

No. 654,247.

Patented July 24, 1900.

G. W. GWINN.
BUTTON FASTENER.

(Application filed Oct. 17, 1899.)

(No Model.)

FIG. I.

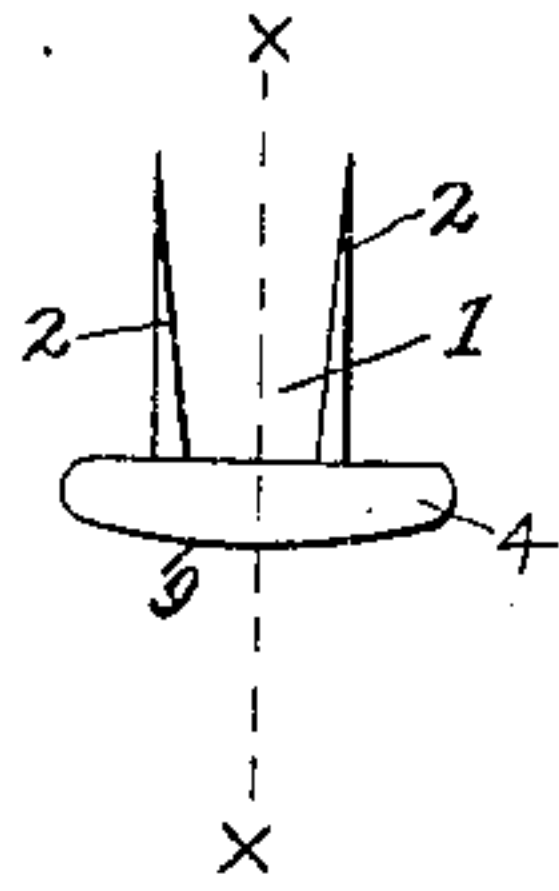


FIG. II.

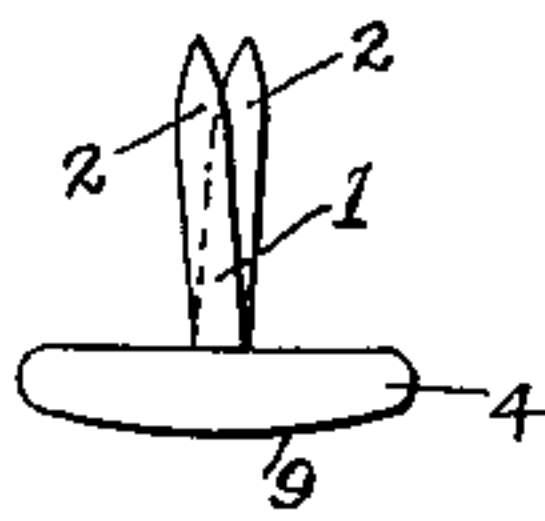


FIG. III.

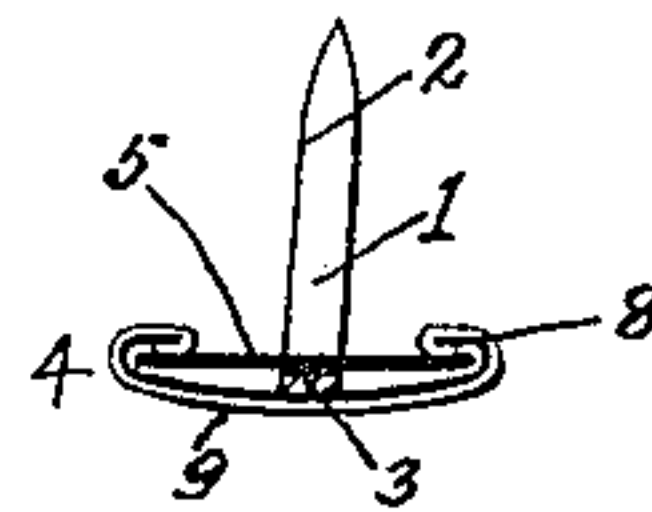


FIG. V.

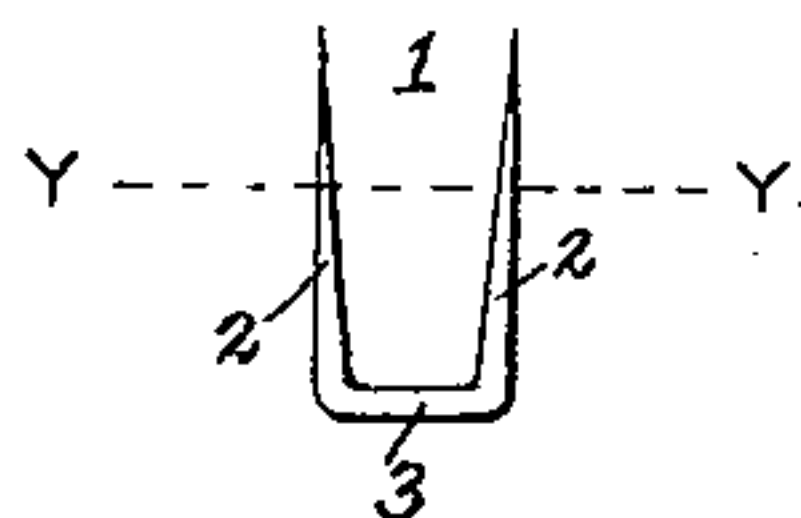


FIG. VI.

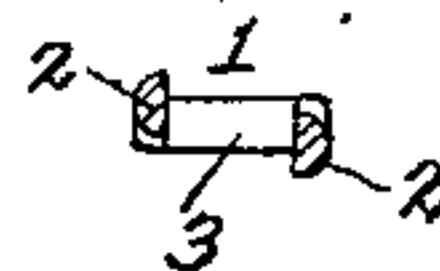


FIG. IV.

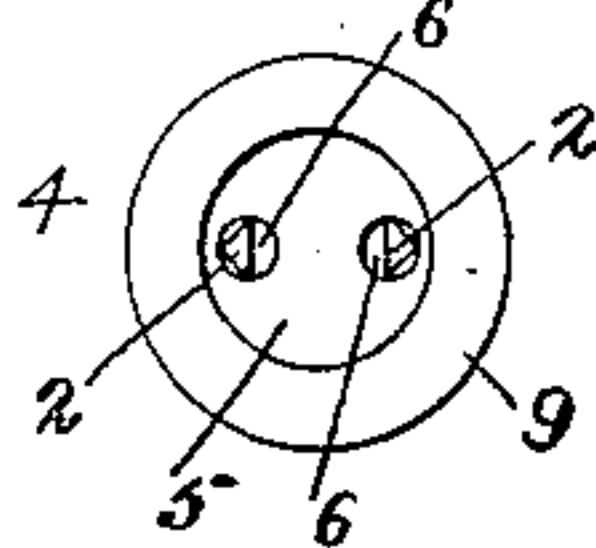


FIG. VII.

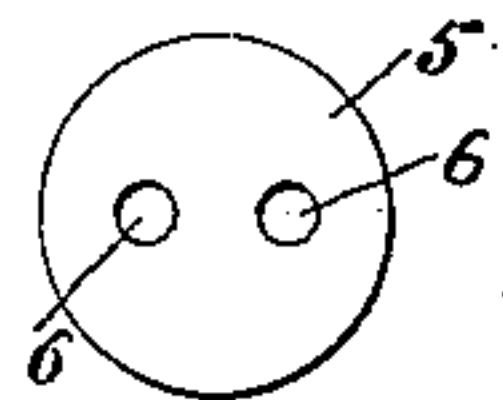


FIG. VIII.

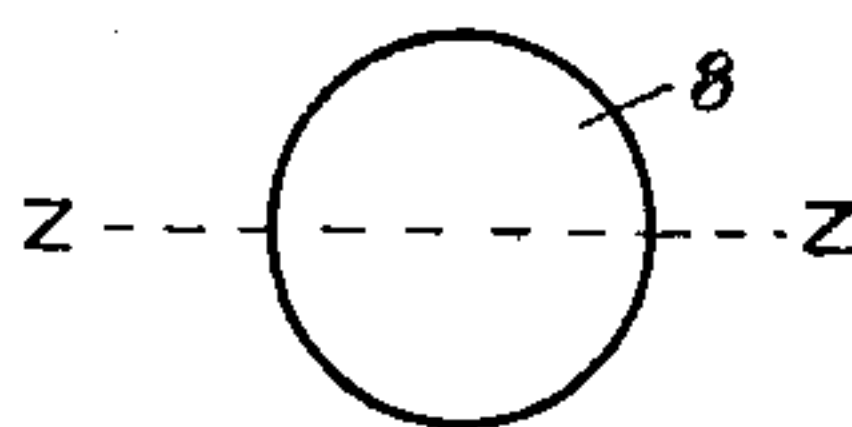


FIG. IX.

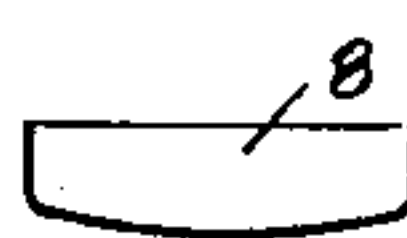


FIG. X.

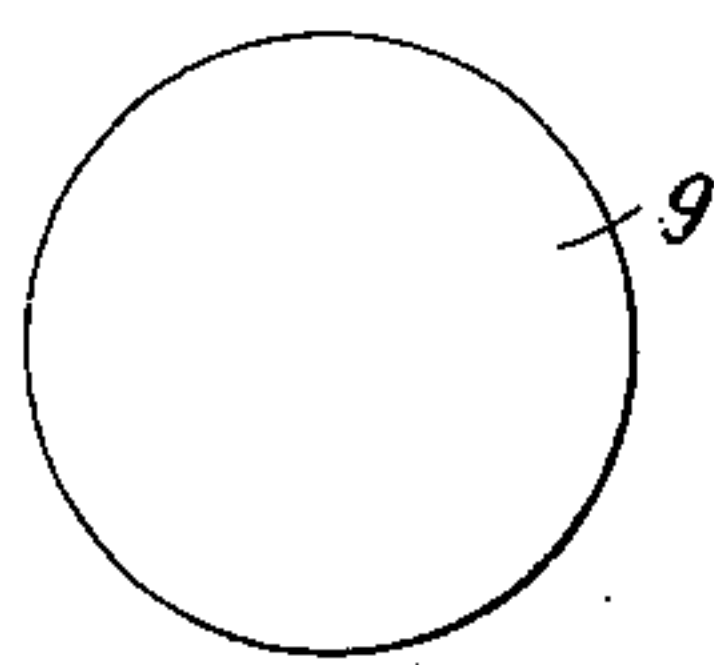


FIG. XI.



WITNESSES:

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UNITED STATES PATENT OFFICE.

GEORGE W. GWINN, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE RAYMOND BUTTON COMPANY OF BALTIMORE CITY, OF MARYLAND.

BUTTON-FASTENER.

SPECIFICATION forming part of Letters Patent No. 654,247, dated July 24, 1900.

Application filed October 17, 1899. Serial No. 733,884. (No model.)

To all whom it may concern:

Be it known that I, GEORGE W. GWINN, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Button-Fasteners, of which the following is a specification.

This invention relates to an improved button-fastener, and is particularly adapted for use with buttons having a bar across the center around which the legs of the fastener are crimped.

The object of the invention is to provide a fastener of such construction that the legs thereof can be easily crimped around the bar of the button without breaking the points and to so arrange the said legs as to permit them to pass each other in the operation of crimping and when the crimping is completed to present the appearance of stitches around the bar of the button.

Heretofore it has been necessary to use a crimper with a double concave face for fastening two prong-staples around the bar of a button; but by the use of my improved fastener a crimper with a single concave face may be employed with equal efficiency.

Other features of the invention will be fully set forth in the description of the accompanying drawings, in which—

Figure 1 represents a side view of the improved fastener. Fig. 2 represents an edge view of the same, showing the staggered position of the legs. Fig. 3 represents a sectional view taken on the line X X of Fig. 1. Fig. 4 is a plan view. Fig. 5 is a detail view of the staple. Fig. 6 is a sectional view taken on the line Y Y of Fig. 5. Fig. 7 represents a disk through which the legs of the staple project. Fig. 8 is a view of the cap by means of which the parts are held in position. Fig. 9 is a sectional view of the cap, taken on the line Z Z of Fig. 8. Fig. 10 is a cloth disk which fits over the head of the fastener. Fig. 11 is a view showing the legs of the staple crimped around the bar of the button, only the bar of the button being shown.

1 represents the staple, formed with legs 2, having flat inclined inner faces sheared in opposite directions, as shown in Figs. 1 and 5, and round outer faces, and a cross-bar 3,

having flat inner and outer faces, the purpose of which will be presently pointed out. The legs 2 of the staple are set in a staggered position, as shown in Fig. 2, thereby throwing the points out of line with each other. Thus it will be seen that when the legs are brought together in the operation of crimping the points will pass each other and be curled around the bar of the button, as shown in Fig. 11. By this arrangement the necessity of a crimper with a double concave face is obviated, and a crimper with a single concave face may be used with equal efficiency.

The head 4 of the fastener in this instance is formed of a metal disk 5, having apertures 6, the cap 8, and cloth disk 9. The said parts are secured together as follows: The metal disk 5 is slipped over the legs of the staple and rests upon the flat surface of the cross-bar 3. The disk 5 and staple 1 are placed within the cap 8, and the cloth disk 9 is then placed on the outside of the said cap 8, and by means of a suitable tool the edges of the cloth are turned over the cap and the latter pressed down firmly against the metal disk 5, as shown in Fig. 3, thereby gripping the parts tightly together. By having the inner and outer faces of the cross-bar 3 flat the legs will be held firmly in position when the parts are secured together.

Having thus described my invention, what I claim is—

1. A button-fastener consisting of the legs, 2, formed with flat inner faces sheared at an angle to a vertical plane through the axis of the legs and perpendicular to the cross-bar, and round outer faces, said legs being set in a staggered position whereby the points are thrown out of line with each other.

2. A button-fastener consisting of the legs, 2, formed with flat inner faces sheared at an angle to a vertical plane through the axis of the legs and perpendicular to the cross-bar, and round outer faces, said legs being set in a staggered position whereby the points are thrown out of line with each other; and a head, 4.

3. A button-fastener consisting of a cross-bar, 3; and legs, 2, formed with flat inner faces sheared at an angle to a vertical plane through the axis of the legs and perpendicu-

lar to the cross-bar, and round outer faces, the said legs projecting laterally from the cross-bar, 3, and incline in opposite directions from each other.

5 4. In a button-fastener the combination of the legs, 2, rounded on their outer faces and provided with flat inner faces sheared at an angle to a vertical plane through the axis of the legs and perpendicular to the cross-bar, 10 the points of the legs being out of line; a disk, 5, having apertures, 6; and a cap, 8.

5. In a button-fastener the combination of the legs, 2, rounded on their outer faces and

provided with flat inner faces sheared at an angle to a vertical plane through the axis of 15 the legs and perpendicular to the cross-bar, said legs having a staggered position whereby the points are thrown out of line with each other; a disk, 5, having apertures, 6; a cap, 8; and a fabric disk, 9. 20

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

GEORGE W. GWINN.

Witnesses:

THOS. C. BAILEY,

CHAPIN A. FERGUSON.