(No Model.)

G. W. PRENTICE.

BUTTON AND FASTENER.

No. 306,103. Patented Oct. 7, 1884.

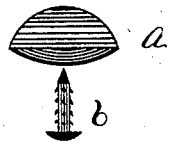

Fig. 1.

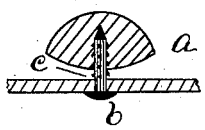

Fig. 2.

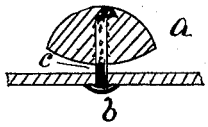

Fig. 3.

Witnesses.
Charles Greene
E. Fisher.

Inventor.
George W. Prentice
by Franklin A. Smith Jr.
Atty.

UNITED STATES PATENT OFFICE.

GEORGE W. PRENTICE, OF PROVIDENCE, RHODE ISLAND.

BUTTON AND FASTENER.

SPECIFICATION forming part of Letters Patent No. 306,103, dated October 7, 1884

Application filed August 6, 1884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. PRENTICE, a citizen of the United States, residing at Providence, in the county of Providence and State of Rhode Island, have invented certain new and useful Improvements in Buttons and Fastenings; and I do 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 and figures of reference marked thereon, which form a part of this specification.

My invention has for its object to provide an improved button and fastening device, which is adapted to be readily secured to fabric in the best and most expeditious manner.

My invention relates more particularly to that class of combined buttons and fastenings for which I obtained Letters Patent for the United States dated February 13, 1883, No. 272,318, in which the button is provided with a central opening extending from the lower surface to the interior. At the termination of the opening a metallic die is embedded, which spreads the split end of a tack to secure the button to the fabric. I find in practice that I may dispense with the die and opening to the interior of the button, also the split end of the tack, and thus simplify the construction of both button and fastening, which is the object of my present invention.

To this end my invention consists, essentially, of a solid button composed of leather, pulp, or other suitable substance formed into the desired shape without an opening of any kind, and adapted to be secured to fabric by means of a malleable pointed nail or pin having a roughened or serrated surface, driven through the fabric and into the button, all as will be hereinafter more fully described.

In the accompanying drawings, Figure 1 is a side elevation of a fastening nail or pin and a button. Fig. 2 is a vertical section of my complete device as attached to a fabric. Fig. 3 is a like view of the same, showing the sides of the nail or pin barbed or serrated, the end of the nail being clinched.

Similar letters of reference indicate like parts in the several figures.

Referring to the drawings, *a* is a button formed of leather, pulp, or other suitable substance formed into the desired shape and then dyed, stained, or japanned in suitable colors, said button being formed solid throughout, without openings of any kind, as shown in Fig. 1.

The fastening device *b* consists of a metallic nail or pin having a head portion and a pointed malleable end, the nail or pin being preferably made of rounded wire having a roughened or serrated surface, as also shown in Fig. 1. The sides of the fastening nail or pin may be barbed or serrated, if desired, to retain a firmer hold of the button when attached thereto, as shown in Fig. 3.

The construction of the button and fastening being as described, the operation of attachment is as follows: The button *a* is adjusted within one member of a suitable instrument or power-machine, and the fastening nail or pin *b* within the opposite member. The fabric or material to which the button is to be attached is then inserted between the two members, which, being closed or brought together, forces the nail through the material into the head, as shown in Fig. 2, thus securing the several parts together.

If the button is designed for use upon any article where an extra strain is exerted, the end of the nail may be passed to the upper surface of the button and clinched to more securely attach the parts together, as shown in Fig. 3. The space *c* between the surface of the fabric and the lower side of the button may be greater or less, as desired.

My improved device is admirably adapted for use on shoes, gloves, carriage-curtains, and various other articles, it being equally applicable either as a lacing-stud or button, and its ready adaptation for a rapid attachment renders it in every way a superior device for the purpose contemplated.

I do not claim the method of attaching buttons to fabric by driving a fastener through said fabric into a solid button, as that was the subject of a former patent granted me dated November 27, 1883, numbered 289,136.

Having described my invention, I claim—

A solid button formed without openings, in combination with the fastening nail or pin the prong of which is roughened, barbed, or serrated, said nail or pin adapted to be driven through fabric into the button to attach the same, substantially as herein set forth.

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

GEORGE W. PRENTICE.

Witnesses:

FRANKLIN A. SMITH, Jr.,

CHARLES GREENE.