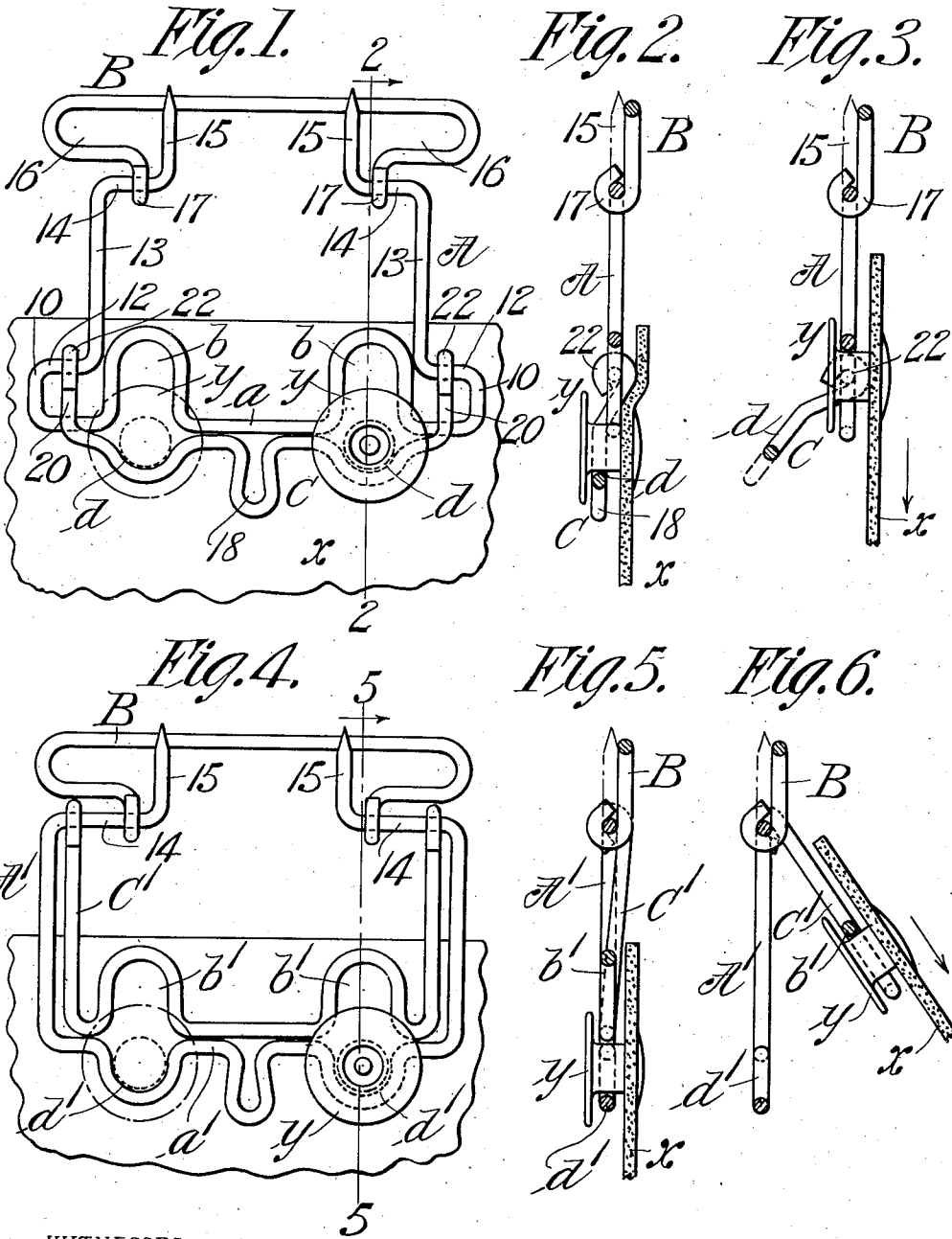


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BUCKLE.

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1,009,486.

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WITNESSES:

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To all whom it may concern:

Be it known that I, EUGENE DESO, a citizen of the United States of America, and resident of Ware, in the county of Hampshire and State of Massachusetts, have invented certain new and useful Improvements in Buckles, of which the following is a full, clear, and exact description.

This invention relates to a class of buckles of a kind comprising button shank engaging loops and available for use in situations where, for instance, the buckle is secured by a usual form of prongs or teeth, and a "bow" member to a strap or suspender while an object, as, for instance, the waist band of a garment having buttons, is suspended by the engagement of the shanks of the buttons in the loops of the buckle frame.

My device may be called a locking loop buckle, inasmuch as it comprises members relatively hinge connected and having oppositely bent loops, the mouths of which register with each other so that when the button provided part is properly engaged in the loops there can be no disengagement excepting under a purposed manipulation whereby the shanks of the buttons are shifted away from engagement in one set of loops to dispositions in the other set of loops, then making it permissible to swing one of the loop provided members away from its normal plane so that the shank of the buttons will be disengaged from within the loops into which they had been temporarily shifted.

The invention is described in conjunction with the accompanying drawings and is set forth in the claims.

In the drawings:—Figure 1 is a front view of my improved buckle; Fig. 2 is a sectional view on line 2—2, Fig. 1; Fig. 3 is a sectional view similar to Fig. 2, but showing the manner of changing the position of relatively movable parts to permit the disengagement of the button provided part from the buckle; Figs. 4, 5 and 6 are views respectively corresponding to Figs. 1, 2 and 3, but showing a construction of the buckle which, while modified from that illustrated in the first series of views is within, and embodies, the present invention.

Similar characters of reference indicate corresponding parts in all of the views.

Proceeding to describe the form of buckle represented in Figs. 1, 2 and 3 exactly as there represented, it will be seen that the

buckle is composed of three wire formed members A, B and C, the one A being the body or buckle frame, B being the bow which coacts with the fastening prongs or teeth, while the one C has button shank receiving loops arranged in opposition to the button shank accommodating loops of the buckle frame.

The buckle frame member has the intermediate portion *a* thereof made with a pair of upwardly extending loops *b b* while the end portions are made with upward bends 10, 10, inward or approaching bends 12, 12, portions 13, 13, which are upwardly extended in parallelism and are continued in inwardly extending portions 14, 14, while the extremities of the wire are turned upwardly, arranged parallel with each other and have pointed ends to constitute the attaching prongs 15, 15.

All the portions of the buckle frame having the bends and formations as described are in the same plane; the bow member *b* comprises a straight intermediate portion with return bent extremities 16, 16, which terminate in eyes 17, 17, that have hinge-like engagements with the opposed pair of upper inward bends 14, 14, of the buckle frame. And the third wire member C has its intermediate portion downwardly return bent in the form of an elongated loop 18,—to form an operating handle for such member C,—and the portions of this wire outside of the handle loop are downwardly return bent to form comparatively shallow button-shank engaging loops *d d*, while the extremities comprise upwardly extending portions 20, 20, which terminate in eyes 22, which have hinge engagements with the aforementioned lower pair of inwardly extending portions 12, 12, of the buckle frame.

The part *x* to be supported is represented as provided with buttons *y y*, the diameters of which are greater than the widths of the loops *b* and *d* while their shanks are somewhat less in diameter than the widths of such loops; and the manner of the locking engagement of the buttons with the loop provided parts of the buckle is clearly indicated in Figs. 1 and 2. The shanks of the buttons are drawn, or settled down into the shallow loops *d d*, the mouths of which are opposite or in registry with the downwardly open mouths *b b* of the loops of the buckle frame; and it will be apparent that the circular bodies of the buttons serve as

locking means to prevent the looped frame C from being swung from its normal position in plane with the buckle frame. But when the button provided portion of apparel is to be disconnected from the buckle, the button provided piece is moved upwardly so that the shanks of the buttons are well up into the loops *b*,—which are comparatively deep,—and so that the heads or bodies of the buttons are clear and away from overlapping relation to the hinge connected loop provided member C: this member now being out of the way of the shanks of the buttons, the part carrying the latter may be downwardly drawn away from the buckle frame,—this description of the mode of disconnection being clear when read in conjunction with Fig. 3 of the drawings.

In Figs. 4, 5 and 6 the lower shallow loops *d'*, *d'*, having upwardly open mouths, are represented as provided in the transverse lower portion *a'* of the buckle frame; and the member C' which is hinge connected to the buckle frame is arranged with downwardly deep loops *b'* and with downwardly open mouths above and inside of the lower loop provided portion of the buckle frame. In this case the shanks of the buttons for disconnection will be moved upwardly well into the deeper loops *b'*, *b'*, and the hinge connected part C' in which these last mentioned loops are provided will be swung to the angular position shown in Fig. 6 in conjunction with the button provided piece *x* so that when out of plane with the buckle frame the shanks of the buttons may be drawn downwardly out of the loops *b'*.

For a maximum of utility double pairs of the registering loops are provided, but the invention is not to be confined to the duplication of these features, as buckles having

but one pair of the locking loops in the relative arrangements indicated would be measurably useful.

I claim:—

1. A device of the character described, comprising a pair of hingedly connected members, each of said members including a horizontally disposed member, one of said horizontally disposed members having inwardly extending loops formed therein and the other of said horizontally disposed members having outwardly extending loops formed therein which register with the first named loops, and a finger engaging member carried by the last named horizontal member.

2. A device of the character described, composed of two wire formed members, one of which comprises a pair of vertical side bars which terminate at their upper ends in transverse extensions, a transverse connecting member connecting the lower ends of said vertical side bars, said transverse member having a plurality of downwardly extending loops formed therein; said second member comprising a pair of vertical side bars which lie within the first mentioned side bars and which are hingedly connected at their upper ends with said transverse extensions, a transverse member connecting the lower ends of the last named side bars and formed with a plurality of upwardly extending loops which register with said downwardly extending loops, substantially as shown and described.

Signed by me at Ware, Mass., in presence of two subscribing witnesses.

EUGENE DESO.

Witnesses:

EMILE BEAUREGARD,
EUCLIDE M. MAILLOUX.