



US00D407157S

**United States Patent** [19]  
**Malewicz**

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[45] **Date of Patent: \*\*Mar. 23, 1999**

- [54] **VAGINAL ELECTRODE**
- [75] Inventor: **Andrzej M. Malewicz**, Minneapolis, Minn.
- [73] Assignee: **Empi, Inc.**, St. Paul, Minn.
- [\*\*] Term: **14 Years**
- [21] Appl. No.: **72,697**
- [22] Filed: **Jun. 24, 1997**
- [51] **LOC (6) Cl.** ..... **24-02**
- [52] **U.S. Cl.** ..... **D24/141**
- [58] **Field of Search** ..... D24/141, 138, D24/133, 200; 607/138, 116, 76; 600/373, 184, 220; 128/639, 642, 733

- 0 219 410 A1 4/1987 European Pat. Off. .
- 2547203 6/1983 France .
- 2622458 5/1989 France .
- 88 07 820 U 9/1988 Germany .
- 4022074 A1 2/1992 Germany .
- WO 84/01515 4/1984 WIPO .

**OTHER PUBLICATIONS**

*The Shape of Anal Electrode*, Alexander Perelman, M.D., Ph.D. Sep. 14, 1993.  
*Electrical Treatment of Incontinence*, Brit. J. Surg. 1967, vol. 54, No. 9, Sep.  
*The Pressure Exerted by the External Sphincter of the Urethra When Its Motor Nerve Fibres Are Stimulated Electrically*, British Journal of Urology, (1974), 46, 453–462.  
*Effects of External and Direct Pudendal Nerve Maximal Electrical Stimulation in the Treatment of the Uninhibits Overactive Bladder*, British Journal of Urology (1989), 64, 374–380.  
*Management of Urinary Incontinence with Electronic Stimulation: Observations and Results*, The Journal of Urology, vol. 116, Dec.  
*The Treatment of Femal Urinary Incontinence by Functional Electrical Stimulation*, Urogynecology and Urodynamics Ed. by D.R. Ostegard and A.E. Ben, 1991.  
*Treatment of Urinary Incontinency by External Stimulating Devices*, Urol. Int. (1974), 29, 450–457.

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[57] **CLAIM**

The ornamental design for a vaginal electrode, as shown and described.

**DESCRIPTION**

FIG. 1 is a perspective view;  
 FIG. 2 is a side elevational view, the undisclosed sides being the same and the broken lines shown are for illustrative purposes only, forming no part of the claimed design;  
 FIG. 3 is a top plan view; and,  
 FIG. 4 is a bottom plan view.

[56] **References Cited**

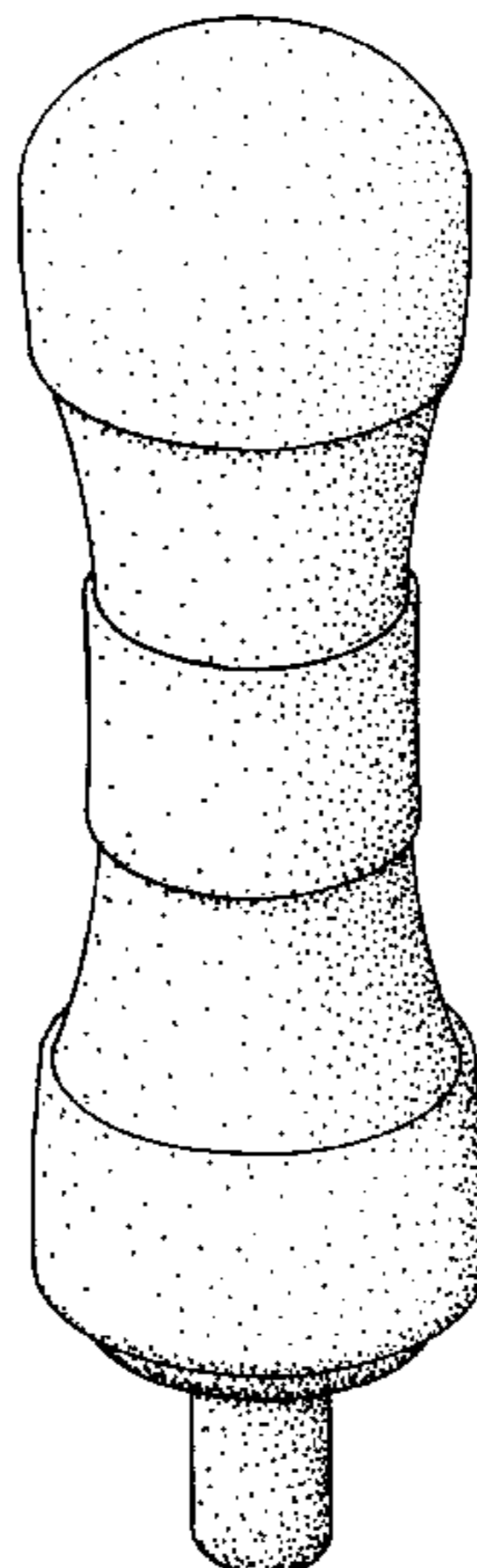
**U.S. PATENT DOCUMENTS**

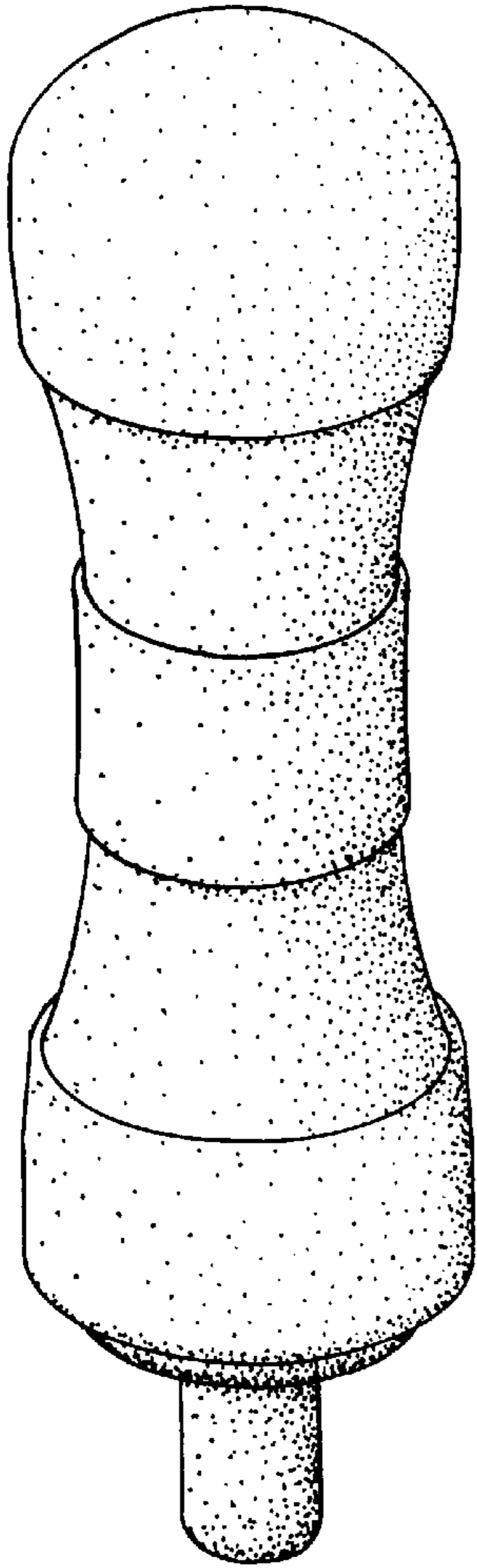
1,704,000	3/1929	Herwig et al. ....	607/138
2,085,644	6/1937	Ferciot .....	607/138
2,126,257	9/1938	Hird .	
3,650,275	3/1972	Von Der Mosel .....	607/138
3,749,100	7/1973	Van Der Mosel .....	607/76 X
3,800,800	4/1974	Garbe et al. ....	128/408
3,933,147	1/1976	Du Vall et al. ....	128/2 S
4,106,511	8/1978	Erlandsson .....	128/407
4,785,828	11/1988	Maurer .....	128/788
4,817,611	4/1989	Arzbaecher et al. ....	128/642
4,873,996	10/1989	Maurer .....	128/844
4,881,526	11/1989	Johnson et al. ....	128/24.5
4,909,263	3/1990	Norris .....	128/788
5,199,443	4/1993	Maurer et al. ....	128/138
5,314,465	5/1994	Maurer et al. ....	607/138
5,370,671	12/1994	Maurer et al. ....	607/138
5,376,206	12/1994	Maurer et al. ....	24/883
5,385,577	1/1995	Maurer et al. ....	607/138
5,456,709	10/1995	Hamedi .....	607/138
5,464,448	11/1995	Malewicz .....	607/138
5,486,160	1/1996	Rossi et al. ....	607/138 X
5,516,396	5/1996	Maurer et al. ....	607/138 X

**FOREIGN PATENT DOCUMENTS**

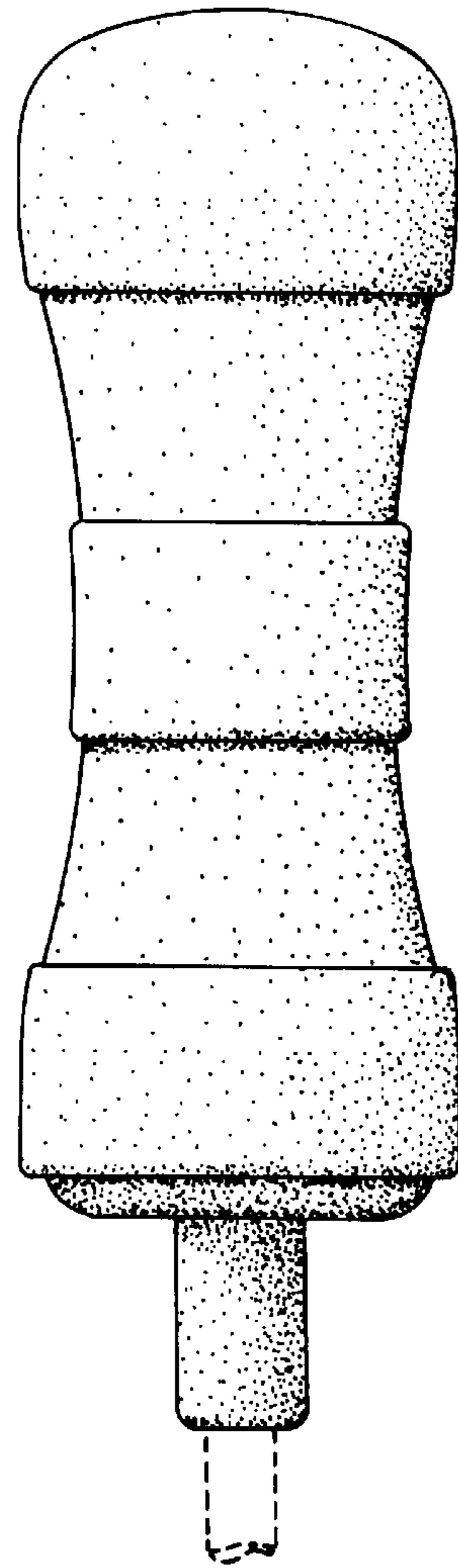
0178514 4/1986 European Pat. Off. .

**1 Claim, 1 Drawing Sheet**

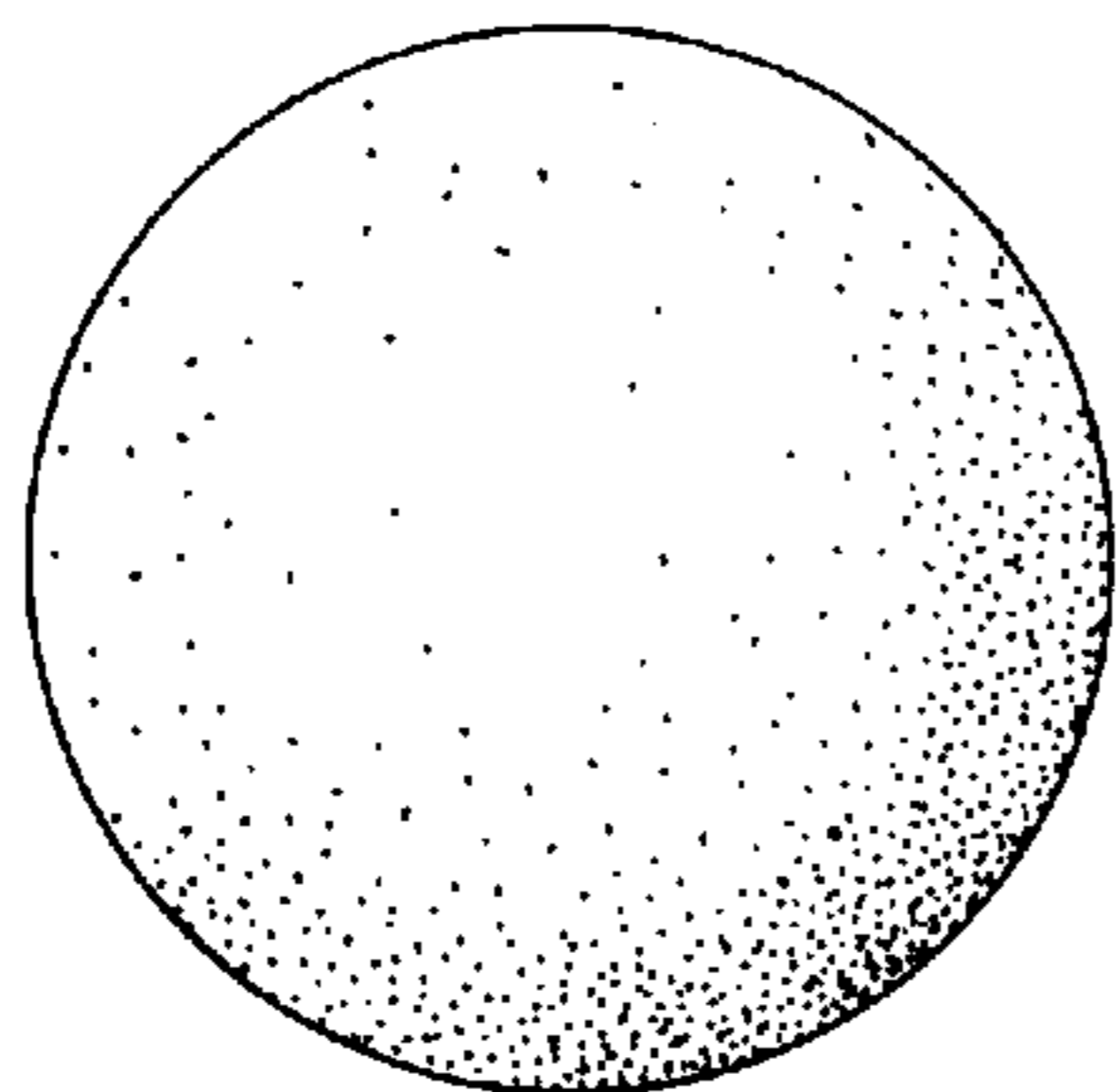




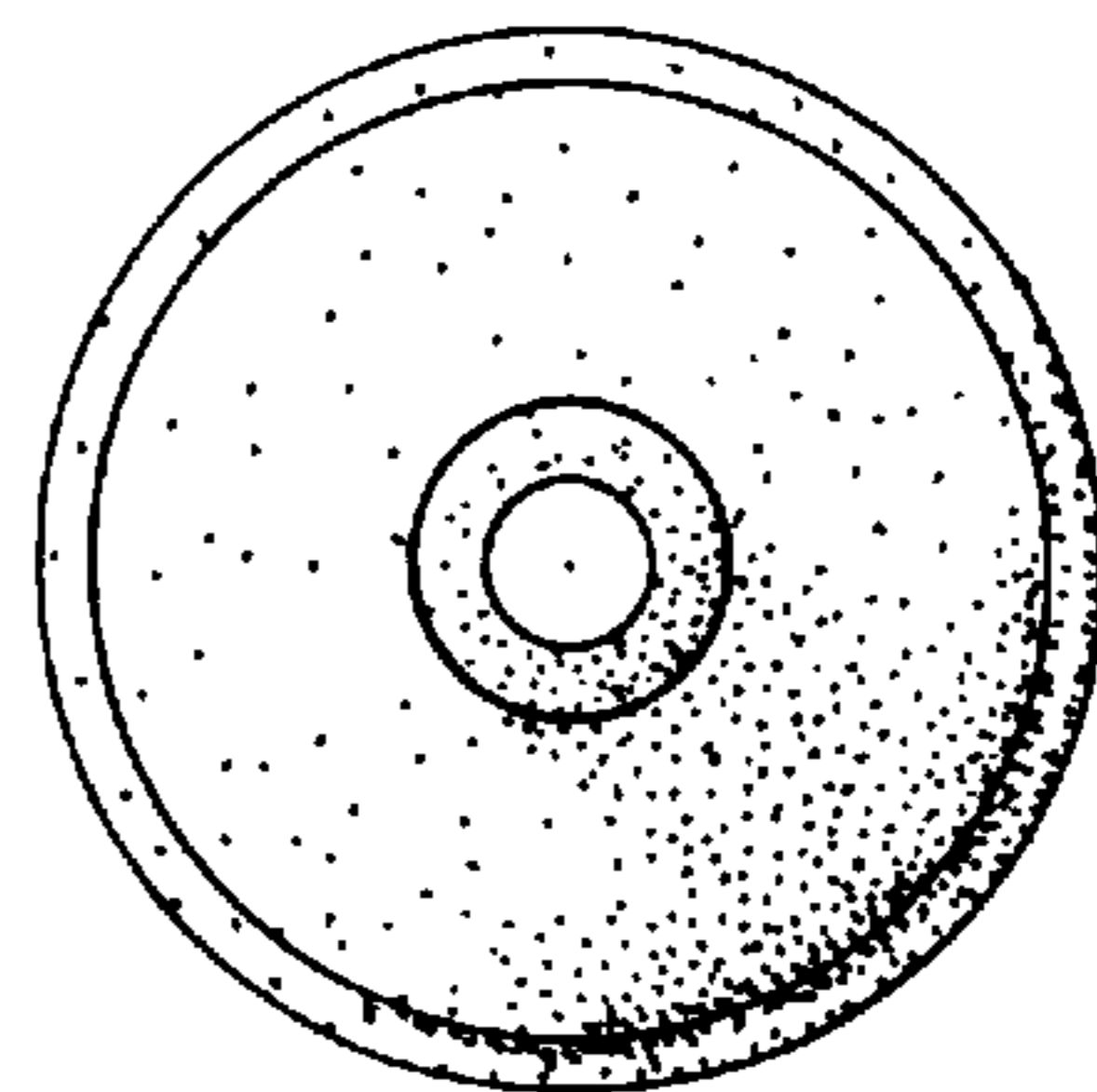
*Fig. 1*



*Fig. 2*



*Fig. 3*



*Fig. 4*