(No Model.)

L. DYER.

BUCKLE.

No. 462,939. Patented Nov. 10, 1891.

Fig. 1.

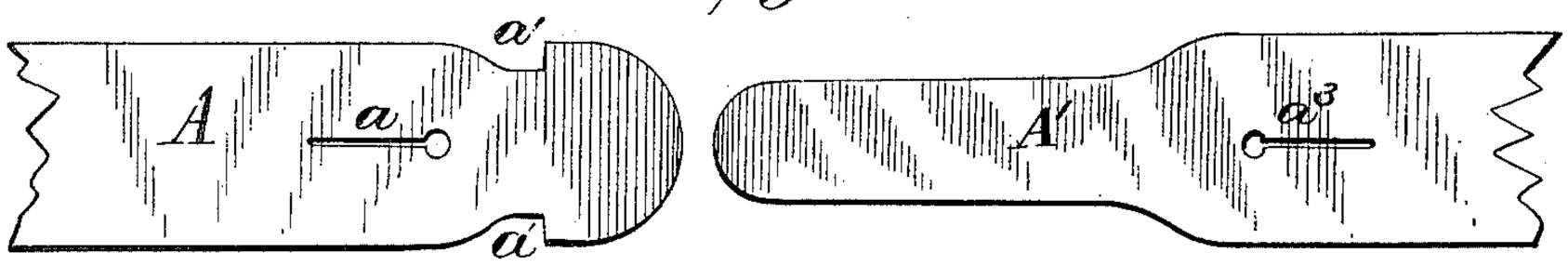


Fig. 2.

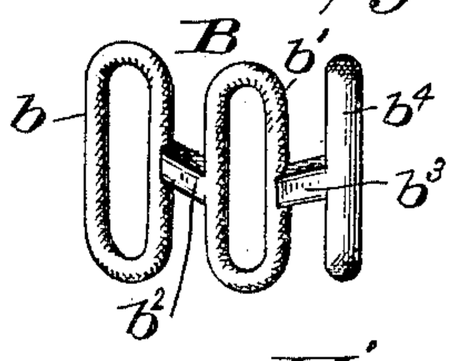


Fig. 3

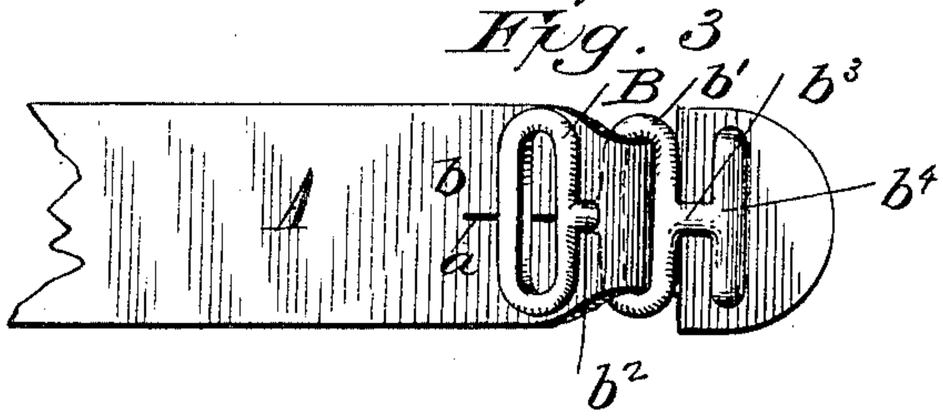


Fig. 4.

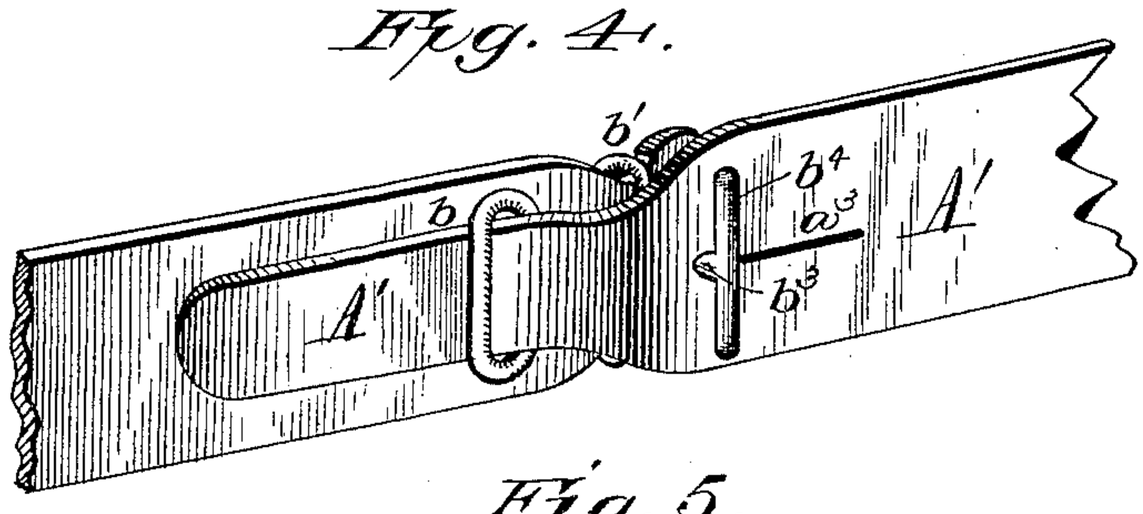
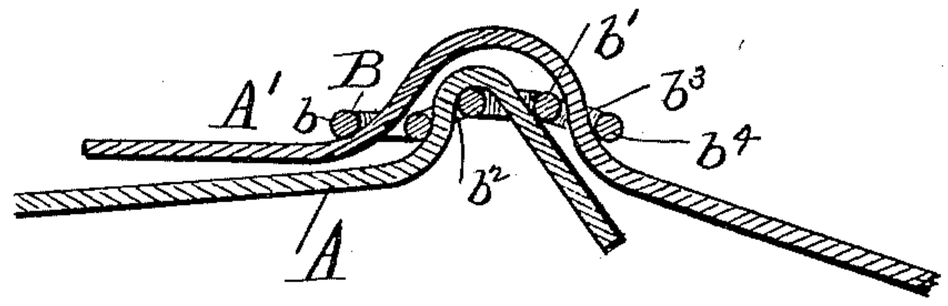


Fig. 5.



WITNESSES:
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UNITED STATES PATENT OFFICE.

LUCIUS DYER, OF MILLBRIDGE, MAINE.

BUCKLE.

SPECIFICATION forming part of Letters Patent No. 462,939, dated November 10, 1891.

Application filed February 28, 1891. Serial No. 383,198. (No model.)

To all whom it may concern:

Be it known that I, LUCIUS DYER, a citizen of the United States, and a resident of Millbridge, in the county of Washington and State of Maine, have invented certain new and useful Improvements in Buckles; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to an improvement in harness-buckles, and more especially adapted for fastening the rear ends of driving-reins, where said reins are made in two parts.

The object is to attain a secure fastening, which will not work loose, and thereby allow the reins to become separated, as is often the case with the buckles ordinarily employed.

A further object is to dispense with all rivets or the necessity of stitches.

The invention consists in the improved construction and combination of parts, as hereinafter more fully described in the specification, and set forth in the claims.

In the accompanying drawings, Figure 1 is a side elevation of the opposite ends of the reins, showing clearly the formation thereof for the purpose of adapting the same to my improved buckle. Fig. 2 is a detail view in perspective of the buckle. Fig. 3 is a side elevation showing the buckle applied to one of the ends of the reins. Fig. 4 is a perspective view showing the ends of the reins secured, and Fig. 5 is a longitudinal section.

Like letters of reference refer to like parts throughout the several views.

Referring to the drawings, the letters A A′ indicate the reins. The part A is designed to receive the buckle and is provided with a longitudinal slit *a*, and is also provided upon opposite edges with recesses *a′ a′*.

The letter B indicates the buckle, said buckle consisting of two transverse loops *b b′*. It will be noticed that the outer loop *b′* is on a plane somewhat higher than its companion *b*, the two being connected by means of a central web b^2. The loop *b′* has also projecting downwardly from its outer side an arm b^3, said arm being formed or provided with a transverse piece b^4. By this construction the inner loop *b* and the transverse strip b^4 are brought approximately upon the same plane, whereas the outer loop *b′* is on a plane somewhat higher, thus forming a central bulge.

The buckle is adjusted in the following manner: The inner loop *b* is first turned lengthwise, so as to be readily inserted through the longitudinal slit *a* of rein A. After thus inserting the buckle is turned, so that the loop referred to is transverse to the slit through which it is passed, thus insuring against its working out of place. In this position it will be seen that the web b^2 rests within the slit *a* of the rein A. The extreme end of said rein is now passed through loop *b′*, so that the recess portions *a′ a′* will rest against the inner ends of this last-named loop. The buckle is now in proper position for the attachment of the rein A′. This rein is provided with a longitudinal slit a^3, and the end thereof is turned crosswise, so as to permit of the transverse strip b^4 passing therethrough. After this the rein is turned to its normal position and the extreme end thereof passed through loop *b*.

From the foregoing description the operation and construction of my improved device, it is thought, will be readily understood.

It will be seen that I dispense entirely with rivets or equivalent devices, and at the same time I obtain a most secure fastening and of such an effective character as to avoid all possibility of the ends of the reins becoming detached. This effectiveness is enhanced materially by the central bulge formed by the loop *b′*, which, as will be readily seen, bears firmly against the meeting ends of the reins.

While I have shown and described my device as particularly applied to fastening the ends of reins, still I do not wish to be understood as limiting myself to this particular adaptation, inasmuch as it is obvious that the invention may be applied to other portions of the harness with equal advantage.

In order to unfasten the reins, all that is necessary is simply to remove the small end of A′ from the loop through which it passes and then swing the end of said part A′ sidewise, at which position it can be readily removed from the transverse strip b^4.

Having thus described my invention, what I claim, and desire to secure by Letters Patent of the United States, is—

1. As an improved article of manufacture, a buckle consisting of a central loop having arms projecting from opposite sides thereof, one of said arms being provided with a transverse loop and the opposite arm with a transverse T-head, all of said parts being formed integral, substantially as set forth.

2. As an improved article of manufacture, a buckle consisting of a central loop formed or provided upon opposite sides with downwardly-inclined arms, one of said arms formed or provided with a transverse loop and the other with a transverse T-head, substantially as set forth.

3. The combination of a rein provided with a longitudinal slit, and also near its extremity upon opposite edges with recesses, a buckle consisting of a central loop provided upon opposite sides with downwardly-extending arms, the inner of said arms provided with a transverse loop and the outer with a transverse strip, said buckle adapted to be adjusted to the rein, as shown and described, and a second rein provided with a longitudinal slit adapted to fit over the transverse strip of the buckle and its end to pass through the inner loop of said buckle, substantially as set forth.

In testimony that I claim the foregoing as my own I have hereunto affixed my signature in presence of two witnesses.

LUCIUS DYER.

Witnesses:

CHARLES PEABODY,

HANNIBAL HAYFORD.