

(No Model.)

A. U. SMITH.  
BUCKLE.

No. 345,082.

Patented July 6, 1886.

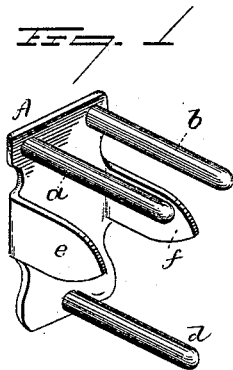
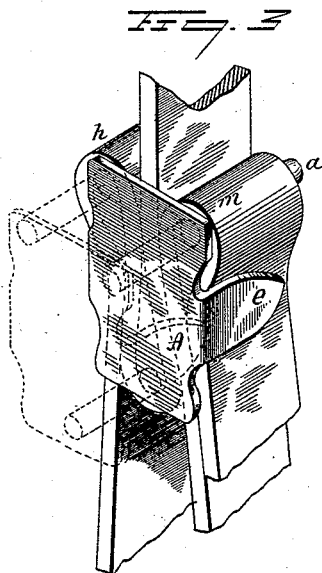
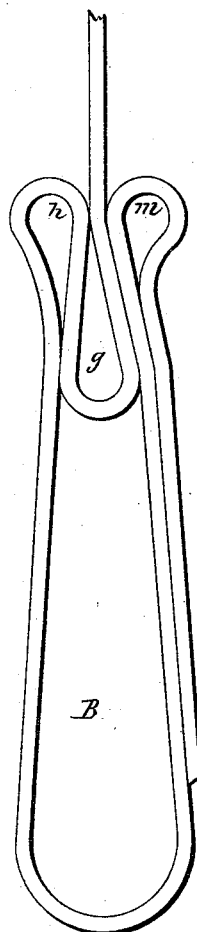


Fig. 2



Witnesses.  
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# UNITED STATES PATENT OFFICE.

ALBERT U. SMITH, OF SEYMOUR, CONNECTICUT.

## BUCKLE.

SPECIFICATION forming part of Letters Patent No. 345,082, dated July 6, 1886.

Application filed May 3, 1886. Serial No. 200,908. (No model.)

*To all whom it may concern:*

Be it known that I, ALBERT U. SMITH, of Seymour, in the county of New Haven and State of Connecticut, have invented new Improvements in Buckles; and I do hereby declare the following, when taken in connection with accompanying drawings and the letters 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 perspective view of the buckle; Fig. 2, the strap or loop to receive the buckle; Fig. 3, perspective view showing the buckle as applied to the strap.

This invention relates to an improvement in buckles, and particularly to that class which are adapted to be applied to driving-reins to form a loop for the hand of the driver.

In the more general construction of this class of buckles it is necessary to pass the buckle over one end of the rein and slide it thereon to the desired position, and also provide the rein with holes to receive the tongue of the buckle. Such holes necessarily weaken the rein.

The object of this invention is to provide a buckle which may be readily applied to any desired position without detaching the rein or in any way weakening it; and it consists of a plate or face constructed with several pins projecting from one side and with an arm on each edge projecting from same side as, and substantially parallel with, the pins, the said pins adapted to interlace with the loop of a strap, and the arms to embrace the loops so interlaced, as more fully hereinafter described.

A represents the plate or base, of any desired shape, provided with a pin, *a*, at one corner at one end, a second pin, *b*, in the opposite corner of the same end, and a third pin, *d*, at the center of the opposite end, and with an arm, *e*, at one side, and a second arm, *f*, at the opposite side. The said pins and arms extend at right angles to the plane of the plate. The rein or strap in which the loop is to be formed is doubled upon itself,

and then back, forming the loops *g h*, then again forward, forming the hand-loop *B*, and then back, forming a loop, *m*. The buckle is then introduced at one edge of the looped parts, (as seen in Fig. 3, broken lines,) the pin *a* entering the loop *m*, the pin *b* the loop *h* the pin *b* the loop *g*, and the arms *e f* passing outside of the loops, as shown in Fig. 3, and so as to clamp the outsides of the looped part. The short bends thus formed in the strap prevent its slipping, and the loop is secure, and as the bends may be made at any point in the strap the hand-loop may be formed at any desired position, and when the loop is not required the buckle is easily removed and the rein is in the usual condition.

While this invention is particularly adapted to form the hand-loop for reins, it may be employed as a hitching device when the rein is used as a tie-strap, in which case the loop *B* encircles the post or thing hitched to, and the buckle applied as before described, thus forming a secure hitch, not liable to accidental detachment.

It will be understood that the relative position and shape of the pins and arms may be somewhat changed without departing from my invention.

I claim—

1. The herein-described buckle, consisting of a base or plate constructed with pins and arms arranged substantially as described, and projecting therefrom, and at substantially right angles thereto, the arms adapted to embrace and the pins to interlace with the looped strap, substantially as and for the purpose described.

2. A buckle consisting of the plate *A*, constructed with the pins *a b* at one end and a pin, *d*, at the center of the opposite end, and with an arm at each side, said pins and arms being at substantially right angles to the plane of the plate, substantially as and for the purpose described.

ALBERT U. SMITH.

Witnesses:

NORMAN SPERRY,  
WALTER W. DORMAN.