

H. TENNY.
BUCKLE ATTACHMENT.
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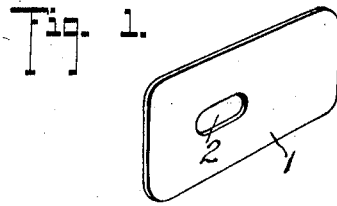


Fig. 2.

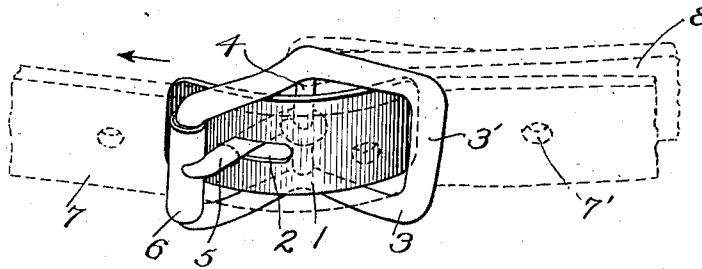
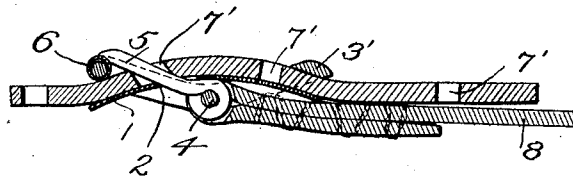


Fig. 3.



Witnesses

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HENRY TENNY, OF HAMLIN, NEW YORK.

BUCKLE ATTACHMENT.

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Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY TENNY, a citizen of the United States, residing at Hamlin, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Buckle Attachments, of which the following is a specification.

This invention relates to improvements in buckle attachments and pertains particularly to a simple device adapted to be applied to harness buckles, especially to those used in connection with double reins.

The object of my invention is to provide an attachment consisting of a resilient plate readily applicable to buckles for causing frictional engagement of the reins or straps passing therethrough, with said buckle, in such a manner as to prevent the tendency of the tongue of the buckle from becoming displaced or assuming a vertical position, due to looseness of mounting or strain placed upon the reins. A well known disadvantage of the above mentioned condition is experienced in the use of fly nets and other like coverings for horses where the displacement of the tongue from the end of the buckle permits the former to catch in said covering with consequential damage, such as tearing or snagging of the same.

A further advantage is subserved by my device in that the usual strain on the straps passing through the buckle is distributed by the frictional contact of the plate with the buckle ends, this being particularly desirable as the harness becomes old and weakened.

With the above and other objects in view, this invention consists of the construction, combination, and arrangement of parts, all as hereinafter more fully described, claimed and illustrated in the accompanying drawings, wherein,

Figure 1 is a perspective view of my device alone. Fig. 2 is a perspective view of my invention applied to a buckle of a double harness rein, said rein being broken off and shown in dotted lines to bring out clearly the application of the device. Fig. 3 is a longitudinal sectional view of my invention applied, as in Fig. 2, the rein being broken off.

Throughout the following detail description and on the several figures of the drawings, similar parts are referred to by like reference characters.

Referring now to the drawings and specifically describing the same, my invention

consists of a resilient plate 1 substantially rectangularly shaped, having an elongated slot or opening 2 cut out from the body thereof nearer one end and centrally of the same.

In carrying out the use of my invention, 3 designates the buckle frame comprising the transverse rod or tongue carrying bar 4 upon which the tongue 5 is pivotally mounted, said buckle having a roller 6 on one end, and being of conventional form as applied to driving reins for double harness, 7 indicating the main or long strap or member passing through the buckle and 8 the short strap or member of one rein.

Applying the device, the plate is inserted on the tongue 5 which passes through the opening 2 and the bar 4, and the long rein strap 7 is then passed beneath the end 3' and on top of the said plate, over the tongue 5 which is inserted in an opening 7' in the strap, and finally beneath the roller 6. A pull on the strap 7 in the direction of the arrow will then cause the plate to assume its curved position, shown in Figs. 2 and 3, and the tongue to assume its normal position against the roller 6. The effect of this action is to cause frictional contact of the ends of said plate with the strap 7 passing thereover and engaging with the ends of the buckle aforesaid. This will effectually prevent displacement of the tongue and distribute the strain placed on the strap 7, particularly at its point of weakness where the opening 7' is located. The plate, being resilient, is bent longitudinally when in operative position and thus exerts a yielding pressure against the adjacent strap part preventing unauthorized movement of the strap on the buckle. Aside from the fact that the plate will prevent the tongue 5 from catching in the net, it will also be apparent that the tendency of the ends of the buckle itself to hang in the meshes will be obviated since the line 7 is held tightly there against.

It will be evident from the foregoing that the device may be applied to buckles used in other parts of harness with equal effect and advantages, and I do not wish to be confined to the specific application herein given. It will also be understood that the plate may be of other shapes than that herein shown and other changes may be made without departing from the spirit of the invention and within the scope of the claims hereto appended.

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

1. In combination with a buckle comprising a frame, a tongue and tongue carrying bar, a strap part passing over the bar beneath the frame ends and engaged by the tongue, and a resilient member beneath the strap part and maintained under tension by the coöperation of the buckle and strap part to press the latter in frictional engagement with the ends of the frame, thereby preventing unauthorized movement of the strap on the buckle.

2. In combination, a buckle comprising a frame and strap engaging tongue and resilient means for preventing unauthorized movement of a strap part on the frame, said last mentioned means consisting of a flat spring plate mounted on the frame, and a strap part engaged with the tongue and arranged between the plate and frame and holding the plate bowed or curved under tension, causing it to positively hold the strap part resiliently against the ends of the frame.

3. In combination with a buckle comprising a frame, pivoted tongue and tongue carrying bar, a strap passing therethrough having an opening to receive the tongue, and a resilient plate mounted on the bar beneath the strap normally coöperating with the strap beneath one end of the buckle and

movable with said strap to frictionally engage the same with the ends of said buckle.

4. In combination with a buckle comprising a frame, tongue and tongue carrying bar, a strap passing therethrough having an opening to receive the tongue, and a resilient plate having an elongated opening nearer one end thereof through which the tongue is inserted, said plate being mounted on the bar beneath the strap and engaged at its central portion with said bar, said plate being also movable with the strap to resiliently hold said strap in engagement with the ends of the buckle as the tongue is moved into normal operative position.

5. In combination with a buckle comprising a frame, tongue and tongue carrying bar, a strap passing therethrough and having an opening to receive the tongue, and a straight resilient plate, having an opening to receive the tongue, mounted on the cross bar beneath the strap and movable with the latter to curve the plate over the bar and thereby frictionally engage the strap with the ends of the buckle.

In testimony whereof I affix my signature in presence of two witnesses.

HENRY TENNY.

Witnesses:

S. W. CONKLING,
F. W. HARRIS.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."