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(12) **United States Design Patent**
Schulter et al.

(10) **Patent No.:** **US D487,153 S**

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- (54) **DENTAL IMPLANT ABUTMENT**
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- (73) Assignee: **Cagenix, Inc.**, Memphis, TN (US)
- (**) Term: **14 Years**
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- (22) Filed: **Mar. 18, 2003**
- (51) **LOC (7) Cl.** **24-03**
- (52) **U.S. Cl.** **D24/156**
- (58) **Field of Search** D24/156; 433/172-174,
433/180-181

6,039,568 A	3/2000	Hinds	433/175
6,120,292 A	9/2000	Buser et al.	433/173
6,120,293 A	9/2000	Lazzara et al.	433/173
6,129,548 A	10/2000	Lazzara et al.	433/172
6,155,828 A	12/2000	Lazzara et al.	433/173
6,174,166 B1	1/2001	Jorneus	433/172
6,227,856 B1	5/2001	Beaty et al.	433/172
6,244,867 B1	6/2001	Aravena et al.	433/172
6,250,922 B1	6/2001	Bassett et al.	433/172
6,287,117 B1	9/2001	Niznick	433/173
6,358,050 B1	3/2002	Bergstrom et al.	433/173
D455,833 S	4/2002	Daftary	D24/155
6,386,876 B1	5/2002	Lee	433/173
6,394,806 B1	5/2002	Kumar	433/173
6,431,866 B2	8/2002	Hurson	433/172
6,431,867 B1	8/2002	Gittelsohn et al.	433/173
6,474,991 B1	11/2002	Hansson	433/173
D470,939 S	2/2003	Daftary	D24/156

OTHER PUBLICATIONS

Managing the Soft Tissue Margin: The Key to Implant Aesthetics Lazzara, Practical Periodontics and Aesthetic Dentistry, vol. 5, Jun./Jul. 1993 (8 pages).

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

“Recession of the soft tissue margin at oral implants” Bengazi et al., Clinical Oral Implants Research, 7: 303-310. AltatecBiotecnologies, “The Camlog Abutments”.

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

Primary Examiner—Antoine Duval Davis

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(57) **CLAIM**

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

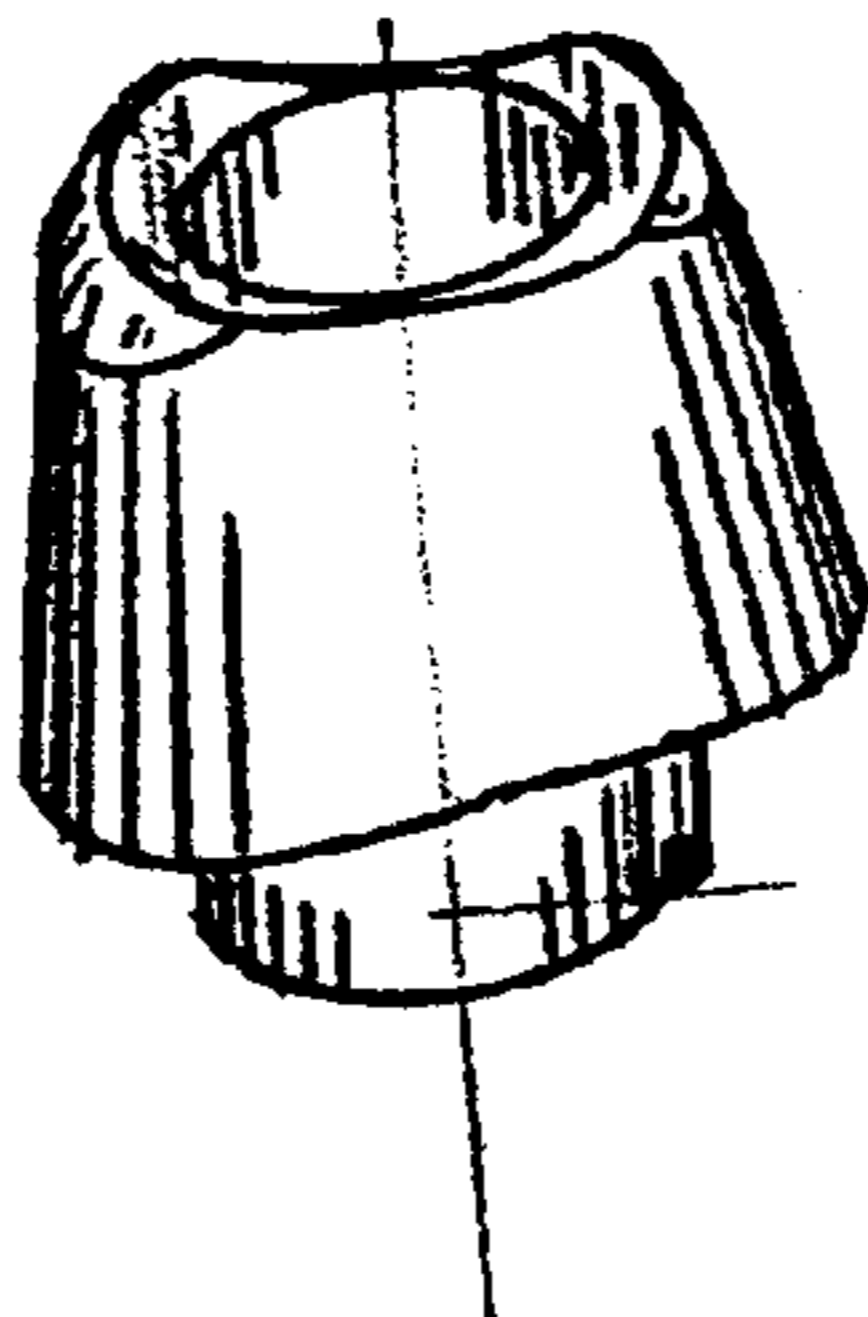
DESCRIPTION

The related applications include “Urinary Dental Implant”, Ser. No. 29177,938; “Dental Implant Fixture”, Ser. No. 29/177,946; “Dental Implant Fixture”, Ser. No. 29/177,947;

(56) **References Cited**

U.S. PATENT DOCUMENTS

4,850,873 A	7/1989	Lazzara et al.	433/220
4,960,381 A	10/1990	Niznick	433/174
4,988,298 A	1/1991	Lazzara et al.	433/173
5,030,095 A	7/1991	Niznick	433/173
5,061,181 A	10/1991	Niznick	433/174
5,071,350 A	12/1991	Niznick	433/173
5,281,140 A	1/1994	Niznick	433/172
5,338,196 A	8/1994	Beaty et al.	433/172
5,433,606 A	7/1995	Niznick et al.	433/173
5,527,182 A	6/1996	Willoughby	433/172
5,547,377 A	8/1996	Daftary	433/172
5,622,500 A	4/1997	Niznick	433/173
5,662,473 A	9/1997	Rassoli et al.	433/172
5,725,375 A	3/1998	Rogers	433/172
5,772,437 A	6/1998	Rangert et al.	433/174
5,779,480 A	7/1998	Groll et al.	433/173
5,810,592 A	9/1998	Daftary	433/173
D401,694 S	11/1998	Daftary	D24/155
5,829,977 A	11/1998	Rogers	433/172
5,873,722 A	2/1999	Lazzara et al.	433/173
5,899,697 A	5/1999	Lazzara et al.	433/173
5,947,733 A	9/1999	Sutter et al.	433/173
5,967,781 A	10/1999	Gittleman	433/172
5,984,680 A	11/1999	Rogers	433/173
6,012,923 A	1/2000	Bassett et al.	433/172



“Dental Implant Fixture”, Ser. No. 29/177,944; “Dental Implant Fixture”, Ser. No. 29/177,939; “Dental Implant Fixture”, Ser. No. 29/177,945; “Dental Implant Fixture”, Ser. No. 29/177,950; “Dental Implant Abutment”, Ser. No. 29/177,925; “Dental Implant Abutment”, Ser. No. 29/177,949; “Dental Implant Abutment”, Ser. No. 29/177,926; “Dental Implant Abutment”, Ser. No. 29/177,948, all of which are filed contemporaneously herewith.

FIG. 1 is a top perspective view of a first embodiment of the dental implant abutment according to the present invention; FIG. 2 is a top view of the first embodiment of the dental implant abutment;

FIG. 3 is a left side view of the first embodiment of the dental implant abutment;

FIG. 4 is a front view of the first embodiment of the dental implant abutment;

FIG. 5 is a right side view of the first embodiment of the dental implant abutment;

FIG. 6 is a rear view of the first embodiment of the dental implant abutment;

FIG. 7 is a bottom view of the first embodiment of the dental implant abutment;

FIG. 8 is a top perspective view of a second embodiment of the dental implant abutment;

FIG. 9 is a top view of the second embodiment of the dental implant abutment;

FIG. 10 is a left side view of the second embodiment of the dental implant abutment;

FIG. 11 is a front view of the second embodiment of the dental implant abutment;

FIG. 12 is a right side view of the second embodiment of the dental implant abutment;

FIG. 13 is a rear view of the second embodiment of the dental implant abutment;

FIG. 14 is a bottom view of the second embodiment of the dental implant abutment;

FIG. 15 is a top perspective view of a third embodiment of the dental implant abutment;

FIG. 16 is a top view of the third embodiment of the dental implant abutment;

FIG. 17 is a left side view of the third embodiment of the dental implant abutment;

FIG. 18 is a front view of the third embodiment of the dental implant abutment;

FIG. 19 is a right side view of the third embodiment of the dental implant abutment;

FIG. 20 is a rear view of the third embodiment of the dental implant abutment; and,

FIG. 21 is a bottom view of the third embodiment of the dental implant abutment.

FIGS. 1–7 illustrate a first embodiment of a dental implant abutment. 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 abutment. The environment is shown in broken lines and forms no part of the design. Elements of the abutment 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 abutment. The environment is shown in broken lines and forms no part of the design. Elements of the abutment that form no part of the design of the third embodiment are shown in dashed lines.

The three embodiments of the dental implant abutment illustrated in FIGS. 1–21 are preferred for use on one side of the mouth. Three further embodiments of the dental implant abutment that are preferred for use on the other side of the mouth are mirror images of the three embodiments illustrated in FIGS. 1–21. These three 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, 3 Drawing Sheets

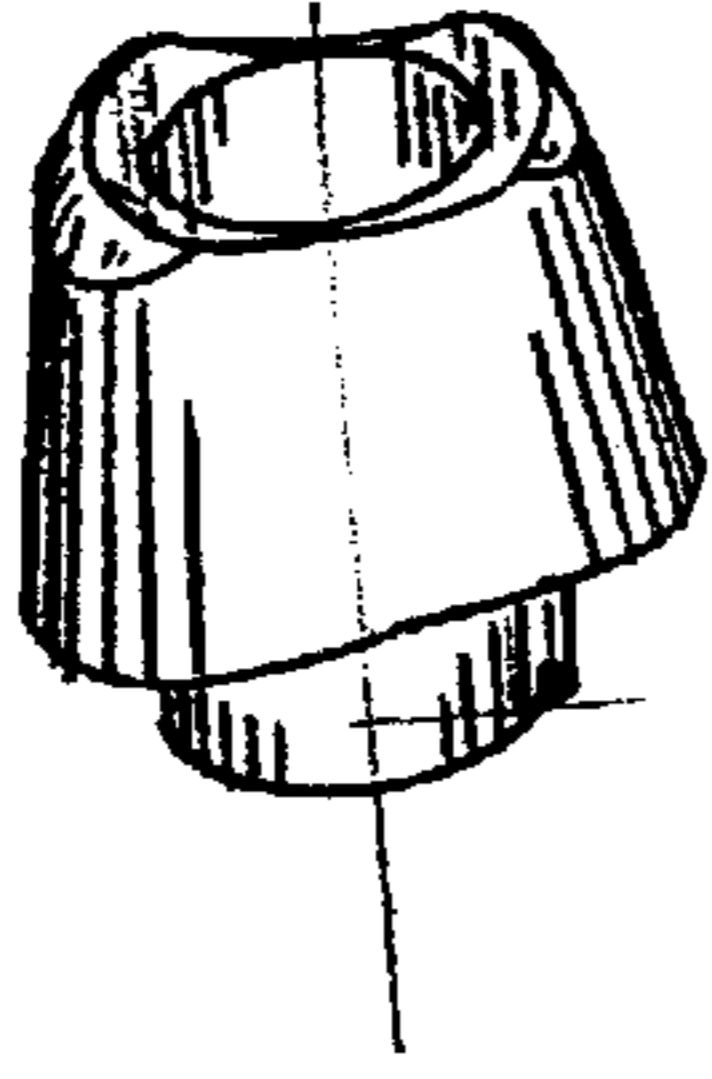


FIG. 1

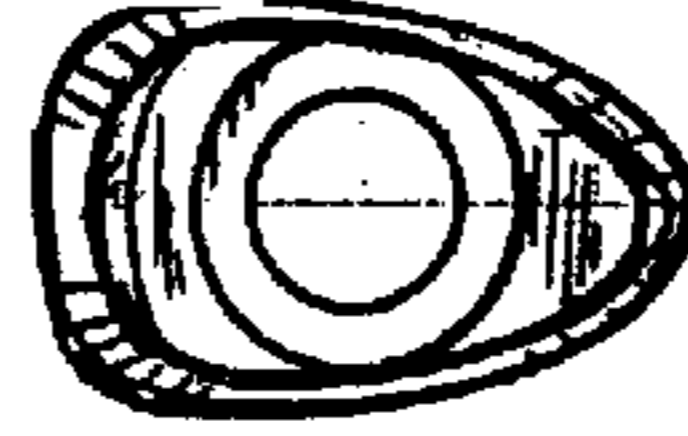


FIG. 2

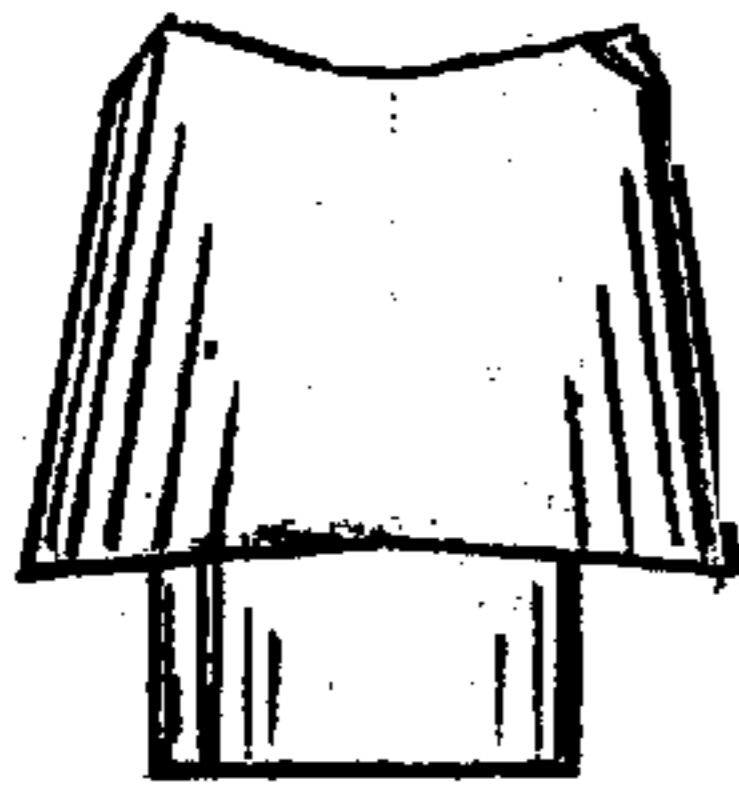


FIG. 5



FIG. 4

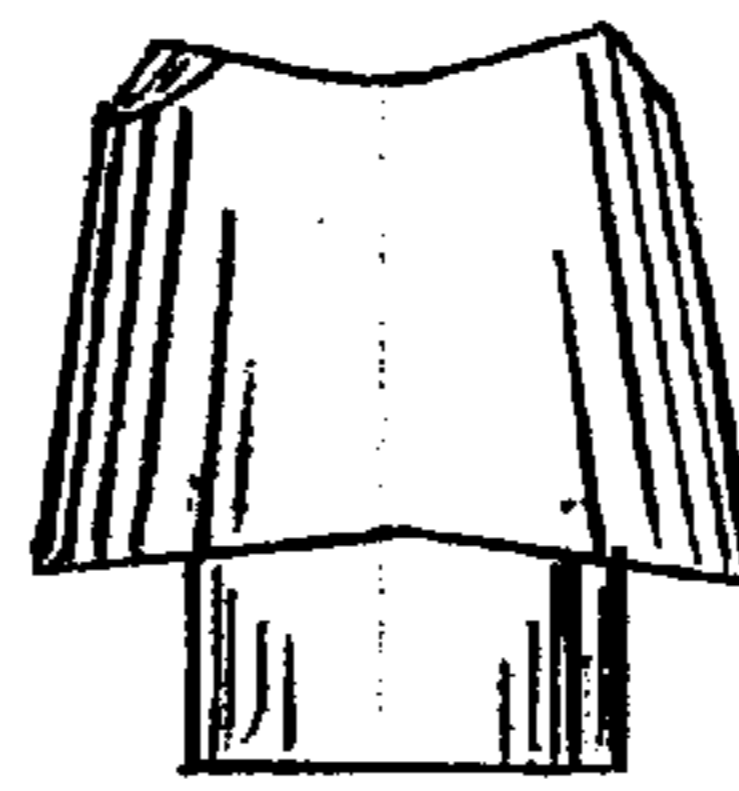


FIG. 3



FIG. 6

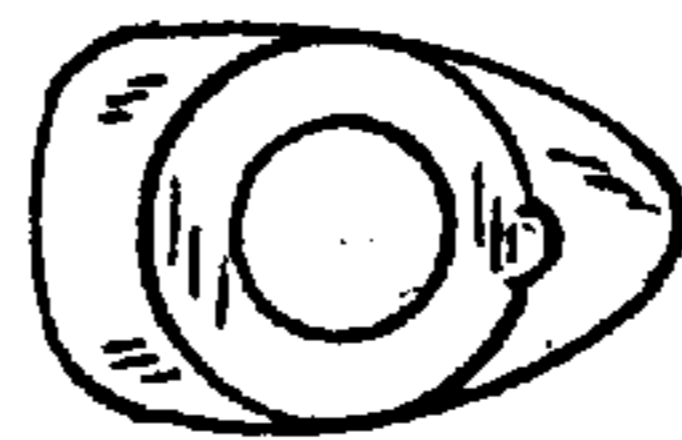


FIG. 7

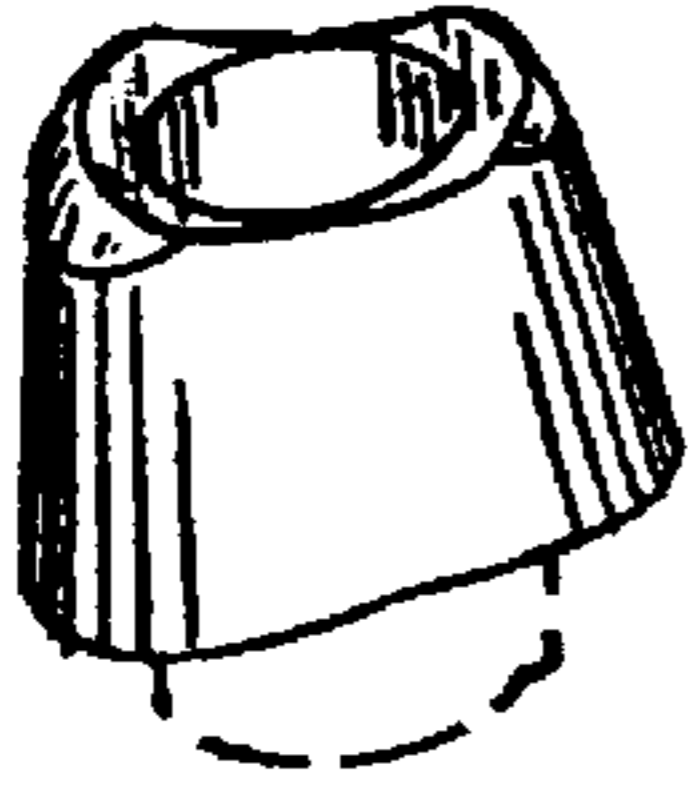


FIG. 8



FIG. 9

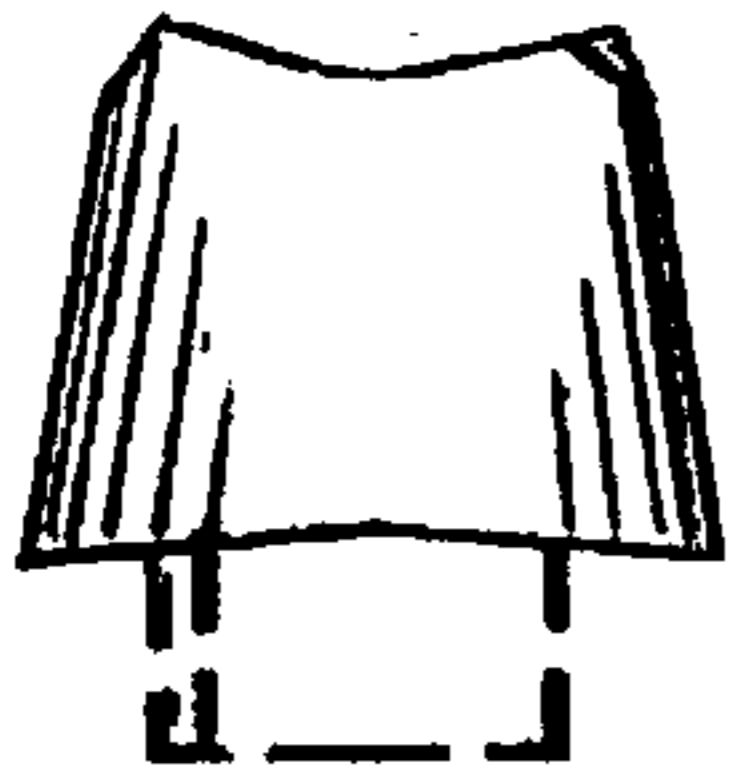


FIG. 12

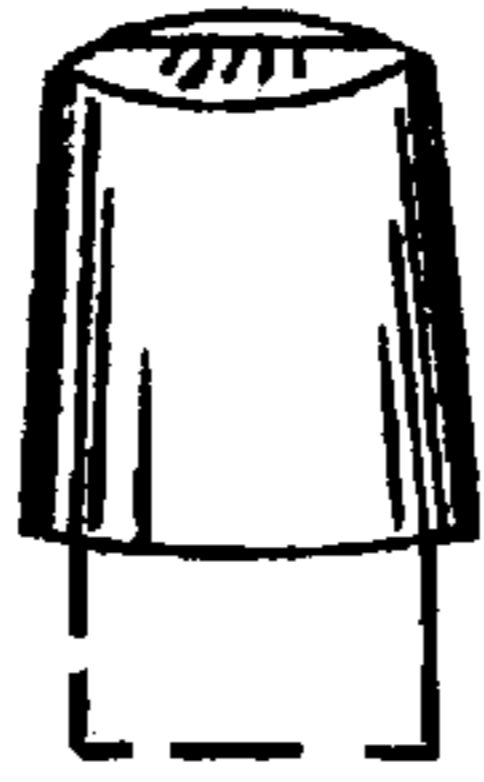


FIG. 11

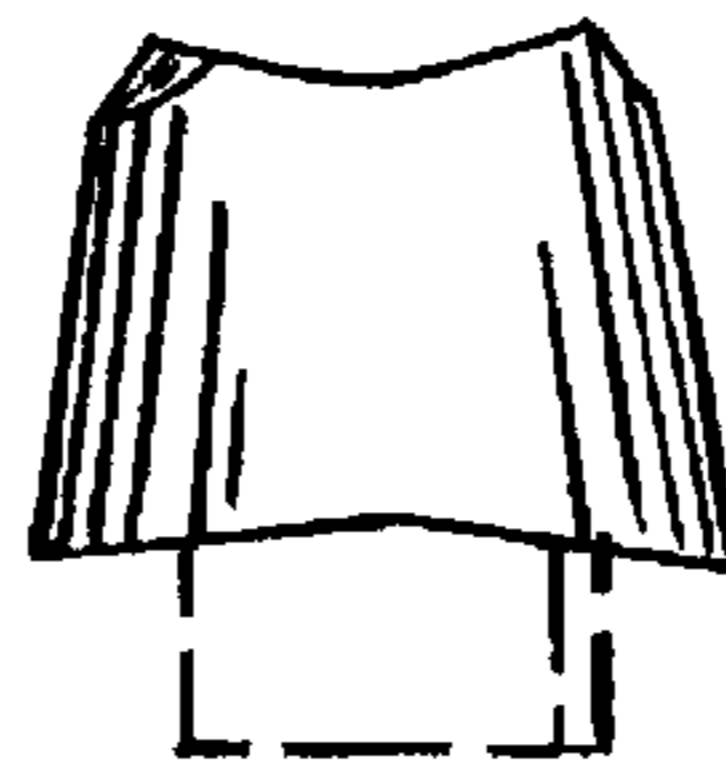


FIG. 10



FIG. 13

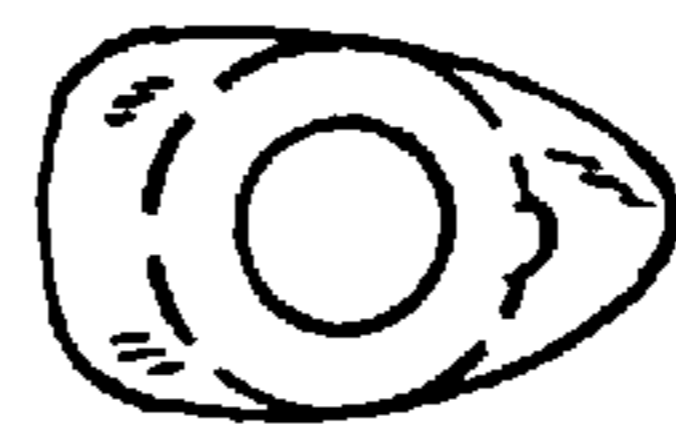


FIG. 14

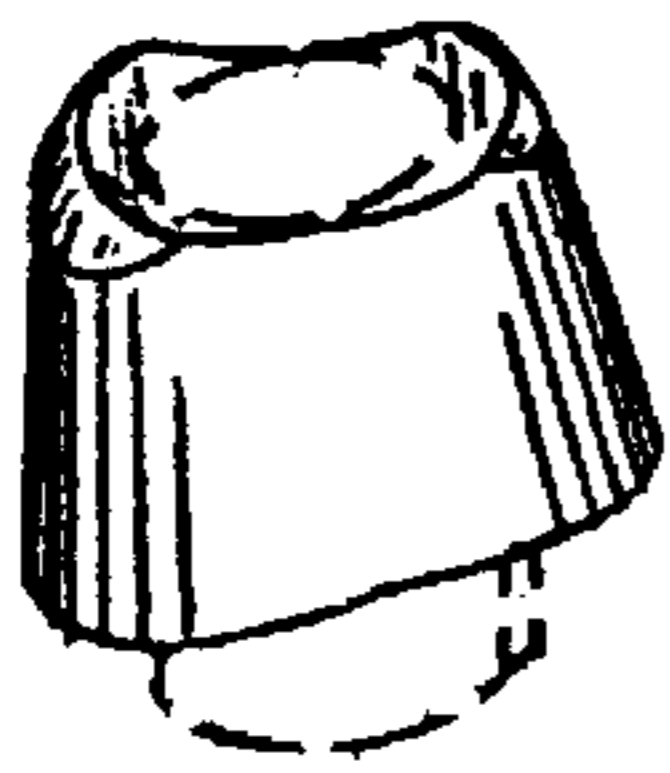


FIG. 15

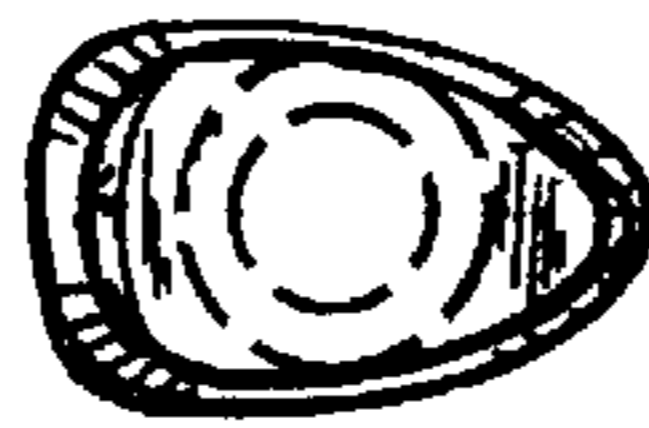


FIG. 16

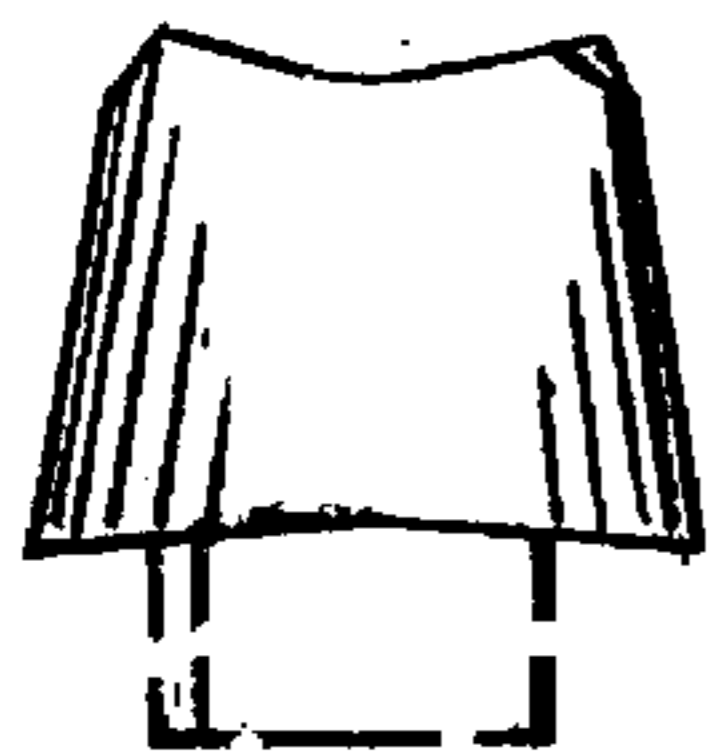


FIG. 19

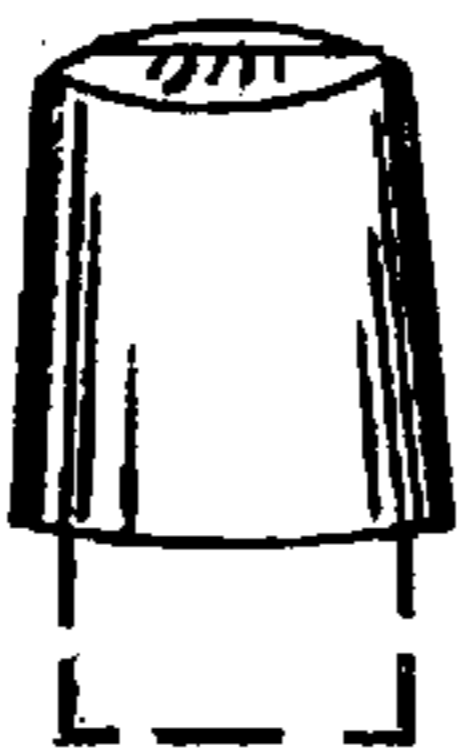


FIG. 18

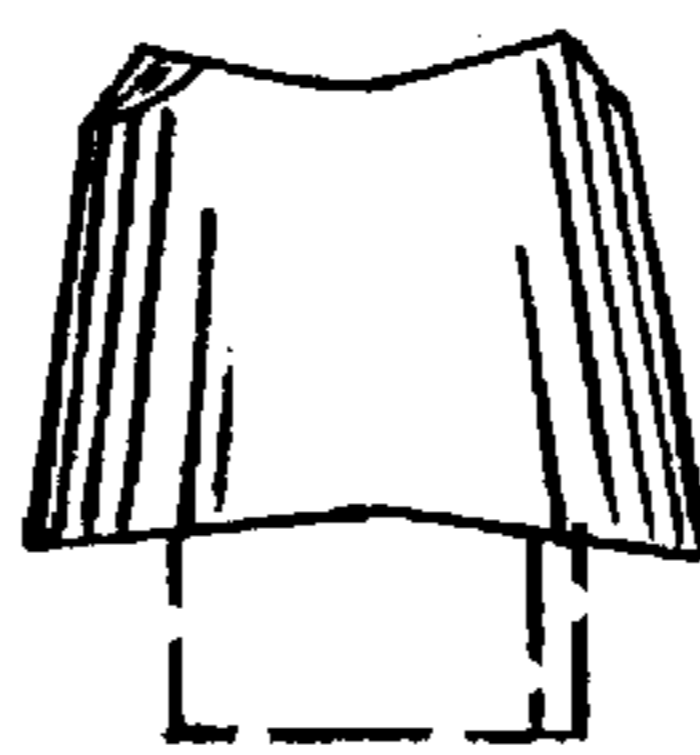


FIG. 17



FIG. 20



FIG. 21