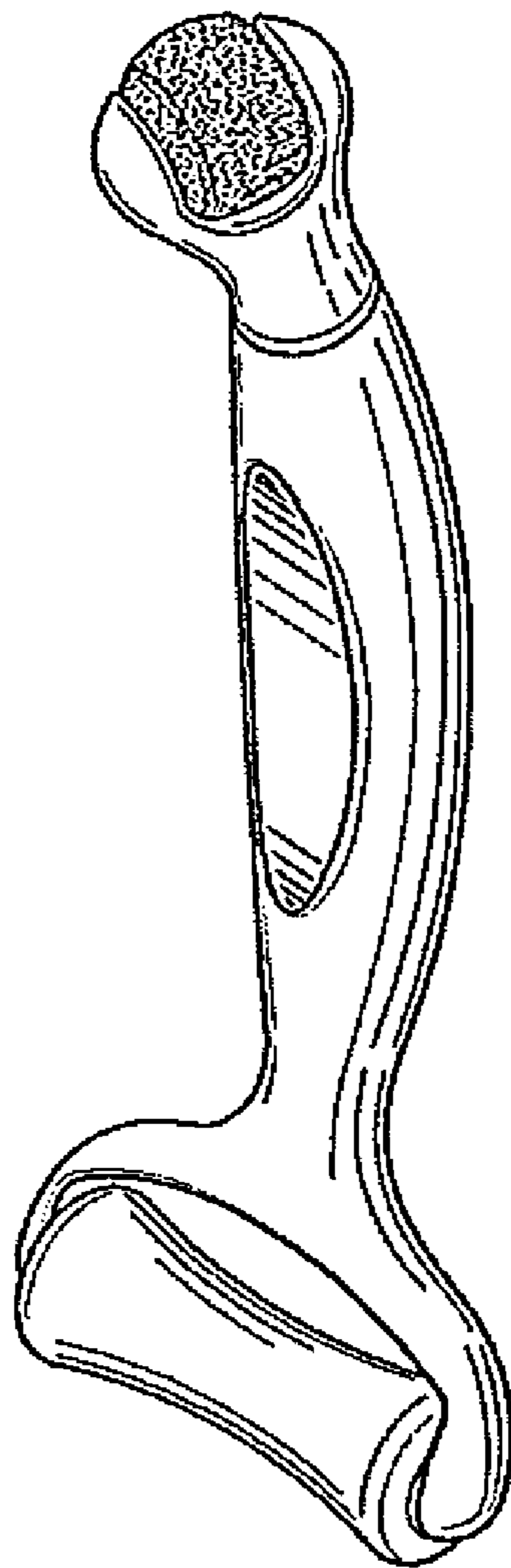


FIG. 16

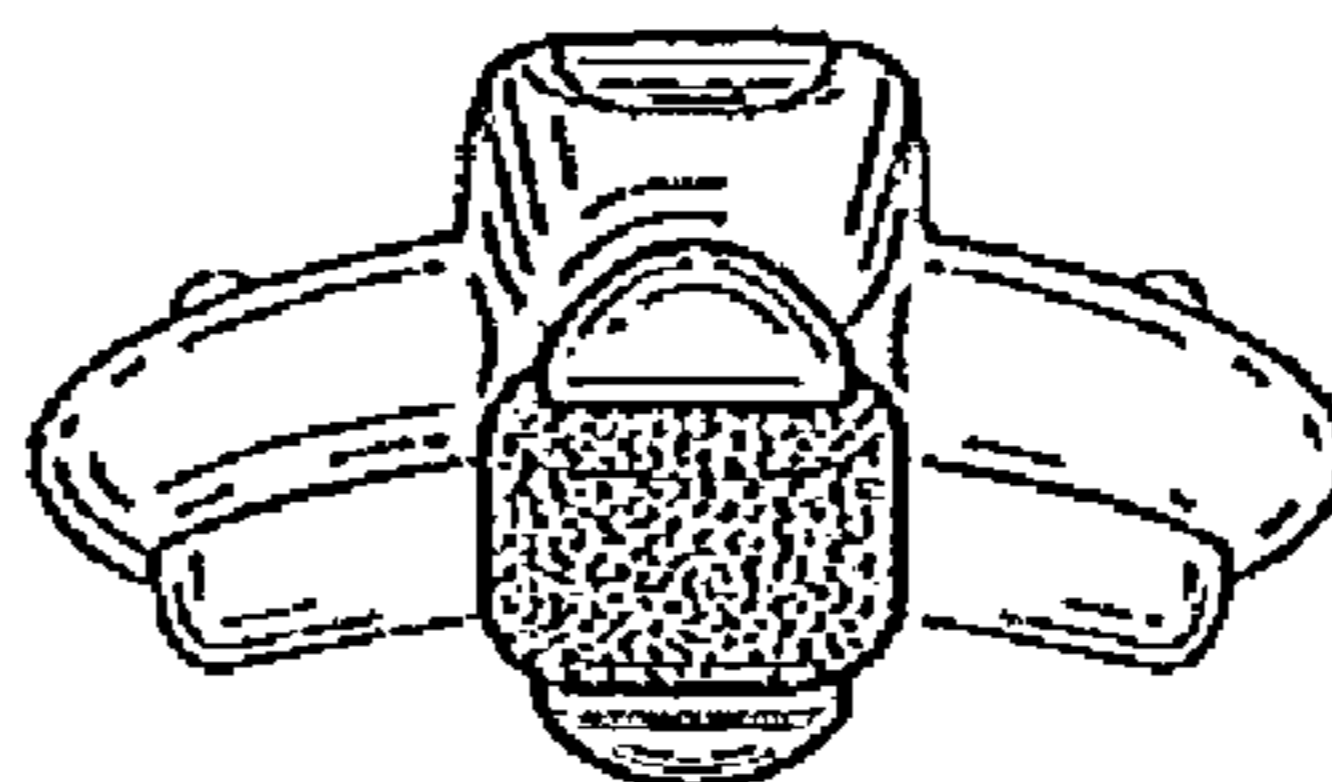


FIG. 17

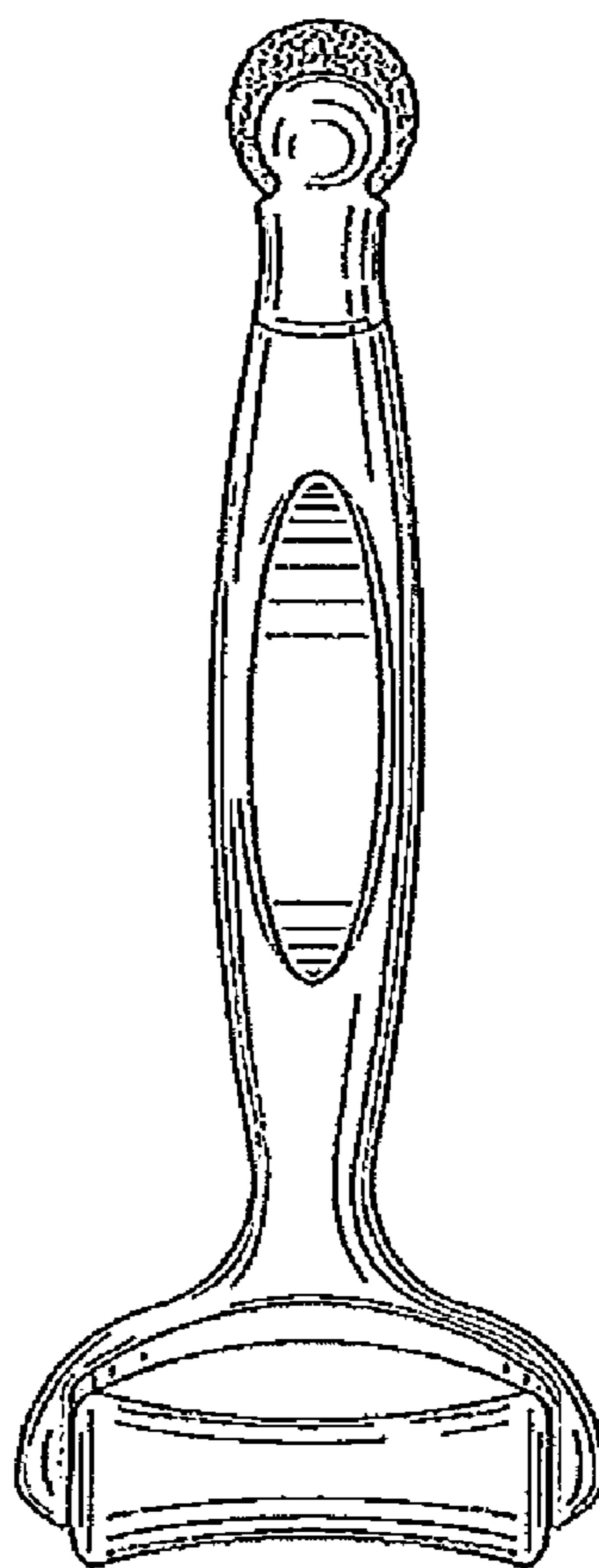


FIG. 18

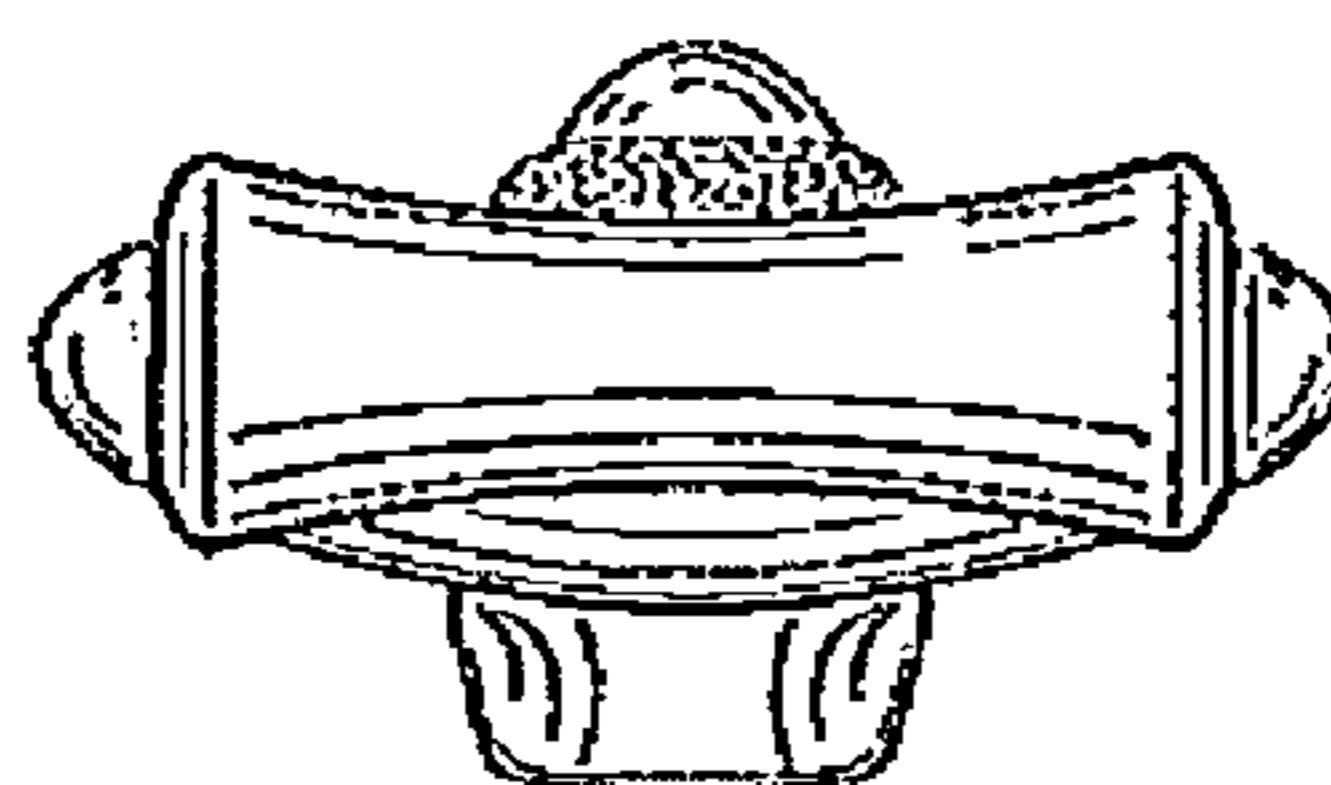


FIG. 19



FIG. 20

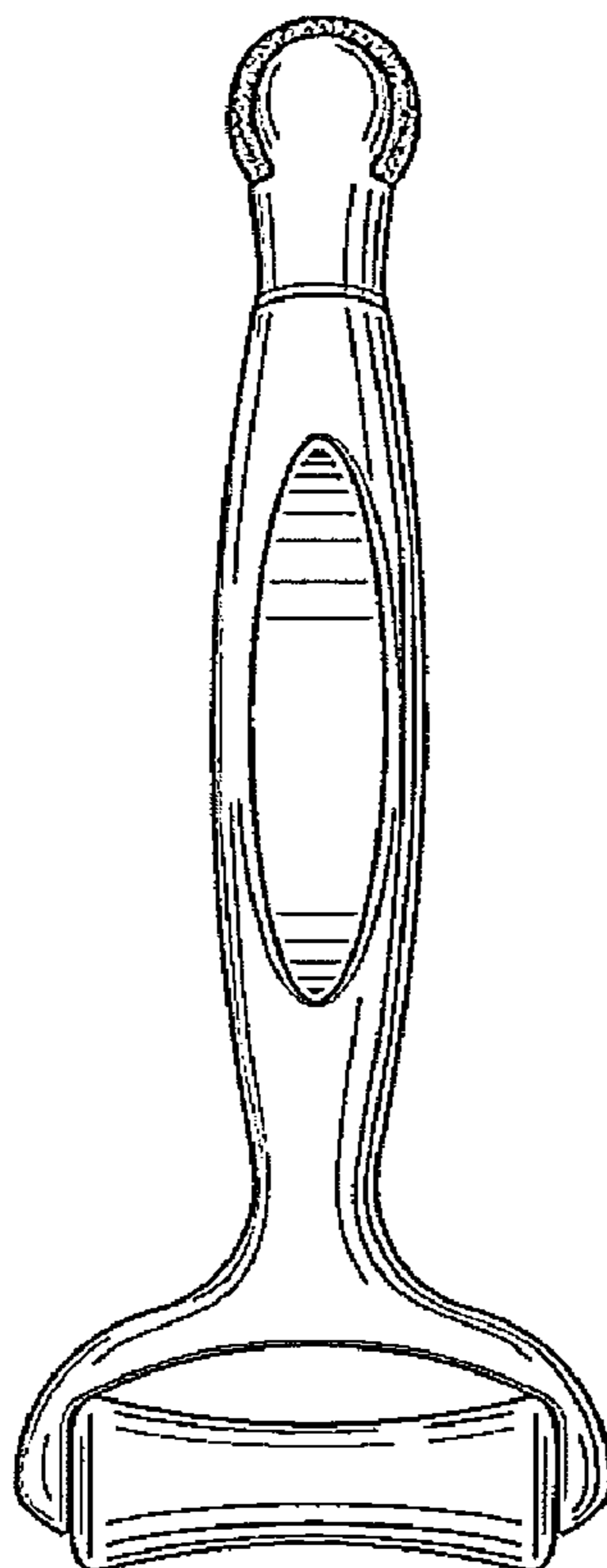
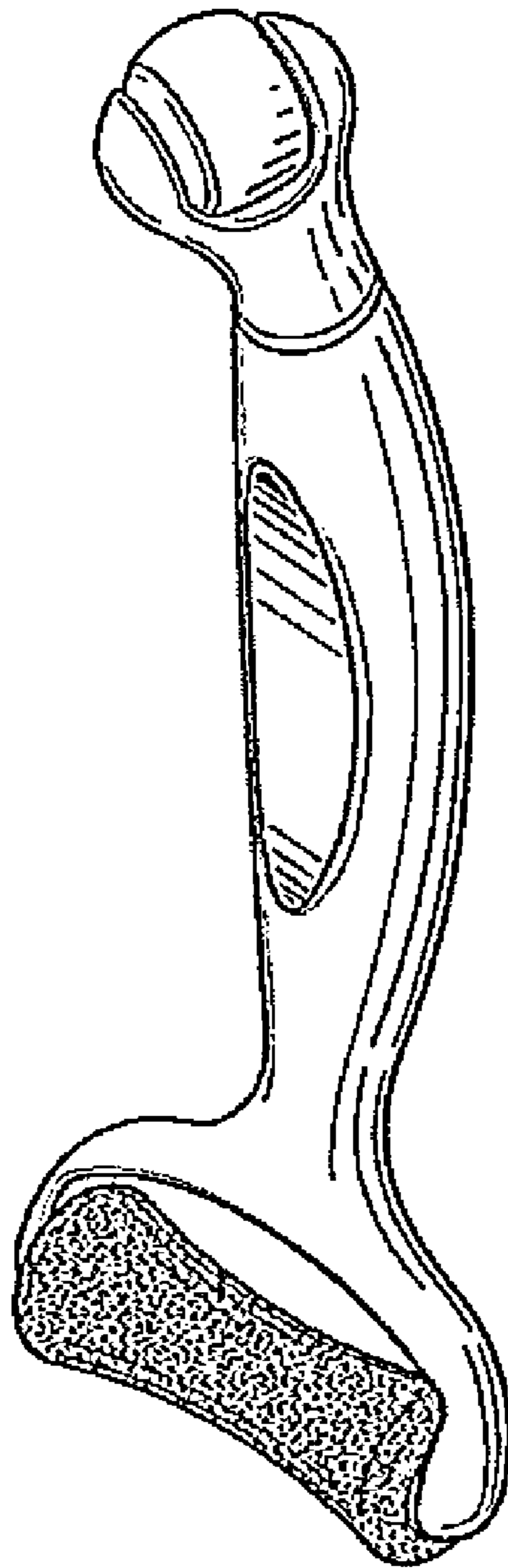


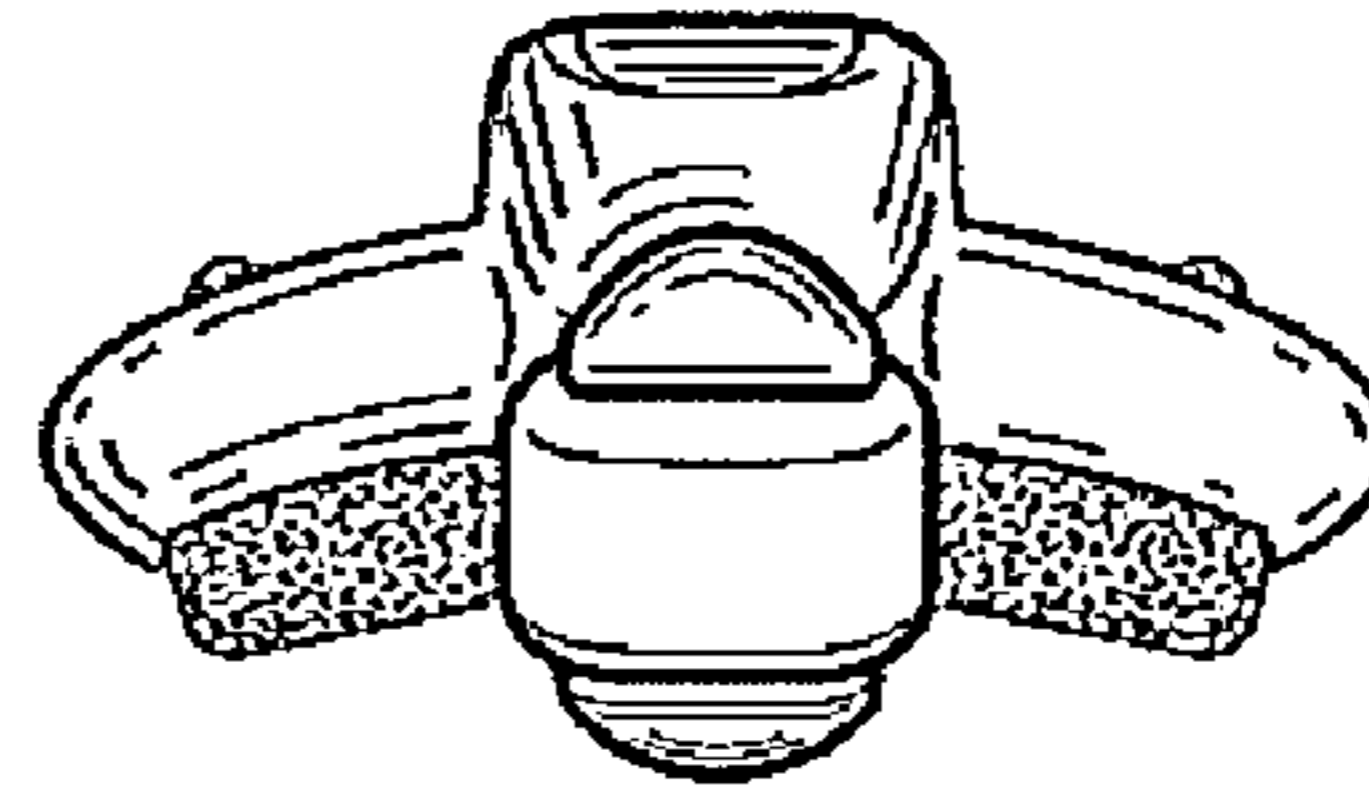
FIG. 21



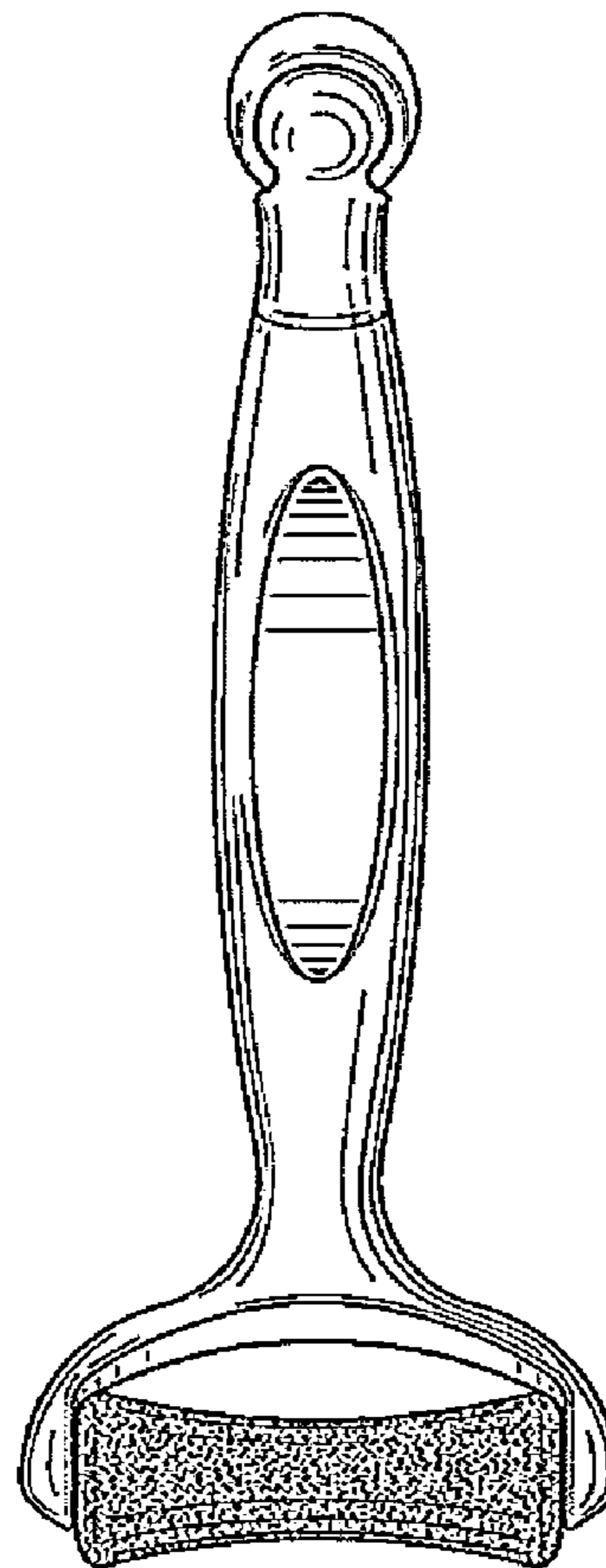
**FIG. 22**



**FIG. 23**



**FIG. 24**



**FIG. 25**

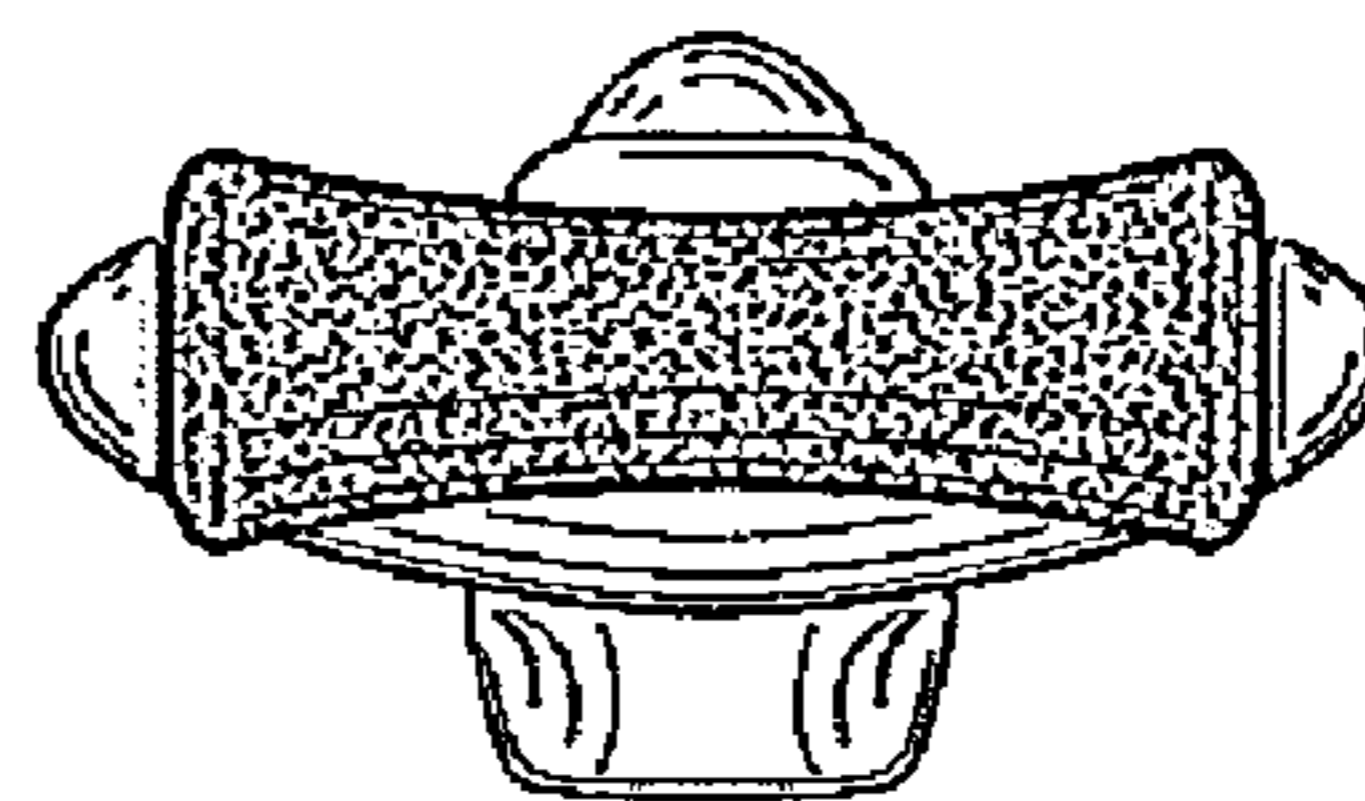




FIG. 26

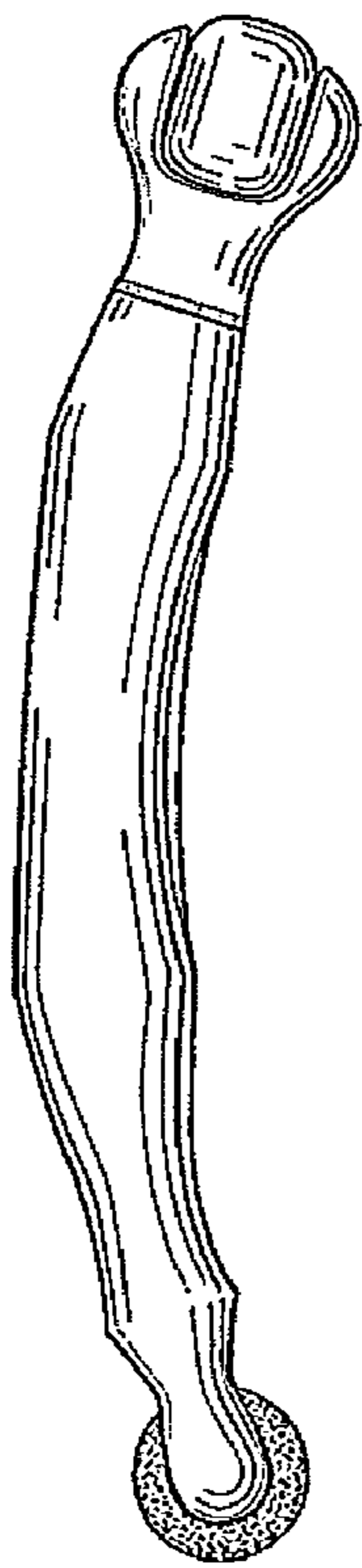


FIG. 27

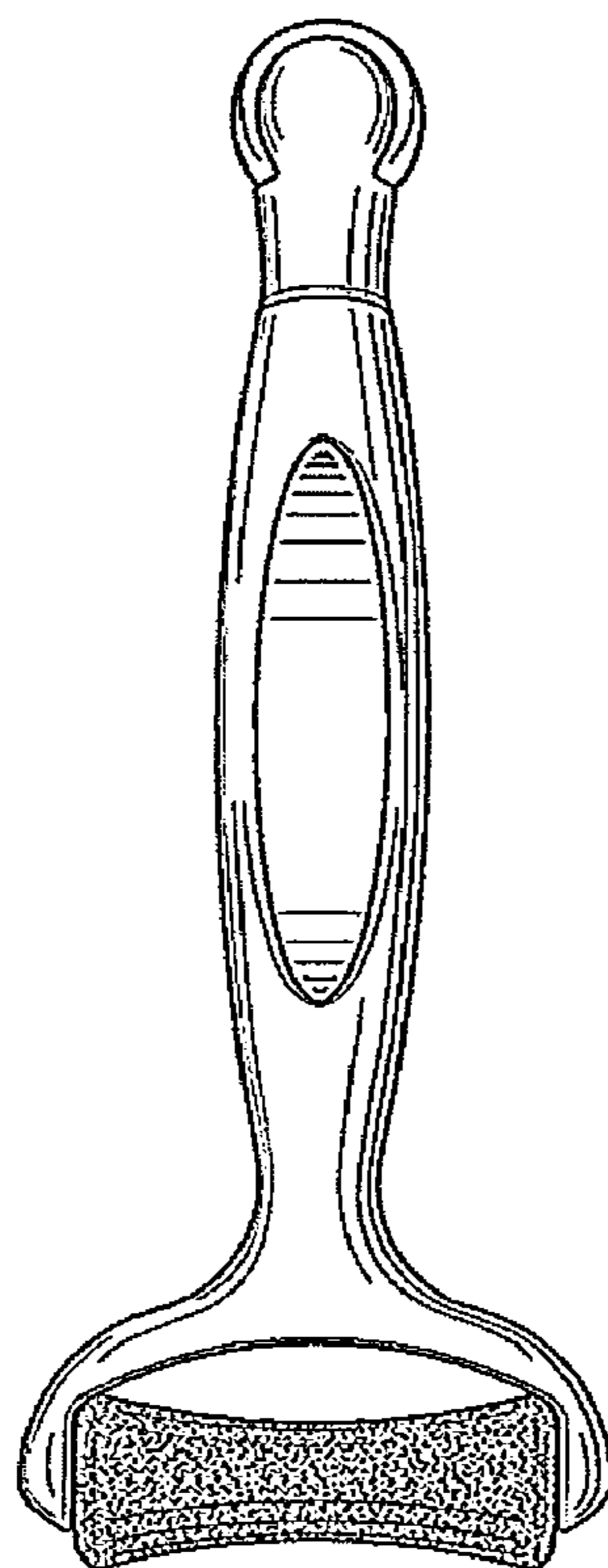


FIG. 28

