

J. F. MOLLOY.
BUCKLE.
APPLICATION FILED JUNE 29, 1908.

946,974.

Patented Jan. 18, 1910.

Fig. 1

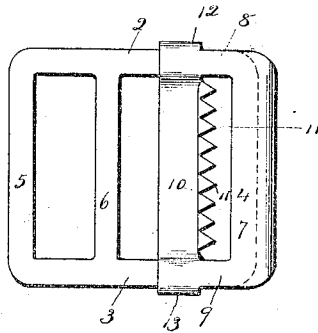


Fig. 2

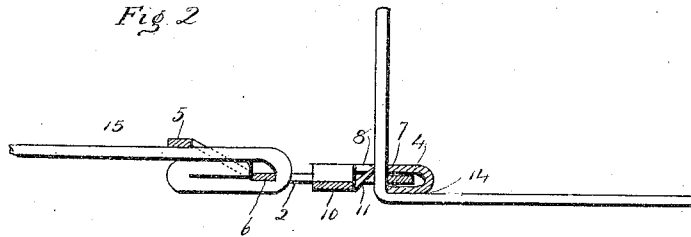


Fig. 3

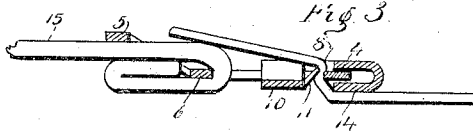


Fig. 4

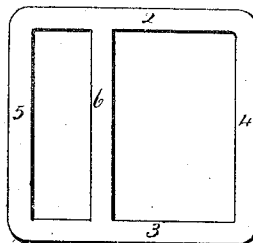


Fig. 5

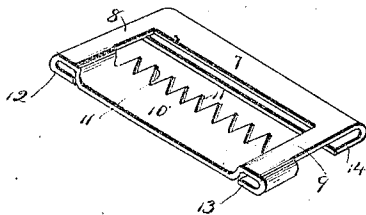
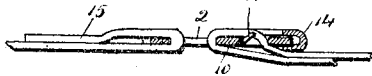


Fig. 6



Witnesses
J. Reed.
L. Reed

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UNITED STATES PATENT OFFICE.

JAMES F. MOLLOY, OF WEST HAVEN, CONNECTICUT.

BUCKLE.

946,974.

Specification of Letters Patent.

Patented Jan. 18, 1910.

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To all whom it may concern:

Be it known that I, JAMES F. MOLLOY, a citizen of the United States, residing at West Haven, in the county of New Haven and State of Connecticut, have invented a new and useful Improvement in Buckles; and I do hereby declare the following, when taken in connection with the accompanying drawings and the numerals of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1 a top or plan view of a buckle with the strap detached. Fig. 2 a sectional view showing the strap engaged with the buckle and before tension is applied thereto. Fig. 3 a similar view with the strap under tension. Fig. 4 a plan view of the frame detached. Fig. 5 a perspective view of the slide, detached. Fig. 6 a sectional view of a modified form of my buckle.

This invention relates to an improvement in buckles and particularly to buckles adapted for use in connection with straps, such as trunk straps or other straps which are adapted to be placed under considerable strain, which will firmly hold the strap and which can be readily disengaged therefrom; and the invention consists in the construction hereinafter described and particularly recited in the claims.

As shown I employ a rectangular frame comprising side bars 2, 3, a forward bar 4 and rear bar 5, these bars forming the rectangular frame and the sides 2, 3, are preferably connected by a transverse bar 6. The rear ends of the sides 2, 3, are inclined upward so as to raise the rear bar 5 above the plane of the bars 4 and 6 so as to form a tuck loop. The clamping member is in the form of a slide and comprises a plate 7 with rearwardly extending arms 8 and 9 the rear ends of the arms being connected by a jaw bar 10 having its forward edge upturned and serrated to provide gripping teeth 11. This jaw bar 10 is set downward between the sides 2 and 3 and the rear edge of the arms 8 and 9 have fingers 12 and 13 which are respectively adapted to fold over the side bars 2, 3. Thus while the plate 7 is adapted to slide upon the surface of the frame the jaw bar 10 is set down between the frame so that the slide has a firm support on the frame. The plate 7 is also formed with a lip 14 which extends downward and beneath

the forward bar 4. The inner edge of the plate and the edge of the lip 14 are so disposed with relation to the forward bar 4 that they will coact with the strap as will be hereinafter described. One end of the strap 15 is looped over the transverse bar 6 and is passed beneath the rear bar 5; the other end of the strap is passed from rear to front between the teeth 11 and the forward bar 4, then as strain is brought to bear upon the strap the surface of the strap will engage with the edge of the lip 14 and tend to draw it outward, and this outward strain upon the lip 14 draws the teeth 11 into close engagement with the strap and clamps it against the forward bar 4. When it is desired to release the strap the plate 7 is pushed back which forces the teeth 11 backward away from the bar 4 and so releases the strap, the rounded surface between the plate 7 and its lip 14 forming a convenient finger-piece, and yet by being rounded is not liable to be accidentally engaged so as to inadvertently release the buckle.

Instead of employing the transverse bar 6, the strap may be secured to the rear bar 5 of the frame as shown in Fig. 6, and instead of passing the strap upward between the bar 4 and the teeth 11, it may be passed upward through the frame in rear of the jaw bar 10, then turned forward over the bar 10 and downward between the teeth 11, and the forward bar 4, and the strain upon the strap will cause the teeth 11 to clamp the strap against the bar 4 as before described and rearward pressure upon the forward edge of the slide will release the strap.

I claim:—

1. A buckle comprising a frame having sides, front and rear bar, combined with a slide comprising a plate bearing upon the front bar and carrying a jaw bar which is set downward between the sides of the frame, said plate also formed with a downwardly and rearwardly projecting lip adapted to extend beneath the front bar of the frame, substantially as described.

2. A buckle comprising a frame having sides, ends and a transverse bar, the rear end of the sides bent upward whereby the rear bar stands in a different plane from the plane of the front bar, combined with a slide comprising a plate and rearwardly projecting arms, said arms connected by a jaw bar having teeth-like projections extending upward and toward the forward bar

said jaw bar set downward between the side bars of the frame, said arms formed with fingers which are folded beneath the side bars of the frame and the slide also formed with a lip extending downward and beneath the forward bar of the frame, substantially as described.

3. A buckle, comprising a frame including side bars and cross bars forming a loop in both the forward and rear portions of the frame, a slide connected with the frame and having a strap opening therethrough and a toothed upwardly extending edge to engage a strap, and an extension disposed downward below the frame to form a thumb piece and an edge for the engagement of the strap.

4. A buckle, comprising a frame including side bars and cross bars forming a loop in both the forward and rear portions of the frame, a slide connected with the frame and having a strap opening therethrough and an edge to engage a strap and an extension disposed downward and under the forward cross bar of the frame with an edge presented for the engagement of the strap.

5. A buckle, comprising a frame having side bars and cross bars forming a loop in

both the forward and rear portions of the frame, a slide connected to the side bars having a loop of a width and shape substantially like that of the forward loop through the frame, and having a series of teeth along its inner edge for the engagement of a strap, and an extension formed upon the forward cross bar of the slide and disposed downward and inward for the engagement of the strap.

6. A buckle, comprising a frame including side bars and cross bars forming a loop in both the forward and rear portions of the frame, a slide having a strap opening therethrough and arranged upon the front side of the frame and slidably connected thereto with an edge to engage a strap and having an extension turned down and under the forward bar of the frame and with its edge disposed across the path of the strap when threaded through the buckle.

In testimony whereof, I have signed this specification in the presence of two subscribing witnesses.

JAS. F. MOLLOY.

Witnesses:

FREDERIC C. EARLE,
CLARA L. WEED.