(No Model.)

W. HORNICH.

BUTTON.

No. 249,048. Patented Nov. 1, 1881.

fig. 1.

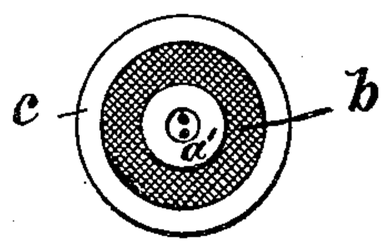


fig. 2.

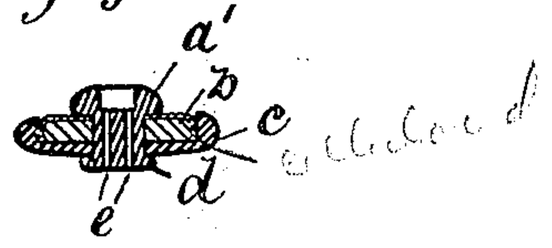
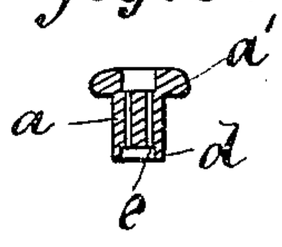


fig. 3.



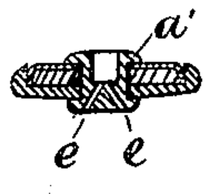


fig. 4

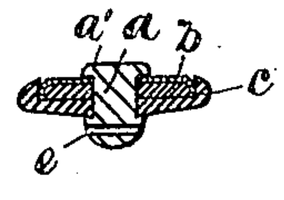


fig. 5.

Witnesses:
Charles H. Pell
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Inventor:
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by O Drake. Atty.

UNITED STATES PATENT OFFICE.

WILLIAM HORNICH, OF NEWARK, NEW JERSEY.

BUTTON.

SPECIFICATION forming part of Letters Patent No. 249,048, dated November 1, 1881.

Application filed April 11, 1881. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HORNICH, a resident of Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Buttons; 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 letters of reference marked thereon, which form a part of this specification.

This invention relates to the method of and means for securing the several parts of a button together, as also the materials employed in the construction of the improvement, and to other matters, all of which will be hereinafter fully described, and specifically embodied in the claims.

In the accompanying drawings, in which similar letters of reference indicate like parts in each of the several figures, Figure 1 is a plan or face view of a button constructed in accordance with the principles of my invention. Fig. 2 is a transverse section of the same; Fig. 3, a transverse section of a rivet for securing the several parts of the button together, of peculiar construction, and composed of materials never heretofore employed for a like purpose. Figs. 4 and 5 illustrate various modifications, which are made in manner of perforating the rivet to adapt the same to be sewed to the garment.

In carrying out my invention I construct a cylindrical rivet, *a*, of celluloid, lignoid, rubber, or any suitable material, having one or more perforations, *e*, passing therethrough in any appropriate direction, as illustrated by Figs. 2, 3, 4, 5, having a recessed head, *a'*, and recessed extremity *d*. This I insert in and pass through a button, or the several portions *b c* thereof, and clinch upon the back of the same, as shown, by means of a heated tool, (the end of which is suitably shaped for the purpose,) which is inserted in the cavity in the posterior extremity of the button or adjusted upon the end of the same, as will be understood upon reference to Fig. 5, and pressed thereon while hot, so as to force the material, which will yield to the heated tool, down upon the back of the button, as indicated in Figs. 2, 4, 5.

The improved rivet may be made any color or shade in harmony with other portions of the button, the outer portion or head thereof constituting a neat ornament to the button; and although I do not wish to limit myself to plastic material exclusively in the construction of said rivet, yet in many cases it is preferable, as the same can be very readily ornamented by having various pigments mixed therein, by having pearl or other like ornamental substances embedded therein, or by being impressed into decorative forms.

The back *c* of the button, the rim of which shows on the outside, as indicated, may be also made of the same materials as the rivets. In this, however, as well as in other respects, the buttons may be made of any other well-known material and in any of the various forms.

When the rivet or cylinder is used in connection with buttons having a "tuft cloth," the said rivet may have but a single perforation therethrough, or, in other words, be hollow, and the button be sewed to a garment, either from the back or through the rivet, in the usual manner.

Cylinders may be made of the materials or in the manner described and adapted for other purposes than for buttons—for example, eyelets—in which latter case the head is dispensed with, the cylinder being of sufficient length for the purpose required and its ends turned over by means of a heated tool, as already described and as will be readily understood. In this form it is adapted for buttons, shoes, corsets, or other appropriate uses.

Having thus described my invention, what I claim, and wish to secure by Letters Patent, is—

1. A button having a perforated or hollow rivet passing therethrough, composed of celluloid or other plastic compound, as described, and secured upon the front and back thereof, substantially as set forth and shown.

2. A button having a perforated or hollow rivet passing therethrough, composed of celluloid or other plastic compound or material, as described, and having its end or ends recessed,

as shown, substantially as and for the purposes set forth.

3. In a button, a rivet, *a*, having one or more perforations therethrough, having a recessed head, *a'*, and a recessed extremity, *d*, substantially as and for the purpose set forth and shown.

4. In a button, an eyelet composed of celluloid or other plastic material, substantially as and for the purposes set forth.

In testimony that I claim the forgoing I have hereunto set my hand this 29th day of March, 1881.

WILLIAM HORNICH.

Witnesses:
CHARLES H. PELL,
OLIVER DRAKE.