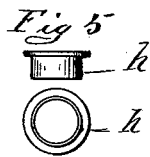
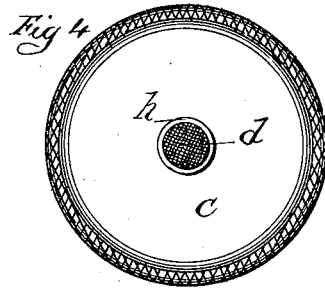
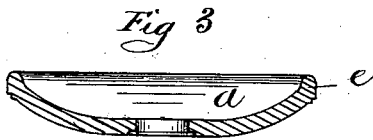
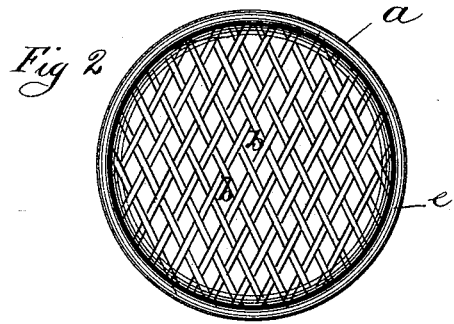
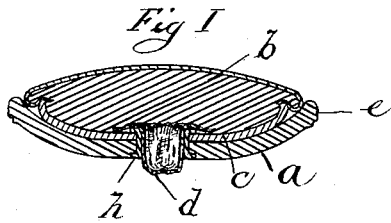


N. C. NEWELL.
Buttons.

No. 206,348.

Patented July 23, 1878.



Witnesses
Wm H. Chapin.
H. A. Chapin

Inventor
Nelson C. Newell
By Chapin & Co
Atty's

UNITED STATES PATENT OFFICE.

NELSON C. NEWELL, OF SPRINGFIELD, MASSACHUSETTS.

IMPROVEMENT IN BUTTONS.

Specification forming part of Letters Patent No. 206,348, dated July 23, 1878; application filed June 6, 1878.

To all whom it may concern:

Be it known that I, NELSON C. NEWELL, of Springfield, county of Hampden, and State of Massachusetts, have invented new and useful Improvements in the Manufacture of Buttons, which improvements are fully set forth in the annexed specification and in the accompanying drawing.

The object of my invention is to make a button possessing the usual requisites of a cloth-covered button, as to beauty, &c., but which will be much more durable than the latter.

It is well known that by constant use upon a garment a cloth-covered button soon has its border worn off, and must needs be often replaced if the garment upon which it is worn be kept in proper condition; but by the use of my improved button the said inconvenience arising from constant wear is greatly avoided.

My invention relates, essentially, to the combination, in a button, of a back and border of hard rubber, or of similar strong material, with a front filling or face consisting of a cloth or fabric covered button, the two said parts being firmly united together, so as to form a solid button whose face is practically one of cloth or fabric, surrounded by a handsome narrow jet border of the said rubber, a cloth shank projecting rearward through a center hole in said back, by which the button is attached to the garment in the usual manner.

In the drawing, which consists of five figures, Figure 1 is a sectional view of one of my improved buttons. Fig. 2 is a face view of the same. Fig. 3 is a transverse section of the back through its center. Fig. 4 is a view of the under side of the cloth-covered button; and Fig. 5 is the eyelet by which the two above-named parts are secured together.

Letter *a* is the rubber back. *b* is the cloth-covered button. *c* is a collet. *h* is an eyelet. *d* is the shank, and *e* the rim on back *a*.

In manufacturing my improved combined buttons I prepare the backs *a* in the form shown in Fig. 3, concavo-convex, and having a half-round or ornamental vertical rim, *e*, to surround the border of the cloth-covered button when the two shall be united, and provided with a shank-hole through its center. I then make substantially an ordinary cloth-covered button, excepting that I secure one end of eyelet *h* between collet *c* and the body thereof, surrounding shank *d*. This cloth-covered button, (represented by Fig. 4, (made as

described, is now placed inside of back *a*, eyelet *h* and shank *d* projecting through the rear hole therein, and said eyelet (the lower end thereof) is then set out firmly around the border of said hole, thereby firmly clamping the rubber back and cloth-covered button together, substantially as shown in Fig. 1.

It will be seen that buttons made as above described present no wearing cloth-surface against the button-hole when the garment is unbuttoned, so that great durability is secured by so making buttons as compared with ordinary ones.

Instead of the backs, such in form as I have described, being made of rubber, they might be made of metal, and be properly blacked; but any blacking that might be applied would not be sufficiently adhesive to withstand the wear that this part of a button is subjected to, nor make a permanently durable color. Also, some plastic or semi-plastic material might be used to make an inferior article, somewhat resembling my buttons, as above described and shown, if one sufficiently strong could be found to resist, without breaking, the considerable pressure which is demanded to properly secure the two parts together by setting out the lower end of eyelet *h*, as above described. Also, buttons similar to what I herein describe and claim may be made with vegetable-ivory backs, properly colored; but the manufacture of such buttons from said material would be attended with such great loss from breakage in manufacture, and from cracking after they were finished, as to render the employment of such material for that purpose impracticable, and therefore I do not claim either of the three before-mentioned substitutes for the material I employ.

What I claim as new, and desire to secure by Letters Patent, is—

1. A button composed of the back *a*, provided with a border, *e*, made of hard rubber, and an interior cloth-covered button, *b*, said back *a* and button *b* being united and combined substantially as and for the purpose set forth.

2. The combination, with the hard-rubber back *a* and cloth-covered button *b*, of the eyelet *h*, substantially as and for the purpose set forth.

NELSON C. NEWELL.

Witnesses:

WILLIAM H. CHAPIN,
H. A. CHAPIN.