

C. H. TRUMBULL.

Metallic Safety Loop for Harness.

No. 124,298.

Patented March 5, 1872.

Fig 1.

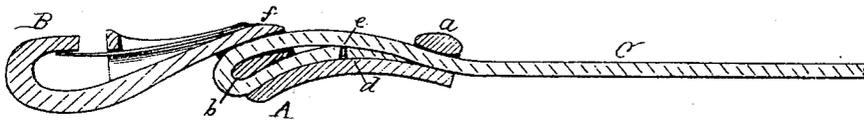
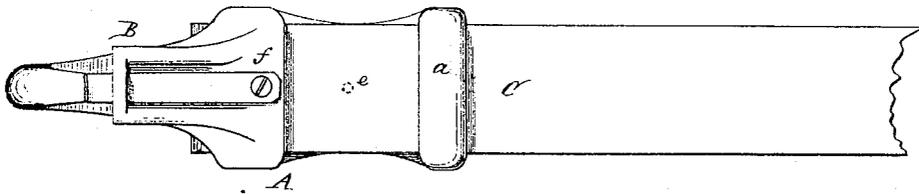


Fig 2.



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IMPROVEMENT IN SAFETY-LOOPS FOR HARNESS.

Specification forming part of Letters Patent No. 124,298, dated March 5, 1872.

SPECIFICATION.

Be it known that I, CHARLES H. TRUMBULL, of Marion, in the county of Wayne and State of New York, have invented certain Improvements in Metallic Safety-Loops for Harness, of which the following is a specification:

The object of my invention is to provide a secure fastening for the ends of reins, tie-straps, and other similar parts of harness or halters, by which the usual stitching is dispensed with; and it consists, mainly, of a metallic loop or clamp, upon or in which the strap is folded, and held partly by friction and partly by a spur or hook.

In the accompanying drawing, Figure 1 is a sectional elevation of my invention. Fig. 2 is a plan view.

It is well known that by the ordinary method of stitching the fold of halter and tie-straps into a buckle or snap-hook the leather is not only weakened at this point, but the animals upon which they are used chafe or wear the stitching to such an extent that the strap finally gives way. By my invention I obviate these difficulties.

A represents my improved clamp, made of malleable iron or other suitable metal, and which is preferably formed in one piece with the snap-hook B. The clamp is provided with loop-bars *a* and *b*, under and around which the strap C passes, as indicated in Fig. 1. A bearing, *d*, is provided upon the body of the clamp A between the loops *a* and *b*, which projects somewhat within a line drawn through the loop-openings under *a* and *b*, and, it will be observed, that if the strap C be passed through the loops and folded over the bar *b*, so that its extremity shall reach upon the bearing *d*, as shown, the draft upon it will securely clamp such extremity by the friction upon the bearing *d*, and also that of the fold about the bar *b*. The relative position of the loop-bar *a* and bearing *d* causes this action, since the strap thus draws downward upon the frictional bearing. To make the attachment still further secure, however, I provide a spur, *e*, upon the

body of the clamp, which projects through the end of the strap. Thus it will be seen that the latter will be retained in the clamp although the fold should become slack and the friction relieved.

Two or more of these spurs may be used, if desired, and in such case it may not always be necessary to employ the frictional bearing *d*, the fold about the bar *b* materially assisting in clamping the strap. A projecting bar, *f*, adjacent to the loop-bar *b* and over the strap, prevents the latter from lifting and thereby allowing the folded end to escape from the spur or spurs *e*.

As before mentioned, it is generally desirable to use the ordinary snap-hook in connection with my device, and I prefer, therefore, to construct the two in one piece of metal, as shown, the guard *f* becoming that portion of the snap-hook to which the spring is attached, thus rendering the combined implement cheaper and more compact than when separate. The clamp may, however, be used in positions where the snap-hook would be unnecessary.

In the place of the spurs *e* the body of clamp may be serrated laterally, the action being similar but not so effective.

By means of this invention a secure attachment for reins and tie-straps is provided; the labor of stitching the lap in the usual manner is avoided; and when worn the rein may be re-secured in the clamp in a few minutes, while, at the same time, an animal cannot detach it nor chafe it, except by long wear.

What I claim is—

1. The clamp A, provided with loop bars *a* and *b* and frictional bearing *d*, arranged to receive and hold the strap C, substantially in the manner set forth.

2. The clamp A, constructed substantially as shown and described, and provided with the snap-hook B, as and for the purposes set forth.

CHARLES H. TRUMBULL.

Witnesses:

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