

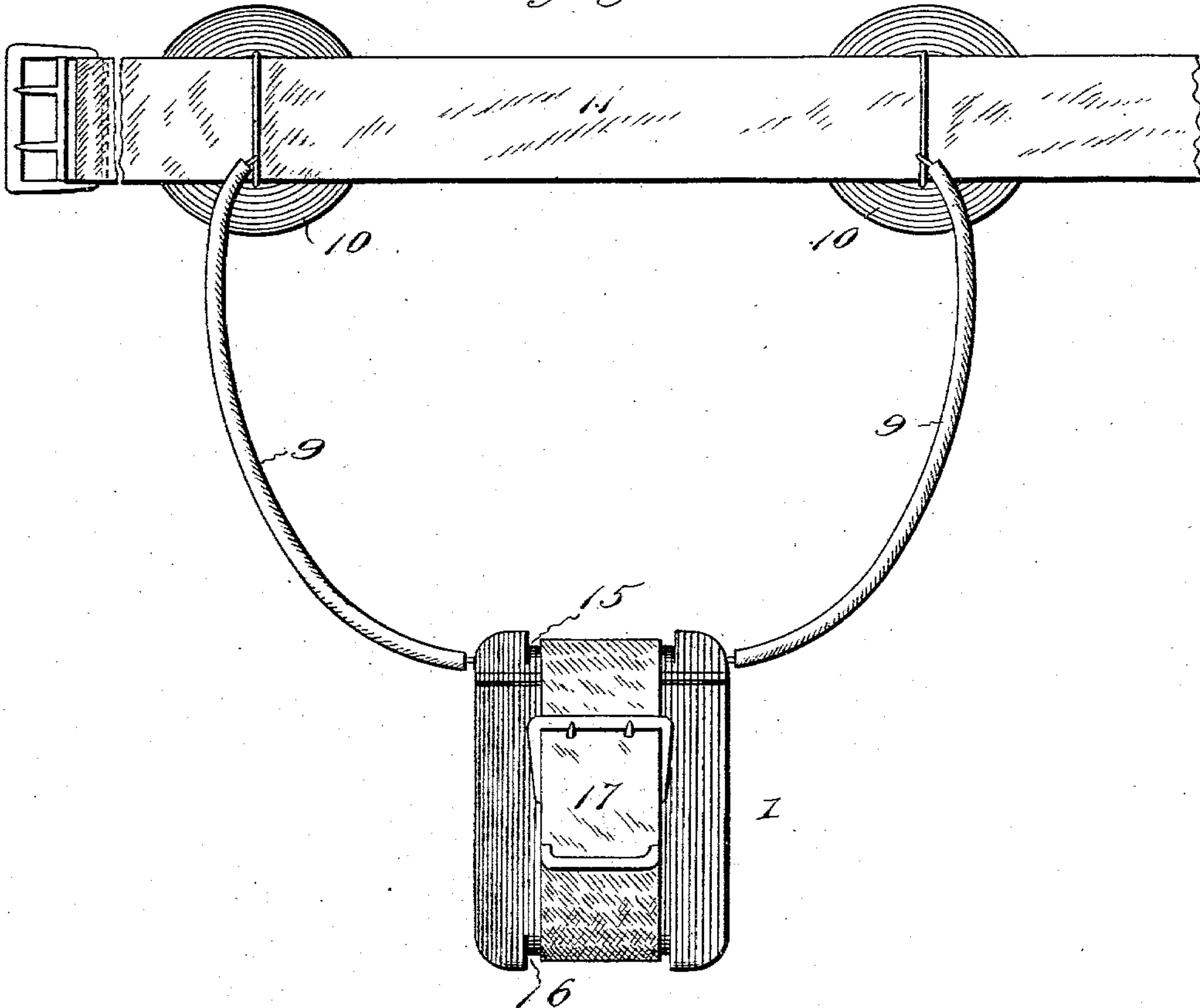
No. 721,032.

PATENTED FEB. 17, 1903.

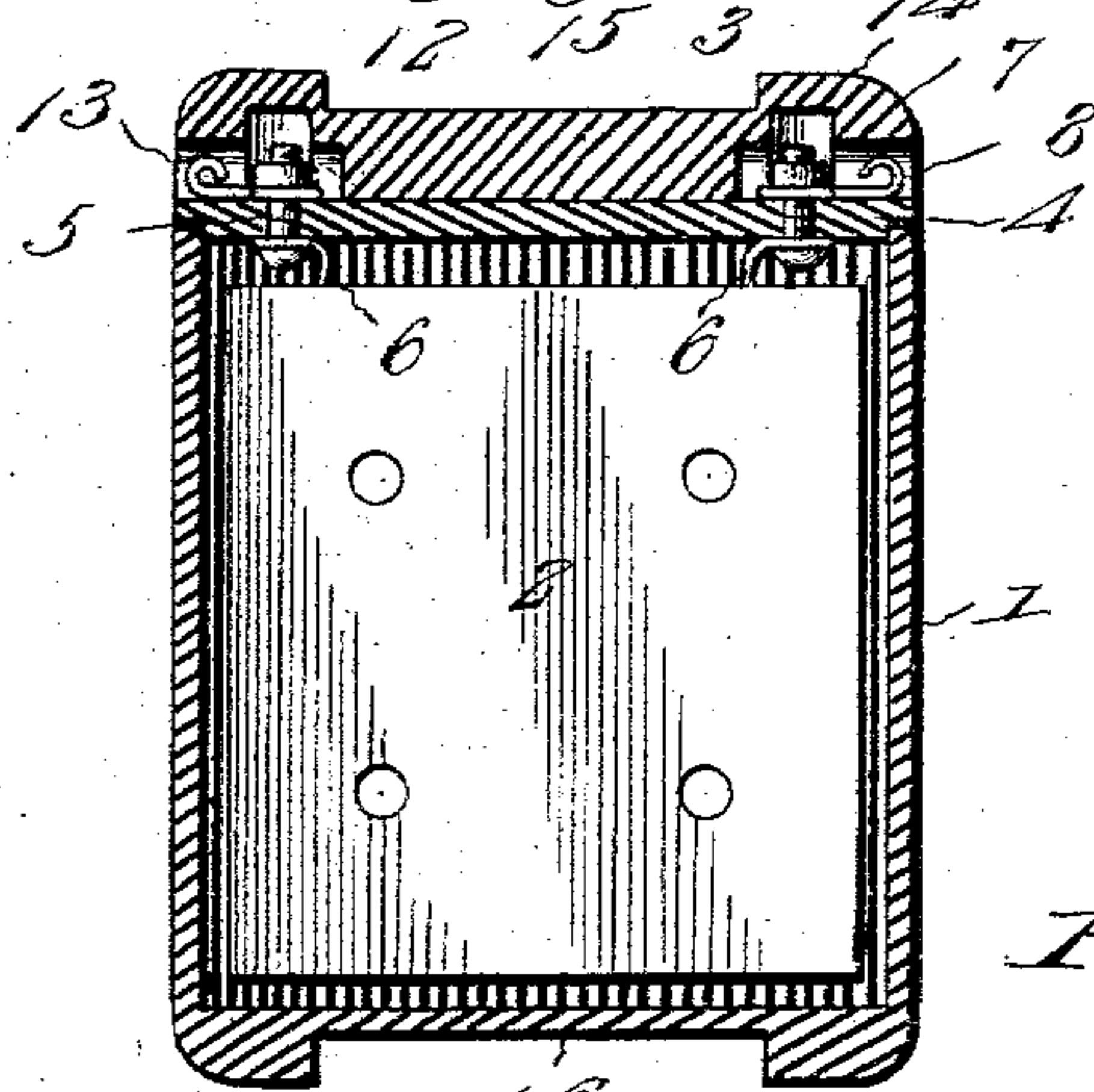
F. FARMER.  
ELECTROMEDICAL BELT.  
APPLICATION FILED NOV. 29, 1902.

NO MODEL.

*Fig. 1.*



*Fig. 2.*



Witnesses

*Wm. North*  
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By

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# UNITED STATES PATENT OFFICE.

FRANK FARMER, OF RICHMOND, INDIANA.

## ELECTROMEDICAL BELT.

SPECIFICATION forming part of Letters Patent No. 721,032, dated February 17, 1903.

Application filed November 29, 1902. Serial No. 133,210. (No model.)

*To all whom it may concern:*

Be it known that I, FRANK FARMER, a citizen of the United States, residing at Richmond, in the county of Wayne and State of Indiana, have invented new and useful Improvements in Electromedical Belts, of which the following is a specification.

My invention relates to new and useful improvements in electromedical belts, and more especially to the battery used in connection therewith; and its object is to provide a cell of novel construction having means whereby the binding-posts thereon may be covered, and thereby prevented from injuring the body of the wearer.

Another object is to employ means for securely fastening the parts of the cell together.

With the above and other objects in view the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is an elevation of a medical belt having my improved cell connected thereto, and Fig. 2 is a vertical transverse section through the cell.

Referring to the figures by numerals of reference, 1 is a flat and substantially rectangular cell having its edges rounded to present smooth surfaces to the body of the wearer. This cell is preferably formed of hard rubber and is provided inside with battery-plates 2 or other suitable means for producing electricity. A cover 3 is fitted snugly within the top of the cell, and a soft rubber washer 4 is preferably interposed therebetween to form an air-tight joint. The binding-posts 5 of the battery are detachably fitted in the cover 3, preferably near opposite ends thereof, and are connected, respectively, to the positive and negative plates 2 within the cell by means of wires 6. These posts are screw-threaded and extend above the cover 3, and each is provided with a nut 7, which serves to bind to the post a hooked strip 8, arranged longitudinally upon the cover and extending adjacent to the end thereof. Each hook is adapted to be engaged by the looped end of a wire 9, and these wires are connected to

positive and negative plates or disks 10, arranged adjustably upon a belt 11.

A cap 12 is adapted to be secured upon the cover 3 and shield the body of the wearer from contact with the binding-posts, hooks, and ends of the wires. This cap is recessed longitudinally in its bottom surface at each end, as shown at 13, such recesses being of sufficient depth to receive the heads of the posts 5, the hooks 8, and the ends of the wires secured to said hooks. The nuts 7 are round and fit snugly within cylindrical recesses 14, extending inward transversely of the recesses 13, and these nuts therefore serve to retain the cap in proper position upon the cover. A recess 15 is formed in the top of the cap 12, and a similar one, 16, is in the bottom of the cell. These recesses have their edges rounded and are adapted to receive an elastic strap 17, having a buckle 18 or other means for securing it within the recesses and binding the cap upon the cell.

It will be seen that the cell is extremely simple in construction, and all rough or uneven parts thereof are located out of contact with the body of the wearer.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make such changes as fairly fall within the scope of my invention.

I claim—

1. In an electric battery a cell having binding-posts extending therefrom, a cap upon the cell and extending over the posts, said posts being adapted to prevent lateral displacement of the cap, and means for securing the cap to the cell.

2. In an electric battery, a cell having binding-posts extending therefrom, hooks secured to said posts, a recessed cap upon the cell, the recesses of said cap being adapted to receive the posts and hooks whereby lateral displacement of the cap is prevented, and means for securing the cap to the cell.

3. In an electric battery a cell having a recessed bottom, a cover fitted on said cell, binding-posts extending from the cover, hooks se-



- cured to the posts, a cap having a recess in the top thereof and recesses in its bottom face, said bottom recesses being adapted to receive the posts and hooks and the ends of wires secured to the hooks, whereby lateral displacement of the cap is prevented, and a strap within the recess of the cell-bottom and the top recess of the cap and adapted to bind said cell and cap together.
- 10 4. In an electromedical belt the combination with a belt, plates thereon and wires extending therefrom, of a battery-cell having a recessed bottom, a cover fitted on said cell, binding-posts extending from the cover, hooks  
15 secured to the posts, a cap having a recess in the top thereof and recesses in its bottom face, said bottom recesses being adapted to receive the posts and hooks and the ends of wires secured to the hooks, whereby lateral displacement of the cap is prevented, and a strap within the recess of the cell-bottom and the top recess of the cap and adapted to bind said cell and cap together.
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In testimony whereof I affix my signature in presence of two witnesses.

FRANK FARMER.

Witnesses:

ROBT. E. FARMER,  
HERBERT J. FARMER.