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United States Patent [19]

Malewicz

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[54] **VAGINAL ELECTRODE**

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[73] Assignee: **Empi, Inc.**, St. Paul, Minn.

[**] Term: **14 Years**

[21] Appl. No.: **72,697**

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[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

[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 Mozel	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. .	
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

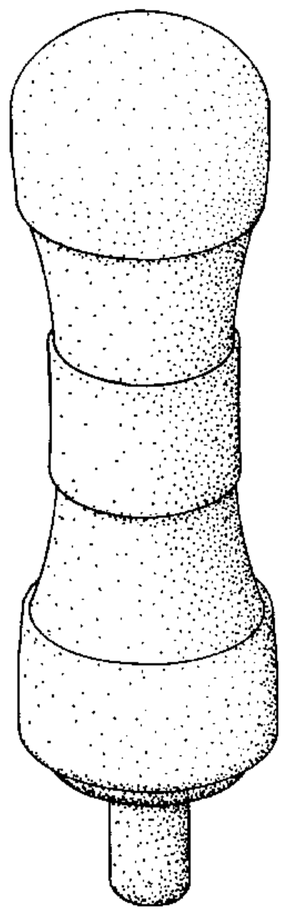
FIG. **1** is a perspective view;

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.

1 Claim, 1 Drawing Sheet



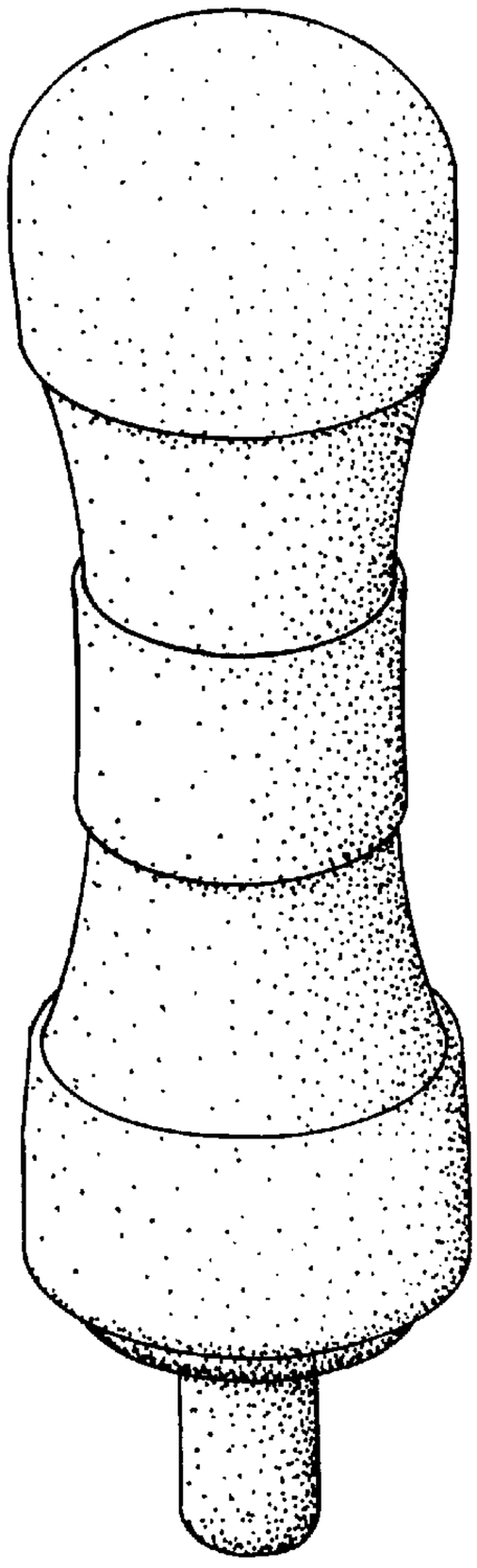


Fig. 1

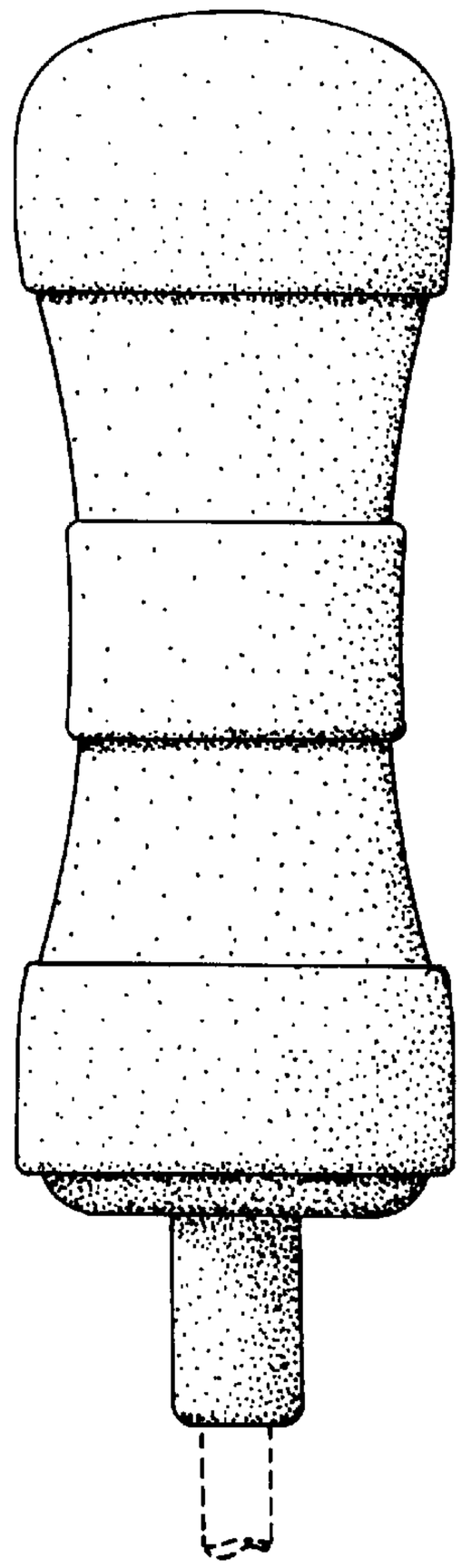


Fig. 2

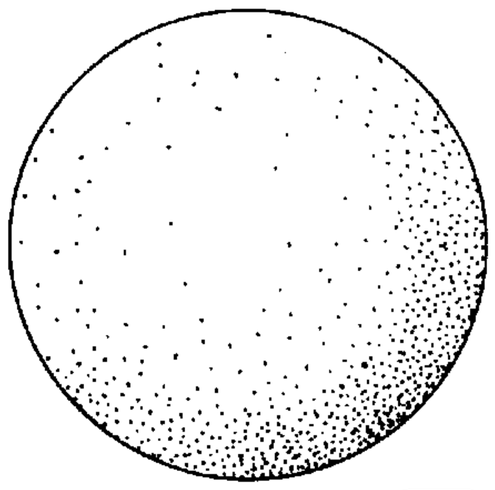


Fig. 3

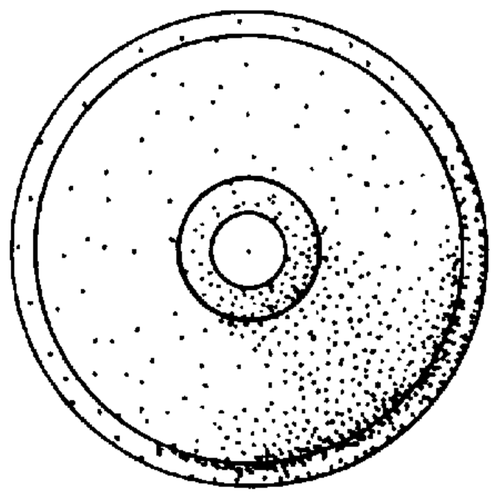


Fig. 4