Oct. 25, 1927. 1,646,545

E. LAIER

BUCKLE

Filed April 18, 1927

Fig 1

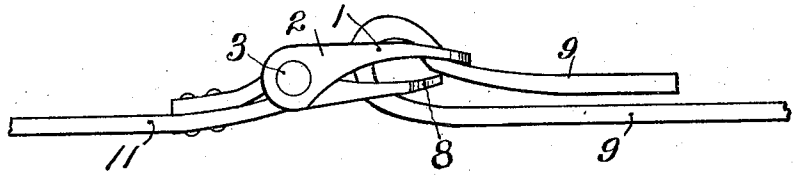


Fig 2

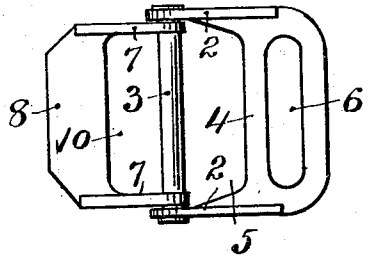


Fig 3

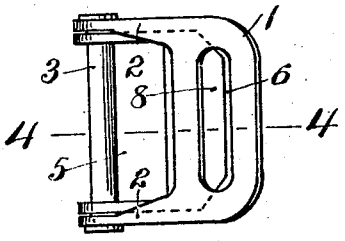
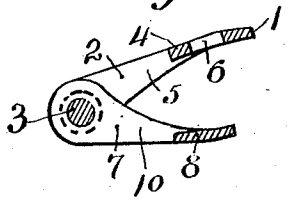


Fig 4



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UNITED STATES PATENT OFFICE.

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BUCKLE.

Application filed April 18, 1927. Serial No. 184,581.

My invention relates to improvements in buckles.

One of the objects of my invention is to provide a novel buckle, which is simple, cheap, strong, durable, which will securely hold a strap engaged thereby from slipping in one direction while permitting of its being readily moved in the opposite direction, which is easily and quickly operated, and which is effective in its operation in connection with an imperforate strap.

The novel features of my invention which are hereinafter fully described and claimed include novel means for engaging a strap with my improved buckle.

In the accompanying drawing, which illustrates the preferred embodiment of my invention,

Fig. 1 is a side elevation of my improved buckle shown engaging a strap, portions of which are shown.

Fig. 2 is an inside plan view of the buckle with the tongue shown in the open or non-clamping position.

Fig. 3 is an outside plan view of the buckle showing the tongue partly closed.

Fig. 4 is a section on the line 4—4 of Fig. 3.

Similar reference characters designate similar parts.

The body 1 of the buckle has two parallel arms 2 in which is mounted a pintle 3. The body 1 has a bridge 4 between the arms 2 and spaced from the pintle 3 so as to provide an opening 5. The body 1 is provided between the bridge 4 and the outer end of the body with a transverse slot 6.

The buckle is provided with a tongue having two parallel arms 7 which are pivoted on the pintle, preferably between the arms 2. The tongue has a transverse lip 8 connecting the outer end portions of the arms 7.

The arms 7 and width of the lip 8 are such that the outer edge of the lip is adapted to register with the slot 6, so as to clampingly engage a strap 9 which is adapted, as shown in Fig. 1, to be passed through the slot 6 and downwardly through the opening 5 and an opening 10 provided between the pintle 3 and the lip 8.

Suitable anchoring means is provided comprising a strap 11 which passes through the openings 5 and 10 and embraces the pintle 3 and has its doubled portions fastened together. If desired the strap 11 may be a prolongation of the strap 9.

If the lower part of the strap 9, as shown in Fig. 1, is pulled to the right, it will force the outer edge of the lip 8 into clamping engagement with the underside of the upper part of the strap, thereby tending to force the lip into the slot 6, and causing the upper part of the strap to be clampingly held between the lip 8 and the portions of the body at opposite sides of said slot 6, the buckle, meanwhile being held from moving to the right by the strap 11.

By pulling the upper part of the strap 9 to the right, the lip 8 may be released, thereby permitting the upper part of the strap 9 to be slipped through the buckle to the right, tension, however, exerted to the right on the lower part of the strap causing the lip to engage and force the strap into the clamping position. An imperforate strap may thus be securely held by the buckle in the position to which it may be adjusted.

I do not limit my invention to the structure shown and described, as modifications, within the scope of the appended claims may be made without departing from the spirit of my invention.

What I claim is:—

1. A buckle comprising a body having two arms, a bridge between said arms, and a transverse slot between said bridge and the outer end of said body, a pintle mounted in said arms, and a tongue having two arms pivoted to said pintle and provided at its outer end with a transverse lip adapted to have its outer edge register with said slot and to engage and hold from slipping in one direction a strap adapted to be passed through said slot, said lip and said bridge being spaced from said pintle to provide two openings adapted to receive therethrough said strap and anchoring means adapted to embrace said pintle.

2. The combination with a buckle having two arms, a bridge between said arms, and a transverse slot between said bridge and the outer end of said body, a pintle mounted in said arms, and a tongue having two arms pivoted to said pintle and provided at its outer end with a transverse lip adapted to have its outer edge register with said

slot, said lip and said bridge being spaced from said pintle to provide two openings, of anchoring means extending through said openings and embracing said pintle, and a strap extending through said openings and through said slot and adapted, when pulled in one direction, to engage said lip and to force the latter to have its outer edge engage said strap so as to clampingly hold the latter against said body from slipping in the said direction.

In testimony whereof I have signed my name to this specification.

EMIL LAIER.