

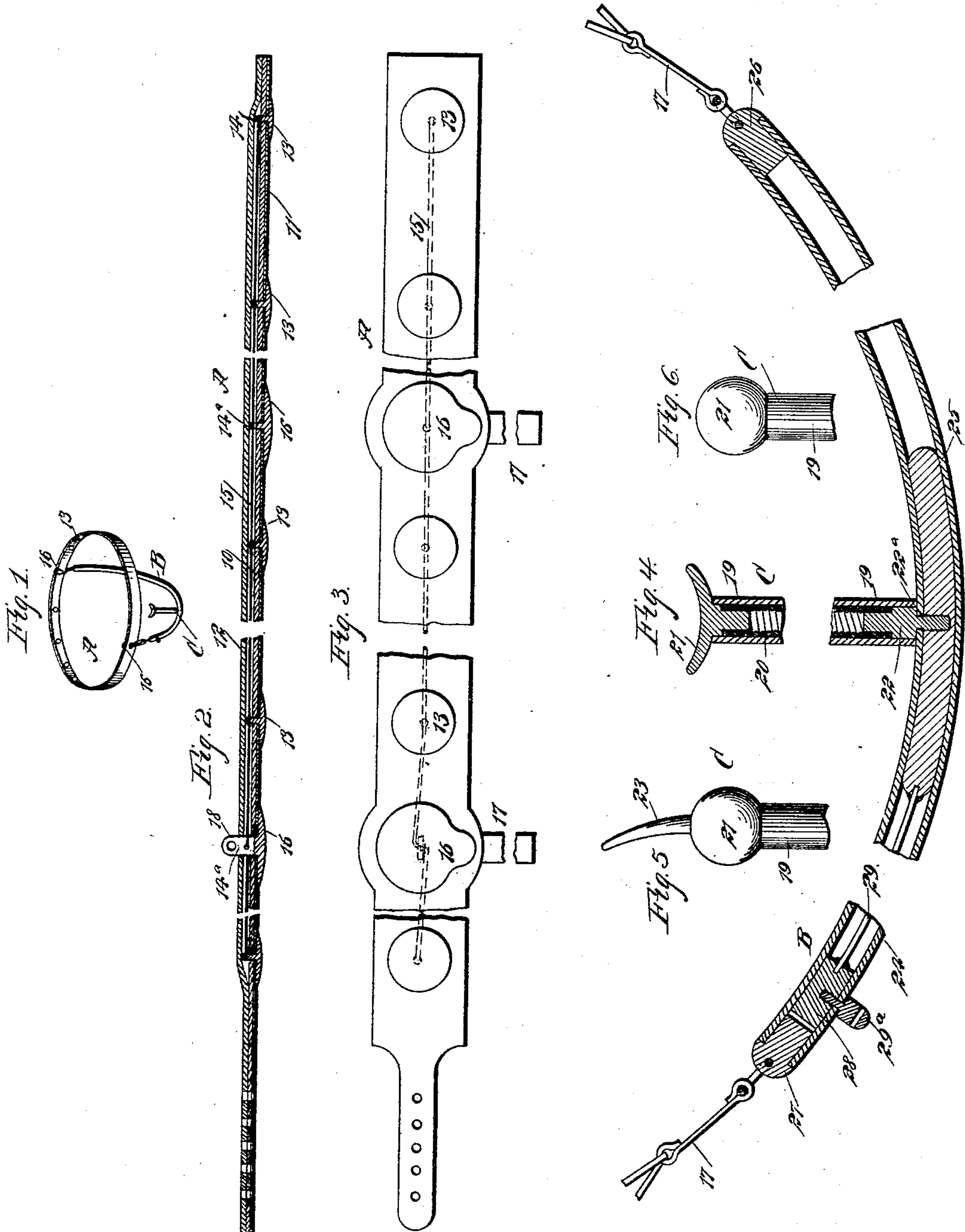
No. 632,559.

Patented Sept. 5, 1899.

J. A. FREEMAN.  
ELECTROMEDICAL APPLIANCE.

(Application filed May 10, 1899.)

(No Model.)



WITNESSES:

L. Almqvist.  
J. A. Freeman.

INVENTOR  
John A. Freeman.  
BY *Munn*  
ATTORNEYS



# UNITED STATES PATENT OFFICE.

JOHN ANDREW FREEMAN, OF BEARD, KENTUCKY.

## ELECTROMEDICAL APPLIANCE.

SPECIFICATION forming part of Letters Patent No. 632,559, dated September 5, 1899.

Application filed May 10, 1899. Serial No. 716,236. (No model.)

*To all whom it may concern:*

Be it known that I, JOHN ANDREW FREEMAN, of Beard, in the county of Oldham and State of Kentucky, have invented a new and

Improved Medical Appliance, of which the following is a full, clear, and exact description.

The object of the invention is to combine in one appliance a belt-electrode, a perineal band, and a uterine electrode, and means for applying a current thereto, thus forming a convenient, safe, and useful device for home treatment by the use of an electric current applied by an induction-coil or galvanic battery.

Another object of the invention is to provide a simple and economic appliance that will fill a long-felt want in the home treatment of the manifold diseases of women and whereby the patient can obtain the benefit guaranteed by a regular and systematic use of electricity in a mild current, applied by herself and in the privacy of home, and which will save the expense, inconvenience, and exposure of person involved in frequent visits to a doctor's office.

The invention consists in the novel construction and combination of the several parts, as will be hereinafter fully set forth, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a perspective view of the appliance, drawn on a small scale. Fig. 2 is a longitudinal section through the belt-electrode or perineal belt. Fig. 3 is an inner face view of the said belt. Fig. 4 is a longitudinal section through the perineal band and uterine electrode; and Figs. 5 and 6 are side elevations of the upper end portions of a uterine electrode, showing different forms of heads therefor.

The perineal belt or belt-electrode A consists of a leather body 10, a lining 11, of silk or other soft material, and an outer facing 12, of satin, leather, or canvas, or a like material. A series of metal disks 13 is located upon the inner face of the belt, each provided, preferably, with a flexible copper fastening 14, that extends through the lining and body of the

belt, being there connected with a flexible copper wire 15, extending around the belt. The ends of the belt may be connected in any desired manner.

In addition to the plain disks 13 pear-shaped disks 16 are employed, also upon the inner face of the belt. These pear-shaped disks are usually two in number and are so placed that when the belt is worn one will rest upon the median line of the body above the pubic arch in front and the other will rest on and in a line with the spinal column behind. The pear-shaped disks 16 are provided with fastenings 14<sup>a</sup>, connected with the wire 15, and the belt at the back and front is provided with straps 17 for attachment to a perineal band B, bearing the uterine electrode C, to be hereinafter described. One of the pear-shaped disks is provided with a metal extension 18, that projects beyond the front of the belt, in which extension an opening is made for the conducting-cord from an induction-coil or other source of electric supply when the belt-electrode and perineal band and uterine electrode are in use.

The uterine electrode C consists of a section of rubber tubing 19, serving as an insulator, a flexible wire coil 20, contained within the tubing, a metal head 21, fitted in one end of the tubing and coil, and a foot-block 22, also of metal, fitted in the bottom of the coil and tubing. The block is provided with a threaded stem 22<sup>a</sup>, adapted for attaching the uterine electrode to the perineal band B.

The head 21 may be of any shape. In Fig. 4 it is shown cup-shaped, in Fig. 6 as ball-shaped, and in Fig. 5 as a ball provided with a horn 23. The uterine electrode C is detachable from the perineal band B, and said band consists of a section of rubber tubing 24, that connects with the tubing 19, thus insulating all the metal parts of the band, a curved metal bar 25, located within the central portion of the body-tubing 24 and provided with a socket receiving the metal stem of the uterine electrode, two metal end plugs 26 and 27, and a short end bar 28, connected by a flexible wire 29 with the central bar 25. The short end bar 28 is provided with a post 29<sup>a</sup>, adapted for attachment to a conducting-cord from a source of electric supply, and the



plugs 26 and 27 are provided with means for attachment to the front and back straps 17 of the belt A.

By putting on the belt and connecting the  
5 perineal band behind and then introducing the attached uterine electrode and attaching the perineal band in front, which will hold the uterine electrode well in place, the hands are left free to connect the conducting-cords  
10 to the battery and the necessary parts of the appliance. When these connections have been made, the hands are still free to hold a small induction-coil and regulate the current. Thus after a bath and in the privacy of home  
15 one is enabled to enjoy the stimulating and health-giving power of one of the greatest re-newers of life.

Having thus described my invention, I claim as new and desire to secure by Letters  
20 Patent—

1. In a medical appliance, the combination, with a belt-electrode provided with a series of metal disks exposed at one side of the belt, one of said disks having a projection adapted  
25 for attachment to a conducting-cord, and a wire connection between the inner portions of all of said disks, of a perineal band comprising a body of insulated material, metal bars located within the said body, said bars  
30 being connected and one of the bars provided with means for attachment to a conducting-cord, and a flexible uterine electrode, having a metal connection with one of the body-bars, the said uterine electrode being provided with  
35 a head that is a conductor of electricity, for the purpose specified.

2. The combination, with a belt-electrode, a perineal band and means for supporting said perineal band from said belt-electrode,  
40 the perineal band being provided with means for connecting with conducting-cords, of a uterine electrode removably connected with said perineal band, the said electrode consisting of rubber tubing or body, a metal coil  
45 within the tubing, a foot and a removable

head, both the foot and the head being conductors of electricity, as described.

3. A medical appliance having a belt an electrode carried thereon and arranged for exterior contact with the person's body, a  
50 perineal band supported from the belt, a uterine electrode carried by the band and insulated from the electrode of the belt, a conducting device in electrical connection with the electrode of the belt and a second con-  
55 ducting device separate from the first-named conducting device, the second conducting device having electrical connection with the uterine electrode.

4. A medical appliance having a belt, an  
60 electrode thereon, a perineal band supported from the belt and comprising an insulating-tube, a conducting-bar mounted within the insulating-tube of the perineal band, a uterine electrode having electrical connection  
65 with the said conducting-bar, and electrical connections for the said bar and belt-electrode.

5. A medical appliance, having a uterine electrode formed with a flexible conducting  
70 body member, a conducting-head attached thereto, and a flexible non-conducting tube inclosing the body member and exposing the head.

6. A medical appliance, having a belt with  
75 a non-conducting front and back portion, electrodes located on the outside of the belt and having fastenings that extend into the space between the front and back portions of the belt, and a wire located between such por-  
80 tions of the belt and electrically connecting the electrodes, the fastenings of one electrode being extended through the belt to the outside thereof to form a means for connecting the belt with a source of electricity.

JOHN ANDREW FREEMAN.

Witnesses:

Z. A. CLOSE,  
H. C. DUNCAN.