

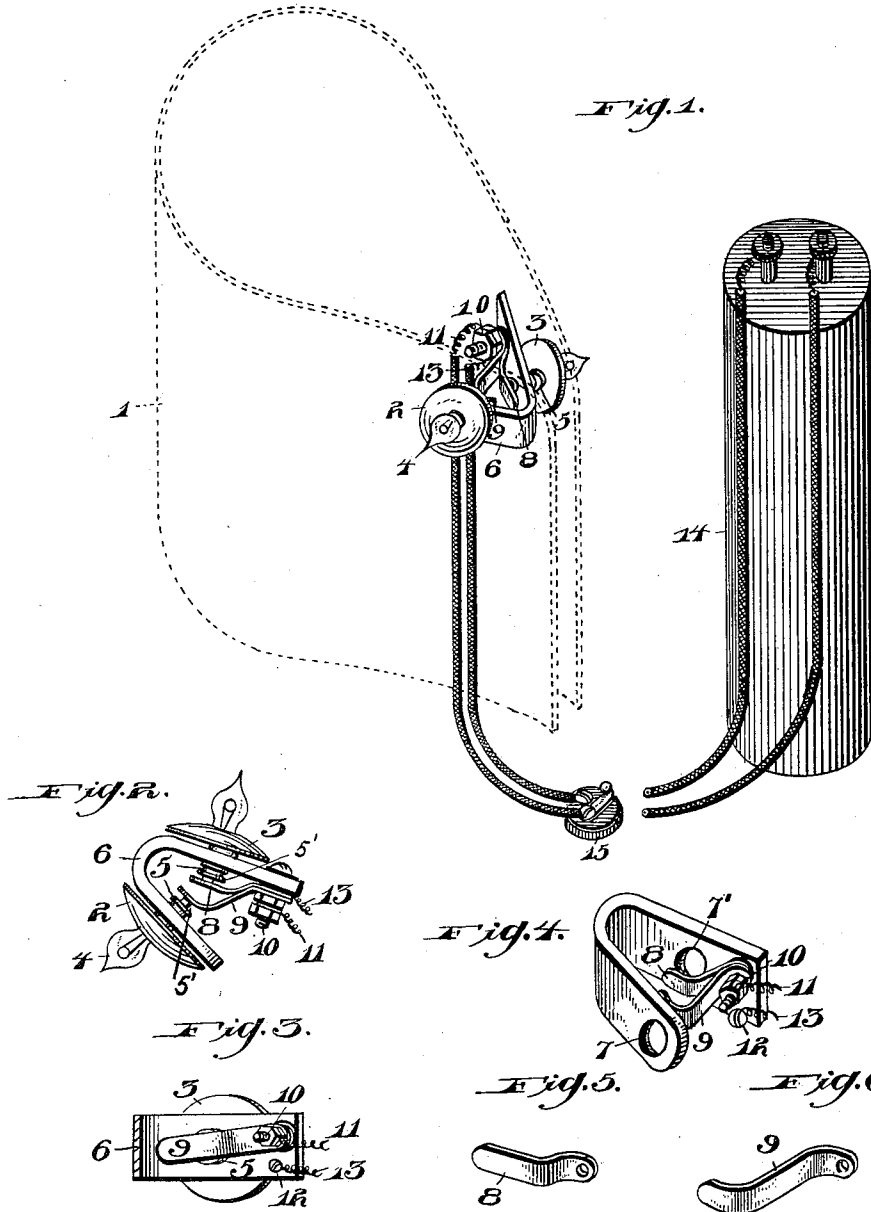
No. 659,467.

Patented Oct. 9, 1900.

W. A. CHURCH.
ELECTRICAL ILLUMINATED BUTTON.

(Application filed Dec. 9, 1899.)

(No Model.)



WITNESSES:

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WALTER A. CHURCH, OF PITTSBURG, PENNSYLVANIA.

ELECTRICAL ILLUMINATED BUTTON.

SPECIFICATION forming part of Letters Patent No. 659,467, dated October 9, 1900.

Application filed December 9, 1899. Serial No. 739,797. (No model.)

To all whom it may concern:

Be it known that I, WALTER A. CHURCH, a citizen of the United States of America, residing at Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Electric-Illuminated Buttons, of which the following is a specification, reference being had therein to the accompanying drawings.

My invention relates to certain new and useful improvements in electrical cuff-buttons and is particularly adapted for wear.

One object of my invention is to construct a pair of cuffs carrying an incandescent lamp connected to a suitable source of electrical supply, which lamps can be lighted at the discretion of the wearer of the buttons.

A further object of my invention is to provide a pair of cuff-buttons with means for properly positioning the same when attached to a pair of cuffs.

Briefly described, my invention consists of a pair of buttons, each provided with an opening to receive a miniature incandescent lamp carrying a socket which is secured in a positioning-plate provided with a pair of contact-springs and connected to a suitable source of electrical supply.

My invention finally consists in the novel construction, combination, and arrangement of parts to be hereinafter more fully described, and specifically pointed out in the claims.

In describing the invention in detail reference is had to the accompanying drawings, forming a part of this specification, and wherein like numerals of reference indicate corresponding parts throughout the several views, in which—

Figure 1 is a perspective view of one of my improved cuff-buttons connected to a cuff, shown in dotted lines, and also connected to a source of electrical supply. Fig. 2 is a top plan view of one of my improved cuff-buttons. Fig. 3 is a vertical sectional view thereof. Fig. 4 is a perspective view of the retaining-plate. Fig. 5 is a perspective view of the smaller contact-spring. Fig. 6 is a perspective view of the larger contact-spring.

Referring to the drawings by reference-numerals, 1 indicates a cuff, shown in dotted lines and provided with the usual button-

holes, to which my improved cuff-button is attached.

My improved cuff-button consists of a pair of buttons 2 3, each provided with a centrally-arranged opening in which is mounted a miniature incandescent lamp 4. Each of the lamps 4 are suitably connected to an exteriorly-screw-threaded socket 5, provided with a suitable contact-spring 5'. The sockets are secured in a substantially U-shaped retaining-plate 6, provided with a pair of screw-threaded openings 7 7' to receive the sockets, which extend through the plate, as shown, and are adapted to be brought into contact with a pair of engagement-springs 8 9, the spring 8 being smaller than the spring 9 and contacts with the outer socket, while the spring 9 contacts with the inner socket. Both of these contact-springs are secured upon a positive binding-post 10, which is insulated from the plate 6 and has the positive wire 11 connected thereto.

12 indicates a negative binding-post and is in contact with the plate 6, to which the negative wire 13 is connected. The positioning-plate is adapted to be suitably insulated.

The wires 11 13 are connected to a suitable storage battery 14 and also to a switch 15, arranged at any suitable point thereof.

I set up my improved button in the following manner: The positioning-plate is arranged between the inner face of each side of the cuff at the buttonholes thereof and the buttons at the outer face of the sides of the cuff at the buttonholes thereof. A miniature incandescent lamp is then placed through the openings in the buttons and is secured in the positioning-plate by means of the screw-threaded socket mounted in the screw-threaded openings of the plate and contacting therewith, which brings each contact-spring into engagement with its proper contact, (these springs being of the desired form.) The current being turned on by means of the switch, the lamp will be illuminated. The battery is adapted to be secured in a convenient pocket, together with the switch, so that the wearer can illuminate the buttons at will.

It is thought that the many advantages of my improved construction can be readily understood from the foregoing description,

taken in connection with the accompanying drawings.

It will be noted that various changes may be made in the details of construction without departing from the general spirit of my invention.

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

10 1. In an electrical cuff-button, the combination of a pair of buttons proper, a positioning-plate, an incandescent lamp mounted within each of the said buttons and suitably connected to said retaining-plate, an electrical
15 supply, and means connected to the said plate and said supply for forming an electrical circuit thereby illuminating the said lamps.

2. In an electrical cuff-button, the combination of a pair of buttons proper, a positioning-plate, an incandescent lamp mounted within each of the said buttons and suitably connected to said retaining-plate, a pair of contact-springs connected to said plate and adapted to engage said lamps, an electrical
25 supply, and connections between said plate and said supply for forming a circuit thereby permitting of the illuminating of the lamps.

3. An electrical cuff-button consisting of a pair of buttons proper, a retaining or positioning plate arranged between the same, an incandescent lamp extending through each of the said buttons and suitably connected to the said plate, and a pair of contact-springs suitably mounted on the said plate and adapted
35 to engage the said lamps.

4. An electrical cuff-button consisting of a pair of buttons proper, a retaining or positioning plate arranged between the same, an incandescent globe extending through each
40 of the said buttons and suitably connected to the said plate, a pair of contact-springs suitably mounted on the said plate and adapted to engage the said lamps, a storage battery, suitable wire connections between said battery and said plate, and a switch suitably connected to the said wire.

5. In an electrical cuff-button, a pair of buttons provided with centrally-arranged opening, a substantially U-shaped retaining or

positioning plate arranged between said buttons and provided with a pair of screw-threaded openings, an incandescent lamp extending through each of the said buttons and secured in one of the said openings of the retaining-plate, a pair of contact-springs mounted on
55 the said plate and adapted to engage said lamps, a storage battery, suitable wire connections between said battery and said plate, and a switch suitably connected to the said wire connections, substantially as set forth. 60

6. In an electrical cuff-button, a substantially U-shaped retaining-plate, connections between the same and an electrical supply, a pair of lamps connected to said plate, contact-springs of unequal length mounted on
65 said plate and adapted to engage said lamps, and connections between said contact-springs and a source of electrical supply.

7. In an electrical cuff-button, a pair of buttons proper, a retaining-plate, a pair of sockets suitably connected to said plate, a lamp suitably secured to each of said sockets, a binding-post connected to said plate, a pair of contact-springs mounted on said post and adapted to engage the said sockets, a connection
75 between said binding-post and an electrical supply, and a connection between said plate and a source of electrical supply, substantially as described.

8. In an electrical cuff-button, a pair of buttons proper, a retaining-plate, a pair of sockets suitably connected to said plate, a lamp suitably secured to each of said sockets, a binding-post connected to said plates, a pair of contact-springs mounted on said post and
85 adapted to engage the said sockets, a connection between said binding-post and an electrical supply, a binding-post connected to said plate, a connection between the same and a source of electrical supply, and a switch
90 suitably arranged upon the said connections, substantially as described.

In testimony whereof I affix my signature in the presence of two witnesses.

WALTER A. CHURCH.

Witnesses:

JOHN NOLAND,

WILLIAM E. MINOR.