



US00D486578S

(12) **United States Design Patent** (10) **Patent No.:** **US D486,578 S**
Schulter et al. (45) **Date of Patent:** **** Feb. 10, 2004**

(54) **DENTAL IMPLANT FIXTURE**

(75) Inventors: **Carl W. Schulter**, Memphis, TN (US);
Gary Qi, Memphis, TN (US); **Andrew J. Schulter**, Germantown, TN (US)

(73) Assignee: **Cagenix, Inc.**, Memphis, TN (US)

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

(21) Appl. No.: **29/177,945**

(22) Filed: **Mar. 18, 2003**

(51) **LOC (7) Cl.** **29-03**

(52) **U.S. Cl.** **D24/156**

(58) **Field of Search** D24/156; 433/172-174,
433/180-181

(56) **References Cited**

U.S. PATENT DOCUMENTS

5,759,034 A	6/1998	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	433/172
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 B1	1/2001	Wohrle	433/173
6,217,333 B1	4/2001	Ercoli	433/173
D446,859 S *	8/2001	Hurson	D24/156
6,283,754 B1	9/2001	Wohrle	433/173
6,315,563 B1	11/2001	Sager	433/173
6,402,515 B1	6/2002	Palti et al.	433/174
6,413,089 B1	7/2002	Ashman et al.	433/174
6,431,867 B1	8/2002	Gittelsohn et al.	433/173
6,527,554 B2	3/2003	Hurson et al.	433/173
6,537,069 B1	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 Periodontol* 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 Periodontol*, 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”, Langer, 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.

* cited by examiner

Primary Examiner—Antoine Duval Davis

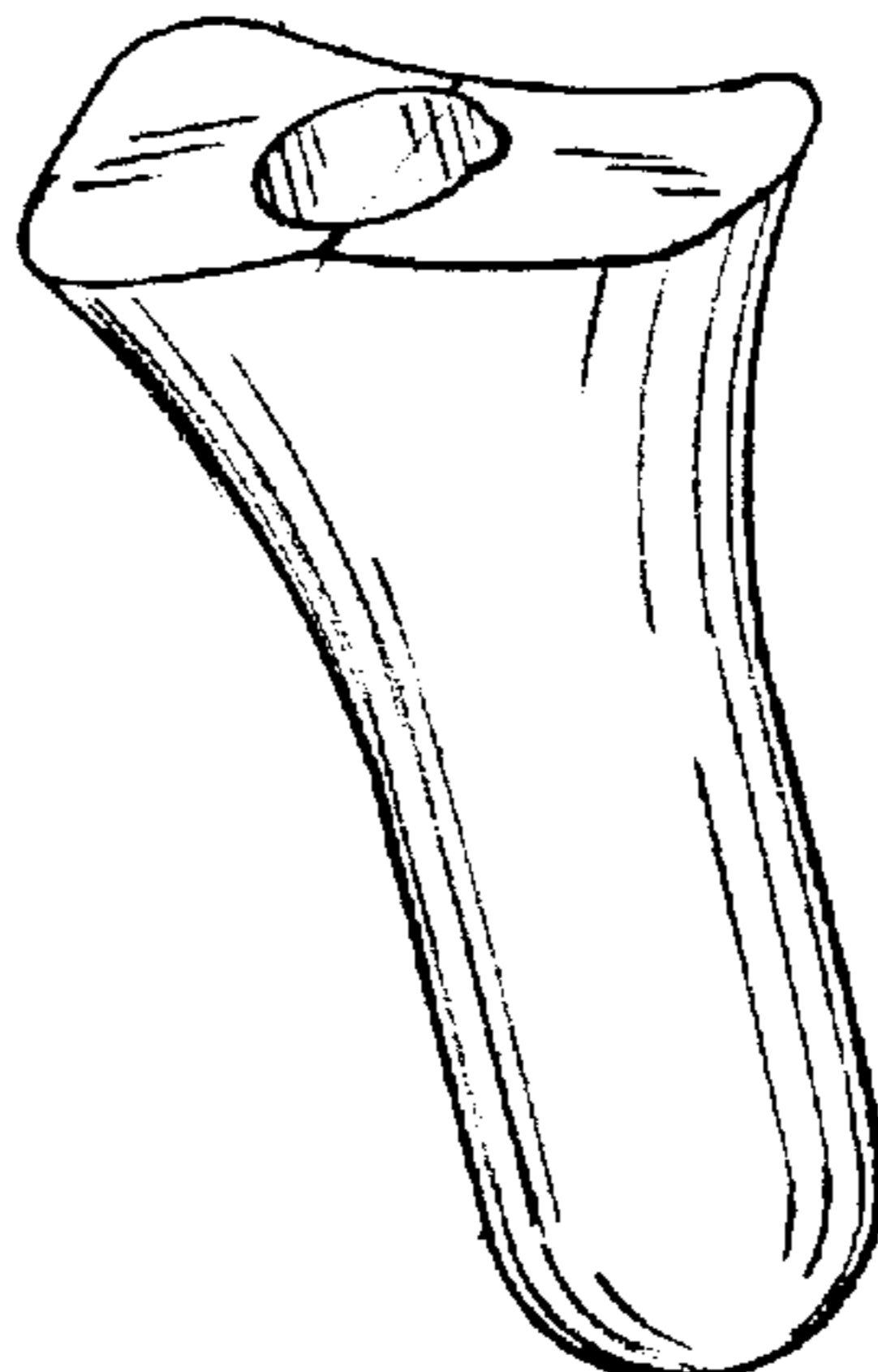
(74) *Attorney, Agent, or Firm*—Butler, Snow, O’Mara, Stevens & Cannada, PLLC.

(57) **CLAIM**

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

DESCRIPTION

The related applications include “Unitary Dental Implant”, 29/177938; “Dental Implant Fixture”, 29/177946; “Dental Implant Fixture”, 29/177947; “Dental Implant Fixture”, 29/177944; “Dental Implant Fixture”, 29/177939; “Dental Implant Abutment”, 29/177950; “Dental Implant Abut-



ment”, 29/177925; “Dental Implant Abutment”, 29/177949; “Dental Implant Abutment”, 29/177926; “Dental Implant Abutment”, 29/177948; and “Dental Implant Abutment”, 29/178012, 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; and,

FIG. 14 is a bottom view of the second 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.

The two embodiments of the dental implant fixture illustrated in FIGS. 1–14 are preferred for use on one side of the mouth. Two further embodiments of the dental implant fixture that are preferred for use on the other side of the mouth are mirror images of the two embodiments illustrated in FIGS. 1–14. These two 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, 2 Drawing Sheets

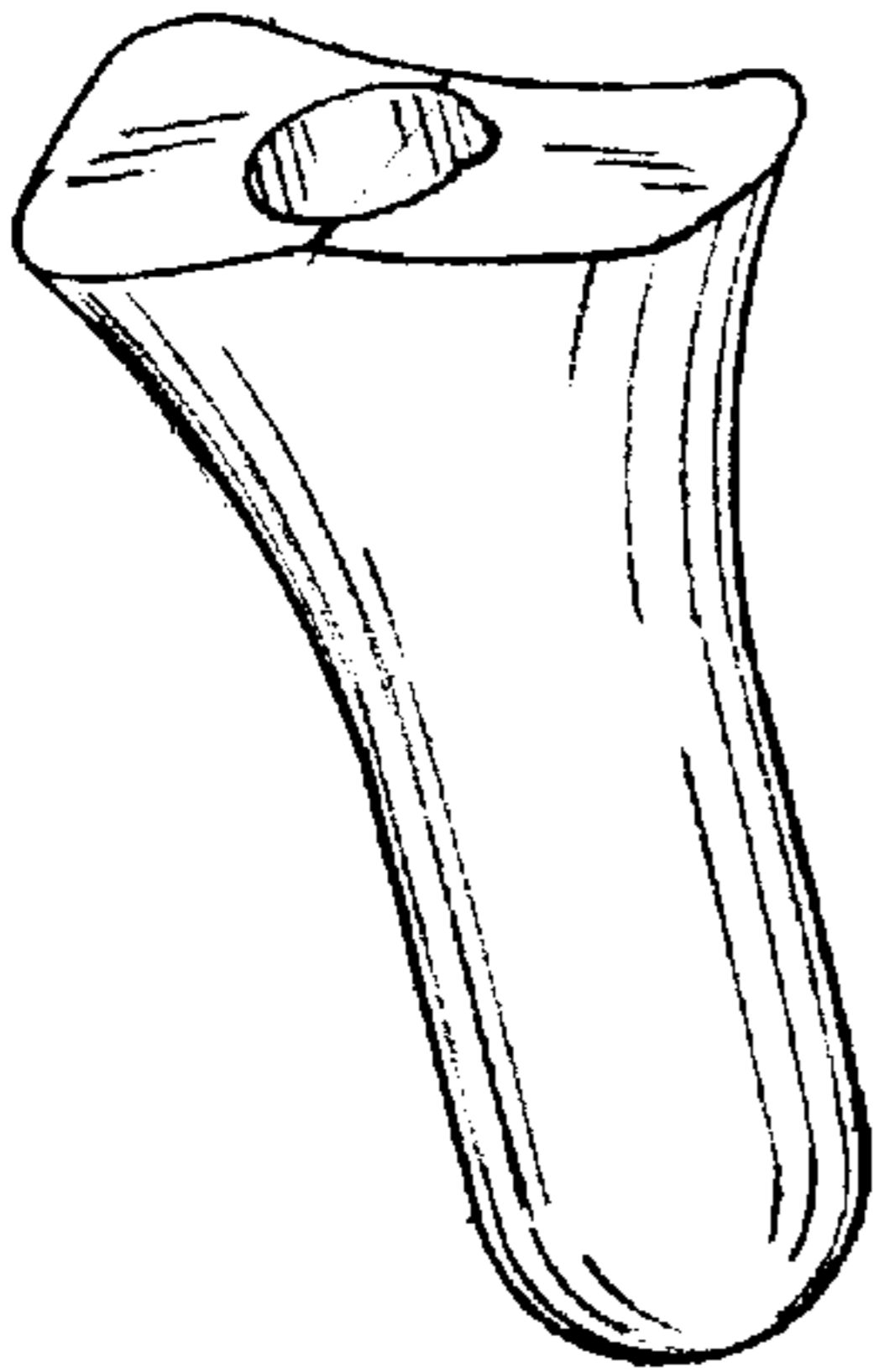


FIG. 1

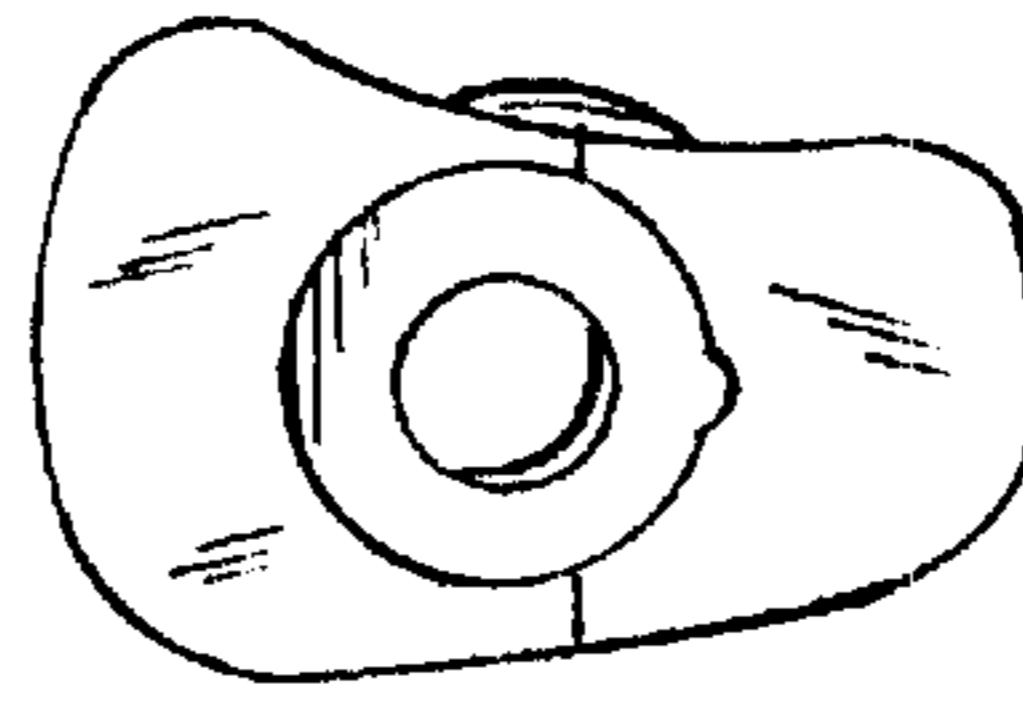


FIG. 2

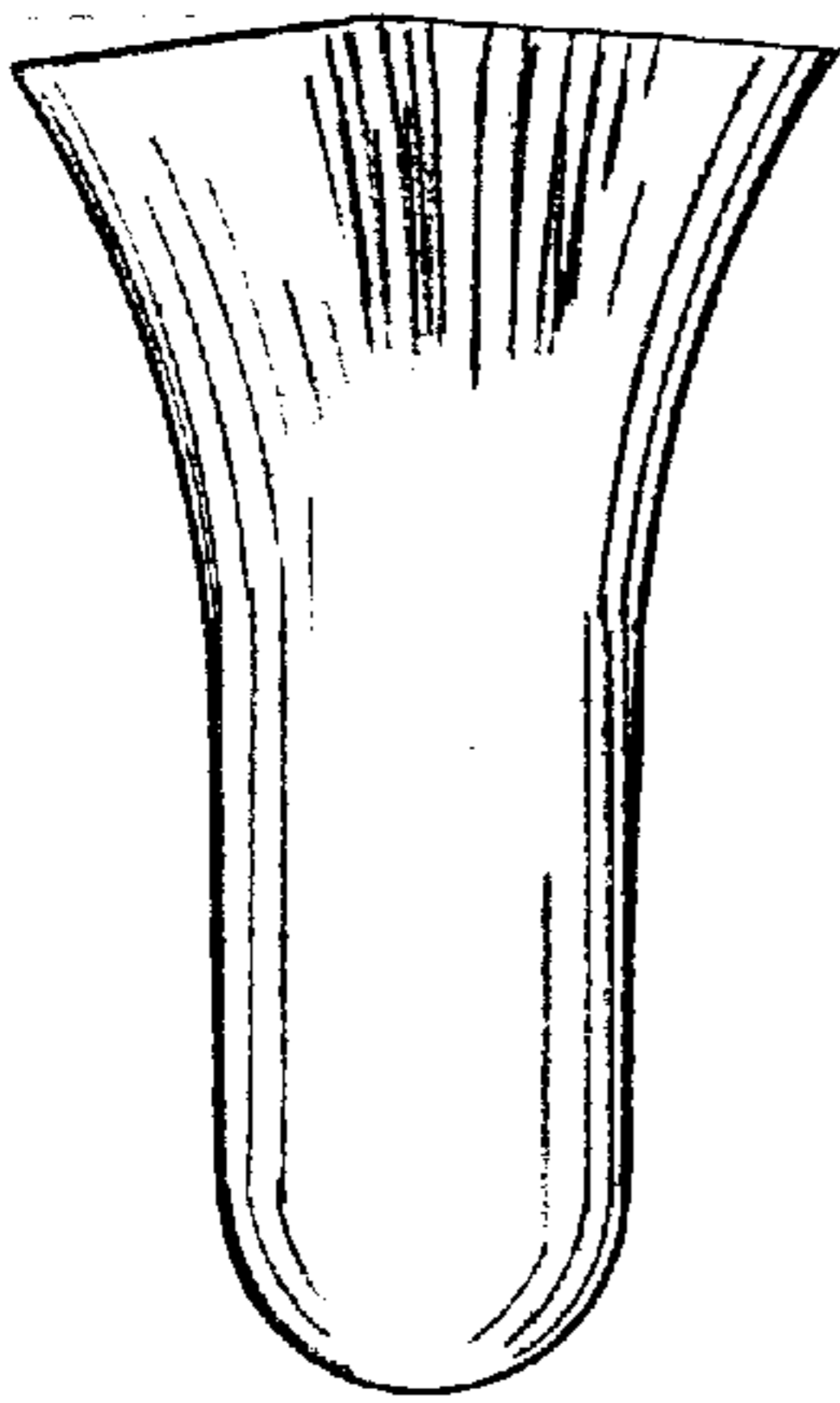


FIG. 5

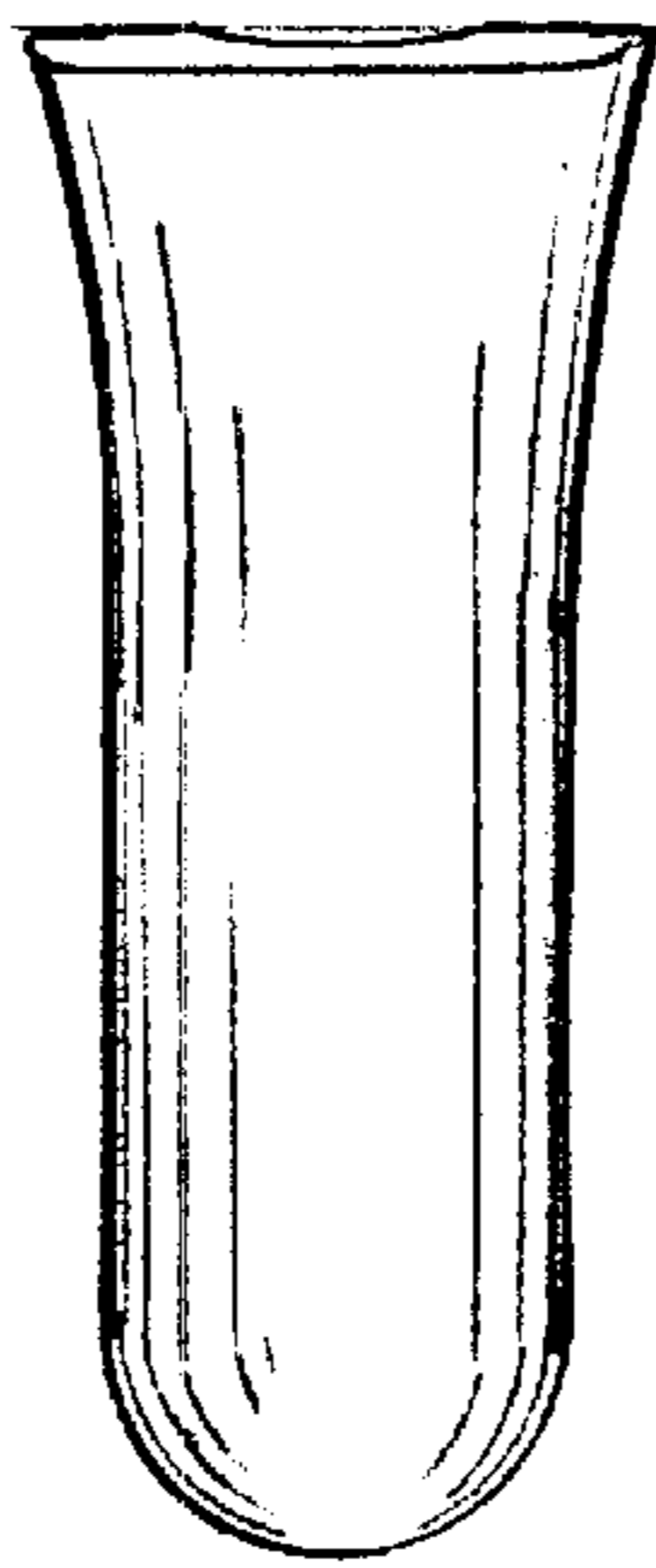


FIG. 4

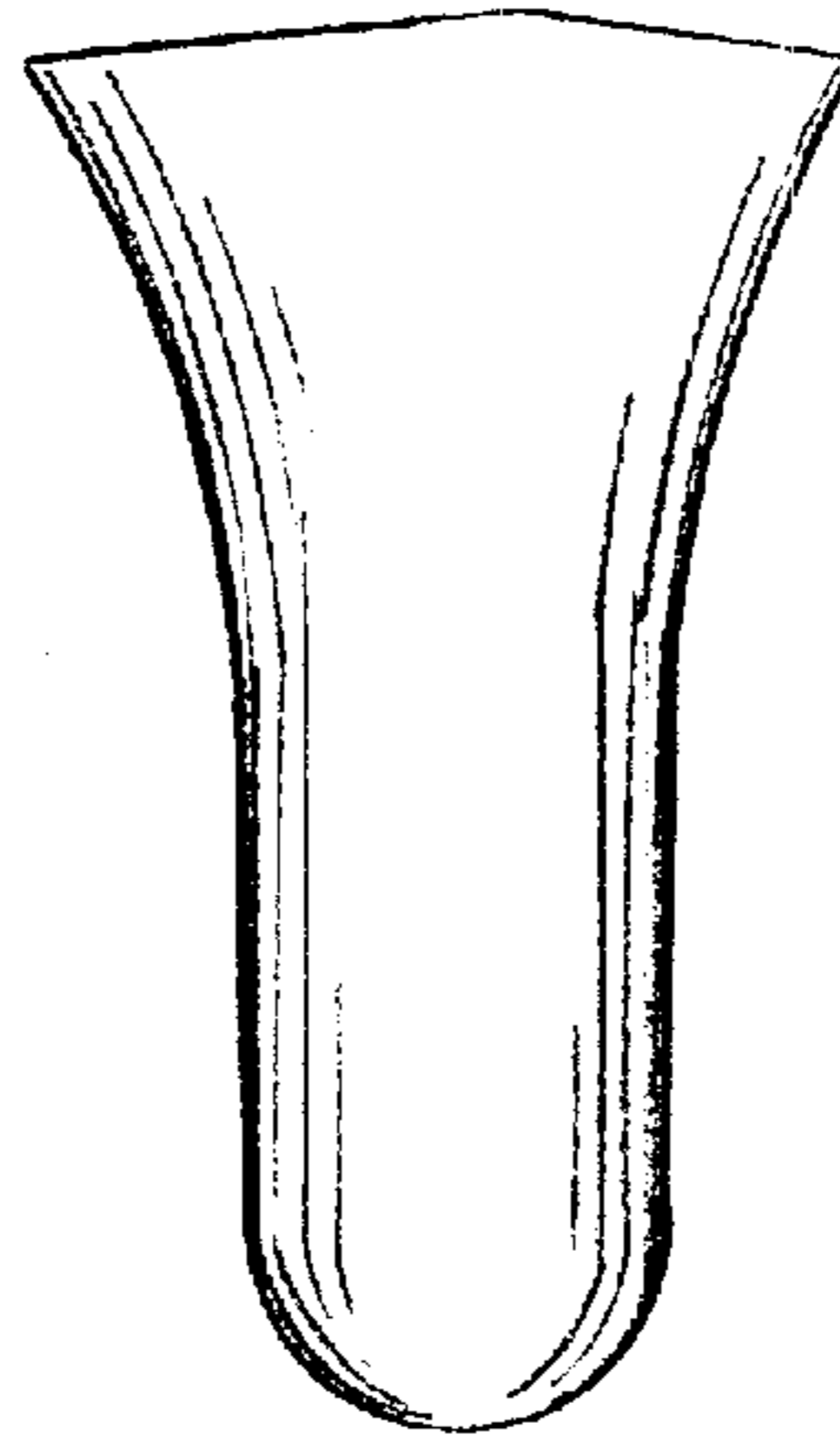


FIG. 3

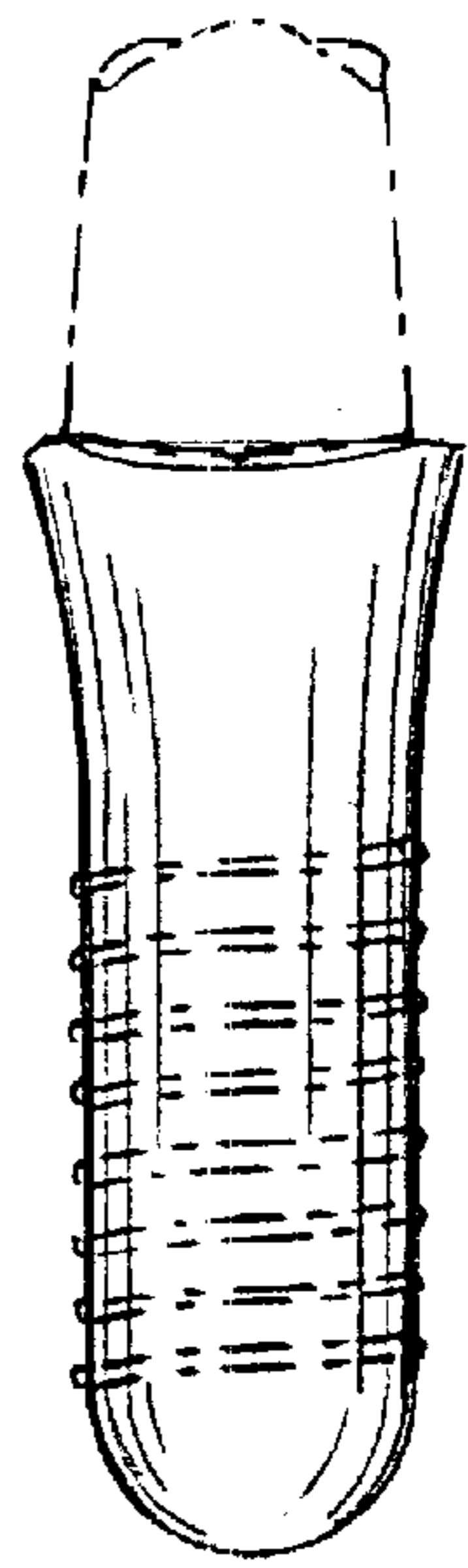


FIG. 6

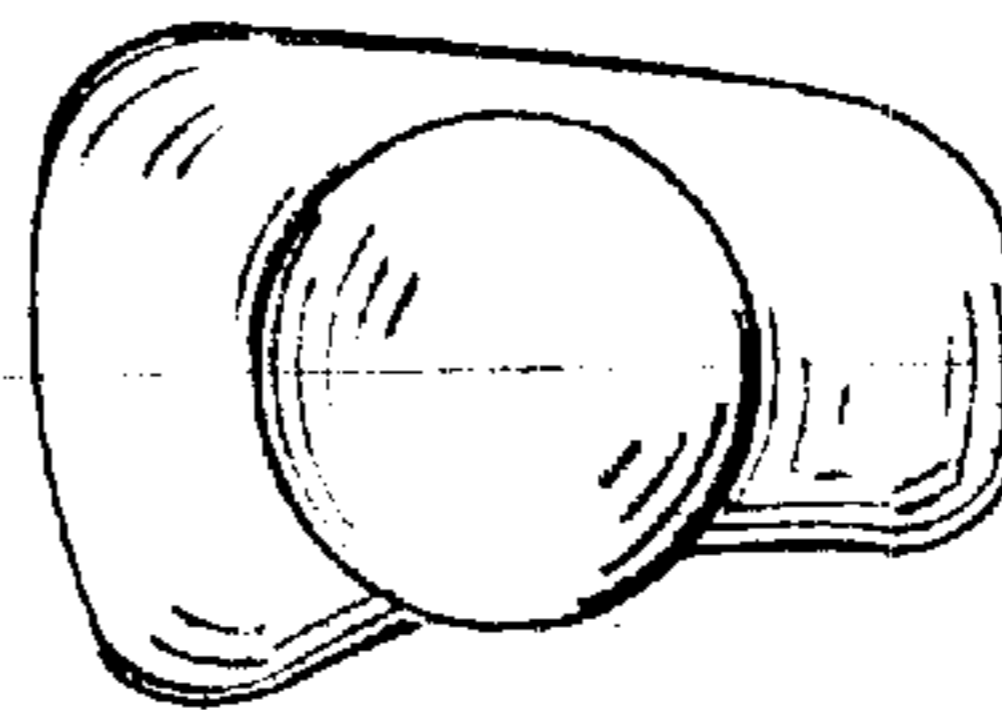


FIG. 7

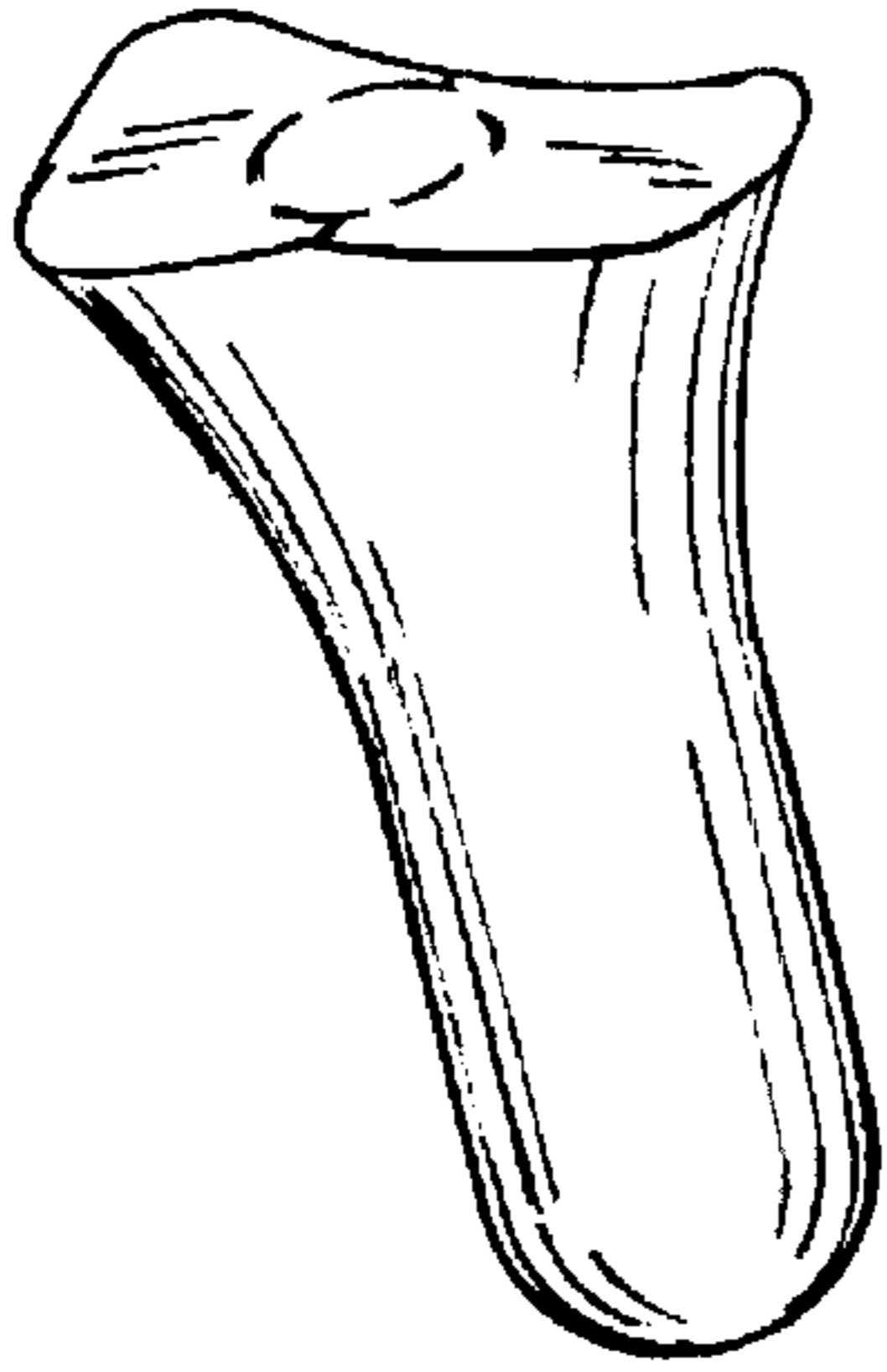


FIG. 8

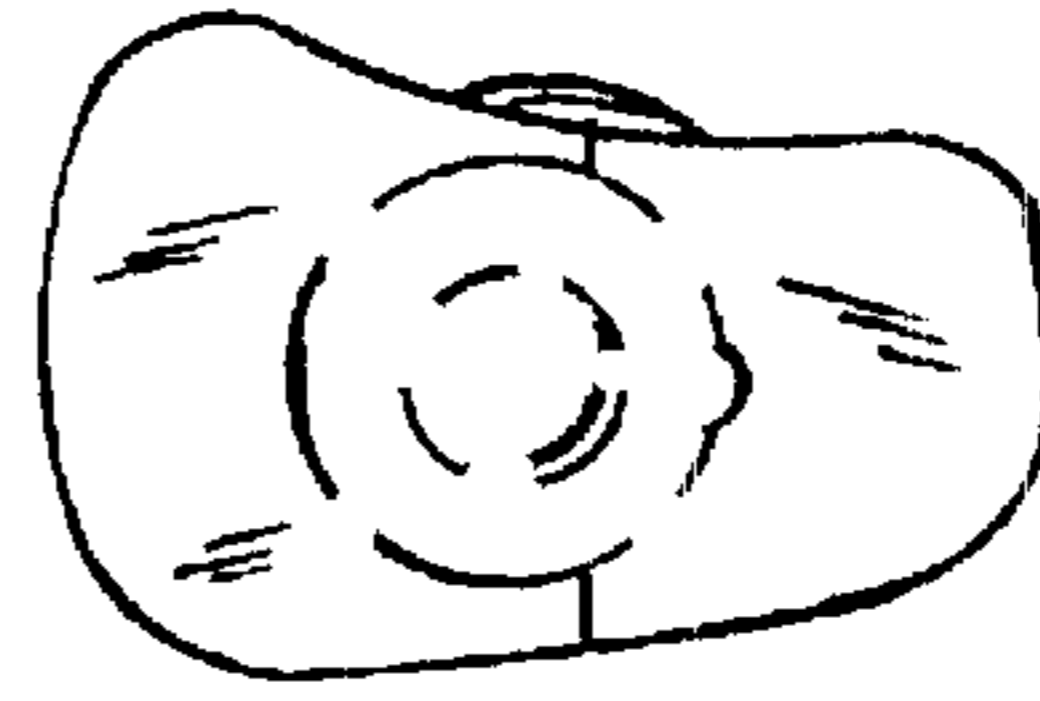


FIG. 9

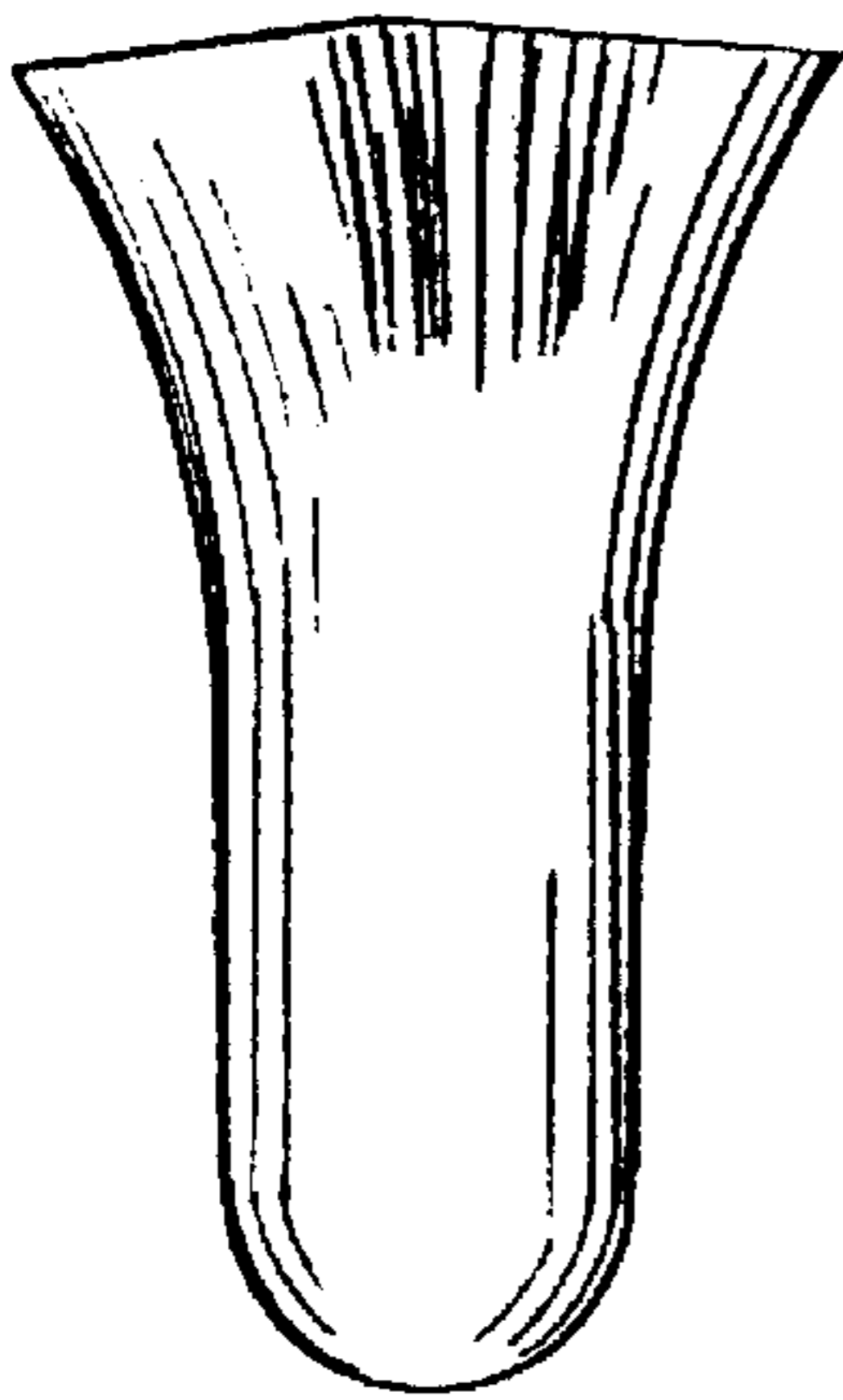


FIG. 12

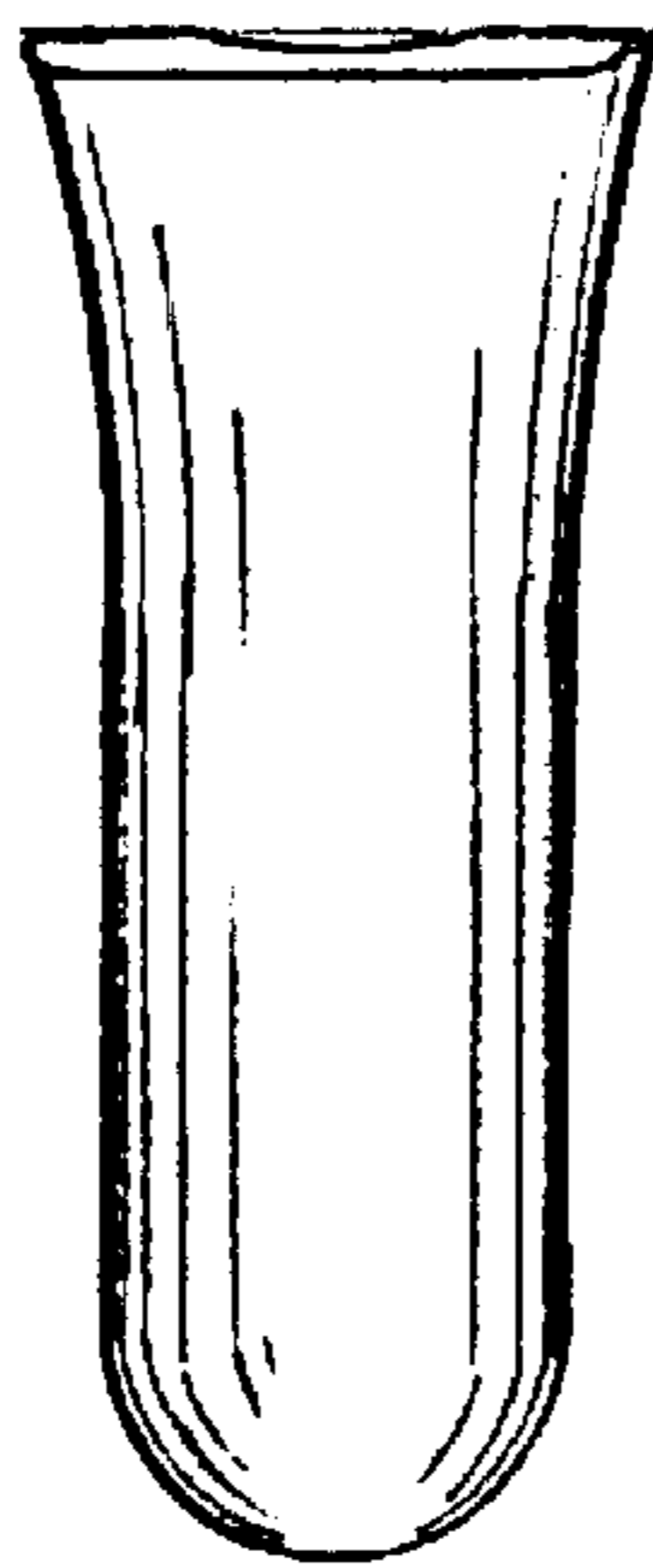


FIG. 11

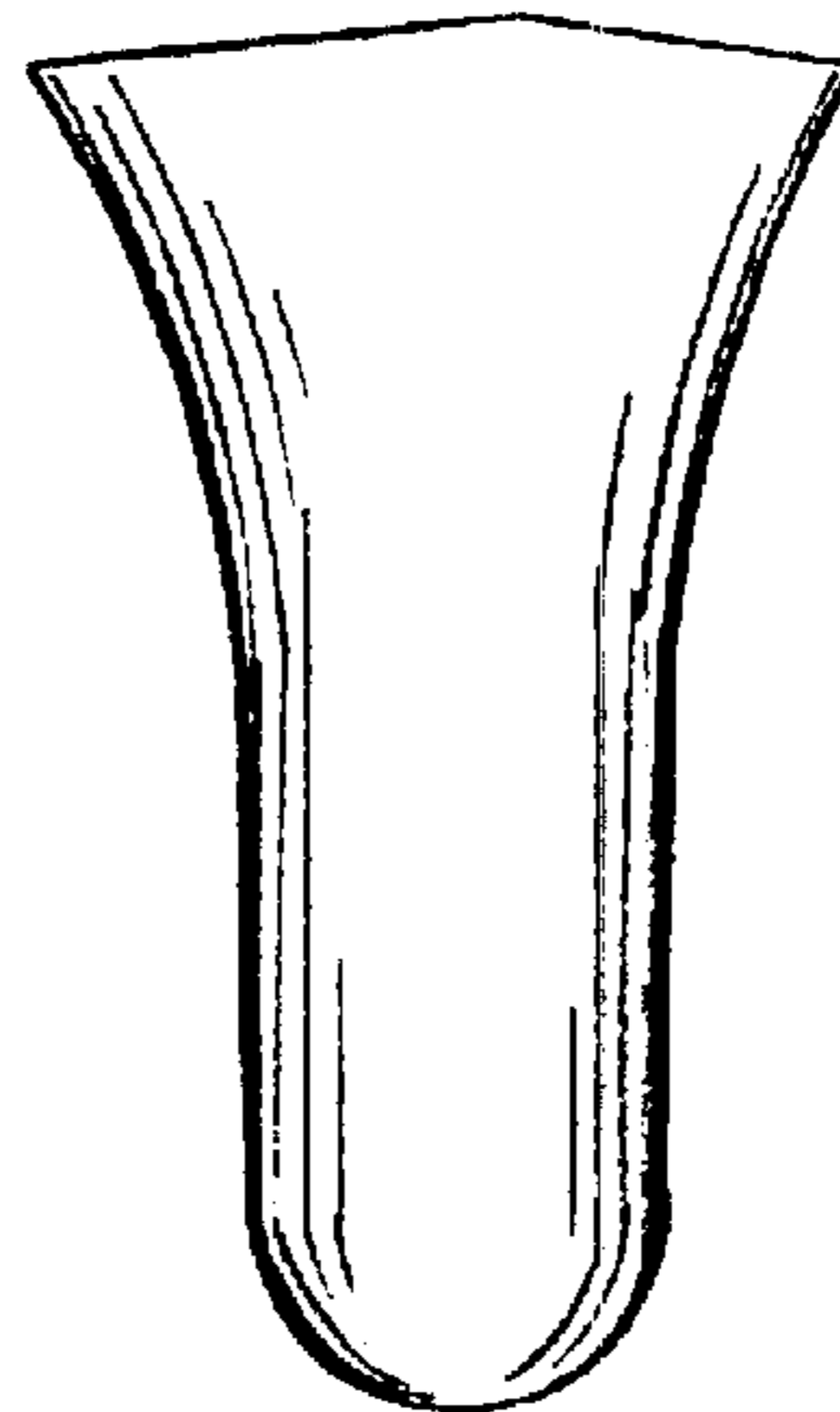


FIG. 10

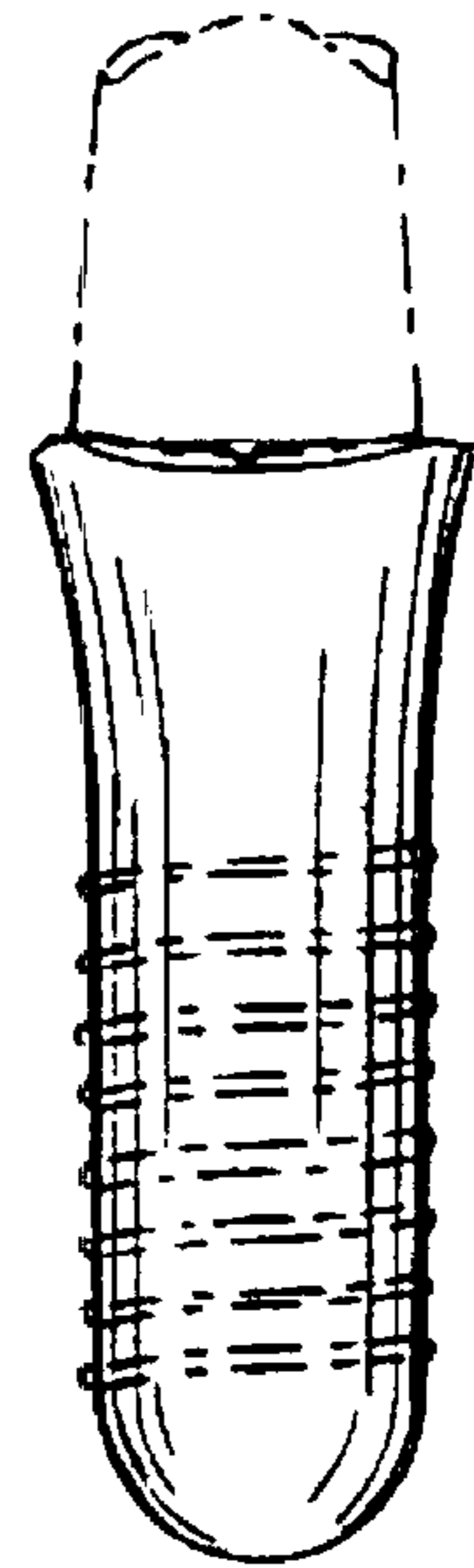


FIG. 13

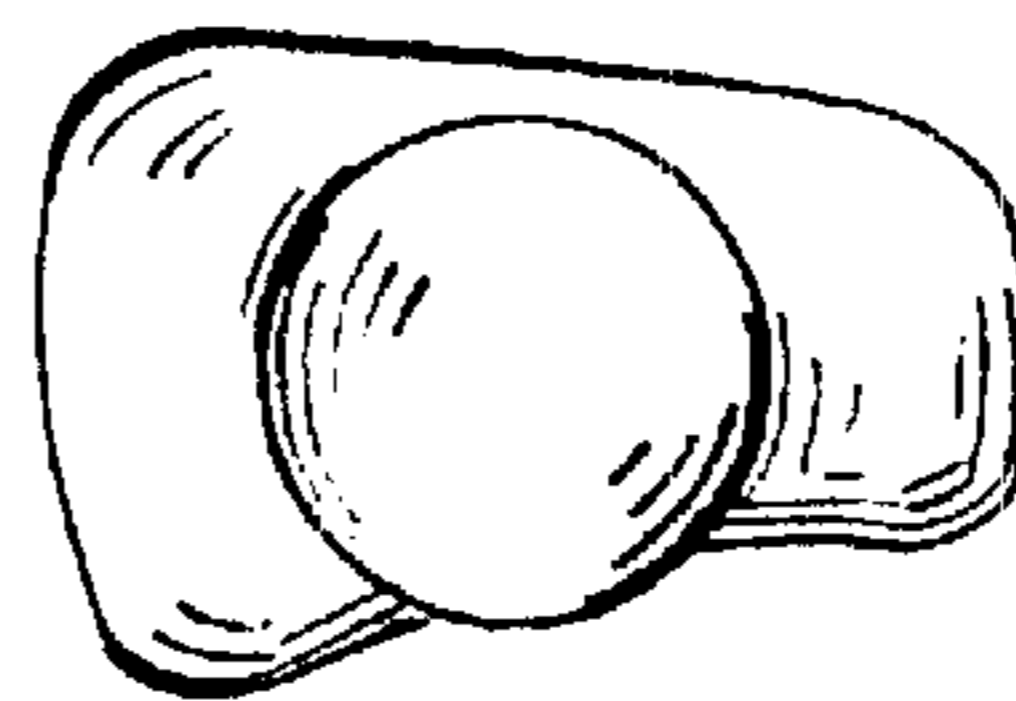


FIG. 14