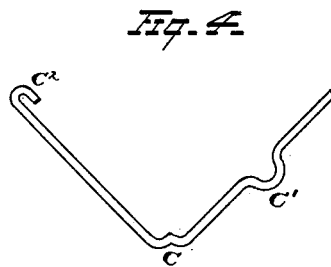
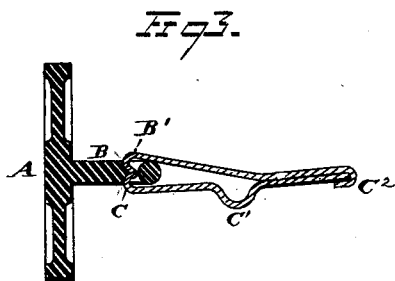
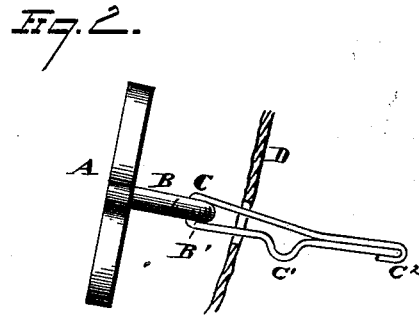
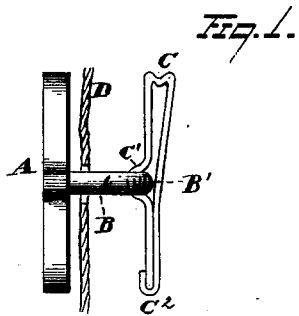


J. M. CHANDLER.
Sleeve-Buttons.

No. 206,002.

Patented July 16, 1878.



WITNESSES
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A. M. Bright.

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UNITED STATES PATENT OFFICE.

JOHN M. CHANDLER, OF FREDONIA, NEW YORK.

IMPROVEMENT IN SLEEVE-BUTTONS.

Specification forming part of Letters Patent No. **206,002**, dated July 16, 1878; application filed January 7, 1878.

To all whom it may concern:

Be it known that I, JOHN M. CHANDLER, of Fredonia, in the county of Chautauqua and State of New York, have invented certain new and useful Improvements in Sleeve-Buttons and Safety Attachments thereto; 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 pertains to make and use it, reference being had to the accompanying drawings, which form part of this specification.

My invention relates to certain improvements in the manner of forming the shank of a sleeve-button, shirt-stud, or similar article, and also of the safety attachment which secures the same against loss or displacement.

The improvement consists in providing the eye of the shank with an inner wedge-shaped wall, which is adapted to fit into a corresponding notch or bend made in one of the end bodies of the safety attachment, in order to enable the device to be forced through the button-hole as though the shank and safety attachment were in a single piece.

In the drawings, Figure 1 shows my device as fixed in a button-hole; Fig. 2, the same as being withdrawn or put into a button-hole. Fig. 3 is a sectional view of my device. Fig. 4 is a view of my safety attachment partially developed or unfolded.

A is the head or face of the button, and B its shank. A slot or opening is made near the end of said shank, and the shank at the border of this opening toward the head A is made angular, beveled, or wedge-shaped, as shown at B'.

Coming now to a description of my safety attachment, it will be observed that it is formed from a single continuous piece of spring metal peculiarly bent and formed, substantially as shown in the drawings, so as to form the notches C and C¹, and also, if desired, the bend or hook C², although this, as will hereinafter appear, does not constitute an essential part of my invention. When thus formed the free ends of the spring-strip are brought together and properly fastened, substantially as shown in the drawings.

The ends may be fastened either by pressing the hooked portion C² over the opposite end of the strip, or the ends may be soldered or riveted together, or joined in any manner

that will not materially injure the strength or temper of the device.

By employing spring metal and striking up and forming my safety attachment from dies, I produce a device of the desired toughness and grade of temper.

The operation of my device is shown in the drawings, and is as follows: When in its safety position, as shown at Fig. 1, the shank of the button occupies the notch C¹, and the parts are held in this relation by the spring-power of the safety attachment, and prevented from escape from the fabric D.

When it is wished to remove the button, the safety attachment is forced by pressure on the end C to take the position shown in Fig. 2, and this is also the position of the parts required to place the button in its cuff or fabric.

In this position it will be observed that the notch or wedge B' of the stud-shank enters into and engages with the notch C of the safety attachment; and now, when pushed forward, as shown in Fig. 2, this engagement of the wedge and notch operates to stiffen the parts in their peculiar relation to each other, and prevent the safety attachment from lateral motion, thus enabling a person to force the device through its button-hole as though the shank and safety attachment were but a single piece and rigid.

What I claim is—

1. The stud or button-shank B, provided with the edge or wedge-shaped portion B', substantially as and for the purpose specified.

2. The wedge-shaped portion B' of a button-shank, in combination with the notch C of a safety attachment, substantially as and for the purpose set forth.

3. The combination, with the stud or button-shank, whose eye is formed with the inner wedge-shaped wall, of the spring-metal safety attachment, which latter is formed with a notch in both its end and central side body, respectively, adapted to engage with said wedge-shaped wall, substantially as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN M. CHANDLER.

Witnesses:

A. G. HAWLEY,
MONRO THOMAS.