

Nov. 13, 1934.

L. LA FERNEY

1,980,535

BUCKLE

Filed Jan. 26, 1933

2 Sheets-Sheet 1

Fig. 1.

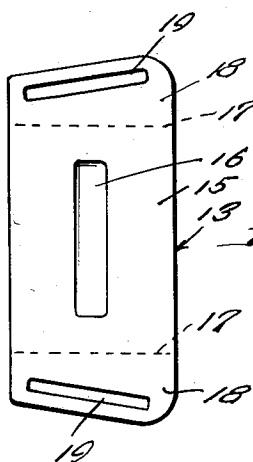
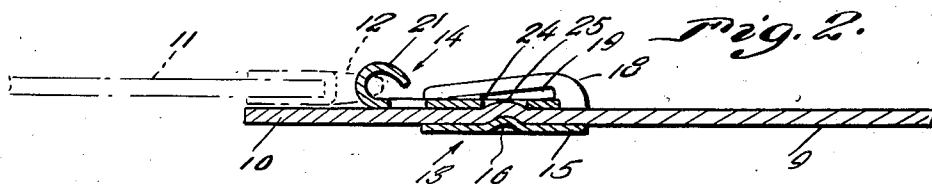
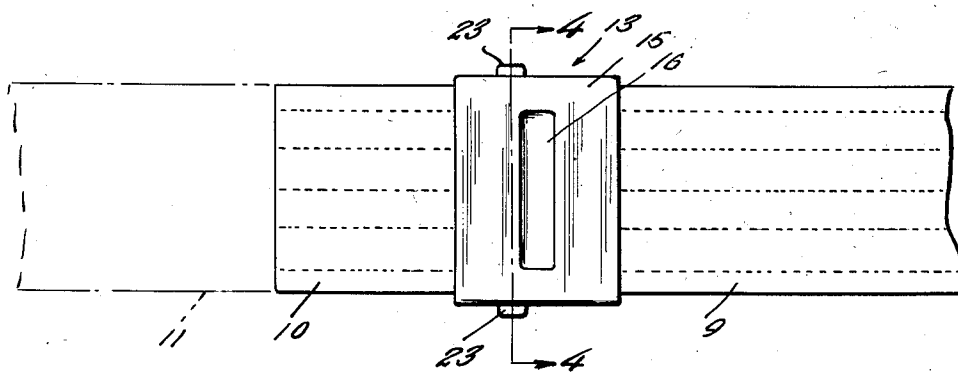


Fig. 3.

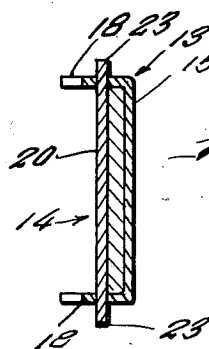


Fig. 4.

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Fig. 5.

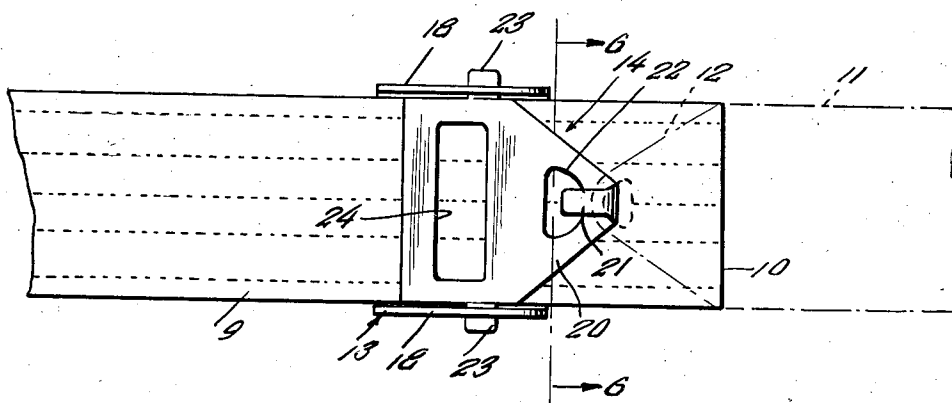


Fig. 6.

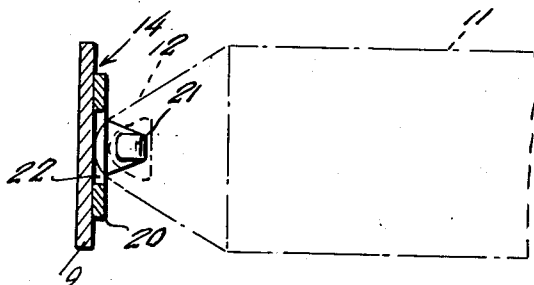


Fig. 8.

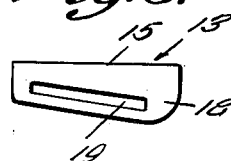
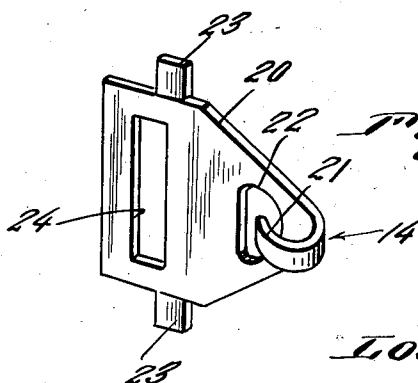


Fig. 7.



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UNITED STATES PATENT OFFICE

1,980,535

BUCKLE

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Application January 26, 1933, Serial No. 653,697

1 Claim. (Cl. 24—195)

This invention relates to a belt buckle for use in connection with any belt or band to which it may be found applicable by those skilled in the art.

5 Briefly stated, the improved buckle comprises a backing plate with slotted ends and a maintenance or retention boss, together with a companion clamping plate or slide having means for cam co-action with the slots and a hook to accommodate an eyelet fastener, and an elongated belt retaining opening for cooperation with the aforesaid boss.

10 In carrying the principles of the invention conception into actual practice through the instrumentality of the aforesaid structure, I have evolved and produced a simple and economical accessory which is not permanently connected to the end of the band but rather has adjustable connection therewith to permit the buckle to be quickly adjusted and maintained in the desired adjusted position.

15 I am aware of the fact that many types of buckles involving the cam pressure and clamping principle are in vogue and are found in similar prior art devices. With a general knowledge of this, I have perfected a specific buckle constituting what I believe to be a unique contribution to the trade and the art in that it is structurally distinguishable, positive and dependable in action, and otherwise well designed and balanced to accomplish the desired result in a highly satisfactory manner.

In the drawings:

20 Figure 1 is a view showing one band-end in full lines and the companion band or strap end in dotted lines, together with the improved buckle associated therewith.

Figure 2 is a longitudinal sectional view of the structural assembly shown in Figure 1.

25 Figure 3 is a plan view of the sheet metal blank from which the backing plate is constructed.

Figure 4 is a section taken on the plane of the line 4—4 of Figure 1.

30 Figure 5 is an outside elevational view of the arrangement illustrated in Figure 1 showing the relationship of parts more plainly.

Figure 6 is a section taken approximately on the plane of the line 6—6 of Figure 5.

35 Figure 7 is a perspective view of the slidable clamping plate.

Figure 8 is an end view of the slotted flange-end of the backing plate.

40 In the drawings, in Figures 1, 2 and 5, a band is designated by the numeral 9. One end portion of a complementary band or the like is shown in

the drawings and is designated by the reference numeral 11. This band or strap end 11 is provided with an eyelet designated by the reference numeral 12 and also shown in dotted lines.

45 The improved buckle comprises two primary parts; namely the relatively stationary section 13 and the relatively movable or adjustable section 14. The first-named section 13 comprises a rectangular backing plate 15 constituting a part of the blank shown in Figure 3. As seen in the last-named figure this backing plate is provided with a longitudinally elongated outwardly pressed portion which defines a maintenance hump or boss 16.

50 The end portions of the plate are bent up at right angles on the score or fold lines 17 to form a pair of duplicate end flanges 18 having inclined cam or binding slots 19. The complementary or companion section 14 is shown in Figure 7 and comprises a suitably proportioned and shaped slide plate 20. This has a triangular end portion whose apex part is formed with an intumed keeper hook 21 and an associated aperture 22, the hook being fashioned to permit quick releasable connection of the eyelet fastener 12 thereto as shown in Figures 2 and 5. The aperture 22 is obviously nothing more than a clearance hole to facilitate connection and disconnection of the features 12 and 21.

55 The plate 20 is provided with integral outstanding cam lugs 23 fitted slidably in the cam slots 19 and the plate is further formed with an elongated rectangular adapter hole or opening 24 which is shaped to correspond with the aforementioned maintenance boss 16. The opening 24 is slightly larger than the boss as is evident to permit the material of the band or belt to be crimped over the boss as indicated at 25 in Figure 2 whereby to force the material into the hole 24 so that it is securely held between the two plates 15 and 20 when they are bound firmly together by the customary cam clamping action.

60 It is obvious of course, that the plate 20 is simply placed between the slotted flanges 18 with the lugs 23 projecting out through the inclined cam slots 19, whereby when an endwise pull or thrust is exerted upon the hook 21 the well-known cam action is developed between these parts to bind the belt or material between the two plates. In the present buckle arrangement the clamping action is uniform, positive and dependable, such as to firmly hold the belt end 10 in place in the manner described. Likewise, the binding or clamping action is such as to minimize damage to the belt, strap, or band, as the case may be.

From the foregoing description it will be observed that the principal novelty is predicated upon the particular construction and arrangement of the buckle irrespective of the structure with which it is used. Such a buckle is applicable to belts, body encircling bands, straps, and similar accessories. In particular, a buckle of this type may well be used as a back-band buckle in conjunction with plow gear and wagon harness by merely changing the position of the buckle in the drawing from a horizontal to a vertical position to accommodate a trace or the like (not shown). Needless to say, however, the buckle may be used for any purpose for which it is found satisfactorily applicable.

These and other structural, commercial and economical features have doubtless been made apparent from the explanatory description when read in conjunction with the illustrative drawings.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of parts provided that such changes fall within the scope of the appended claim.

I claim:

As a new article of manufacture, a buckle comprising a backing plate provided at opposite ends with right angularly bent flanges having inclined cam slots, the central portion of said plate being formed with a longitudinally elongated maintenance boss, a slidable clamping plate superimposed upon the backing plate and confined between said flanges, said clamping plate being provided with opposed lugs having slidable cam co-action with said slots, said clamping plate being formed with a retaining hook, and an elongated adaptation hole for co-operation with said boss to permit a band end to be firmly clamped between the plates and forced by the boss into said adaptation hole.

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