

G. GRUNWALD.
COLLAR BUTTON.

(Application filed Apr. 23, 1901.)

(No Model.)

Fig. 1.

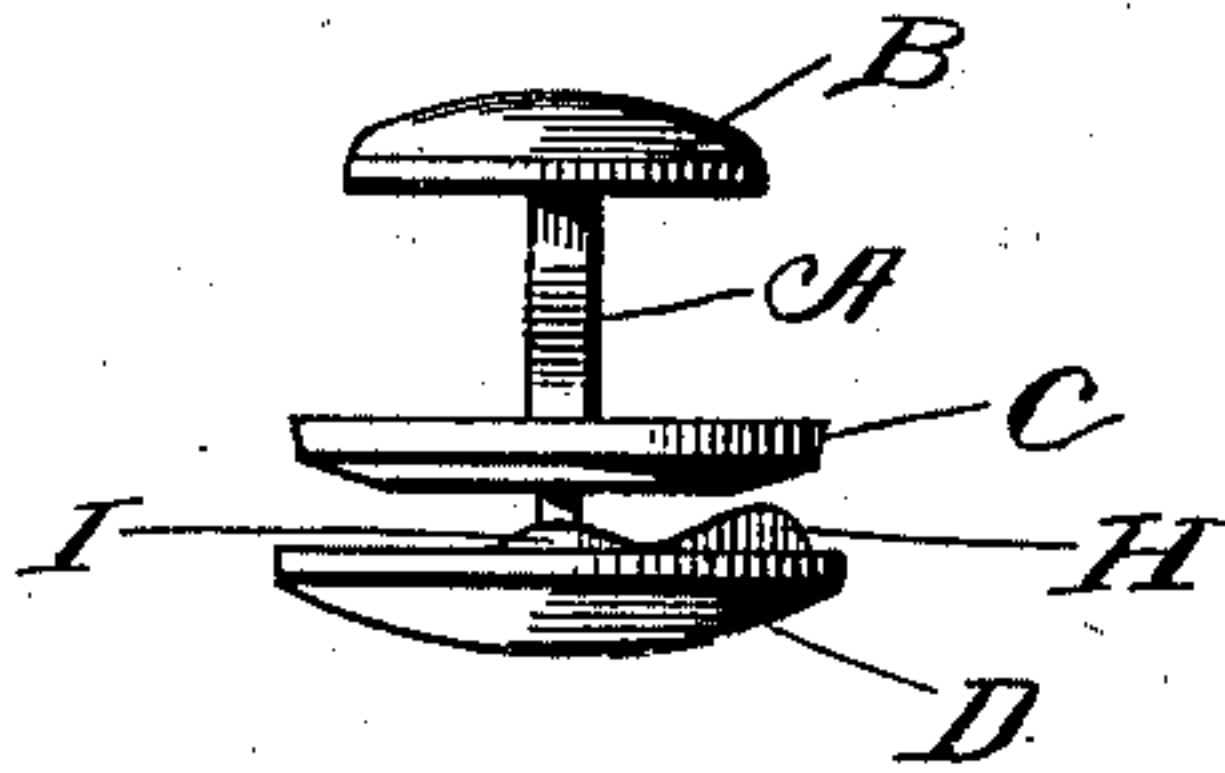


Fig. 2.

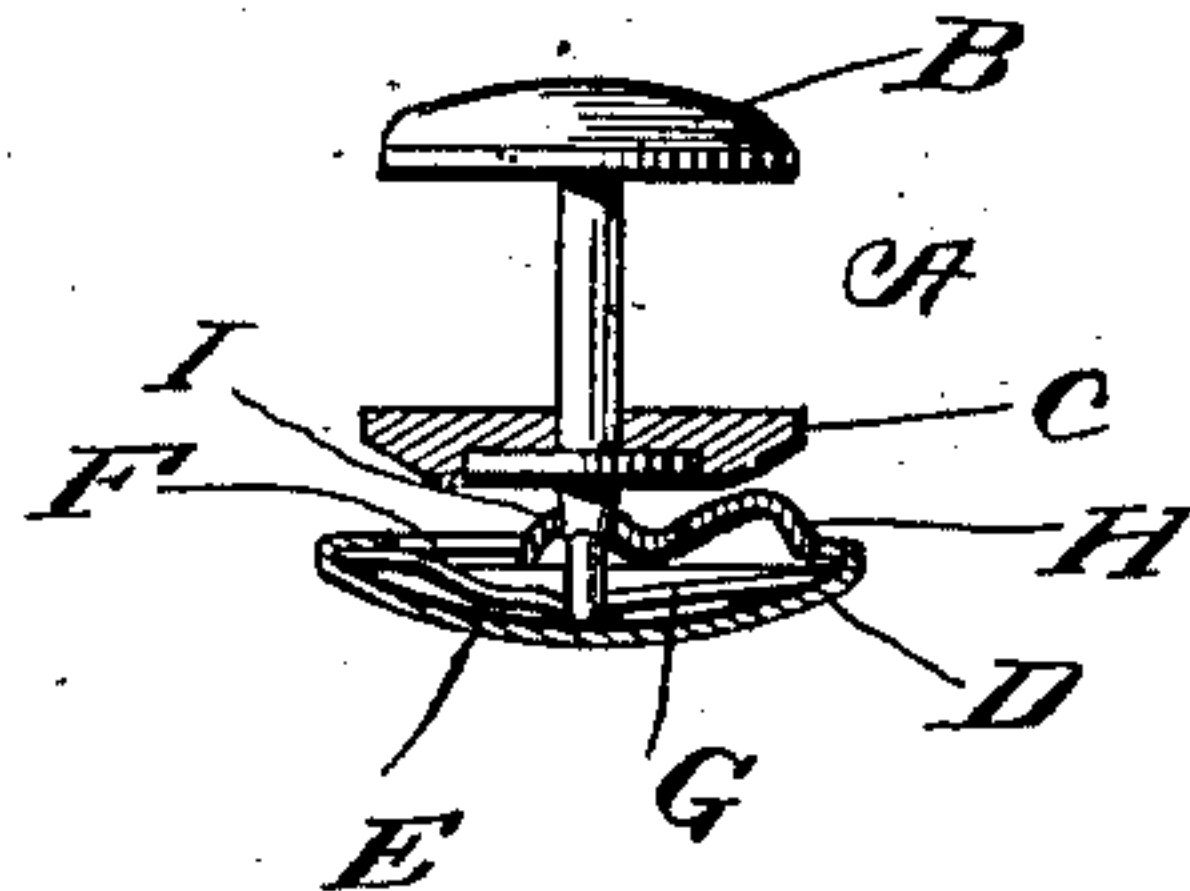


Fig. 3.

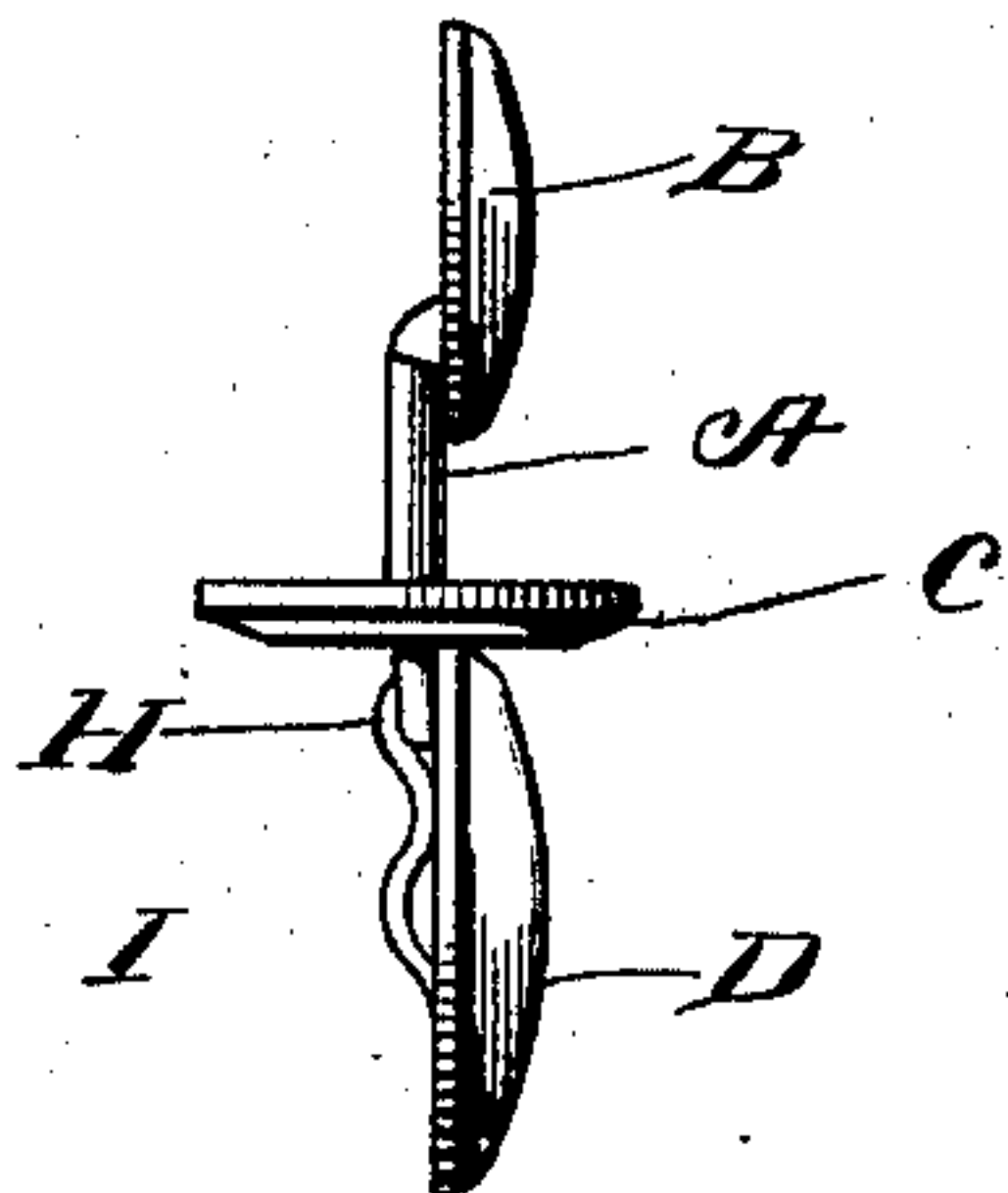


Fig. 4.

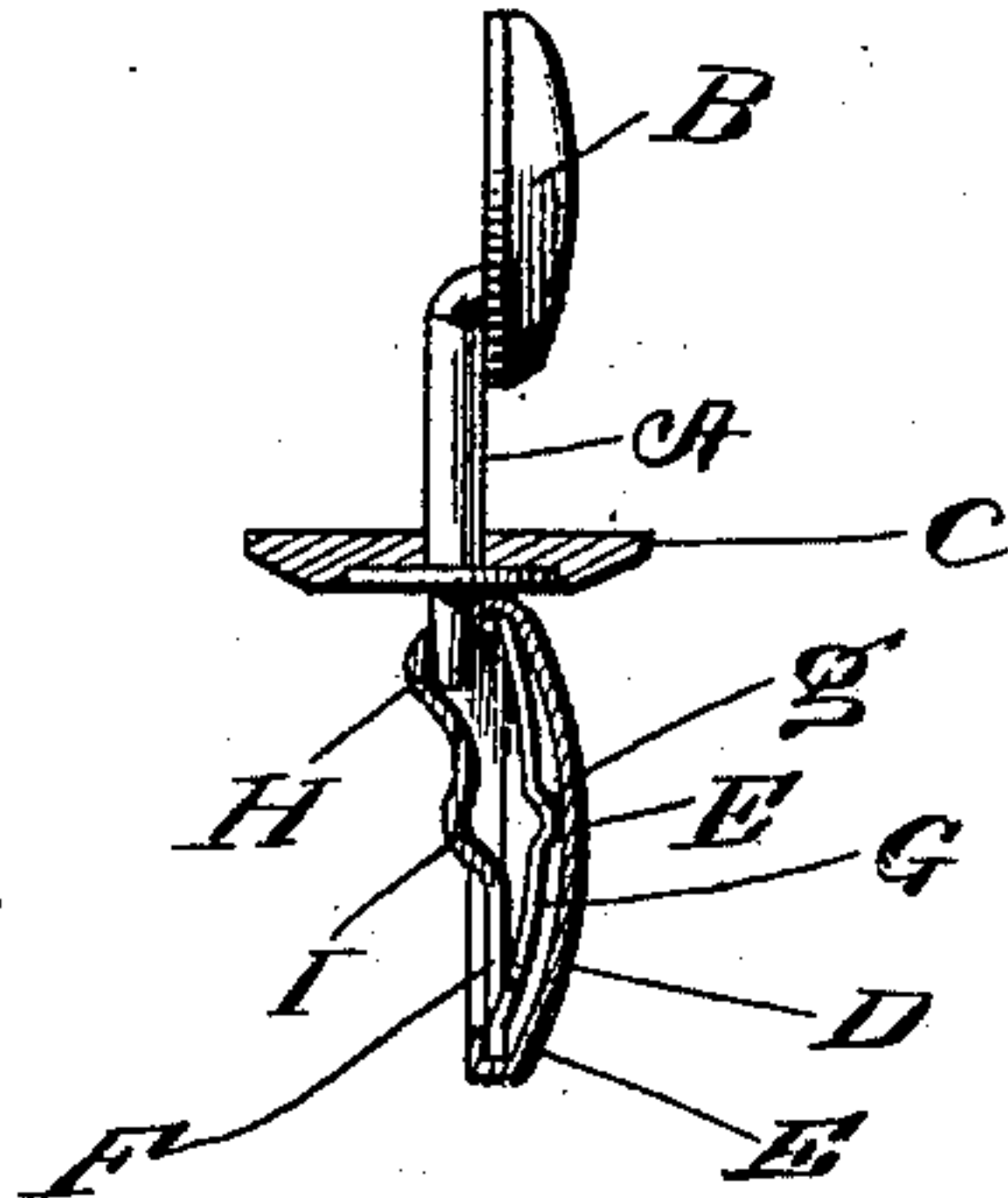


Fig. 5.

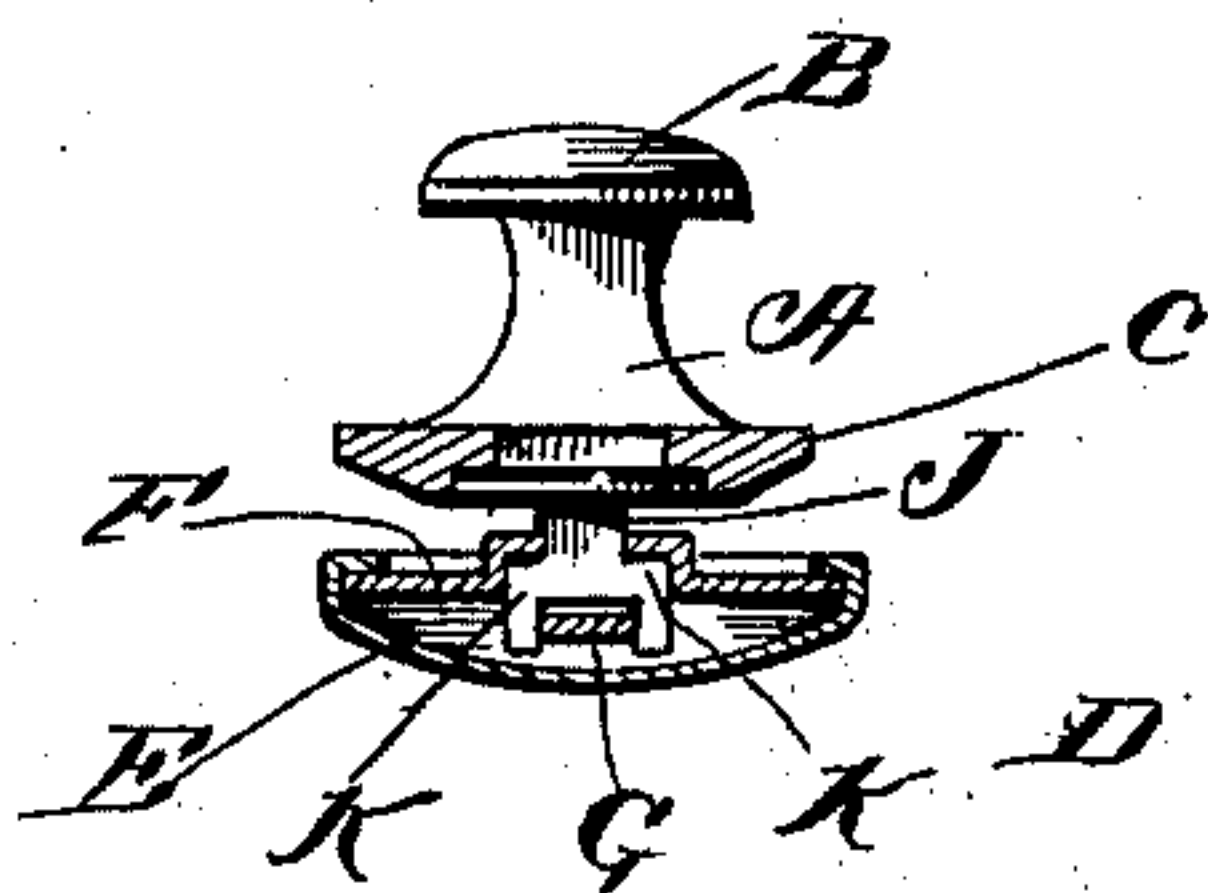
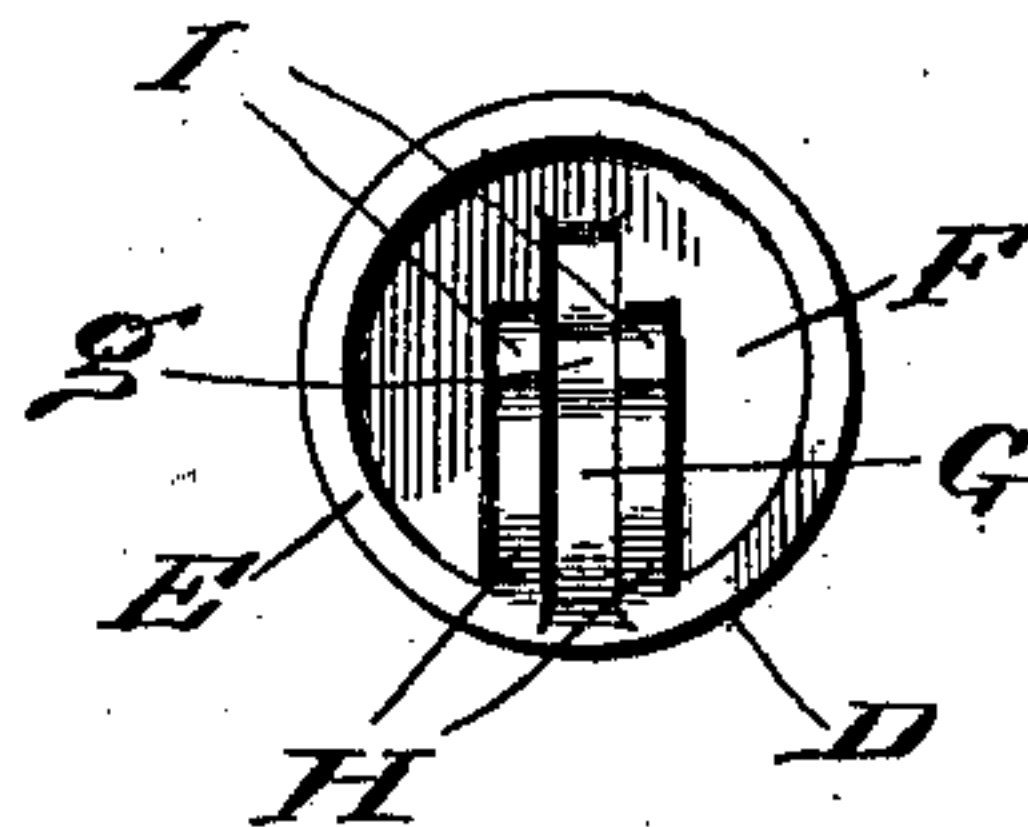


Fig. 6.



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UNITED STATES PATENT OFFICE.

GUSTAVE GRUNWALD, OF PHILADELPHIA, PENNSYLVANIA.

COLLAR-BUTTON.

SPECIFICATION forming part of Letters Patent No. 685,919, dated November 5, 1901.

Application filed April 23, 1901. Serial No. 57,038. (No model.)

To all whom it may concern:

Be it known that I, GUSTAVE GRUNWALD, a citizen of the United States, residing at Philadelphia, county of Philadelphia, and State of Pennsylvania, have invented a certain new and useful Improvement in Collar-Buttons, of which the following is a specification.

My invention relates to a new and useful improvement in collar-buttons, and has for its object to provide a collar-button which has a head upon each end of the shank, and each of these heads is adapted to be turned so that they will lie parallel with the shank, so as to more easily pass through the buttonhole of the shirt or collar. The head upon the front end of the shank, which is adapted to pass through the collar, I do not claim any invention on, as it is simply a turn-over head used in ordinary collar-buttons; but my invention relates especially to the head upon the opposite end of the stem, which is adapted to be turned parallel with the stem to pass through the buttonhole of the shirt, and I also provide a stationary disk secured to the stem, the purpose of which is to confine the shirt-band between it and the turn-over head, which passes through the shirt-band when such head is turned so as to be at right angles to the stem.

With these ends in view this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claims.

In order that those skilled in the art to which this invention appertains may understand how to make and use the same, the construction and operation will now be described in detail, referring to the accompanying drawings, forming a part of this specification, in which—

Figure 1 is an edge elevation of my collar-button; Fig. 2, a similar view to Fig. 1, showing the lower portion of the collar-button in section; Fig. 3, a similar view to Fig. 1, showing the heads of the collar-button turned parallel with the stem; Fig. 4, a similar view to Fig. 2, showing the heads of the button turned parallel to the stem; Fig. 5, a side elevation of the button, showing the lower portion of the same in connection; and Fig. 6, a plan view of the head which is adapted to pass through the shirt-band.

In carrying out my invention, as here em-

bodied, A represents the stem of the button, which has upon one end the usual turn-over button B, or, if desired, this button can be made rigid with the stem A, as this forms no part of my invention.

C is a disk which is adapted to be secured near one end of the stem rigid thereto.

D is a head, which is preferably made considerably larger than the button B and is located upon the opposite end of the stem. This head D consists of the outer shell E, which is slightly convexed, and a flat plate F, which is held within the shell E by the edges of such shell being turned over upon the plate. This plate F has a slot formed in the center, which slot is formed by punching downward a strip of the plate, as illustrated in Figs. 2 and 4. This strip G, which is pressed downward, will be made to answer for the spring upon each side of the slot. The plate F is punched so as to have the raised portions H and I.

The stem A, which projects beyond the disk C, is formed as shown in Fig. 5, having the narrow portion J and the shoulders K. This part of the stem is adapted to protrude through the slot in the plate F, the narrow portion J fitting within the slot and the shoulders K abutting against the inside surfaces of the raised portions H and I. The lower end of the stem will rest upon the spring G, and this spring will exert spring-pressure against the stem, which will cause the head D to retain its position when placed at right angles to the stem A. The lower end of the stem A when it protrudes beyond the disk C and to the interior of the head D is forked, and the two prongs of the fork lie upon each side of the spring G for the purpose of preventing the head D from turning upon the stem. The spring G has formed in the center a slight depression g, which will come directly opposite the slightly-raised portion I of the sides of the slot. When the head D is in a position at right angles to the stem A, this stem will be directly in the center of the head D and the lower edge of the stem or crotch of the fork will rest within the depression g in the spring, and the shoulders K will thus be held by means of the spring tension within the raised portion I, which will serve to hold the head D very secure until it is desired to turn

the head D parallel with the stem A. It is obvious that this could not be done by simply turning the head, on account of its close proximity to the disk C. Therefore in turning the head D first sidewise pressure is exerted upon the head, which will slide said head sidewise upon the stem until the shoulders K of the stem shall enter the raised portion H, which raised portion is considerably higher than the central raised portion I. When the end of the stem has entered this portion H, the head D can be easily turned so as to assume a position parallel to the stem A, in which position it can be easily inserted through the buttonhole in the band of the shirt. Then by turning it to the position at right angles to the stem and sliding the head sidewise until the center is reached the band of the shirt will thus be confined between the head D and the disk C, in which position the button will be securely held upon the shirt-band and the head B is free to receive the collar.

The advantages of my invention are that by providing the disk C, secured to the stem A, and by making the head D so that it can be turned parallel with the stem I am enabled to make both the disk and the head D of comparatively large diameter, so that the collar-button will be retained in the shirt-band even if the buttonholes in said shirt-band are considerably worn or enlarged, and thus will hold the collar-button in place upon the shirt-band after the collar has been removed.

It is generally necessary to make the head of the collar-button which passes through the collar comparatively small, and this being the case when ordinary collar-buttons are used and the buttonhole in the band of the shirt is enlarged through wear, when the collar is removed the collar-button very often drops from the shirt by reason of the small head being able to pass through the enlarged buttonhole easily. My invention obviates this by reason of the shirt-band being confined between two enlarged portions of the collar-button.

Of course I do not wish to be limited to the exact construction here shown, as slight modifications could be made without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is—

1. In a collar-button, a stem, a button secured upon one end of said stem, a disk rigidly secured near the opposite end of said stem, a head secured to the opposite end of

the stem in close proximity to the disk, said head adapted to be slid sidewise and then turned parallel with the stem, substantially as described and for the purpose specified.

2. In a collar-button, a stem, a button secured to one end of the stem upon which the collar is adapted to be buttoned, a disk rigidly secured to the stem near the opposite end thereof, a head secured to the opposite end of the stem beyond the disk and in close proximity thereto, the end of said stem adapted to protrude to the interior of the head, a spring arranged within the head and adapted to bear against the end of the stem for the purpose of holding the head in a position at right angles to the stem, said head formed so as to allow the same to be slid sidewise and then turned parallel to the stem for the purpose of inserting the head through the shirt-band, substantially as described and for the purpose specified.

3. In a collar-button the combination of a stem, a button secured upon one end of the stem, a disk rigidly secured to the stem near the opposite end, a head D located upon the opposite end of the stem beyond the disk C and in close proximity thereto, a slot formed through the inner surface of the head through which the end of the stem is adapted to protrude to the interior of the head, shoulders formed near the end of the stem adapted to abut against the inner surface of the inner part of the head, a raised portion arranged upon each side of the slot in the center of the head in which the shoulders K are adapted to rest when the button D is lying at right angles to the stem, a spring G arranged in the head and adapted to exert pressure against the end of the stem, a depression g formed in the center of the spring in which the end of the stem is adapted to rest when the head is lying at right angles to the stem, prongs formed on the end of the stem upon each side of the spring, a raised portion H formed upon each side of the slot, a head D adapted to be slid sidewise so that the shoulders K will enter said raised portion and allow said head to be turned parallel with the stem A, substantially as described and for the purpose specified.

In testimony whereof I have hereunto affixed my signature in the presence of two subscribing witnesses.

GUSTAVE GRUNWALD.

Witnesses:

JAS. E. DWYER,
W. J. ROCKWELL.