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(12) **United States Design Patent** (10) **Patent No.:** **US D507,052 S**
Wohrle (45) **Date of Patent:** **** Jul. 5, 2005**

(54) **DENTAL IMPLANT**

FOREIGN PATENT DOCUMENTS

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DE	43 39 060 A1	9/1993
WO	WO 00/32134	6/2000
WO	WO 01/49199 A2	7/2001
WO	WO 01/50972 A2	7/2001
WO	WO 01/049199 A3	7/2001
WO	WO 03/00909	11/2003

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OTHER PUBLICATIONS

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Strub et al., "The Re Implant® System for Immediate Implant Placement". Journal of Esthetic Dentistry 1997, vol. 9, pp. 187-196.

(30) **Foreign Application Priority Data**

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(Continued)

(51) **LOC (8) Cl.** **24-03**

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

(58) **Field of Search** D24/155-157;
D8/387; 606/73, 232, 121.1; 623/28, 26,
32-36, 38

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(56) **References Cited**

(57) **CLAIM**

U.S. PATENT DOCUMENTS

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

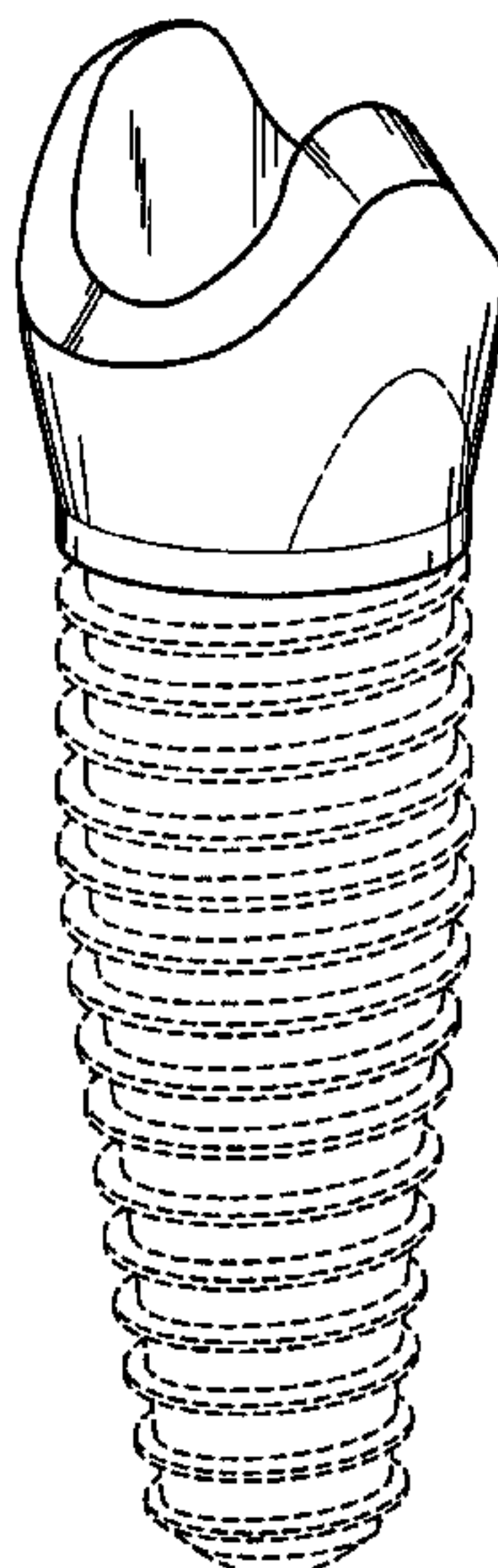
2,112,007 A	3/1938	Adams	
3,849,887 A	11/1974	Brainin	
D263,878 S	* 4/1982	Edwardson D24/156
4,416,629 A	11/1983	Mozxary et al.	
4,468,200 A	8/1984	Münch	
4,624,673 A	11/1986	Meyer	
D296,362 S	* 6/1988	Branemark D24/156
4,960,381 A	10/1990	Niznick	
5,004,422 A	4/1991	Propper	
5,035,619 A	7/1991	Daftary	
5,246,370 A	9/1993	Coatoam	
5,282,746 A	2/1994	Sellers et al.	
5,282,747 A	2/1994	Nordin	
5,310,343 A	5/1994	Hasegawa et al.	
5,417,568 A	5/1995	Giglio	
5,417,569 A	5/1995	Perisse	
5,431,567 A	7/1995	Daftary	
5,584,693 A	12/1996	Nishihara	

DESCRIPTION

This application claims priority under 35 USC §119 to European Community Design Application No. 000015532-0001, filed on Apr. 1, 2003, the disclosure of which is hereby incorporated by reference herein in its entirety.
FIG. 1 is a perspective view of a dental implant showing our new design;
FIG. 2 is a side elevation thereof, the side opposite being a mirror image;
FIG. 3 is an end elevation thereof the end opposite being a mirror image;
FIG. 4 is a bottom plan view thereof; and,
FIG. 5 is a top plan view thereof.
The broken lines shown in the drawings represent environment only and are not part of the ornamental design claimed.

(Continued)

1 Claim, 2 Drawing Sheets



U.S. PATENT DOCUMENTS

5,636,989	A	6/1997	Somborac et al.	
5,674,069	A	10/1997	Osorio	
5,759,034	A	6/1998	Daftary	
5,779,480	A	7/1998	Groll et al.	
D401,694	S	* 11/1998	Daftary	D24/155
5,931,675	A	8/1999	Callan	
5,989,027	A	11/1999	Wagner et al.	
5,989,029	A	11/1999	Osorio et al.	
6,024,567	A	2/2000	Callan	
6,123,710	A	* 9/2000	Pinczewski et al.	606/73
6,162,054	A	12/2000	Takacs	
6,164,969	A	12/2000	Dinkelacker	
6,174,167	B1	1/2001	Wöhrle	
6,217,331	B1	4/2001	Rogers et al.	
6,217,333	B1	4/2001	Ercoli	
6,227,858	B1	5/2001	Lundgren	
6,231,342	B1	5/2001	Osorio et al.	
D446,859	S	* 8/2001	Hurson	D24/156
6,280,195	B1	8/2001	Broberg et al.	
6,283,754	B1	9/2001	Wöhrle	
6,312,260	B1	11/2001	Kumar et al.	
6,350,126	B1	2/2002	Levisman	
D470,939	S	* 2/2003	Daftary	D24/156
D486,914	S	* 2/2004	Schulter et al.	D24/156
D487,153	S	* 2/2004	Schulter et al.	D24/156
D489,824	S	* 5/2004	Schulter et al.	D24/156
D493,535	S	* 7/2004	Whitehead	D24/156

OTHER PUBLICATIONS

Kohal et al., "Custom-made root analogue titanium implants placed into extraction sockets". *Clinical Oral Implants Research* 1997, vol. 8, pp. 386-392.

Heydecke et al., "Optimal Esthetics in Single Tooth Replacement with the Re-implant System: A Case Report". *The International Journal of Prosthodontics* 1999, vol. 12, pp. 184-189.

Gieloff et al., "Bio-Design-Implantate Soforimplantate mit dem Re Implant System", *ZWR*, 104. Jahrg. 1995, Nr. 4, pp. 252-256 (with translation).

Kohal et al., "Wurzellanaloge Titanimplantate (Bio-Design-Implantate) für die Sofortimplantation-Das Re-Implant-System". *Implantologie* 1996, vol. 2, pp. 99-115.

Baier, et al., "Future Directions in Surface Preparation of Dental Implants", *Journal of Dental Education*, 52:788-791.

Bengazi, et al., 1996, "Recession of the soft tissue margin at oral implants", *Clinical Oral Implants Research*, 7:303-310.

Brunski, John B., 1988, *Biomechanics of Oral Implants: Future Research Directions*, *Journal of Dental Education*, 52:775-787.

Buser, et al., 1991, "Tissue Integration of One-Stage ITI Implants: 3 year Results of a Longitudinal Study With Hollow-Cylinder and Hollow-Screw Implants.", *The International Journal of Oral & Maxillofacial Implants*, 6:405-412.

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

Chiche, et al., 1998, "Multidisciplinary Implant Dentistry for improved Aesthetics and Function", *Pract Periodont. Aesthet. Dent.*, 10:177-186.

Gomez-Roman, et al., 1997, "The Frialit-2 Implant System: Five-Year Clinical Experience in Single-Tooth and Immediately Postextraction Applications", *The International Journal of Oral & Maxillofacial Implant*, 12:299-309.

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

Kirsch, et al., 1989., "The IMZ Osteointegrated Implant System", *Dental Clinics of North America*, 33:733-791.

Krauser, 1989. "Hydroxylapatite-Coated Dental Implants. Biological Rational and Surgical Techniques". *Dental Clinics of North America*, vol. 33, No. 4, pp 879-903.

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

Meffert, Roland M., DDS, 1988, "The Soft Tissue Interface in Dental Implantology", *Journal of Dental Education*, 52:810-878.

Niznick, Gerald A., Oct. 1989, "A Multimodal Approach to Implant Prosthodontics", *Dental Clinics of North America*, 33:869-878.

Olsson, et al., 1995, "Mkl1—A Modified Self-Tapping Branemark Implant: 3-Year Results of a Controlled Prospective Pilot Study", *The International Journal of Oral & Maxillofacial Implant*, 10:15-21.

Prestipino, et al., Jan./Feb. 1993, "esthetic High-Strength Implant Abutments. Part 1", *Journal of Esthetic Dentistry*, p. 29-35.

W. Eugene Roberts, DDS, Ph.D., 1998, "Bone Tissue Interface", *Journal of Dental Education*, 52:804-809.

Saadoun, et al., 1998, "Peridontal Implications in Implant Treatment Planning of Aesthtic Results", *Pract. Periodont. Asthet. Dent.*, 10:655-664.

Schnitman, et al., 1988, *Implants for Partial Edentulism*, *Journal of Dental Education*, 52:725-736.

Siegele, et al., 1989, "Numerical Investigations of the Influence of Implant Shape on Stress Distribution in the Jaw Bone", *the International Journal of Oral & maxillofacial Implants*, 4:333-340.

Sullivan, et al., May/Jun. 1993, "Considerations for Successful Single tooth Implant Restorations", *Journal of Esthetic Dentistry*, 5:119-124.

Wennerberg, et al., "Design and Surface Characteristics of 13 Commercially Available Oral Implant Systems", *International Journal of Oral & Maxillofacial Implants*, 8:622-633.

F.A. Young, D.Sc., 1988, "Future Directions in Dental Implants Materials Research", *Journal of Dental Education* 52:770-774.

* cited by examiner

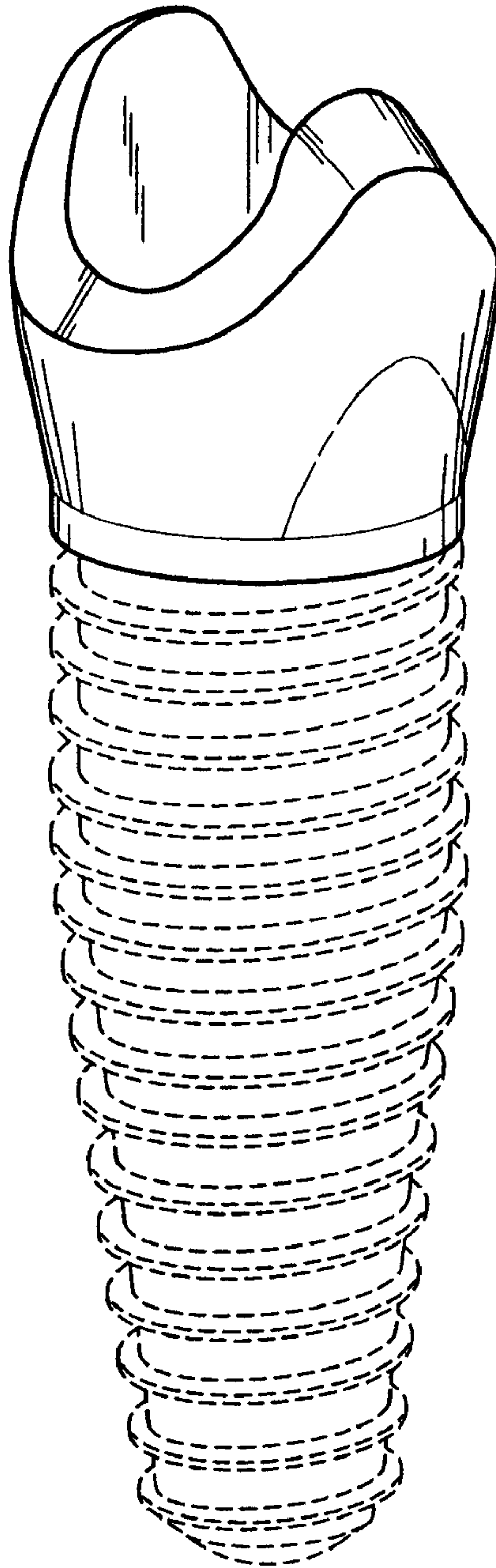


FIG. 1

FIG. 3

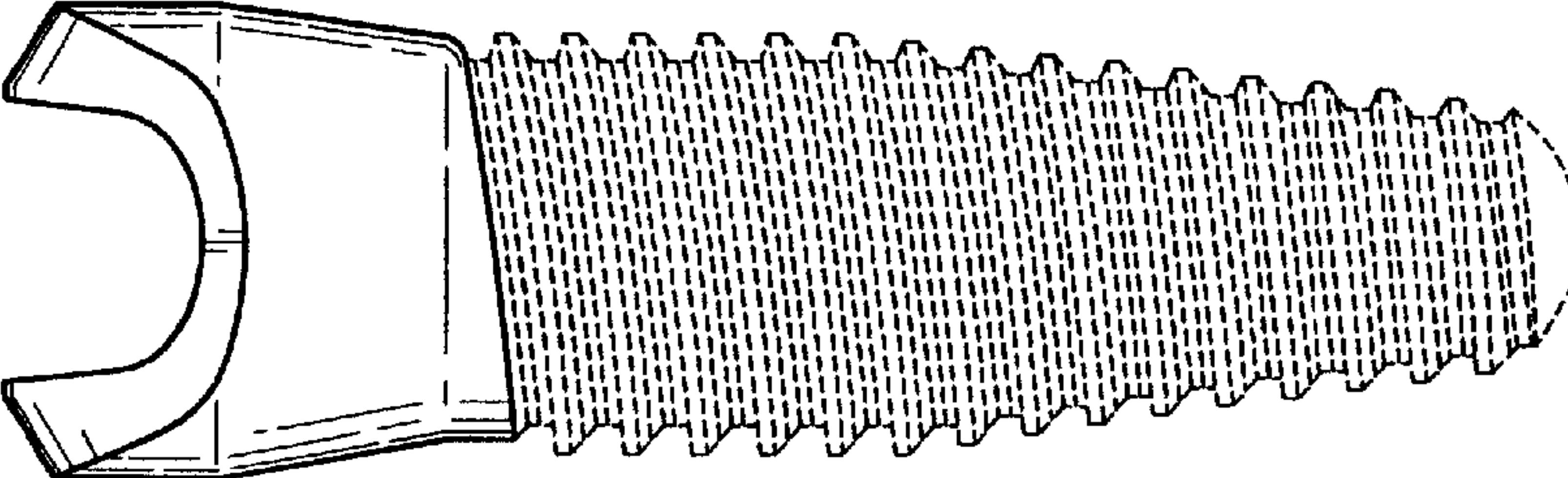


FIG. 5

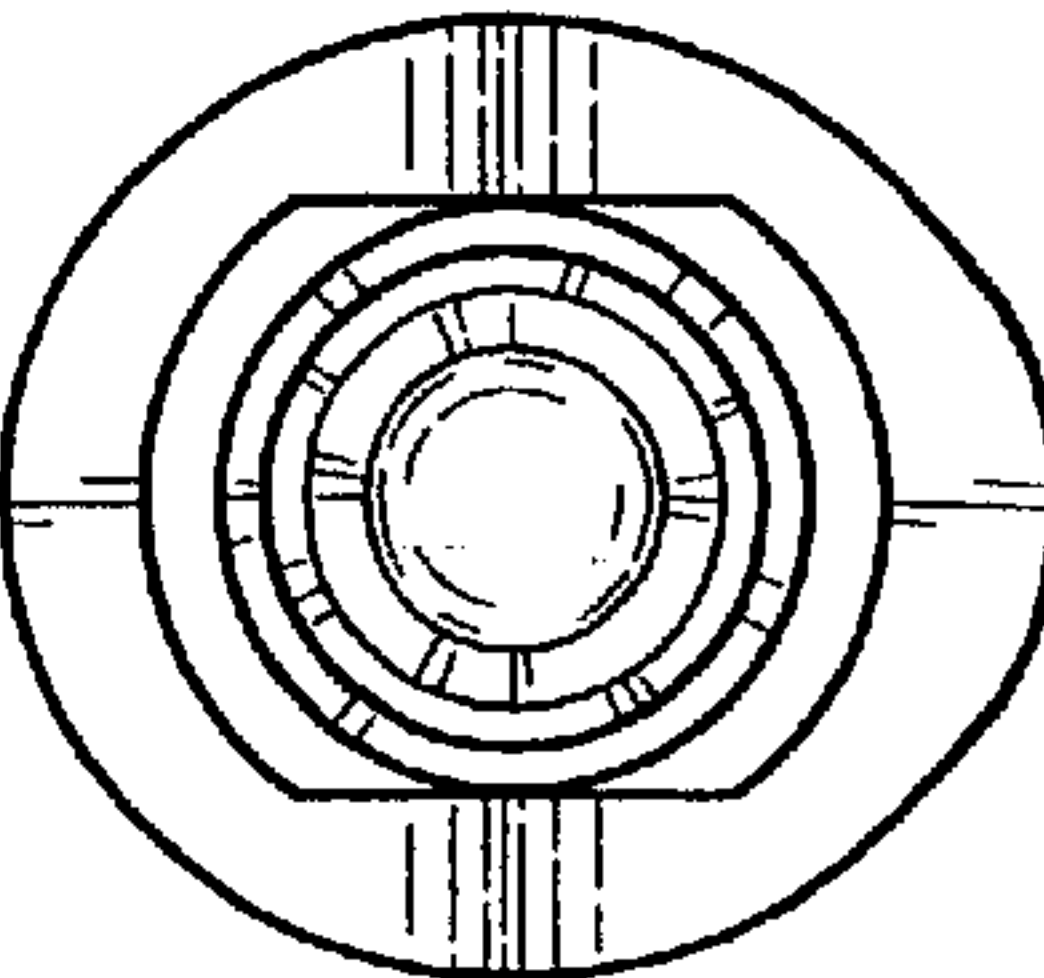


FIG. 2

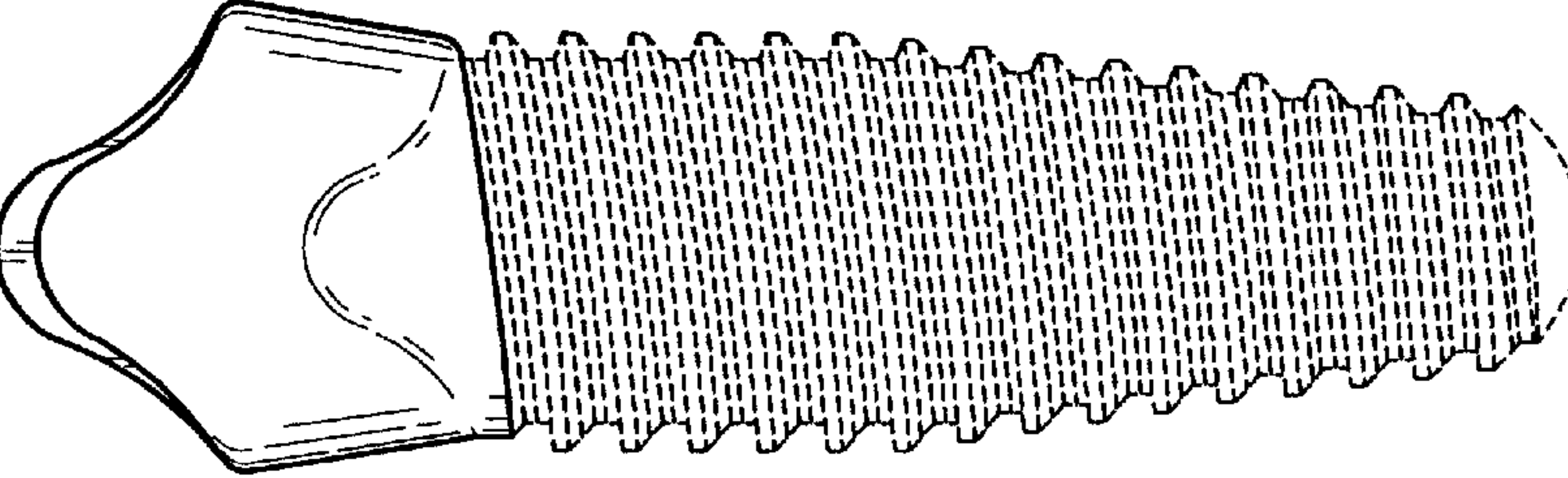


FIG. 4

