

No. 647,759.

Patented Apr. 17, 1900.

A. PHELPS.
BADGE BUTTON.

(Application filed Oct. 7, 1899.)

(No Model.)

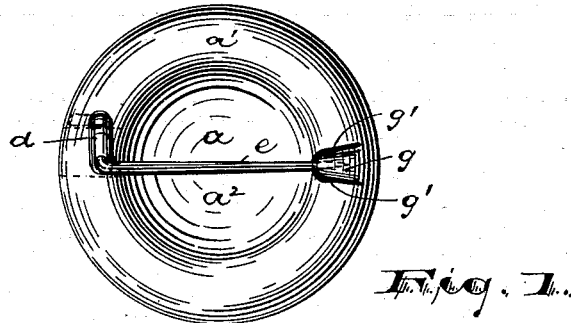


Fig. 1.

Fig. 3.

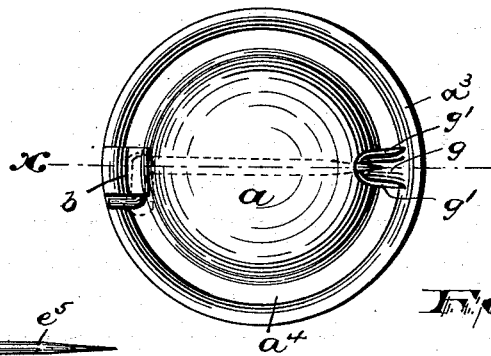
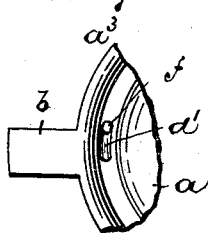


Fig. 2.

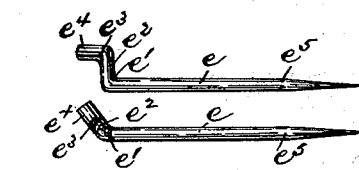


Fig. 4.

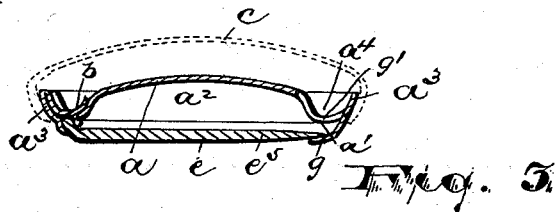


Fig. 5.

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UNITED STATES PATENT OFFICE.

AUGUSTUS PHELPS, OF NEWARK, NEW JERSEY.

BADGE-BUTTON.

SPECIFICATION forming part of Letters Patent No. 647,759, dated April 17, 1900.

Application filed October 7, 1899. Serial No. 732,890. (No model.)

To all whom it may concern:

Be it known that I, AUGUSTUS PHELPS, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Badges; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to certain improvements in that class of badge-buttons represented by those shown in my prior patents, No. 604,213, of May 17, 1898, and No. 626,035, of May 30, 1899, the objects of the present improvements being to allow a limited hinge action to the pin, whereby the badge-button may be more conveniently applied to the garment; to reduce the cost of construction; to obtain a stronger and more durable hinge connection, and to secure other advantages and results, some of which may be referred to hereinafter in connection with the description of the working parts.

The invention consists in the improved badge-button and in the arrangements and combinations of parts of the same, all substantially as will be hereinafter set forth and finally embraced in the clauses of the claim.

Referring to the accompanying drawings, in which like letters of reference indicate corresponding parts in each of the several views, Figure 1 is a plan showing the button or badge from the back or rear. Fig. 2 is a front or inside view of the rear plate of the badge or button and the pin hinged thereto. Fig. 3 is a section taken on line *x*, Fig. 2. Fig. 4 presents a plan and side view of the pin in detail. Fig. 5 is an inside plan of a portion of the collet, showing a certain tongue before bending.

In said drawings, *a* indicates the sheet-metal back-plate of the button, which is pressed by suitable dies to form at the back of said plate an annular rib *a'* at the margin and at the center or within said rib a central depression, aperture, or recess *a''*, in which latter an advertising-card may be inserted and protected. When the central metal of

the back-plate is not struck out or removed, the back of this back-plate as a whole may be highly polished, giving to the button a high finish, which is sometimes desirable. However, I do not wish to limit myself to the construction shown, as the center may be otherwise formed, as heretofore.

The front or interior side of the back-plate *a* is provided with an annular groove *a'*, corresponding to the rib *a'*, and outside of the said groove a flange *a''* is formed by the forward bending of the metal in forming said groove and the rib corresponding thereto. The flange lies at the periphery of the back-plate and is overlapped in the completed button by the shell or front plate *c* (indicated in outline in Fig. 3) in the manner common in this class of button-badges.

At one side of the back-plate, at the extreme edge of the flange *a''* and preferably integral therewith, is formed a tongue *b*, and a little in from said tongue, at about the crown or crest of the rib, the sheet metal is pressed farther back for a short distance parallel with or in the direction of the rib, forming at the back of the button a short boss *d*, as in Fig. 1, and at the inside of the back-plate, at the groove thereof, a correspondingly-short recess or socket *d'*, Fig. 5, of a size transversely about equal to or a little greater than the thickness of the pin *e*, near the end opposite the pointed end thereof.

At one end of the short recess or socket the collet is provided with a pin-perforation *f* (shown more clearly in Fig. 5) of a size to permit a lengthwise passage to the pin *e*. The said pin *e* is bent, as shown more clearly in Fig. 4, where said pin is shown to be bent laterally at *e'* to form a pivotal extension *e''* of about the length of the socket *d'* and again bent, as at *e'''*, to form a stop extension *e''''*, the extension *e''* being adapted to oscillate within the groove *a'* at the back of the button and the extension *e''''* to engage the side walls of said groove to limit the pivotal movement of the pointed body portion of the pin.

At the side of the back-plate opposite the recess *d'* or socket-seat for the pin the collet is provided with a pin-fastening tongue *g*, pressed out of the sheet metal, so that it projects back from the rear face of the back-plate, as indicated in Fig. 3, to receive the

pointed end of the pin in a manner common to what is shown in one of my patents before referred to.

The body of the pin is thrust through the 5 perforation f , and the pivotal extension e^2 at right angles to the said body is brought to lie longitudinally in the socket d' , after which the tongue b is turned over to lie against the 10 inside of the back-plate, in the groove thereof, closing the socket and holding the pin in positive pivotal relation to the said back-plate, and yet permitting the limited oscillation of the extension e^4 . At the exposed back of the 15 back-plate the pointed pin-body e^5 is free to oscillate to and from its fastening-tongue g , the pointed end entering sidewise beneath said tongue through the openings $g' g'$ at the opposite sides thereof. After the application 20 of the pin to the back-plate in the manner described the latter may be attached to the shell or front plate or be placed in the market to be so attached by the button-makers in any suitable manner.

I am aware that modifications or variations 25 may be made in the button or badge from the description given above in positive terms and expressions without departure from the spirit or scope of the invention, and I do not, therefore, desire to be limited by such descriptive 30 terms and expressions, excepting as the state of the art may require.

Having thus described the invention, what I claim as new is—

1. In a badge, the combination with the 35 back-plate pressed to form an annular rib with the convexity on the outside, the said rib being provided with a perforation at one side and a pin-point-receiving tongue on the diametrically-opposite side, said plate being 40 also provided with an integral peripheral tongue bent inward to lie against the pin on

the inside of the said plate, and said pin bent 45 to form a pivotal extension at the back and extending through the perforation diametrically across the outside of the button to engage the pin-point-receiving tongue and held in place by the inwardly-bent peripheral tongue, substantially as set forth.

2. A rear part for badges comprising a plate having an annular groove, a socket at said 50 groove and a perforation at one end of said socket, and a bent pin having a limiting extension in said groove, a pivotal extension in said socket and a body portion extending 55 through said perforation and having a pointed end at the back of said rear part, substantially as set forth.

3. The improved rear part for badges comprising a plate having at the edge thereof a tongue and near said edge a socket and perforation, and a pivotal pin arranged in said 60 perforation and in said socket, the said tongue being bent down over said pin in said socket, substantially as set forth.

4. The improved rear part for badges comprising a plate having at one side an annular rib and central recess and on the opposite 65 side an annular groove and flange a^3 , and having at one side a socket, tongue and perforation and at the opposite side a pin-point-receiving tongue and a pointed pin bent near 70 the end opposite the point and having a pivotal extension and limiting extension, substantially as set forth.

In testimony that I claim the foregoing I 75 have hereunto set my hand this 20th day of September, 1899.

AUGUSTUS PHELPS.

Witnesses:

CHARLES H. PELL,
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