(No Model.)

F. A. BREWSTER.

ELECTRIC BELT.

No. 524,664. Patented Aug. 14, 1894.

Fig 1.

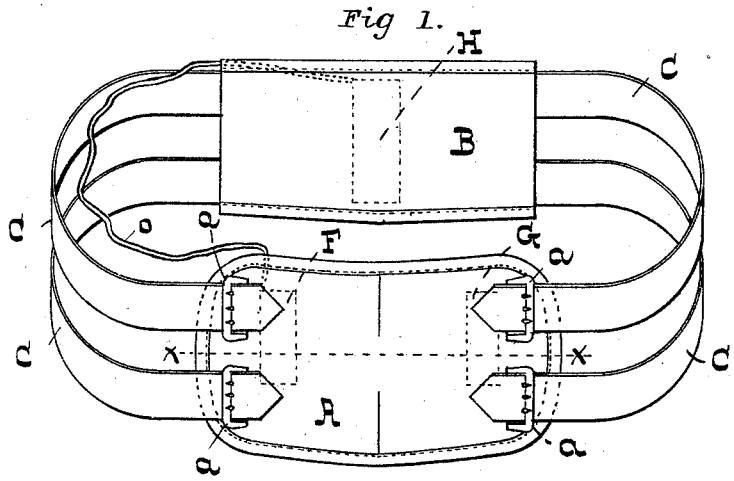


Fig 2

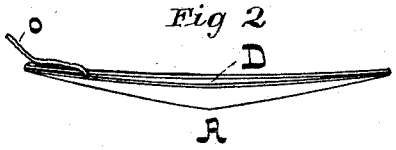


Fig 6

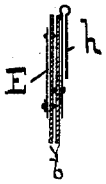


Fig 4.

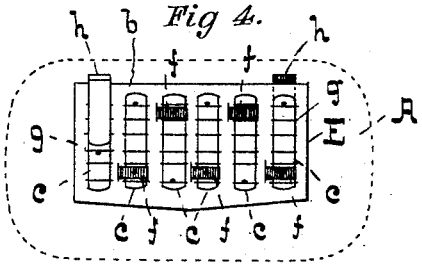


Fig 3.

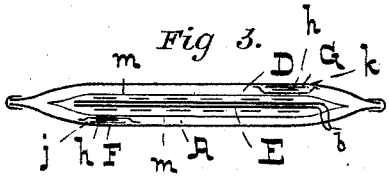
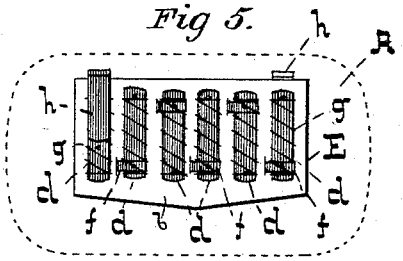


Fig 5.



-WITNESSES-

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by Wm. W. J. Thwaid, Atty.

UNITED STATES PATENT OFFICE.

FLORA A. BREWSTER, OF BALTIMORE, MARYLAND, ASSIGNOR TO HENRY L. FAIRCHILD, OF SAME PLACE.

ELECTRIC BELT.

SPECIFICATION forming part of Letters Patent No. 524,664, dated August 14, 1894.

Application filed June 2, 1894. Serial No. 513,234. (No model.)

To all whom it may concern:

Be it known that I, FLORA A. BREWSTER, of the city of Baltimore and State of Maryland, have invented certain Improvements in Electric Belts, of which the following is a specification.

In the description of my improved electric belt which follows, reference is made to the accompanying drawings forming a part hereof, and in which—

Figure 1 is a perspective view of the improved belt. Fig. 2 is a top view of the front support. Fig. 3 is a section of Fig. 1 taken on the dotted line *x*—*x*. Figs. 4, 5 and 6 are, respectively, a front, a rear and an edge view of the battery forming a part of the invention.

Referring now to the drawings, A is the front support and B the rear support of the belt, connected by straps C and buckles *a*.

The front support A is gored at the top and bottom so as to make it fit the lower part of the abdomen of the wearer and it is formed primarily of two thicknesses of drilling, sateen or any other suitable material sewed together at the lower edge, and at the ends only, so as to form a well pocket D.

Within the pocket D is situated a removable battery which as an entirety is denoted by E. This battery consists of two thicknesses of felt *b*, see Figs. 3 and 6, which are respectively a longitudinal section, and an edge view, to which are secured zinc plates *c*, and copper plates *d'*. The copper plates are shown with lined surfaces, and the zinc plates with plain surfaces.

The plates *c* and *d* are fastened to the outer surfaces of the felt pieces, and to each copper strip is riveted a metallic strip *f* which is passed through the two thicknesses of felt, and riveted to the zinc plate which is opposite an adjacent copper plate. The opposite or opposing copper and zinc plates are held together and to the two thicknesses of felt, by means of stitches *g* which pass through the pieces of felt.

The end zinc plate to the left, and the end copper plate to the right, are longer than the others and folded so as to form hooks *h*, which serve as means to connect the battery with the contact plate F and the electrode G, respectively.

The contact plate F and the electrode G are confined in pockets respectively denoted by *j* and *k* which are not in communication with the main pocket except at the upper ends.

A second electrode H is secured within the material of the rear support B of the belt, and it is connected by a silk covered cord *o* composed of copper wires, to the contact plate F.

The interior of the pocket D is lined with oiled silk, rubber or any other suitable water and dilute acid proof material which in the drawings is denoted by *m*.

To excite the battery, the felt pieces are saturated by any suitable fluid, from the action of which the wearer is protected by the water proof lining of the well pocket.

The electric belt constructed as described is light in weight and comfortable to wear, and in view of the strap connection, between the front and rear support is well ventilated.

In connecting the flexible conducting cord *o* to the contact plate F instead of to the battery proper, the said cord is not so liable to breakage and the battery can be removed without disturbing the cord.

I claim as my invention—

1. In an electric belt, a support containing an electric battery formed of two pieces of felt having secured to one side thereof a series of copper plates and to the other a series of zinc plates, the two series being electrically connected by metallic strips which pass through the pieces of felt, substantially as specified.

2. In an electric belt, the combination of a support provided with a well pocket containing a battery formed of two pieces of felt having on one side thereof a series of copper plates and on the other a series of zinc plates, the two series of plates being electrically connected by means of metallic strips, an electrode in the said support, a second support having an electrode which is electrically connected to the battery by means of a flexible insulated wire, substantially as specified.

3. In an electric belt, a support having a well pocket containing an electric battery and two other pockets isolated from the well pocket, one of which has therein a contact plate and the other provided with an electrode, a second support provided with an elec-

trode which is electrically connected to the battery by means of a flexible insulated wire, substantially as specified.

4. In an electric belt, two supports united by straps, one support carrying an electric battery and the other an electrode which is electrically connected to the battery by means of a flexible insulated wire, substantially as specified.

5. In an electric belt, the combination of a front support having a well pocket containing a battery, a contact plate and an electrode, both of which are electrically connected to the battery, and situated in pockets isolated from the well pocket a rear support containing an electrode, straps to connect the front and rear support and a flexible insulated wire which electrically connects the contact plate and the rear electrode, substantially as specified.

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Witnesses:
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