Jan. 15, 1924. 1,480,839

M. M. ROBINSON

BUTTON

Filed Nov. 22, 1922

Fig. 1.

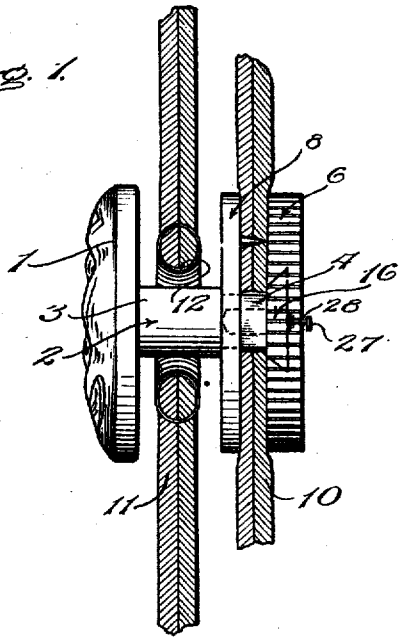


Fig. 2.

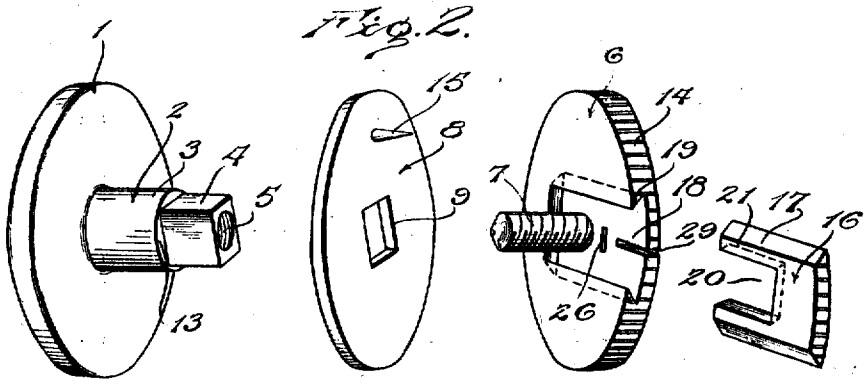


Fig. 3.

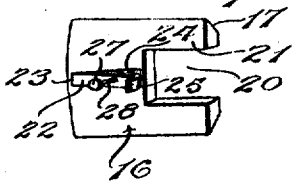
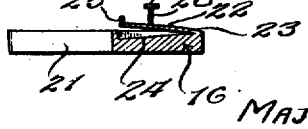


Fig. 4.



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UNITED STATES PATENT OFFICE.

MAJOR M. ROBINSON, OF JACKSON, TENNESSEE.

BUTTON.

Application filed November 22, 1922. Serial No. 602,575.

To all whom it may concern:

Be it know that I, MAJOR M. ROBINSON, a citizen of the United States, residing at Jackson, in the county of Madison and State of Tennessee, have invented certain new and useful Improvements in Buttons, of which the following is a specification.

This invention relates to improvements in buttons and is directed more especially to uniform or other decorative buttons and has as one of its primary objects to provide a button which will be adapted for secure attachment to the overlapped side of a uniform coat or other garment and will present an unobstructed shank projecting forwardly from the said portion of the garment a sufficient distance to so space the head of the button from the said portion of the garment as to permit of free play of the overlapping portion which will be provided with a buttonhole for passage over the head of the button. Therefore, the invention contemplates the provision of a button which will be particularly adapted for employment on uniforms inasmuch as there will be no puckering of the garment where it is engaged with the button and therefore the garment will present and maintain a neat and dressy appearance and will be less liable to become wrinkled than where the ordinary button is employed.

Another object of the invention is to so construct the button that when applied to the overlapped portion of the garment it will be securely locked in place so that it cannot become lost or disarranged.

As stated, the button is designed primarily for use upon uniforms or where a decorative effect is to be produced by the button at the same time it performs its primary function, and as uniform buttons ordinarily bear insignia on the faces of their heads it is of course, desirable that the buttons be maintained in position to display such insignia in upright position, and therefore the invention has as another important object to provide means whereby this result may be obtained.

In the accompanying drawings:

Figure 1 is a view in elevation of the button embodying the invention applied to the garment;

Fig. 2 is a group perspective view illustrating the component parts of the button disassembled;

Fig. 3 is a perspective view illustrating the locking means provided for holding the locking key in place;

Fig. 4 is a longitudinal sectional view through the locking key.

In the drawings the head of the button is indicated in general by the numeral 1 and the same may be of any desired contour and dimensions and ornamented or provided with insignia as may be found desirable. The head 1 is provided with an axially located shank 2 which for a portion of its length is of cylindrical contour as indicated by the numeral 3 and for the remainder of its length is reduced and given a rectangular form as indicated by the numeral 4. The shank 2 is formed with a threaded bore indicated by the numeral 5, the bore opening through the end of the reduced squared portion 4 of the shank 2.

The back of the button comprises a body 6 which may be of the circular form shown in the drawings or of any other desired contour, and the back is provided upon one of its faces with a threaded stud 7 designed to enter the threaded bore 5. In connection with the back 6 there is employed a washer indicated by the numeral 8 which is formed centrally with a rectangular opening 9 of dimensions to adapt the washer to be fitted on to the reduced squared portion 4 of the shank 2 as best shown in Fig. 1 of the drawings. In the said figure the numeral 10 indicates the overlapped portion of a garment such, for example, as the front of a uniform coat or jacket and the numeral 11 indicates the overlapping portion of said garment, this latter portion being formed with a buttonhole indicated by the numeral 12. At this point it may be remarked that ordinarily uniform buttons are riveted or similarly secured to the portion 10 of the garment and have relatively short shanks so that when the overlapping portion 11 of the garment is applied over the button and the shank of the button is received in the buttonhole 12, this portion of the garment is liable to pucker or become wrinkled thus detracting from the neat and dressy appearance of the uniform. By referring to Fig. 1 of the drawings it will be observed that in the present invention this disadvantage is effectually overcome for when the portion 10 of the garment is suitably punctured to receive the squared portion 4 of the shank 2 of the button head and this shank is fitted first through the opening 9 in the washer 8 and

then through the puncture in the said portion 10, the washer will bear against the shoulder formed by producing the reduced portion 4, and which shoulder is indicated in the drawings by the numeral 13, and will also bear flat against the forward side of the said portion of the garment. With the parts thus positioned the stud 7 of the back 6 is then threaded into the bore 5 by rotating the back, and finally the said portion of the garment will be clamped firmly between the washer and the back. If desired the back 6 may be provided with a milled or serrated periphery 14 to facilitate its assemblage with the shank of the head 1.

As previously stated it is desirable to maintain the head 1 of the button in a predetermined position in view of the fact that the button will ordinarily bear insignia of one kind or another upon the face of its head and it is desirable to keep the insignia in an upright position. Therefore, in order that the button may be maintained in such position, a spur 15 is provided upon that face of the washer 8 which is to bear against the portion 10 of the garment, and this spur will penetrate the said portion of the garment when the back 6 is assembled with the other parts of the button.

Inasmuch as it is desirable that the button be more or less securely anchored to the portion 10 of the garment, a locking means is provided for the purpose of preventing rotation of the back 6, and this means, as illustrated in Fig. 2 of the drawings, comprises a locking key 16 having beveled lateral edges 17 adapting it to be removably inserted into a recess 18 having beveled or undercut side walls 19 and which recess is formed in that face of the back 6 from which the threaded stud 7 projects. The recess 18 opens through the periphery of the said back and extends radially inwardly across the face of the back beyond the center thereof so that in fact the stud 7 projects from the bottom wall of the said recess. The locking key 16 is formed in its end which is to be located within the inner end of the recess 18, when the key is in place, with a recess 20 defining locking fingers 21 located in spaced parallel relation. The opposing sides of the fingers 21 are plane and spaced apart a distance equal to the diametric dimension of the reduced squared portion 4 of the shank 2. It will now be evident that when the parts are assembled, with the exception of the locking key 16, in the manner previously stated, the end of the squared portion 4 of the shank 2 will seat in the recess 18 in the back 6 and after the back has been rotated with relation to the head of the button to such position that two of the faces of the portion 4 will be parallel to the edges of the walls 19 of the recess 18, the key may be fitted into place within the recess, and when it has been properly inserted, its fingers 21 will straddle the squared portion 4 of the shank 2 and in this manner the parts will be locked against relative rotation.

In order that the locking key 16 may be held in place within the recess in the back of the button, a latch spring 22 is secured at one end, as at 23, within a recess 24 in the head of the key and, through its resiliency, normally assumes a position sprung to project at its free end somewhat beyond the plane of the face of the locking key within which the said recess is formed. This end of the latch spring is formed with a locking tongue 25 which is designed to be sprung into engagement in a notch 26 formed in the inner wall of the recess 18, when the locking key is slid into place within the said recess. Of course, when the locking tongue is in engagement in the notch, the locking key will be securely held against withdrawal, but in order that it may be withdrawn when occasion requires a finger button 27 is provided and is connected by a shank 28 to the latch spring 22. The shank 28 of this button works through a slot 29 in the back 6 of the bottom and when pressure is applied against the head 27 in an inward direction, the locking tongue 25 will be disengaged from the notch 26.

While the button, in the embodiment illustrated in the drawings and hereinbefore described, is designed primarily for employment where one portion of a garment is to be buttoned in overlapped relation to another portion, it will be understood that, by a slight modification in structure, the button might be employed merely as an ornament as, for example, on the sleeves of the garment.

Having thus described the invention, what is claimed as new is:

1. A button comprising a head having a shank formed with a reduced squared end portion, a washer fitted thereon against the shoulder provided by the formation of said portion and thus held in spaced relation to the back of the head, the shank having a threaded bore, a back having a threaded stud fitting the said bore, and means upon the back coacting with the squared portion of the shank and locking the back against rotation in a direction to unthread the stud from the bore.

2. A button comprising a head having a shank formed with a reduced squared end portion, a washer fitted thereon against the shoulder provided by the formation of said portion and thus held in spaced relation to the back of the head, the shank having a threaded bore, a back having a threaded stud fitting the said bore, and means upon the back coacting with the squared portion of the shank and locking the back against

rotation in a direction to unthread the stud from the bore, the said means comprising a key slidably engaged with the back and having spaced portions to straddle the squared portion of the head shank.

3. A button comprising a head having a shank formed with a reduced squared end portion, a washer fitted thereon against the shoulder provided by the formation of said portion and thus held in spaced relation to the back of the head, the shank having a threaded bore, a back having a threaded stud fitting the said bore, and means upon the back coacting with the squared portion of the shank and locking the back against rotation in a direction to unthread the stud from the bore, the said means comprising a key slidably engaged with the back and having spaced portions to straddle the squared portion of the head shank, and a latch carried by the locking key and coacting with the said back of the button to restrain the key against displacement from the recess in which it is seated.

In testimony whereof I affix my signature.

MAJOR M. ROBINSON. [L. S.]