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DENTAL IMPLANT FIXTURE

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14 Years Term:

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(51)

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(58)433/180–181

(56)**References Cited**

U.S. PATENT DOCUMENTS

5,759,034			Daftary 433/173
5,766,010	A	6/1998	Uemura 433/175
5,785,525	A	7/1998	Weissman 433/174
5,795,160	A	8/1998	Hahn et al 433/174
5,967,781	A	10/1999	Gittleman
5,989,030	A	11/1999	Suga 433/176
6,039,568	A	3/2000	Hinds 433/175
6,142,782	A	11/2000	Lazarof 433/174
6,164,969	A	12/2000	Dinkelacker 433/173
6,174,167	B 1	1/2001	Wohrle 433/173
6,217,333	B 1	4/2001	Ercoli 433/173
D446,859	S	* 8/2001	Hurson D24/156
6,283,754	B 1	9/2001	Wohrle 433/173
6,315,563	B 1	11/2001	Sager 433/173
6,402,515	B 1	6/2002	Palti et al 433/174
6,413,089	B 1	7/2002	Ashman et al 433/174
6,431,867	B 1	8/2002	Gittelson et al 433/173
6,527,554	B2	3/2003	Hurson et al 433/173
6,537,069	B 1	3/2003	Simmons, Jr 433/173

OTHER PUBLICATIONS

"Aesthetic Soft Tissue Integration and Optimized Emergence Profile: Provisionalization and Customized Impression Coping" Practical Periodontics & Aesthetic Dentistry 1999; 11(3); 305–314.

"Anterior Implant-Supported Reconstructions: A Surgical Challenge" Practical Periodontics & Aesthetic Dentistry 1999; 11(5) 551–558.

"The Effects of Inter-Implant Distance on the Height of Inter-Implant Bone Crest" J Periodontal 2000; 71:546–549. "Recession of the soft tissue margin at oral implants" Bengazi, et al. 1996, Clinical Oral Implants Research, 7:30:303–310.

"Comparison of healed tissues adjacent to submerged and non-submerged unloaded titanium dental implants" Buser, et al., 1996, Clinical Oral Implants Research, 7:11–19.

Biologic Width Around Titanium Implants. A histometric Analysis of the Implanto-Gingival Junction Around Unloaded and Loaded Nonsubmerged Implants in the Canine Mandible, Cochran et al., Journal of Periodontal, vol. 68, No. 2;pp. 186–197.

"Microbial Leakage and Marginal Fit of the Implant-Abutment Interface" Jansen, et al., 1997, The International Journal of Oral & Maxillofacial Implants, 12:527-540.

"The Wide Fixture: A Solution for Special Bone Situations and a Rescue for the Compromised Implant. Part 1" Lauger, et al., 1993, The International Journal of Oral & Maxillofacial Implants, 8:400–408.

Managing the Soft Tissue Margin: The Key to Implant Aesthetics, Practical Periodontics and Aesthetic Dentistry Lazzara, vol. 5, No. 5, Jun./Jul. 1993 (8 pages).

"The Camlog Implants", Altatec Biotechnologies.

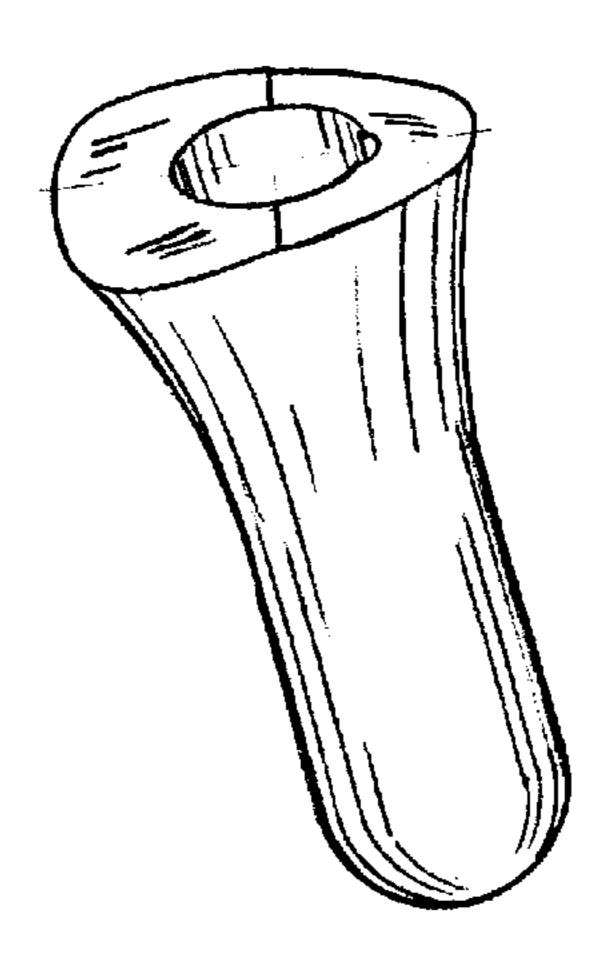
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(57)**CLAIM**

The ornamental design for a dental implant fixture, as shown and described.

DESCRIPTION

The related applications include "Unitary Dental Implant", U.S. Ser. No. 29/177,938; "Dental Implant Fixture", U.S. Ser. No. 29/177,946; "Dental Implant Fixture", U.S. Ser. No. 29/177,944; "Dental Implant Fixture", U.S. Ser. No. 29/177, 939; "Dental Implant Fixture", U.S. Ser. No. 29/177,945;

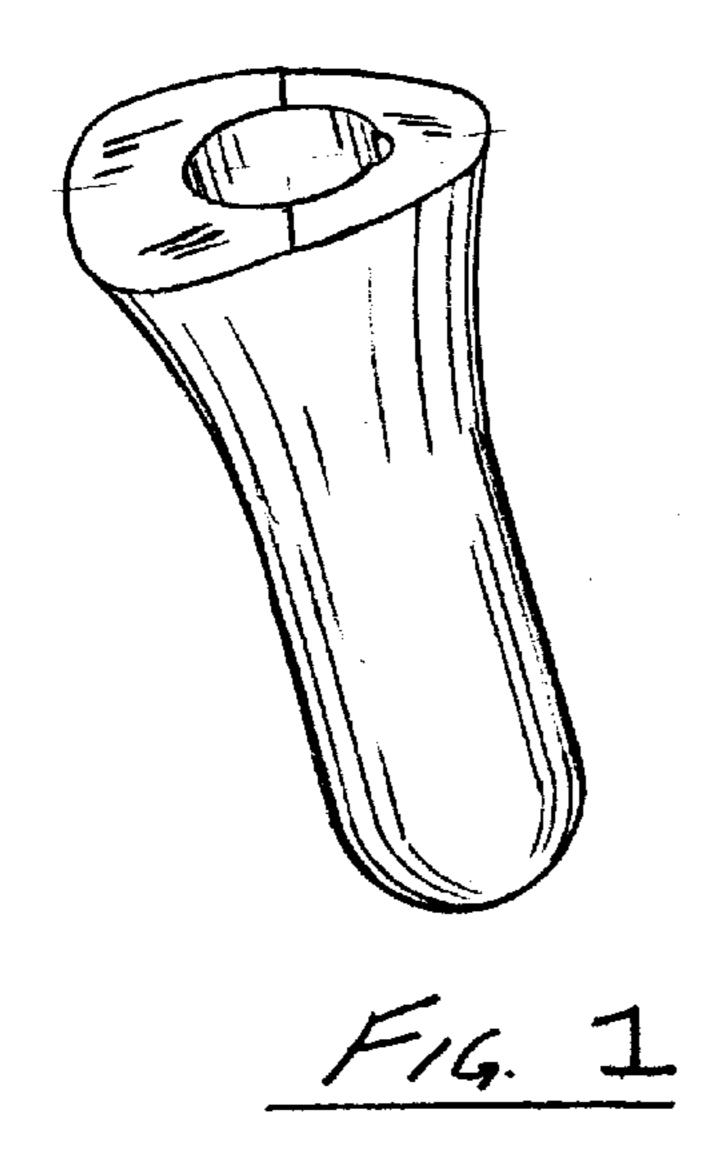


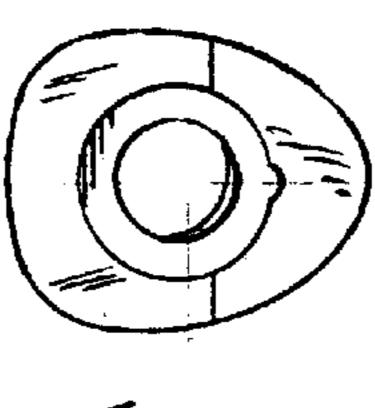
^{*} cited by examiner

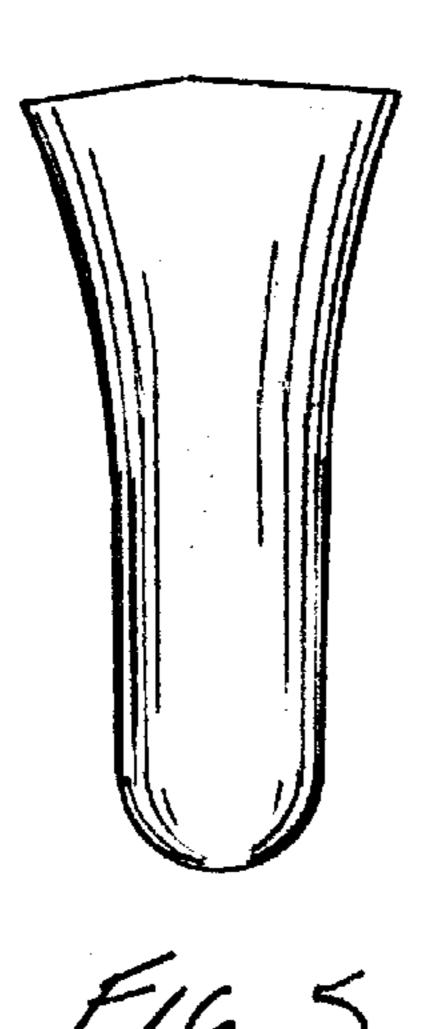
- "Dental Implant Abutment", U.S. Ser. No. 29/177,950;
- "Dental Implant Abutment", U.S. Ser. No. 29/177,925;
- "Dental Implant Abutment", U.S. Ser. No. 29/177,949;
- "Dental Implant Abutment", U.S. Ser. No. 29/177,926;
- "Dental Implant Abutment", U.S. Ser. No. 29/177,948;
- "Dental Implant Abutment", U.S. Ser. No. 29/178,012, all of which are filed contemporaneously herewith.
- FIG. 1 is a top perspective view of a first embodiment of the dental implant fixture according to the present invention;
- FIG. 2 is a top view of the first embodiment of the dental implant fixture;
- FIG. 3 is a left side view of the first embodiment of the dental implant fixture;
- FIG. 4 is a front view of the first embodiment of the dental implant fixture;
- FIG. 5 is a right side view of the first embodiment of the dental implant fixture;
- FIG. 6 is a rear view of the first embodiment of the dental implant fixture;
- FIG. 7 is a bottom view of the first embodiment of the dental implant fixture;
- FIG. 8 is a top perspective view of a second embodiment of the dental implant fixture;
- FIG. 9 is a top view of the second embodiment of the dental implant fixture;
- FIG. 10 is a left side view of the second embodiment of the dental implant fixture;
- FIG. 11 is a front view of the second embodiment of the dental implant fixture;
- FIG. 12 is a right side view of the second embodiment of the dental implant fixture;
- FIG. 13 is a rear view of the second embodiment of the dental implant fixture;
- FIG. 14 is a bottom view of the second embodiment of the dental implant fixture;
- FIG. 15 is a top perspective view of a third embodiment of the dental implant fixture;
- FIG. 16 is a top view of the third embodiment of the dental implant fixture;
- FIG. 17 is a left side view of the third embodiment of the dental implant fixture;
- FIG. 18 is a front view of the third embodiment of the dental implant fixture;
- FIG. 19 is a right side view of the third embodiment of the dental implant fixture;
- FIG. 20 is a rear view of the third embodiment of the dental implant fixture;
- FIG. 21 is a bottom view of the third embodiment of the dental implant fixture;
- FIG. 22 is a top perspective view of a fourth embodiment of the dental implant fixture;
- FIG. 23 is a top view of the fourth embodiment of the dental implant fixture;
- FIG. 24 is a left side view of the fourth embodiment of the dental implant fixture;
- FIG. 25 is a front view of the fourth embodiment of the dental implant fixture;
- FIG. 26 is a right side view of the fourth embodiment of the dental implant fixture;
- FIG. 27 is a rear view of the fourth embodiment of the dental implant fixture;
- FIG. 28 is a bottom view of the fourth embodiment of the dental implant fixture;

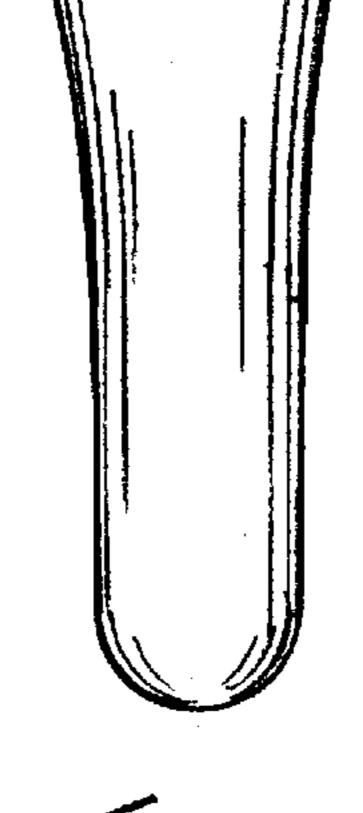
- FIG. 29 is a top perspective view of a fifth embodiment of the dental implant fixture;
- FIG. 30 is a top view of the fifth embodiment of the dental implant fixture;
- FIG. 31 is a left side view of the fifth embodiment of the dental implant fixture;
- FIG. 32 is a front view of the fifth embodiment of the dental implant fixture;
- FIG. 33 is a right side view of the fifth embodiment of the dental implant fixture;
- FIG. 34 is a rear view of the fifth embodiment of the dental implant fixture;
- FIG. 35 is a bottom view of the fifth embodiment of the dental implant fixture;
- FIG. 36 is a top perspective view of a sixth embodiment of the dental implant fixture;
- FIG. 37 is a top view of the sixth embodiment of the dental implant fixture;
- FIG. 38 is a left side view of the sixth embodiment of the dental implant fixture;
- FIG. 39 is a front view of the sixth embodiment of the dental implant fixture;
- FIG. 40 is a right side view of the sixth embodiment of the dental implant fixture;
- FIG. 41 is a rear view of the sixth embodiment of the dental implant fixture; and,
- FIG. 42 is a bottom view of the sixth embodiment of the dental implant fixture.
- FIGS. 1–7 illustrate a first embodiment of a dental implant fixture. The environment is shown in broken lines and forms no part of the design.
- FIGS. 8–14 illustrate a second embodiment of the dental implant fixture. The environment is shown in broken lines and forms no part of the design. Elements of the fixture that form no part of the design of the second embodiment are shown in dashed lines.
- FIGS. 15–21 illustrate a third embodiment of the dental implant fixture. The environment is shown in broken lines and forms no part of the design.
- FIGS. 22–28 illustrate a fourth embodiment of the dental implant fixture. The environment is shown in broken lines and forms no part of the design. Elements of the fixture that form no part of the design of the fourth embodiment are shown in dashed lines.
- FIGS. 29–35 illustrate a fifth embodiment of the dental implant fixture. The environment is shown in broken lines and forms no part of the design.
- FIGS. 36–42 illustrate a sixth embodiment of the dental implant fixture. The environment is shown in broken lines and forms no part of the design. Elements of the fixture that form no part of the design of the sixth embodiment are shown in dashed lines.
- The six embodiments of the dental implant fixture illustrated in FIGS. 1–42 are preferred for use on one side of the mouth. Six further embodiments of the dental implant fixture that are preferred for use on the other side of the mouth are mirror images of the six embodiments illustrated in FIGS.
- 1–42. These six additional embodiments are also intended to fall within the scope of the claim. However, since they are mirror images, they are not separately illustrated.

1 Claim, 6 Drawing Sheets

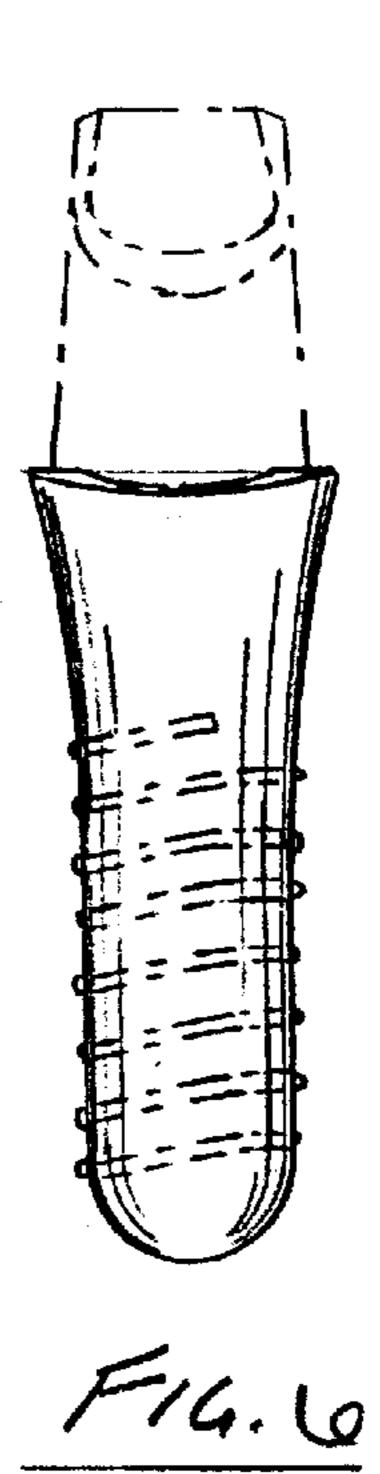








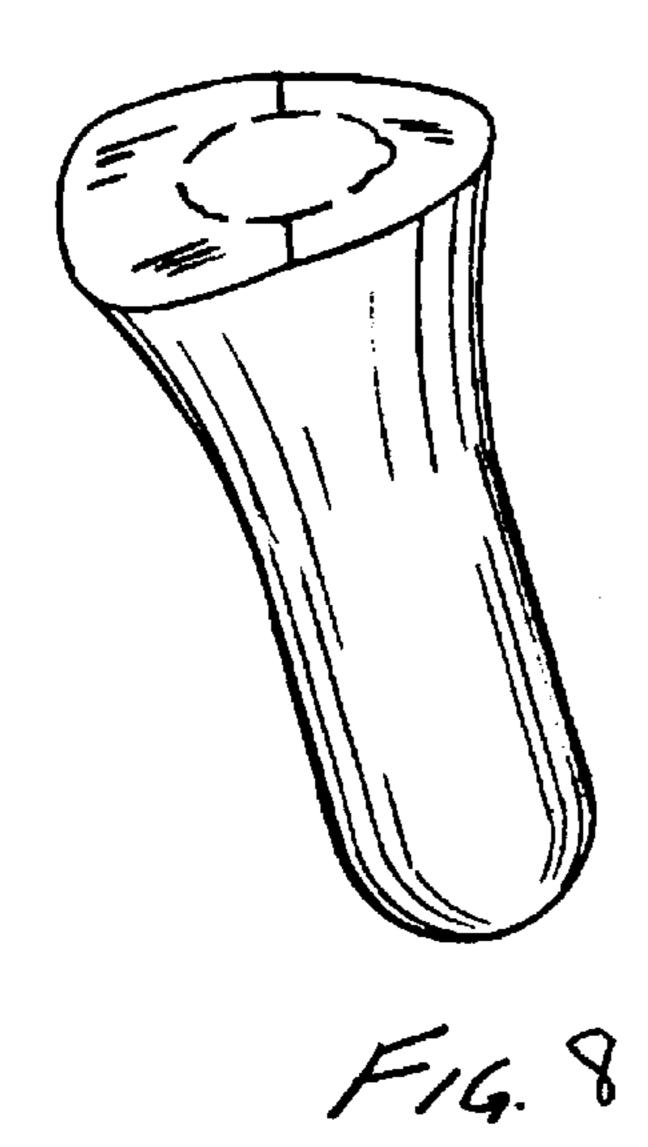


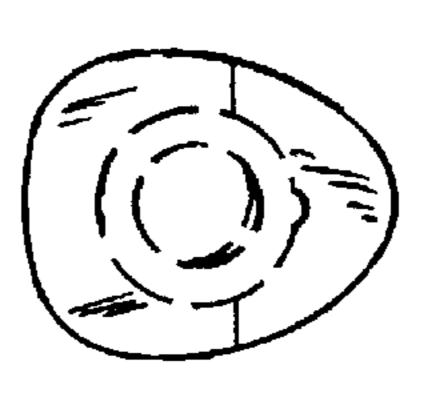


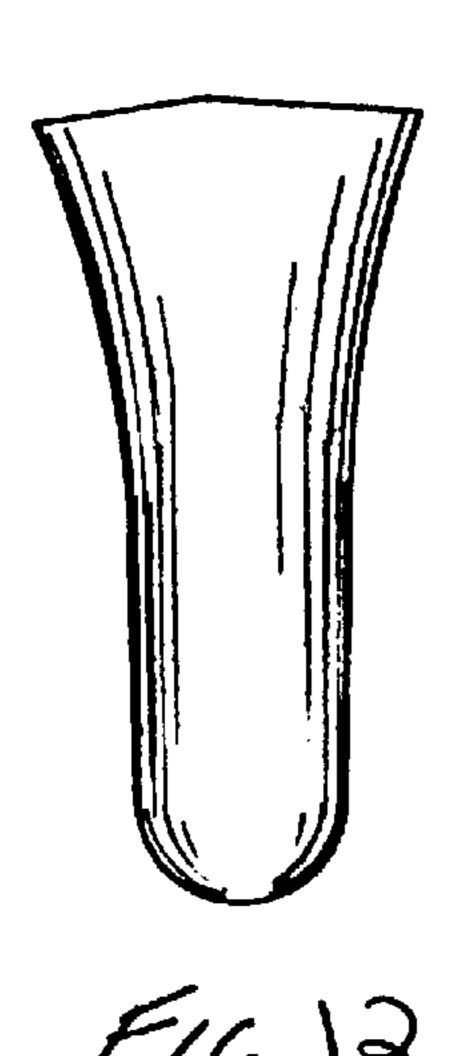
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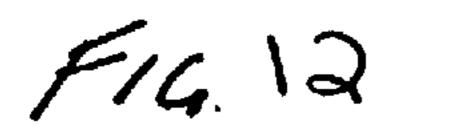
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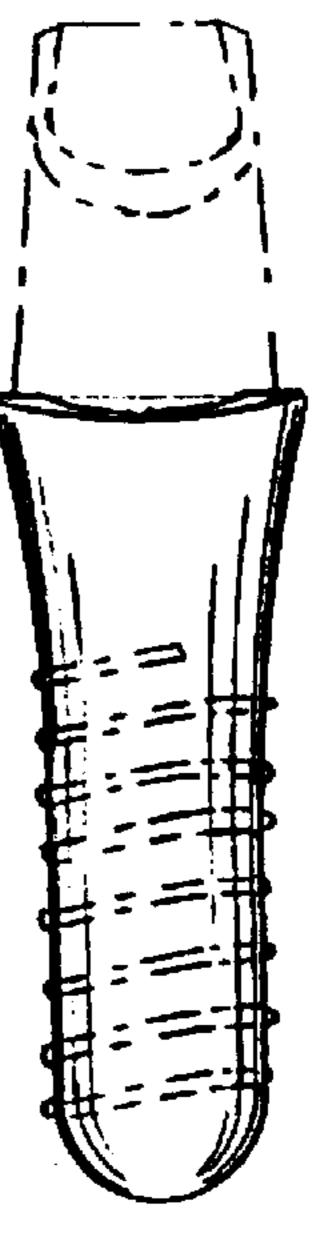




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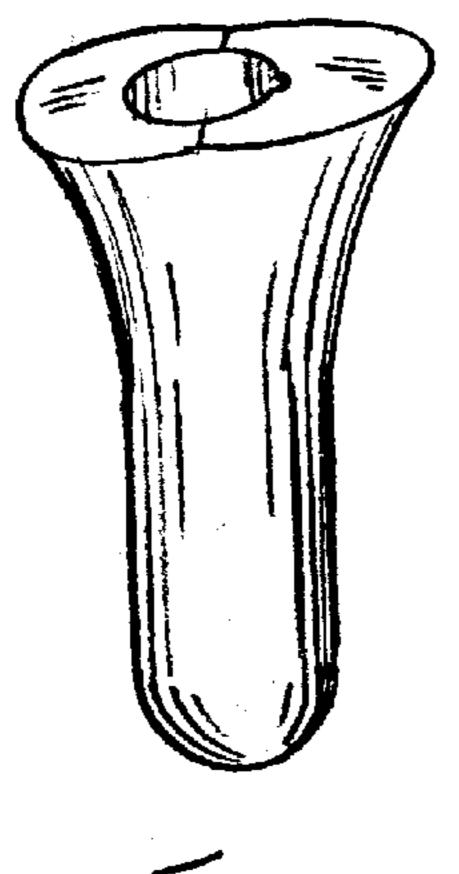


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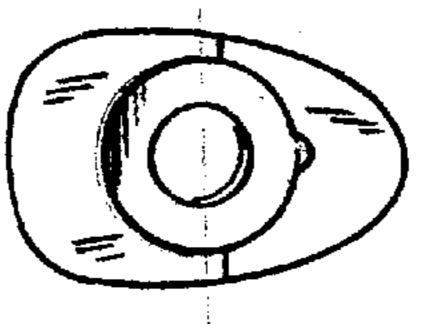
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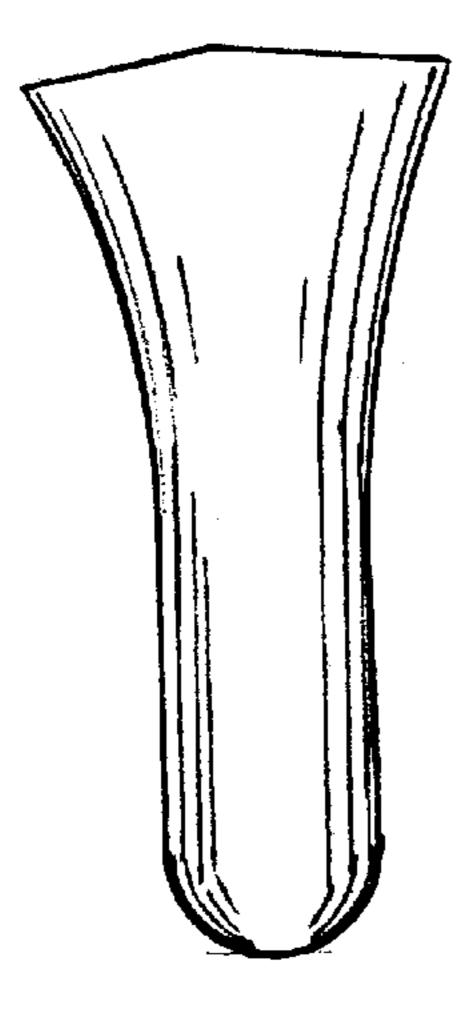


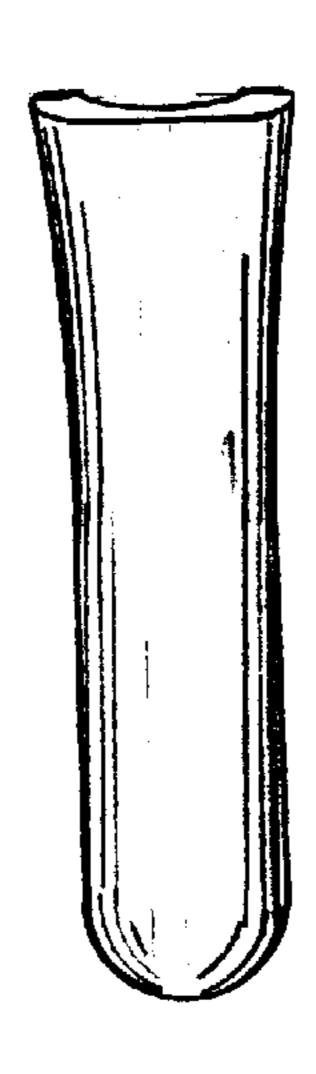




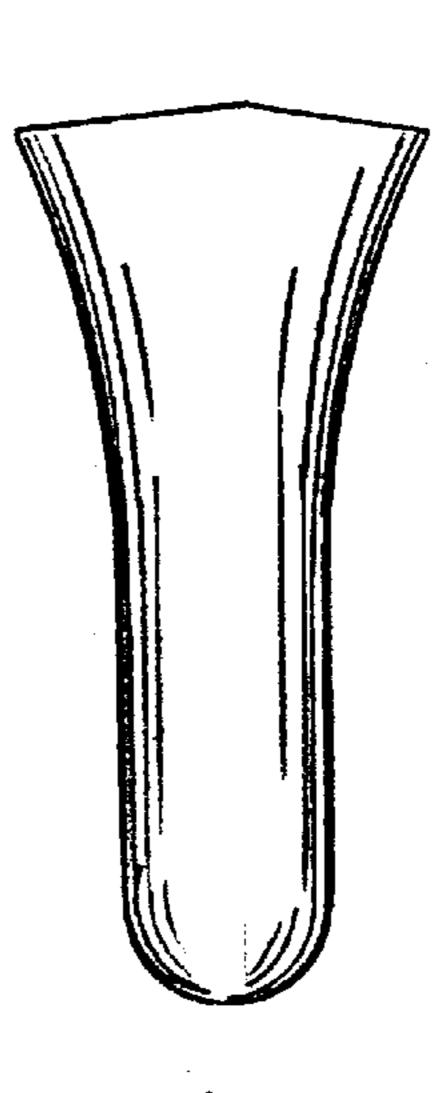
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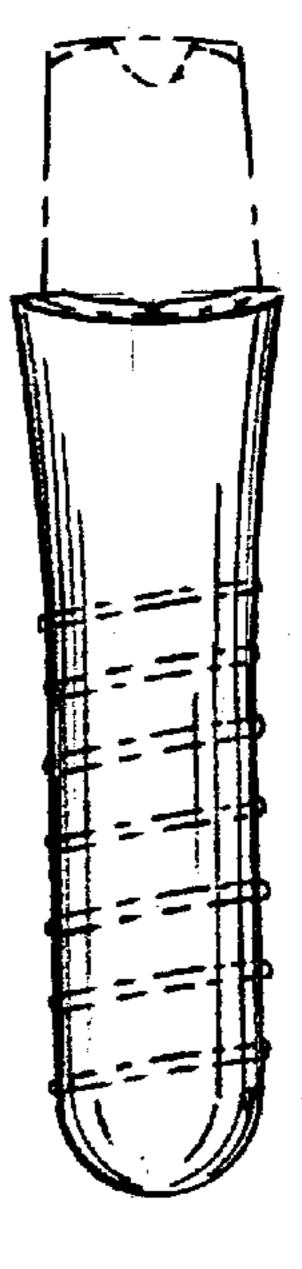




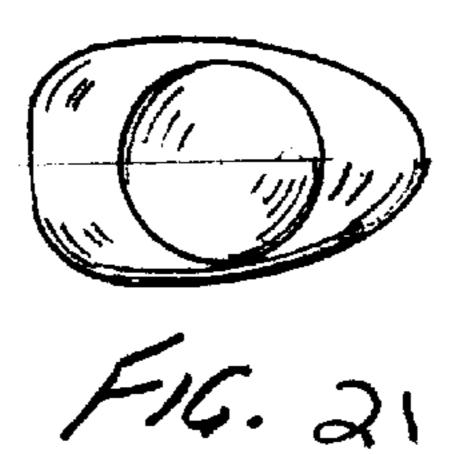


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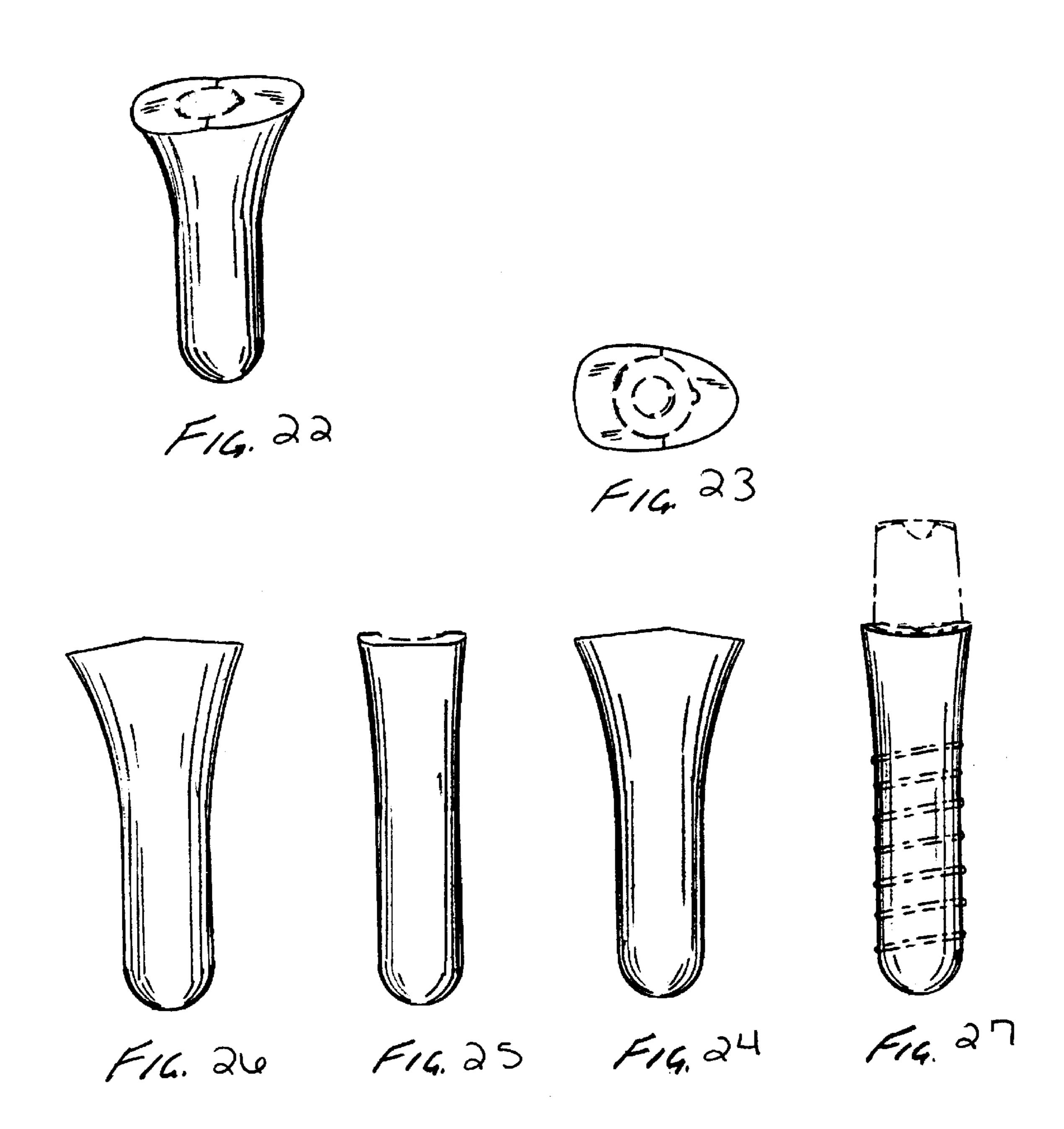


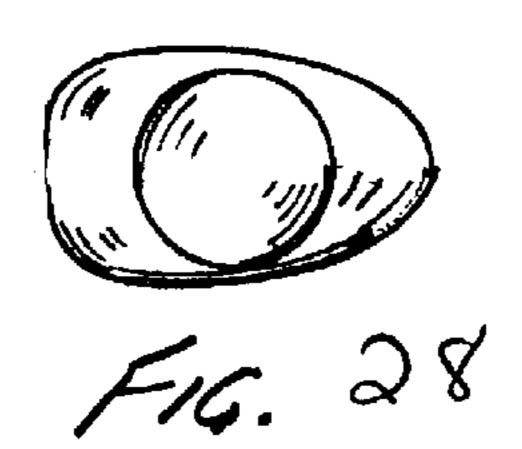


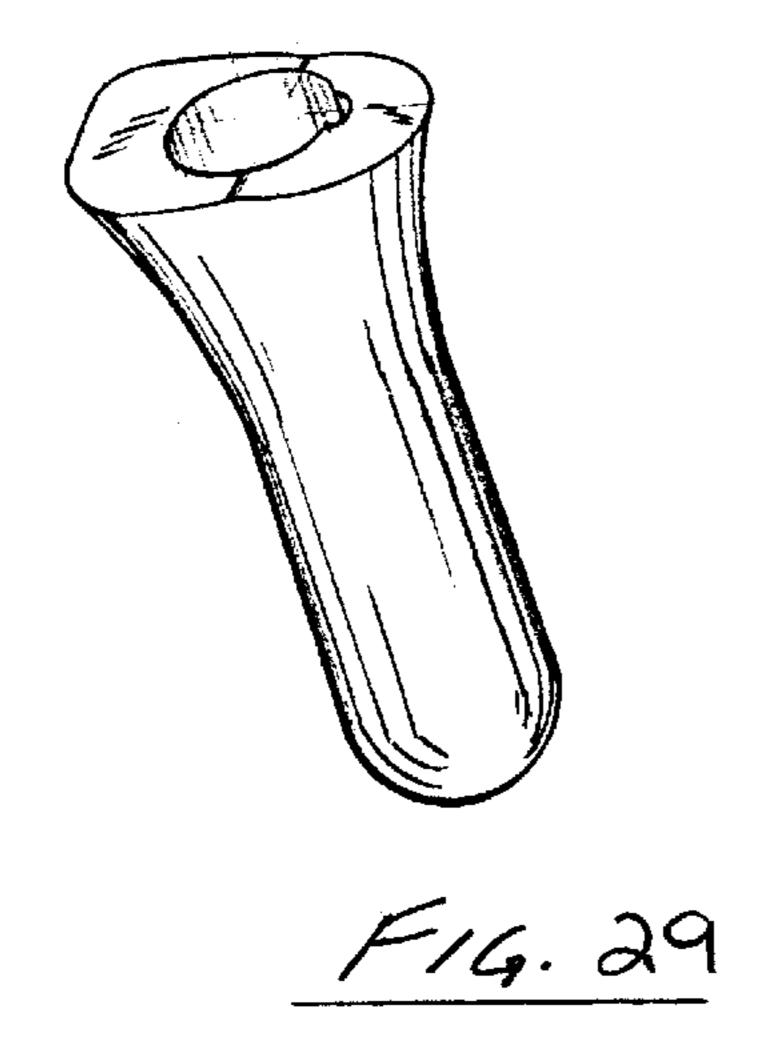
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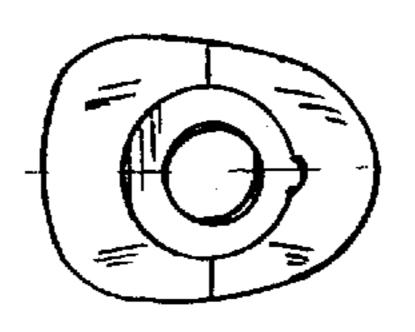


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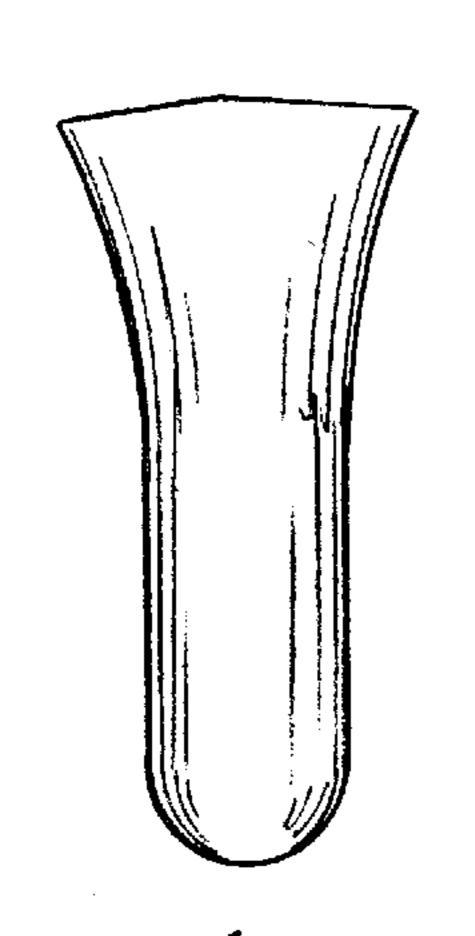




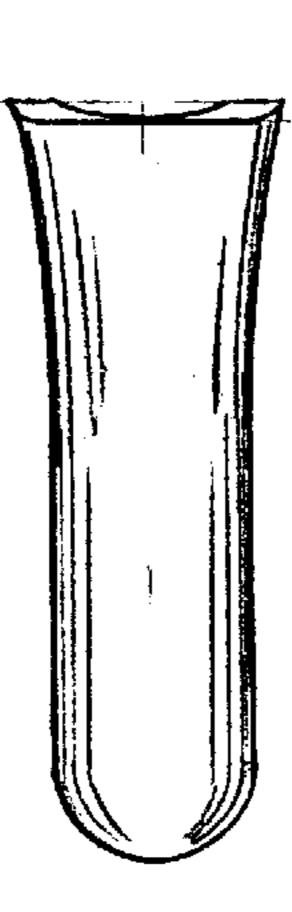




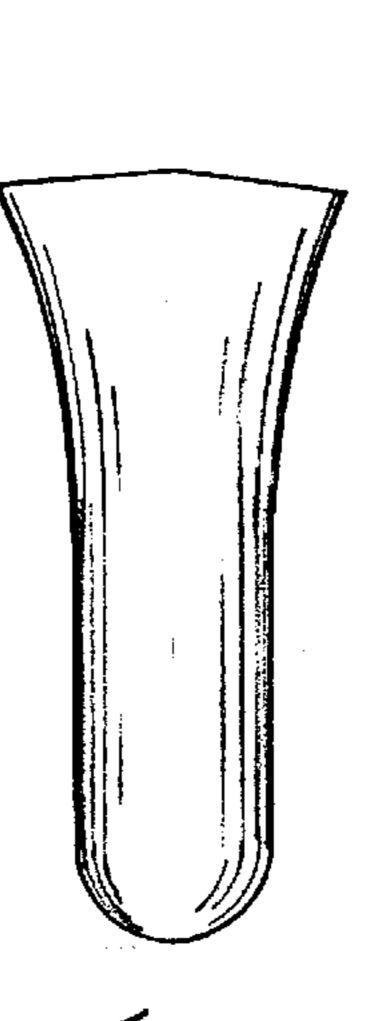
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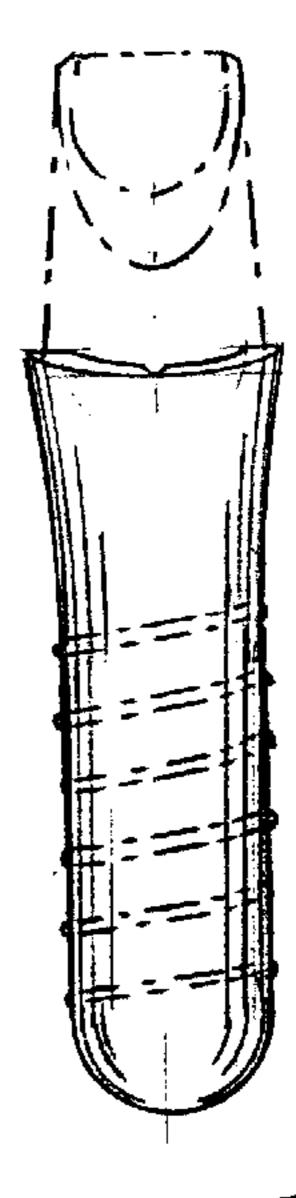
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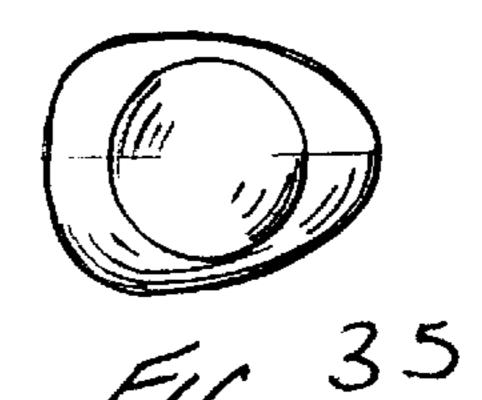
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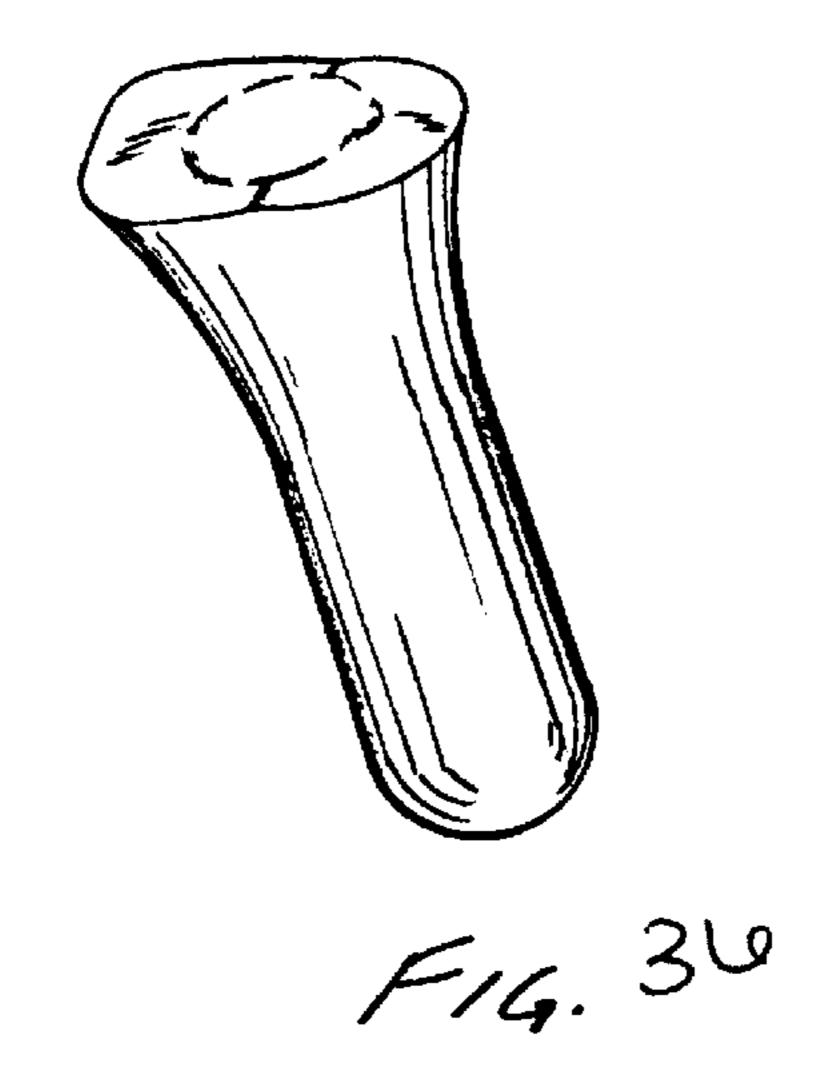


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