

C. B. A. SCHAEFER.
COLLAR FASTENER.
APPLICATION FILED MAR. 11, 1908.

979,342.

Patented Dec. 20, 1910.

Fig. 1.

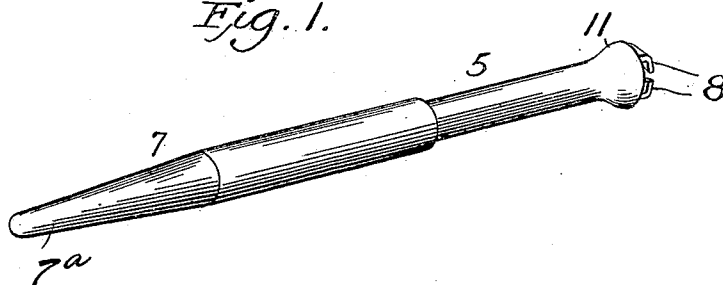


Fig. 2.

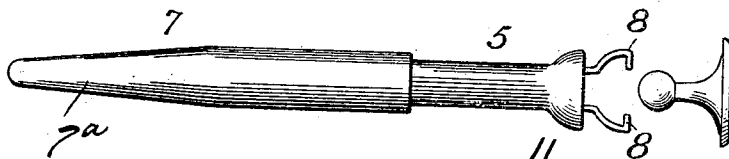


Fig. 3.

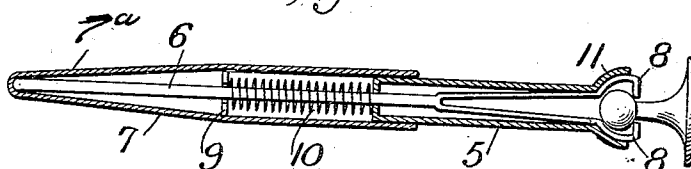
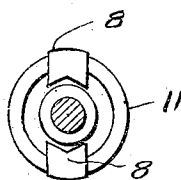


Fig. 4.



WITNESSES

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COLLAR-FASTENER.

979,342.

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To all whom it may concern:

Be it known that I, CHARLES B. A. SCHAEFER, a citizen of the United States, residing at New York, in the county of New York and State of New York, have invented new and useful Improvements in Collar-Fasteners, of which the following is a specification.

This invention relates to collar fasteners or more especially that class of devices which is used to more easily adjust a collar so that it can be readily fastened on the collar button of a shirt as will be more fully described in the following specification, set forth in the claim and illustrated in the drawings, where the same reference characters designate the same parts in the different views and where Figure 1 is a perspective view of my improved device. Fig. 2 is a side view of the fastener with the jaws opened to grasp the button. Fig. 3 is a longitudinal sectional view of same showing how the collar is placed on its button. Fig. 4 is a detail front view of the jaws.

This device is intended to overcome the difficulty experienced in the final act of buttoning a collar on the collar band of a shirt and by the use of this fastener a sufficient amount of leverage is secured to easily accomplish same.

The device consists of a cylindrical case 5 of such size as may be easily carried in the pocket and having a closed and an open end, the former being perforated to permit of the movement therein of a plunger 6 secured to an outer shell 7 while the open end permits of the play of the spring jaws 8 secured to the other end of the plunger and controlled by same. The outer ends of these jaws curve inward toward each other and are notched to permit the ends to grasp the head of the button. The interior of the outer case 7 is provided with a washer or pins 9 and between same and the head of the case 5 is confined a coiled spring 10 to force the case outward. When the two cases are extended the bell shaped mouth 11 of the inner case engages and compresses the jaws 8 so that they grasp the head of the collar button as shown in Fig. 3. This extension is accomplished by the tension of the spring 10 but when it is desired to have the device grasp the head of the button the case 5 is held in two fingers while a third finger presses the end of the outer case 7 and the spring 10 is compressed and the spring jaws

are permitted to spread in consequence of the bell 11 leaving the jaws 8 as shown in Fig. 2.

To operate this device it is run through the button hole of a collar and allowed to grasp the button as above described and the button hole is then slipped over the bell 11 and on the shank of the button.

It is often the case that when the collar fits tightly it may have to be drawn about the neck to cause the hole to reach the button. This device readily performs this action and readily permits of the release of the collar when it is in position to be placed on the button.

The tube 7 is tapered at one end as shown at 7^a so that when using the device the walls of button holes in collars, cuffs or the like can be effectively separated when the said tapered end is driven or moved through such holes in order to effect a passage which will readily permit of the entrance of the bell shaped mouth.

From the construction of the device described it will be seen that by providing the tube 7 to produce the tapering portion terminating in a point, such end of the device can be passed through the buttonhole to enlarge the same before the insertion of the bell-shaped end of the tube 5 into the hole. By constructing the tube 5 of uniform diameter and with a bell mouth and with a plunger fixed within the pointed end of the tube and having jaws forming in configuration to and adapted to fit within the bell mouth and of a radius less than that of the mouth, and the jaws having such a length longitudinally when placed within the bell mouth that will be disposed wholly within the plane of curvature of the outer surface of the bell mouth so that the edge of the collar button in riding over the bell mouth will pass onto the button without contacting with the jaws.

What I claim as new and desire to secure by Letters Patent is:

A collar fastener including two telescopic tubes, one of said tubes having a portion of gradually decreasing diameter toward one end and a portion of uniform diameter, the portion of reduced diameter terminating substantially in a point to permit the passage of the device through a collar button opening, the second tube being slidably mounted in the portion of uniform diameter of the first mentioned tube, that end of the second tube remote from its connection with

the first tube having a bell shaped mouth, a
plunger fixed at one end in the pointed end
of the first tube and extending loosely
through and within the second tube, said
5 plunger being within the second tube di-
vided to provide opposite jaws having their
terminal ends bent to fit within the curva-
ture of the bell mouth and having a length
approximately equal to the longitudinal ex-
10 tent of the bell mouth, the free end of the
terminal of each jaw being inwardly bent
to provide a hook end, and a spring housed
within the first mentioned tube and operat-
ing to force the tubes apart to cause the bell
15 mouth of the second tube to practically in-
close the curved terminals of the jaws and

force their hook ends together, the curvature
of the jaws being on a less radius than that
of the bell mouth and said jaws having such
a longitudinal length that when housed 20
within the bell mouth their free longitudinal
ends will be arranged wholly within the
plane of curvature of the outer surface of
the bell mouth, whereby the edges of the
collar button opening in passing over the 25
bell mouth will avoid contact with the jaws.

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

CHARLES B. A. SCHAEFER.

Witnesses:

JAMES F. DUHAMEL,
MAE W. CLINTON.