

(No Model.)

A. S. COOLEY.

ATTACHING DEVICE FOR BADGES OR BUTTONS.

No. 581,413.

Patented Apr. 27, 1897.

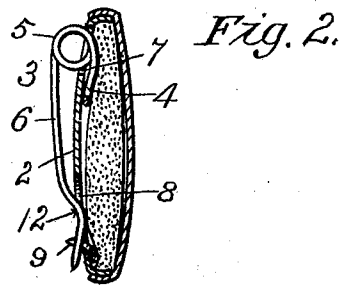
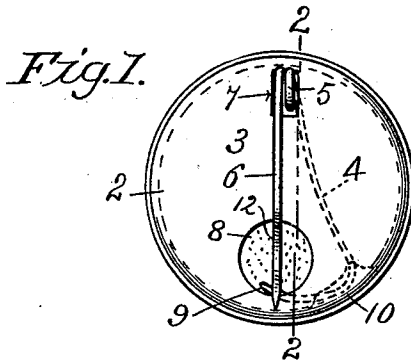


Fig. 3.

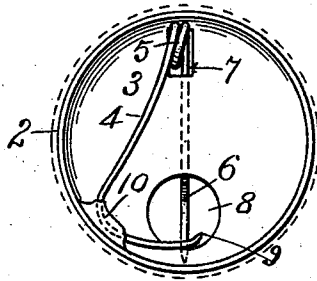


Fig. 5.

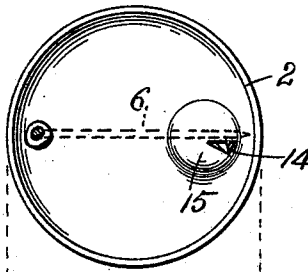


Fig. 4.

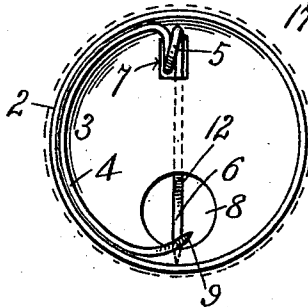
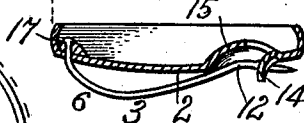


Fig. 6.



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UNITED STATES PATENT OFFICE.

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ATTACHING DEVICE FOR BADGES OR BUTTONS.

SPECIFICATION forming part of Letters Patent No. 581,413, dated April 27, 1897.

Application filed November 24, 1896. Serial No. 613,282. (No model.)

To all whom it may concern:

Be it known that I, AMOS S. COOLEY, a citizen of the United States, residing at Springfield, in the county of Hampden and State of Massachusetts, have invented new and useful Improvements in Attaching Devices for Badges or Buttons, of which the following is a specification.

This invention relates to badge or button attaching devices, the object being to provide an improved back collet, combined with a device secured or attached thereto, for use with any desired face part in the construction of either a badge or button, whereby the completed structure may be conveniently and securely attached to clothing or other objects and guarded against accidental disconnection therefrom; and the invention consists in the peculiar construction of said collet and the said attaching part connected thereto, all as hereinafter fully described, and more particularly pointed out in the claims.

In the drawings forming part of this specification, Figure 1 is a rear side elevation of a badge or button collet and of an attaching device therefor embodying my improvements. Fig. 2 is a cross-sectional view of a complete button or badge containing said improvements. Fig. 3 is an inside plan view of said collet. Figs. 4 to 6, inclusive, illustrate modifications of the construction shown in the preceding figures.

Referring to the drawings, 2 indicates the back collet of the device, and 3 the collet-attaching device, which comprises a wire construction embodying therein an attaching-arm 4, by which it is attached to said collet, a coil-spring 5, and a collet-attaching bar or pin 6, extending from said coil-spring across the outer surface of said collet, as shown. The said collet is preferably constructed with an opening 7 therethrough, in which said coil occupies a position whereby the parts extending from said coil-spring may extend, as shown, opposite the inner and outer surfaces of the collet. The said collet is also provided with a second opening 8, of circular or other suitable form, which permits of the projection outwardly of a point or part 9 of the said wire part 4, said part 9 projecting, as shown in Figs. 1, 2, and 3, beyond the outer surface of said collet near the point of said pin 6 and serves

as a guard or obstruction in close proximity to said pin for engaging the garment or substance to which said button may be attached, which prevents the accidental disconnection of the collet or said completed structure from said garment or other thing to which it is applied, since any inclination to such disconnection occasioned by a sliding motion of the device upon a garment would be obstructed by the engagement of said point 9 with the fabric. The said attaching-arm 4, which lies against the inner face of the collet, as shown, is preferably secured at one point thereof at 10 by soldering the same to the collet, whereby the said wire parts, embracing the arm 4, the coil-spring 5, and the bar 6, are retained in proper operative positions on the collet. The said bar 6 is held with more or less force against the outer surface of said collet by said spring 5 and is given the form indicated in Figs. 2 and 6, whereby is produced thereon a bent angular portion 12, which constitutes a bearing-point of the attaching-bar 6, which may lie against the outer surface of the collet or extend through the opening 8 in the collet, as indicated in Figs. 2, 3, and 4. Said angular form of the bar 6 also provides for the termination of the point of said bar in a position more or less separated from the adjoining side of the collet, as shown in Fig. 2, whereby said point of the attaching-bar 6 is brought into proper juxtaposition to the side of said point 9 and thus, together with the latter, serves to guard against the accidental detachment of the device from the garment, as aforesaid. Also, the said angular form (indicated at 12) in said bar 6 constitutes such a divergence from the line of said bar between the spring 5 and its free end as constitutes an obstruction to the easy removal of the device from a garment by reason of the bearing of said angular point under the force of the spring 5 against the side of the collet or to a position within the opening 8 therein.

The modified construction illustrated in Figs. 5 and 6 provides said bar 6 without said spring 5, but having its inner end soldered or otherwise suitably fixed to the inside of the collet, as at 13, and it provides a collet having a portion of the body thereof stamped out to provide a guard-point 14, which serves the same purpose as said point

9 in connection with the free end of said bar 6. In said Fig. 6 instead of forming the opening 8 therein a depression 15 is formed, which permits the descent thereinto of said angular portion 12 below the outer face of the collet substantially in the same manner as is provided for by said opening 8, as shown in Figs. 2, 3, and 4.

The modification illustrated in Fig. 4 provides for a circular formation of the arm 4 within the collet, which obviates, if desired, the attachment thereof by soldering, as indicated in the preceding figures.

The bar 6 of Fig. 6 is attached by one end to the inside of the collet at 17 by passing said end through said collet and securing it then by soldering to the inner surface thereof.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The combination with a badge or button collet, of means for attaching said collet to a garment or like material, comprising an attaching-pin extending across the outer side of the collet, having one end extending through said collet and attached to the inner side thereof, the extremity of said inner end extending outwardly through an opening in said collet above the outer surface thereof and in proximity to the free end of said pin for engaging said garment, and a coil-spring intermediate of the two extremities of said attaching-pin, substantially as described.

2. The combination with a badge or button collet, having the openings 7 and 8, there-through, of means for attaching said collet to a garment or like material comprising an attaching bar or pin extending from opposite said opening 8, across the outer side of the collet, having one end extending through

said opening 7, and attached to the inner side of the collet, the extremity of said inner end extending outwardly through said opening 8, in proximity to the free end of said pin for engaging said garment and a coil-spring located in said opening 7, intermediate of the two extremities of said pin, substantially as described.

3. The combination with a badge or button collet having the openings 7 and 8 there-through, of means for attaching said collet to a garment or like material comprising an attaching bar or pin having a bent angular portion 12, extending from opposite said opening 8, across the outer side of the collet having one end extending through said opening 7, and attached to the inner side of the collet, the extremity of said inner end extending outwardly through said opening 8, in proximity to the free end of said pin for engaging said garment, and a coil-spring located in said opening 7, intermediate of the two extremities of said pin, substantially as described.

4. The combination with a badge or button collet, of means for attaching said collet to a garment or like material, and for preventing the accidental detachment of said collet therefrom, comprising a spring-actuated pin extending across the outer side of the collet having the angular portion 12 therein, near its point, and a guard extending outwardly from the surface of said collet, in proximity to said pin for engaging said garments, and means for attaching said pin to said collet, substantially as described.

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