(No Model.)

V. H. GEISLER.

COMBINED COLLAR BUTTON AND NECKTIE FASTENER.

No. 590,519. Patented Sept. 21, 1897.

Fig. 1.

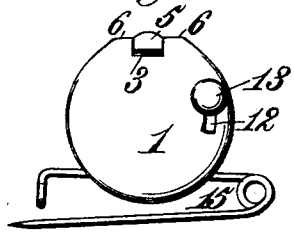


Fig. 2.

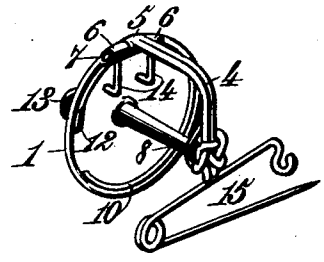


Fig. 3.

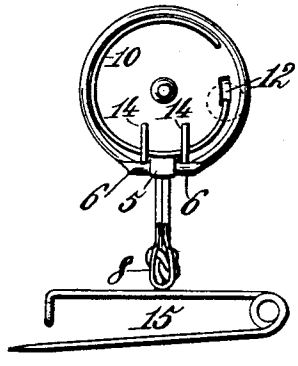


Fig. 4.

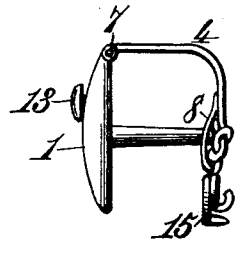
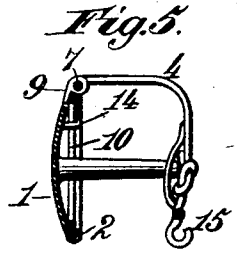


Fig. 5.



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VICTOR H. GEISLER, OF CHICAGO, ILLINOIS.

COMBINED COLLAR-BUTTON AND NECKTIE-FASTENER.

SPECIFICATION forming part of Letters Patent No. 590,519, dated September 21, 1897.

Application filed March 20, 1897. Serial No. 628,504. (No model.)

To all whom it may concern:

Be it known that I, VICTOR H. GEISLER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented new and useful Improvements in a Combined Collar-Button and Necktie-Fastener, of which the following is a specification.

My invention relates to combined collar-buttons and necktie-fasteners, my purpose being to provide a novel and simple construction and arrangement of parts whereby the shank of the button may readily penetrate the buttonholes of both collar and shirt and be rigidly and automatically locked in engagement with a retaining-head by merely turning the latter into its position, the point of the shank entering the head an instant before the locking device makes its engagement, whereby the collar is securely fastened and the locking effected without effort by the user aside from inserting the shank in the buttonholes.

It is a further object of my invention to provide a collar-button for a combined device of the class specified in which the button-head shall be provided with a rigid shank and connected by a joint to a fastening-head carried by an angular frame, which is locked by novel and simple means, operating automatically and holding the point of the shank firmly and rigidly in engagement with the fastening-head.

Finally, my invention comprises novel means for releasing the locking devices, and it is so organized that the collar-button with its hinged retaining-head and automatic means for locking and releasing the same may be used with or without the tie fastening and adjusting devices.

Said invention consists to the ends specified in the novel features of construction and in the new combinations of parts hereinafter fully described, and then particularly pointed out and defined in the claims which conclude this specification.

For the purposes of the following description reference will be had to the accompanying drawings, in which—

Figure 1 is a face elevation or front view of a combined collar-button and necktie-fastener in which my invention is incorporated. Fig. 2 is a perspective view taken from the side opposite to that shown in Fig. 1. Fig. 3 is a rear elevation showing the button turned to remove the point of its shank from the retaining-loop in the end of the angular frame. Fig. 4 is a side elevation showing the parts in the same relative position. Fig. 5 is a central section showing the button closed.

The reference-numeral 1 in the said drawings indicates a collar-button head of any preferred pattern and shape, the form shown in the present instance being a disk of suitable metal stamped or otherwise produced in such manner as to present a concavo-convex form, the convex face being the outer. It should be clearly understood that although this form is shown and described as being suitable for the explanation of the invention it constitutes no feature of the latter, as I may use any pattern, shape, or ornamentation. For example, a gold bug or any insect formed either of gold, silver, aluminium, plated metal, or alloys, or of any other material suitable for the purpose may be employed instead of the plain and simple disk shown in this application. Such substitutions involve no material changes in the invention.

Upon the concave face of the disk 1 is formed a narrow flange 2, which projects rearward. In this flange and extending a little into the edge of the disk is a notch 3, in which is inserted the end of a frame 4, preferably, but not necessarily, formed of two strands of wire lying close together. The ends of these strands are united to a short tube 5, which is inserted in the notch 3 between two similar parts 6, a wire 7 being then inserted in all three and so fastened that it cannot accidentally work out. This construction provides a hinge-joint for the frame 4. This frame is of angular form, being bent about midway of its two ends to a right angle, or substantially so. The length of the first arm of the angular frame measured from this angle to the hinge-joint is regulated by the use to which the invention is put. If the button is to be used to fasten the band of a shirt and the two ends of a collar, the length of this part of the frame must be proportioned to the thickness of the several layers of fabric, since the said part will pass over their lapped edges in order to

bring the other arm of the frame behind the lapped portions. Upon the end of this second arm is formed or mounted a loop or eye 8, which will lie, when the button is properly placed, directly in rear of the overlapped ends of the band of the shirt and in line with the buttonholes.

Upon the exterior of the central member 5 of the angular frame 4 is formed or attached a cam-lug 9, so located that when the button-head 1 or frame 4 is turned till the hinged part of said frame is at a right angle to the disk said cam-lug will lie partly in line with the flange 2 and partly against the concave face of the disk. Coiled just within the flange 2 is a spring 10, having one end rigidly secured. After passing the hinge-joint said spring is extended to a short slot 12, curved slightly, and the end of the spring is bent at a right angle to its body and passed through the slot. The end which projects slightly on the convex face of the disk is secured to a button 13, which can be easily moved in such manner as to cause the end of the spring to move to the end of the slot 12, thereby drawing the body portion of the spring away from the hinge-joint. When the button 13 is released, the spring 10 snaps back to its place just within the flange 2.

When the frame 4 or button 1 is turned, the cam-lug will have its convex or cam face pressed against the spring 10, which will be forced away from the flange 2 until said lug is arrested by coming against the concave face of the disk. At the same instant the spring will snap over the concave or outer face of the cam-lug and be firmly held by keepers 14, which prevent the spring from yielding to force pressing it away from the disk.

Upon the free end of the frame 4, which carries the loop 8, is attached a safety-pin 14 or other similar fastening, by which a combined collar-button and necktie fastener or adjuster is provided. The button may, however, be used without the device last named, the construction and function being in no respect changed by its addition or removal.

This invention furnishes an extremely convenient article capable of serving both the purposes referred to and can be manufactured at small cost. The manner of supporting the spring by the keepers 14 enables me to use a very light wire for said spring, which not only reduces the cost of material, but enables the parts to operate much more easily. As the keepers 14 lie one on each side of the cam-lug 9 and close to the latter they are able to resist a considerable pressure. Moreover, any attempt to open the collar-button without operating the button 13 will merely draw the spring 10 against the flange 2 on each side of the notch 3, so that a very efficient locking device is provided without the expense of making accurately-fitted latches and duplicate springs.

What I claim is—

1. In a combined collar-button and necktie-fastener, the combination with a button-head provided with a shank, of an angular frame hinged to the button-head and constructed to engage the end of said shank, a spring-lock carried by the button-head, and a fastener mounted on the free end of the angular frame, substantially as described.

2. The combination with a button-head provided with a rigid shank, of an angular frame hinged to one edge of the button-head and provided with a loop at its end, a cam-lug on the hinged frame, and a spring lying against the flange on each side of the hinge to engage said cam-lug when the hinged frame is closed to engage its loop with the end of the shank, substantially as described.

3. The combination with a button-head provided with a flange and a slot, of an angular frame hinged in a notch in said flange, a spring secured rigidly at one end to the button-head and pressing against the flange with its free end lying in said slot, a button secured to the free end of the spring, a cam-lug on the hinged frame having a cam-face to receive the spring when the frame is closed, and keepers for the spring on each side of said cam-lug, substantially as described.

4. The combination with a button-head having a rigid shank, of an angular frame hinged at one end in a notch in a flange on the button and having an eye or loop at the other end to receive the end of said shank, a spring having one end rigidly secured to the button and its main portion pressing against the flange on each side of the hinge, its free end being movable in a slot in said button-head and having a rigidly-attached button outside the latter, and keepers mounted on the button-head on both sides of a cam-lug on the hinge, substantially as described.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

VICTOR H. GEISLER.

Witnesses:
SAM S. BUCKLIN,
WM. LINDSAY.