

No. 693,689.

Patented Feb. 18, 1902.

E. W. CRANSTON.  
COLLAR BUTTON.

(Application filed Oct. 6, 1900.)

(No Model.)

Fig. 1.

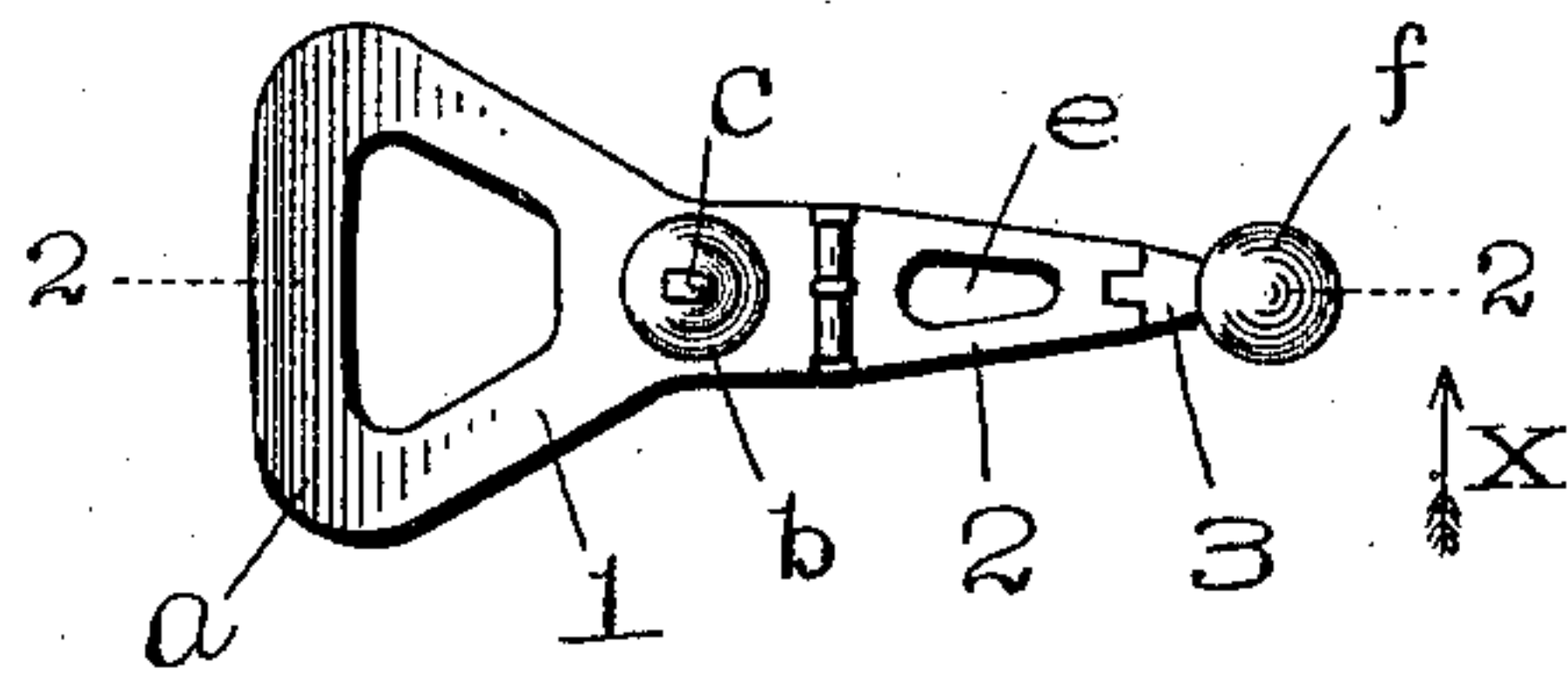


Fig. 2.

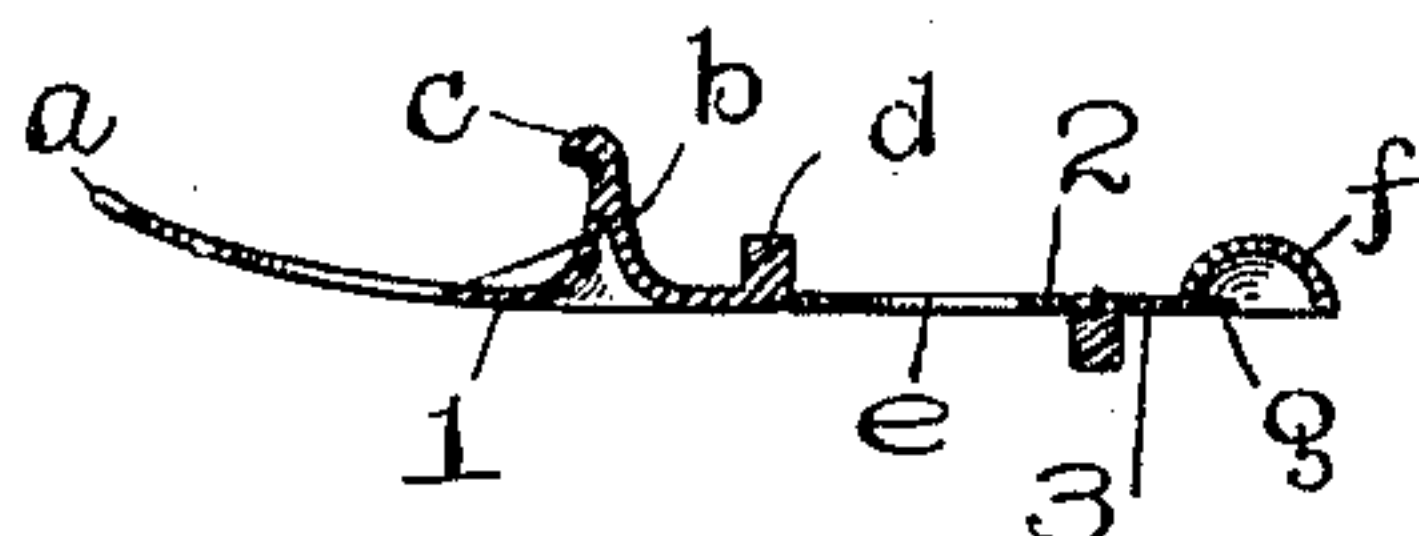


Fig. 3.

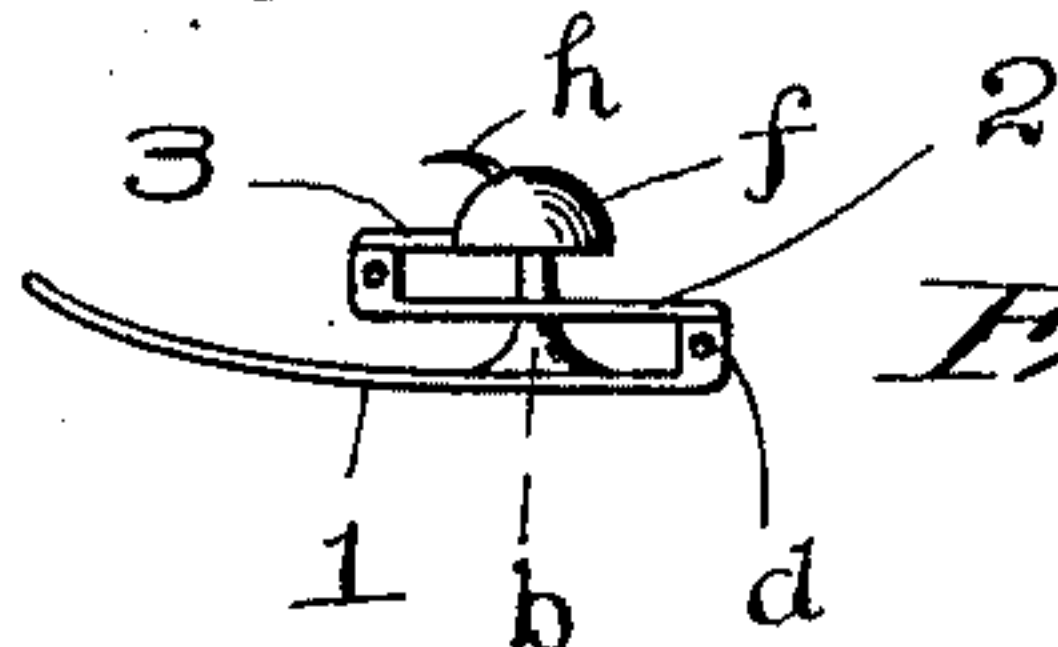
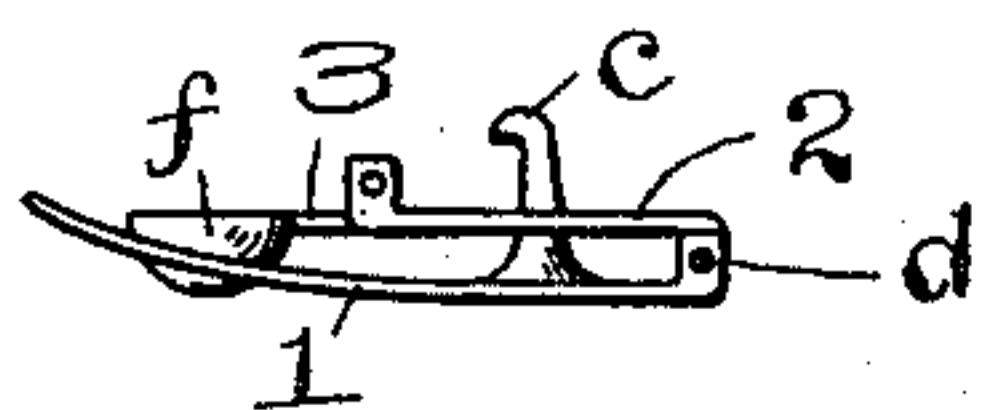
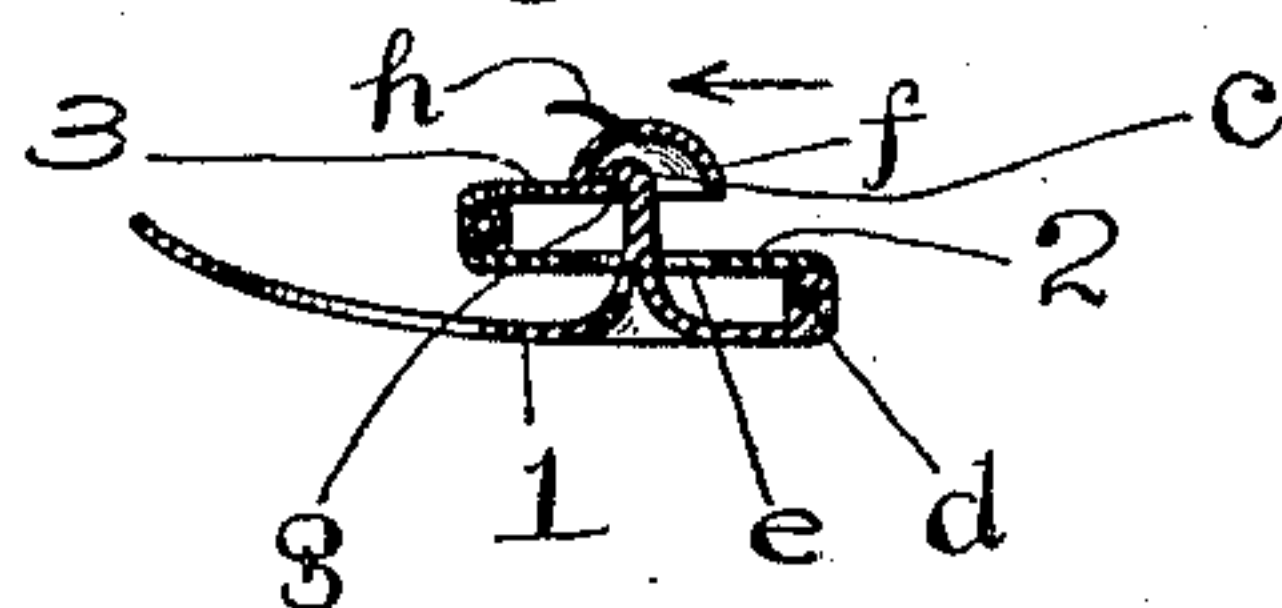


Fig. 4.

Fig. 5.



Witnesses.

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# UNITED STATES PATENT OFFICE.

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## COLLAR-BUTTON.

SPECIFICATION forming part of Letters Patent No. 693,689, dated February 18, 1902.

Application filed October 6, 1900. Serial No. 32,262. (No model.)

*To all whom it may concern:*

Be it known that I, EDMUND W. CRANSTON, a subject of the Queen of Great Britain, residing at Worcester, in the county of Worcester and State of Massachusetts, have invented certain new and useful Improvements in Collar-Buttons, of which the following is a specification.

My invention relates to collar-buttons, and more particularly to a self-locking collar-button.

Collar-buttons as ordinarily made are in one piece or part with a rounded or oval-shaped head, which has first to be inserted through the buttonhole in the neckband of the shirt and then through the buttonhole in each end of the collar to secure the collar to the front of the shirt. In order to hold the ends of the collar, the head of the collar-button must be of sufficient size or diameter to overlap the edges of the buttonhole considerably, so as to prevent the ends from unbuttoning or becoming detached. In buttoning collars to the shirt it is difficult to insert the enlarged head or end of the collar-button through the buttonholes in the ends of the collar, and this is particularly the case in high turn-over collars, in which the buttonholes are very close to or under the turned-over portion of the collar, and the collar is very liable to be broken or soiled in attaching it to the shirt.

The object of my invention is to provide an improved collar-button which can be readily attached to the neckband of a shirt and to the ends of the collar without any liability of breaking or soiling the collar or injuring the buttonholes.

My collar-button is intended more especially to be used at the front of the neckband of a shirt, which may be made open or closed.

My collar-button is made in three parts, hinged together to act as a one-part collar-button when in place, and I provide one portion of the button for the button hole or holes in the neckband of the shirt and another portion for the button hole or holes in the collar, the two portions being separated by a portion of the complete button, as will be hereinafter described.

Referring to the drawings, Figure 1 is a plan

view of a collar-button embodying my improvements, showing the collar-button opened or extended preparatory to being used. Fig. 2 is a longitudinal section on line 2 2, Fig. 1, looking in the direction of arrow *x*, same figure. Fig. 3 is a side or edge view of the collar-button partially closed. Fig. 4 is an edge or side view of the collar-button fully closed, and Fig. 5 is a central vertical section through the closed collar-button shown in Fig. 4.

In the accompanying drawings, 1 is the main or body portion of my collar-button, which is preferably made of thin metal stamped or pressed out into substantially the shape shown, with the enlarged or widened end *a* curved slightly, as shown, to be inserted within the neckband of the shirt, the widened end extending beneath the neckband when applied to the shirt and by reason of its outward curvature pressing firmly against the shirt-bosom and preventing the button from turning, and the upwardly-extended part *b* forming the post of the button, which is made tapering, with the hook or side extension *c* on its end, as shown, which end is inserted first through the button hole or holes in the neckband of the shirt and then through the buttonholes in the ends of the collar.

To the main portion 1 of the collar-button is hinged the intermediate portion 2, with a square hinge-joint made by cutting and bending over the contiguous edges and inserting a pin *d* in the ordinary way. The portion 2 has an opening or hole *e* therethrough and is hinged to the main portion 1, so as to fold over on the upper surface of said portion 1, with the post *b* of the collar-button extending through the opening *e*, as shown in Fig. 3.

To the intermediate portion 2 is hinged the end portion or head 3 of the collar-button by a square hinge-joint. The end portion 3 has a rounded or oval-shaped hollow head *f*, which has a flange *g* on one side, formed by extending the end portion 3 beyond the inner edge of the oval or hemispherical head *f*, and which end portion is hinged to the portion 2, so as to fold over on the upper surface of the intermediate portion 2 and inclose the end of the post *b*, so as to cause it to appear like the



head of an ordinary collar-button, as shown in Fig. 4, with the hook end or side extension *c* extending over the flange *g*, when the collar-button is closed completely, as shown in Fig. 5.

The operation of my collar-button will be readily understood by those skilled in the art. The collar-button is opened or extended, as shown in Fig. 1, and the enlarged curved end of the main portion 1 inserted within the neckband and the post *b* inserted through the button hole or holes in the neckband. The post *b*, having a very small end or top, is readily inserted through the buttonholes. The intermediate portion is now bent or folded over, as shown in Fig. 3, so that the post *b* will extend through the opening *e*, as shown, and confine the neckband on the shirt on the post *b* between the main portion 1 and the intermediate portion 2. By means of the square hinge-joint the portion 2 will be locked or held in place. The projecting top or head of the post *b* is then inserted through the buttonholes in the ends of the collar and being very small is readily inserted without breaking or soiling the collar. The end or head portion 3 is then bent or folded over, so that the head *f* will extend over the top of the post *b*, the lip on said head catching over the flange *g* on the head *f* to hold said head and secure the ends of the collar between the intermediate portion 2 and the head portion 3. To release the head portion to unbutton the collar, the head *f* is pressed slightly in the direction of the arrow, Fig. 5, to release the flange *g* from the side extension *c* on the post *b*.

In connection with the head *f* I may use a

pin *h*, attached thereto, to hold the necktie in place, if desired, as shown in Figs. 4 and 5.

The advantages of my collar-button will be readily appreciated by those skilled in the art. It is of simple construction, and the three parts thereof are secured together, so that they cannot be separated and one part lost, as is the case with the ordinary separable collar-button. The collar-button is easily and quickly inserted in the neckband of the shirt and in the collar without any liability of breaking or soiling the collar or tearing the buttonholes.

It will be understood that the details of construction of my collar-button may be varied, if desired.

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

A collar-button made in three parts hinged together, and comprising a main part or body having a post thereon provided with a side extension on its end, an intermediate part hinged to the main part by a square hinge to leave a space therebetween for the shirt-band when folded, said intermediate part provided with an opening through which the post extends, and an end part having a hollow rounded head and a lip within the head to engage the side extension on the post, said end part being hinged to the intermediate part by a square hinge to leave a space therebetween for the ends of the collar when folded.

E. W. CRANSTON.

Witnesses:

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