No. 717,714. PATENTED JAN. 6, 1903.

H. G. QUIMBY.

COLLAR BUTTON.

APPLICATION FILED OCT. 15, 1902.

NO MODEL.

Fig. 1.

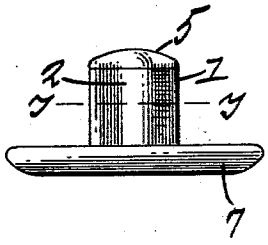


Fig. 2.

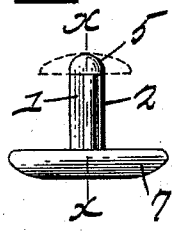


Fig. 3.

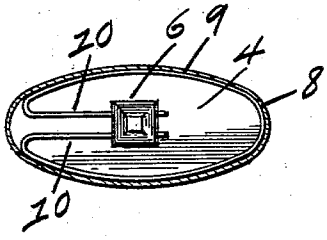


Fig. 4.

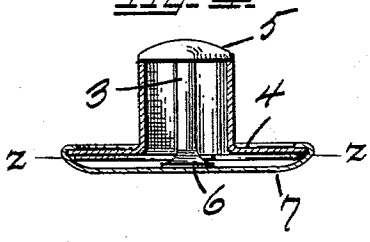


Fig. 5.

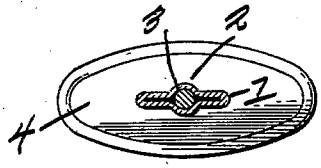


Fig. 6.

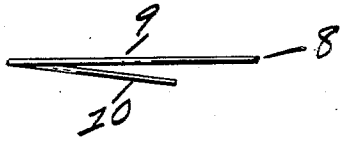
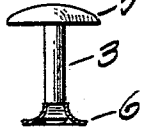


Fig. 7.



WITNESSES.

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UNITED STATES PATENT OFFICE.

HENRY G. QUIMBY, OF TOLEDO, OHIO.

COLLAR-BUTTON.

SPECIFICATION forming part of Letters Patent No. 717,714, dated January 6, 1903.

Application filed October 15, 1902. Serial No. 127,342. (No model.)

To all whom it may concern:

Be it known that I, HENRY G. QUIMBY, a citizen of the United States, residing at Toledo, in the county of Lucas and State of Ohio, have invented certain new and useful Improvements in Collar-Buttons; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention has reference to a collar-button of the class employing a rotatable head; and it relates particularly to a simple and inexpensive construction for securing the rotatable head in any of the various positions which it may be made to assume about its axis of rotation.

The invention consists in the novel arrangement of the parts hereinafter fully set forth, and illustrated in the drawings which accompany and form part of this specification.

Figure 1 is a side elevation of my improved collar-button. Fig. 2 is an end elevation of the same. Fig. 3 is a bottom plan view of the same, partly in section, the section indicated being taken on line *z z*, Fig. 4. Fig. 4 is a vertical section on line *x x*, Fig. 2. Fig. 5 is a sectional plan view, the section being taken on the line *y y*, Fig. 1. Fig. 6 is a detached elevation of the wire spring member; and Fig. 7 is an elevation of the rotatable stem, showing the flaring plate in section on one end thereof.

In the drawings, 1 is a flattened shank formed with a hollow central portion 2 to receive a rotatable stem 3. The shank, as shown, is preferably formed out of sheet metal, so as to be integral with the elliptical plate 4. The same may, however, be formed independent of the plate 4 and secured thereto by soldering or otherwise when the parts of the button are assembled.

Upon the end of the stem 3 is a head 5, which forms a continuation of the flattened shank 1, the upper surface of the head being rounded to permit of being easily inserted into a buttonhole. Upon the lower end of the stem is secured a flaring plate 6. This plate is formed from a square piece of sheet metal, a perforation being formed centrally thereof previous to being pressed into the required shape. The plate is flared by drawing out the marginal edges of the central perforation, ridges being formed on the same at quarterly distances by this operation.

7 is a sheet-metal cap, the marginal edges of which are rolled over to embrace the edges of the elliptical plate 4, thereby forming a hollow elliptical base for the button. Disposed within the hollow base and firmly held from rotation by engagement with the marginal edges of the cap is a wire spring member 8, having a portion thereof, 9, bent in the form of an ellipse to correspond with the form of the base and having free ends 10, adapted to embrace the flaring plate 6. When the spring member 8 is detached from the button, the free ends 10 normally lie in a plane at an angle to the plane of the elliptical portion 9, as shown in Fig. 6, so that when the spring is assembled in the button the free ends will also exert a downward tension upon the flaring plate, and consequently insure contact of the rotatable button-head with the upper end of the button-shank. It is apparent that instead of providing a separate plate to be attached to the lower end of the stem the stem itself may be drawn out and flared, said flaring end performing the same function as the plate 6. I prefer, however, to attach the plate to the stem, as the assembling of the button is greatly facilitated by this construction.

I prefer to construct the rotatable stem and the head thereon in one piece, and after the stem is inserted into the hollow portion of the shank the flaring plate is secured by upsetting the lower end of the stem. Obviously the insertion of the stem would be precluded were the plate secured thereon before insertion.

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

1. In a collar-button, a hollow elliptical base, a shank thereon, a stem rotatably mounted in the shank, provided with a head at its outer end and formed with a flaring inner end, and a spring member disposed within the base having an elliptical portion to fit the interior of the base, and having free ends adapted to embrace the flaring end of the rotatable stem, substantially as set forth.

2. In a collar-button, a hollow elliptical

base, a shank secured upon the base, a stem rotatably mounted in the shank, provided with an integral head at one end and having a flaring plate secured at its inner end, and a spring member disposed within the base, having an elliptical portion to fit the interior of the base, and having free ends normally in a plane at an angle to the plane of the elliptical portion, and adapted to embrace the flaring plate to hold the button-head at quarterly distances about its axis of rotation, and also to hold the button-head in contact with the upper end of the shank by exerting a downward tension upon the rotatable stem, as shown and described.

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

HENRY G. QUIMBY.

Witnesses:
CARL H. KELLER,
JAS. W. CORWIN.