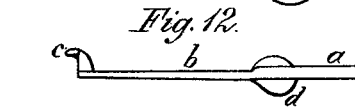
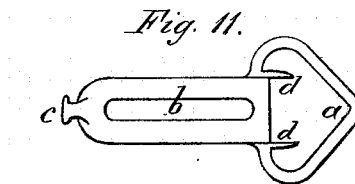
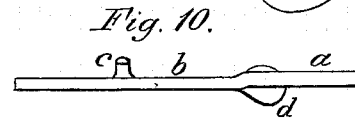
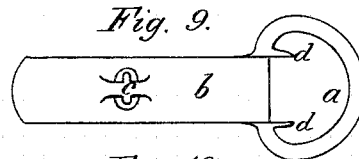
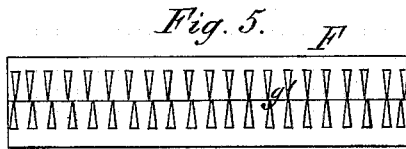
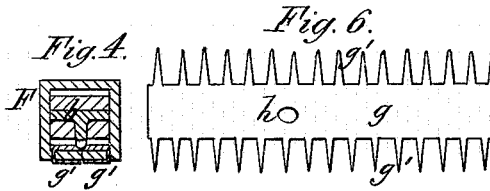
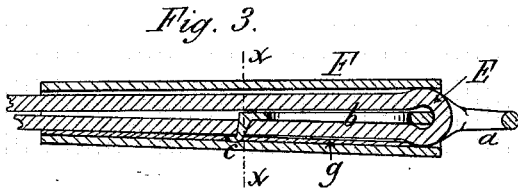
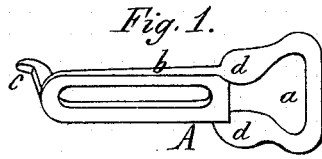


E. G. LATTA.
 HARNESS BUCKLES.

No. 189,632.

Patented April 17, 1877.



Charles J. Buschheit
 George H. Sykes } Witnesses

E. G. Latta... Inventor
 by Edward Wilhelm
 Attorney

UNITED STATES PATENT OFFICE.

EMMIT G. LATTA, OF FRIENDSHIP, NEW YORK.

IMPROVEMENT IN HARNESS-BUCKLES.

Specification forming part of Letters Patent No. 189,632, dated April 17, 1877; application filed February 22, 1877.

To all whom it may concern:

Be it known that I, EMMIT G. LATTA, of Friendship, in the county of Allegany and State of New York, have invented certain new and useful Improvements in Harness-Buckles, which improvements are fully set forth in the following specification, reference being had to the accompanying drawing.

My invention relates to that class of harness-buckles which are composed of a metallic fastening, around which the strap is doubled, and which are inclosed by a sheath or slide, by which the strap is held in place.

The nature of my invention will be fully understood from the following description.

In the accompanying drawing, Figure 1 is a perspective view of the metallic fastening. Fig. 2 is a similar view, with the strap applied. Fig. 3 is a longitudinal section of the complete buckle. Fig. 4 is a cross-section in line *xx*, Fig. 3. Fig. 5 is a rear view of the sheath. Fig. 6 is a view of the metallic plate previous to securing it to the sheath. Fig. 7 shows the metallic plate in a modified form. Fig. 8 shows a modified form of the metallic fastening, corresponding with Fig. 7. Figs. 9 and 10 show the metallic fastening, with the tongue arranged near the middle of the bar. Figs. 11 and 12 show the metallic fastening with the tongue and loop slightly modified in form.

Like letters of reference refer to like parts in each of the figures.

A represents the metallic fastening or buckle, consisting of a ring or loop, *a*, of any suitable form, a bar or plate, *b*, and a hook-shaped tongue, *c*, arranged on the flat side of the bar *b*, and all cast in one piece. *d d* are flanges, cast on each side of the bar *b*, where it joins the loop *a* to confine and protect the edge of the strap E, where it passes around the end of the bar. The strap E is passed through the loop *a*, so as to inclose the bar *b*, and the tongue *c* is engaged in one of the holes of the strap, as clearly shown in Figs. 2 and 3.

The tongue *c* may be constructed in the form of a single hook, arranged in the longitudinal direction of the bar *b*, as shown in Figs. 1 and 2, or it may be made in the form

of a double or T hook, arranged transversely on the bar *b*, as shown in Figs. 9, 12.

F represents the sheath or slide inclosing the strap E and buckle A. It is constructed of leather, preferably rectangular in cross-section, and provided on its inner side with a metallic stiffening-plate, *g*, provided with an opening or depression, *h*, engaging over the tongue *c*.

The plate *g* may be secured to the sheath in any suitable manner; but I prefer to construct it with teeth or points *g'*, which are driven through the edges of the piece of leather of which the sheath F is formed, and then bent over, so as to secure the plate to the sheath and the edges of the latter together at the same time.

In applying my improved buckle the strap is first passed around the loop end of the bar *b*, and secured to the metallic fastening A by means of the tongue *c*. After the strap is so secured to the fastening A, the sheath F is slipped over the strap, so as to firmly clamp the parts together, the depression *h* of the plate *g* engaging over the tongue *c*, thereby preventing the sheath from being slipped off accidentally. The plate or bar *b* is preferably made tapering or wedge-shaped, as shown in Figs. 1 and 2, so that the sheath will bind in being slipped over the strap and fastening. The plate *b* may be constructed with a longitudinal slot to reduce its weight.

In order to secure the sheath to the fastening A still more firmly, the flanges *d* thereof may be provided with offsets or shoulders, and the plate *g* with corresponding shoulders projecting laterally and engaging on the shoulders of the flanges *d* when the sheath is in position, as represented in Figs. 7 and 8.

If desired, the tongue *c* may be arranged toward the middle of the plate *b*, instead of at the end thereof, as shown in Figs. 9 and 10; but I prefer to arrange the tongue at the end of the plate, as the strap is easier adjusted when the tongue is so arranged.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A harness-buckle, consisting of a ring or

loop, *a*, bar or plate *b*, and hook-shaped tongue *c*, arranged as shown, and cast in one piece and adapted to be used with a surrounding sheath or loop, *F*, substantially as and for the purpose hereinbefore set forth.

2. The combination, with the buckle composed of the loop *a*, bar *b*, and tongue *c*, of the sheath *F*, provided on its inner side with a metallic plate, *g*, having a depression, *h*, substantially as and for the purpose hereinbefore set forth.

3. The leather sheath *F*, having arranged on its inner side a metallic plate, *g*, provided

with points *g'* for stiffening the sheath and securing the two edges of the leather together, substantially as hereinbefore set forth.

4. The combination, with a surrounding sheath, *F*, of a buckle, composed of a loop, *a*, wedge-shaped plate *b*, tongue *c*, and side flanges *d d'*, all formed in one piece, substantially as and for the purpose hereinbefore set forth.

EMMIT G. LATTA.

Witnesses:

EDWARD WILHELM,
GEORGE H. SYKES.