

J. L. NELSON.
 BUTTON FASTENING MEANS.
 APPLICATION FILED MAR. 13, 1909.

947,557.

Patented Jan. 25, 1910.

Fig. 1.

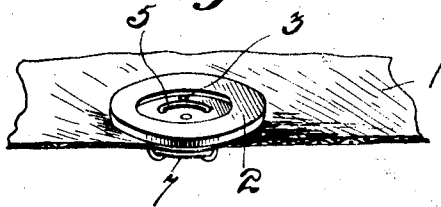


Fig. 2.

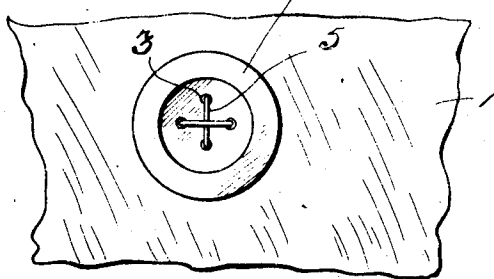


Fig. 3.

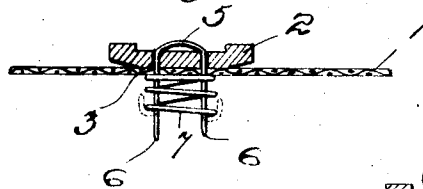


Fig. 4.

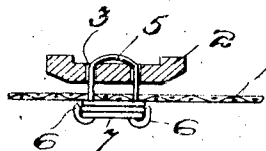
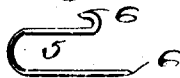


Fig. 6.

Fig. 5.



Witnesses

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UNITED STATES PATENT OFFICE.

JAMES L. NELSON, OF CLARKSVILLE, ARKANSAS.

BUTTON-FASTENING MEANS.

947,557.

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To all whom it may concern:

Be it known that I, JAMES L. NELSON, a citizen of the United States, residing at Clarksville, in the county of Johnson and State of Arkansas, have invented certain new and useful Improvements in Button-Fastening Means, of which the following is a specification, reference being had therein to the accompanying drawing.

10 This invention relates to buttons, and has particularly in view a fastener therefor which will yield to all strains placed upon the buttons so as to prevent the same tearing away from a garment or damaging the same.

The invention consists in the construction and arrangement of parts as will be herein-after described and particularly pointed out and claimed.

20 Figure 1 is a perspective view of a button attached to a garment by means of the improved resilient fastener. Fig. 2 is a top plan view of the same showing the button provided with two shanks arranged in crossed relation. Fig. 3 is a sectional view of a fastened button, showing the shank thereof just after having penetrated a garment and also indicating by dotted lines the manner of upturning the ends of the shank to form a seat for a spring. Fig. 4 is a perspective view of a type of spring used in connection with the present invention. Fig. 5 is a detail view of a shank for the buttons, one end thereof being upturned and the other straight. Fig. 6 is a sectional view similar to Fig. 3, but showing the relative position of the button and garment when a strain is upon the former.

Referring to the accompanying drawings by numerals, 1 designates a portion of a garment, 2 a button therefor which may be of the usual or any preferred type and provided with four eyes 3. A shank 5 which may be formed of a single length of wire bent to staple shape has its legs passed through two of the oppositely disposed eyes and through the garment, and the pointed ends 6 of said legs are outturned to form oppositely disposed seats for the lower convolution of a spiral spring 7. Said spring may be formed of three or more convolutions so that when seated in the ends of the legs

as indicated in Fig. 6 and compressed through strain exerted upon the button will be sufficiently long enough to prevent the pointed ends 6 of the shank from coming in contact with the garment.

In Fig. 2 of the accompanying drawings the same form of resilient fastener is employed, but the same is duplicated so that the staples pass through the eyes of the buttons in crossed relation. In this form of the invention the outturned ends of the shank provide seats for the lower convolution of the spring at four points.

It will be seen from the foregoing that the present button fastener is of especial value for use in connection with suspender buttons and the like where there are frequent and sudden strains imparted upon the button.

What I claim as my invention is:—

1. A device of the character described, comprising a button, a staple shaped penetrating shank therefor the ends of which form seats, and a convolute spring seated upon the ends of said shank and bearing upon the garment to which the button is attached, said spring being of such a length and having such a number of convolutions as to prevent the ends of the shank contacting with said garment when the spring is compressed.

2. A button fastening device comprising a button having edges, a staple having its shanks inserted through the eyes of the button, a convolute spring having each of its convolutions constructed of the same diameter, said spring being mounted over the shanks, the ends of the shanks being bent on opposite sides of the spring, to form seats for the spring and the latter adapted to bear upon the garment to which the button is attached, said spring being of such a length and having such a number of convolutions as to prevent the ends of the shank contacting with the garment when said spring is compressed.

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

JAMES L. NELSON.

Witnesses:

RUTH L. MOORE,
H. W. KISSEL.