(No Model.)

C. RADCLIFFE.

Covered Button.

No. 242,476. Patented June 7, 1881.

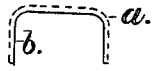


Fig. 1.



Fig. 2.

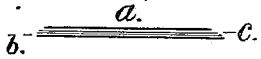


Fig. 3.



Fig. 4.

Witnesses;
Thomas Hunt.

Inventor;
Charles Radcliffe
by
C. Wyllys Betts
Attorney.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

CHARLES RADCLIFFE, OF NEWARK, NEW JERSEY, ASSIGNOR TO THE NEW JERSEY MANUFACTURING COMPANY, OF SAME PLACE.

COVERED BUTTON.

SPECIFICATION forming part of Letters Patent No. 242,476, dated June 7, 1881.

Application filed November 24, 1880. (No model.)

To all whom it may concern:

Be it known that I, CHARLES RADCLIFFE, of Newark, New Jersey, have invented a new and useful Improvement in Covered Buttons, of which the following is a specification.

My invention relates to that class of buttons which is composed of metal stamped into the required shape and covered with some textile fabric, and the objects of my invention are to cheapen the cost of production and to add durability.

Buttons of this class have heretofore commonly been made by stamping the cut metal into the shape required for the face of the button, then covering the face with the cloth, linen, or other material, and securing the edges of the cloth by fastening them with the clinched edges of a second piece of metal stamped into the shape required for the back of the button and made a little larger than the face, so as to receive the face and allow the edges of the back to be clinched over the cloth. This kind of button is, however, subject to the disadvantages that it uses more cloth than is really necessary, and consumes more time and labor in the manufacture, as the cloth and the metal face have to be cut separately.

I obviate these disadvantages in the following way: I have discovered that metal buttons of small size may be covered with linen by cementing, and that such linen covering will, if properly applied, adhere to the metal surface so strongly as to resist the process of drawing the metal into shape by dies. The mode in which I have secured adhesion of the linen coating is as follows: I cover the sheet of tin or other metal of which the button is composed with a thin coat of copal or equivalent varnish, which I cause to adhere closely to the surface of the metal by spreading it on very carefully and in a very thin coat, so as to avoid, as far as possible, liability to crack. Upon this coat of varnish I lay a thin and uniform coat of glue, which will adhere closely to the varnish, and upon this glue, while wet, I lay the linen cloth or other fabric with which the button is covered. When the whole is dry the linen will be found firmly united to the metal, so that the latter may be bent or stamped into any shape desired without disturbing the adhesion of the fabric. The metal sheet so covered I stamp into the shape required for the face of the button, and unite the face to the back in any of the well-known ways. The disk of metal should be drawn into such shape that the edges of the linen may be as little liable as possible to be frayed by rubbing, but will be protected by being brought into juxtaposition to the garment to which the button is applied. Two forms of disk which will accomplish this result are shown in Figs. 1 and 2 of the accompanying drawings, in which *a* represents the linen or other covering, *b* the metal, and *c*, Fig. 3, the layers of varnish and glue. By this means I find that there is a great saving effected in the quantity of cloth used, and the button is made very strong and durable, as well as more cheaply than in the old way.

I do not limit myself to the particular materials specified for cementing the linen to the metal, though I prefer these, as other ingredients may be used which will adhere strongly both to the metal and covering fabric, and if laid very thinly and evenly will resist the action of drawing-dies.

Fig. 4 shows a section of my button as completed, and provided with a well-known means of fastening it to the fabric. For the fastening device shown may be substituted the device shown in my application for a patent filed September 17, 1880.

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

The method of constructing covered buttons by covering a sheet of metal with a thin coat of copal or equivalent varnish, then covering the varnish with a thin coat of glue or its equivalent, then laying upon the glue, while damp, the textile fabric, and when the whole is dry stamping or cutting the covered metal sheet into the shape required for the face of the button, and uniting the face with the back or shank, substantially as described.

C. RADCLIFFE.

In presence of—
THOMAS HUNT,
GEORGE R. DAVIDSON.