Nov. 24, 1931. H. I. SILMAN 1,833,439

COMBINATION BUTTON AND BELT STRAP

Original Filed April 8, 1927

Fig. 1

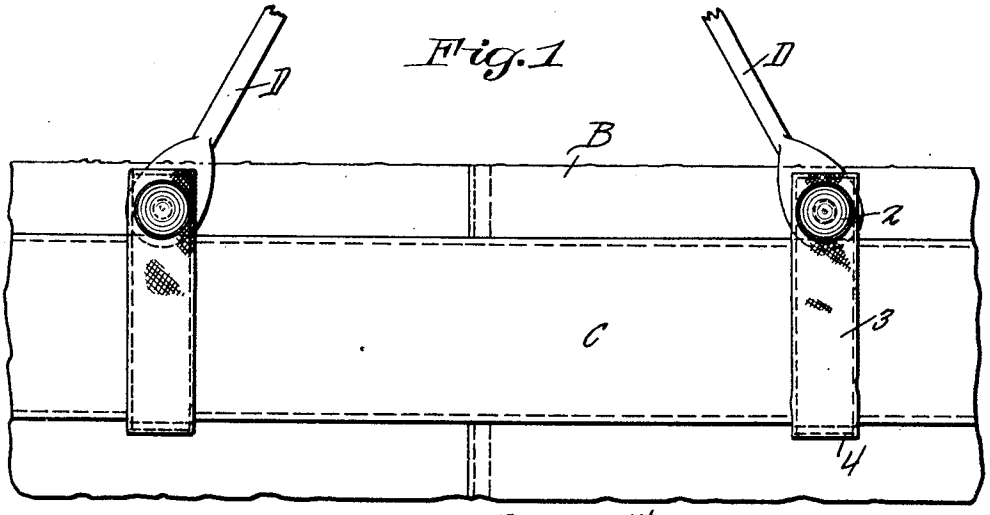
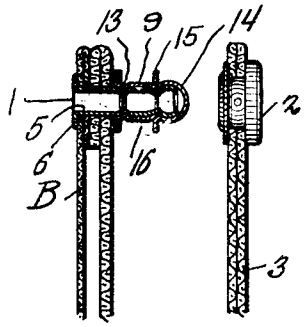


Fig. 2.



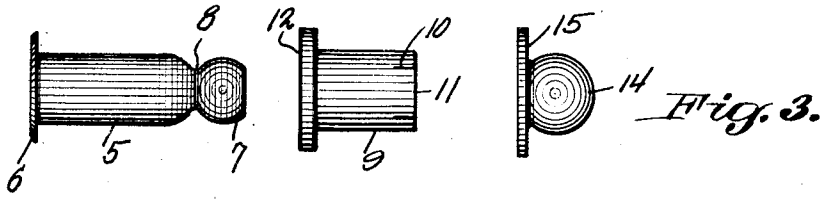


Fig. 3.

Witnesses
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Patented Nov. 24, 1931 1,833,439

UNITED STATES PATENT OFFICE

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COMBINATION BUTTON AND BELT STRAP

Application filed April 8, 1927, Serial No. 182,162. Renewed January 4, 1929.

This invention relates to fasteners, preferably of the separable type, such as snap-fasteners, for detachably securing together various co-operating articles or devices.

One of the well known disadvantages of snap fasteners is that when the articles are secured together under conditions which cause one article to exert tension on the other, the button portion of the fastener is tilted and cuts into or tears the fabric of the article and is eventually torn from the latter.

Another disadvantage is that the tension between the articles causes wrinkling in the vicinity of the fasteners.

The primary object of the invention is to obviate these disadvantages. This object is accomplished by providing means to prevent the button from tilting.

A further object is the provision of a combination belt loop and button secured to the waistband of a pair of trousers in such a manner that the buttons are positively prevented from tearing from the waistband and the belt is supported for sliding movement but positively held against displacement and in such a manner that the waistband is prevented from working below the belt.

Besides the above, my invention is distinguished in the novel manner of constructing and arranging the button so that the same may be readily attached to a suspender loop and will engage the upper edge of a belt to properly confine the latter in its proper position.

With these and other objects in view, my invention will be better understood from a description of the same when taken in connection with the accompanying drawings, wherein:—

Figure 1 is a fragmentary view of a portion of a pair of trousers showing my invention applied thereto;

Figure 2 is a cross sectional view with the loop open;

Figure 3 is a schematic view illustrating the members comprising the base of the button separated.

Again referring to the drawings illustrating one of the many applications of my invention, the letter B designates the waistband of a pair of trousers to be supported by the strip or belt C or the suspender straps D.

As illustrated in the drawings, my improved combination button and belt loop consists of a ball section 1 and a socket section 2, the former mounted in the waistband B of the trousers and the latter fixed to the free end of the belt loop 3 which has its other end sewed to the waistband, as indicated at 4.

A very important feature of my invention is the novel substantial manner in which the ball section is constructed and secured in place so as to properly accommodate a supporter such as the suspender strap D having the usual aperture and be connected to the socket section. As shown in Figure 3, the ball section consists of a barrel 5, one end of which is formed with a flange 6 and the other end formed with a head 7 providing a circumferential groove 8 contiguous thereto. A sleeve 9 is fitted over the barrel 5 and is provided with slits 10 at spaced points so that the lugs 11 provided by said slits may be crimped into engagement with one side of the groove 8, thereby holding the sleeve associated with the barrel and clamping the flange 12 of the sleeve in fixed parallel relation with the flange 6 to secure the material of the trousers therebetween. The flanges 6 and 12 thus constitute an attaching portion of the snap fastener from which projects the shank constituted by the barrel 5 and the sleeve 9. If found advantageous in practice, the sleeve and barrel may be further crimped, as indicated at 13. Thus, it will be appreciated that this part of the device may be effectively secured to the waistband of a pair of trousers to arrange the sleeve 9 for the engagement therewith of the loops at the ends of the suspender strap D.

For the purpose of holding the supporter or suspender strap in engagement with the sleeve 9 and provide a separable connection between the ball member and the socket member, I provide a ball 14 of hollow formation which is forced onto and crimped over the head 7, with the flange 15 carried thereby arranged in parallel spaced relation to the flange 12 so as to provide an annular groove 16 for the reception of the loop of the sus-

pender strap D and further to provide an abutment for the upper edge of the belt C for confining the latter in its proper position in the belt loops 3.

From the foregoing description taken in connection with the accompanying drawings, it will be apparent that I provide a novel construction of button consisting of two major sections, one permanently carried by the trousers and the other by the end of a belt loop secured to the waistband of the trousers so that the loop may be moved relative to the waistband to allow the loops of the suspender strap to be readily engaged with the buttons. When the ball section and the socket section are connected together, it will be appreciated that the suspender strap D is positively prevented from being disconnected and the belt C will be confined by the belt loops 3 with its upper edge engaging the buttons so the belt cannot ride upwardly on the waistband, thereby holding the article to which it is attached and belt properly associated and in their proper shape. It will also be appreciated that the button is prevented from being tilted upwardly with respect to the waistband and from being torn loose and that the button will at all times be held in horizontal position and thus the button is provided with two points of support, one at the base of its ball section and the other at its socket.

Of course, it is to be understood that the various sections of the button may be constructed and designed in various other manners than illustrated and may be associated with various other forms of straps and supports and, therefore, I do not desire to be limited in any manner except as set forth in the appended claims.

I claim:

1. Garment supporting means comprising a fastener including two sections, one of said sections embodying a neck having spaced flanges for clamping engagement with the waistband of a garment through which the neck is fitted, the neck portion being extended to provide for the engagement therewith of a suspender loop, a belt loop to the end of which the other section of the fastener is connected, and coacting means upon the first mentioned section, beyond its neck, and the second mentioned section for separably connecting the sections.

2. Garment supporting means comprising, in combination with the waistband of a pair of trousers, a fastener including two sections, one of said sections having a neck portion fitted through the waistband and having flanges clamping the waistband, the neck portion being of a length to permit of the engagement therewith of a suspender loop for supporting the garment, a flexible belt loop connected at one end to the waistband of the garment, the other section of the fastener being carried by the other end of said belt loop and, when engaged with the first mentioned section, constituting means for connecting the belt loop with said first mentioned section whereby to prevent upward tilting of said section under the strain imposed upon it by the pull of the suspender loop, and coacting means upon the sections for separably connecting the same.

3. Garment supporting means comprising, in combination with the waistband of a pair of trousers, of a flexible belt loop secured at one end to the said band and designed to constitute a guide for a belt surrounding the band, a fastener including sections, one of said sections including a portion fitted through the band and having flanges clamping the band and a neck projecting from the surface of the band and engageable by the loop of a pair of suspenders, the fastener including a second section secured to the other end of the belt loop and separably engageable with the outer end of the first mentioned section.

4. Garment supporting means comprising, in combination with the waistband of a pair of trousers, a fastener including two sections, one section of the fastener being secured to the waistband of the trousers and having an outstanding neck provided with outstanding circumscribing flanges adapted to receive between them and hold in engagement with the neck a loop of a pair of suspenders, the said neck, beyond one of the outstanding flanges having a head, and a belt loop united at one end to the said waistband below the fastener and supporting the other section of said fastener.

In testimony whereof I affix my signature.

HARRY I. SILMAN.