J. LETCHWORTH.

Hames.

No. 146,767. Patented Jan. 27, 1874.

Fig. 1.

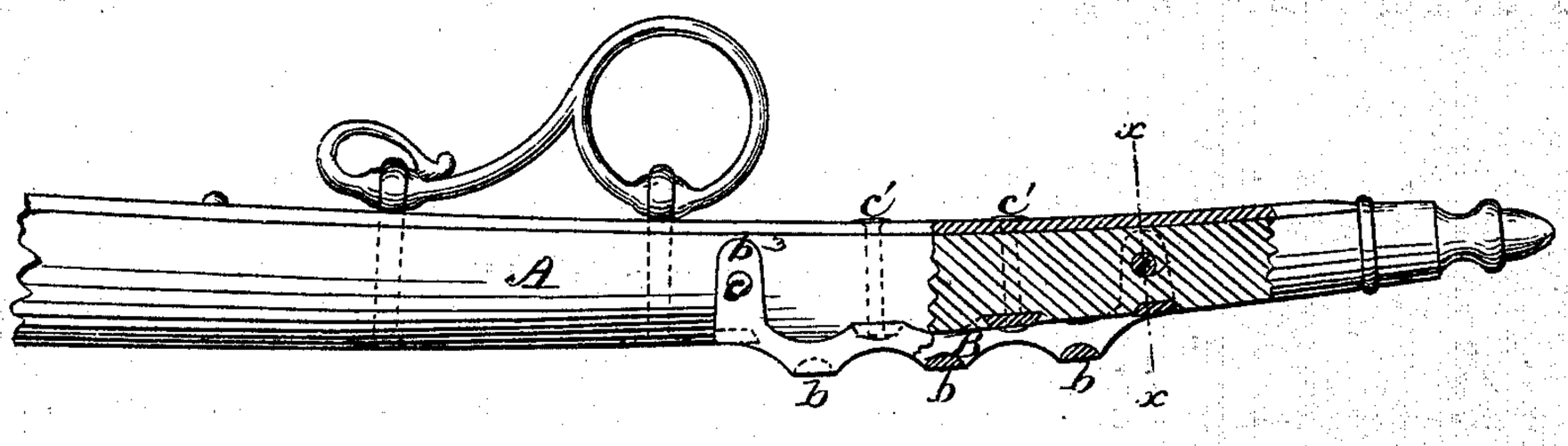


Fig. 2.

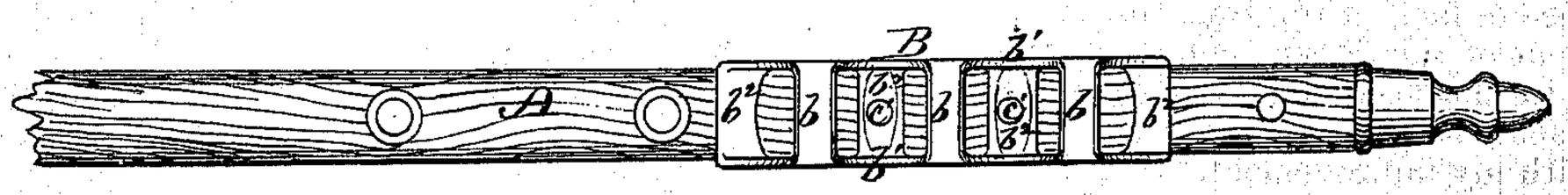
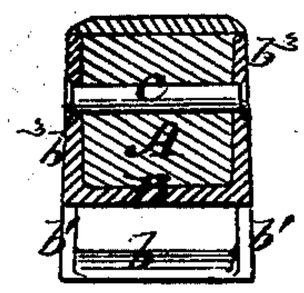


Fig. 3.



Witnesses:

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UNITED STATES PATENT OFFICE.

JOSIAH LETCHWORTH, OF BUFFALO, NEW YORK.

IMPROVEMENT IN HAMES.

Specification forming part of Letters Patent No. **146,767**, dated January 27, 1874; application filed November 24, 1873.

To all whom it may concern:

Be it known that I, JOSIAH LETCHWORTH, of the city of Buffalo, in the county of Erie and State of New York, have invented an Improvement in Hames, of which the following is a specification:

The invention relates to an attachment for the upper portion of the hames, for the purpose of facilitating the connection and adjustment of the upper hame-strap therewith.

In the accompanying drawing, Figure 1 is a sectional side elevation of a hame provided with my improvement. Fig. 2 is an elevation of the front edge thereof. Fig. 3 is a cross-section in line *x x*, Fig. 1.

Like letters designate like parts in each of the figures.

A is the hame. B is my loop attachment, consisting of two or more loops, *b b*, connecting side pieces b^1 b^1, cross-bars b^2 b^2, and flanges b^3 b^3, which overlap sides of the hame. The attachment is readily cast, and is secured to the hame by rivets *c c*, passing through the hame and connecting the flanges b^3 b^3, and also by rivets *c′ c′*, passing through two or more of the cross-bars b^2 b^2, which, by extending through the back-strap *d*, serve as a means for securing the latter to the hames. The loops *b b* project sufficiently from the hame to permit the hame-strap to be passed around the loop, as shown in Fig. 1.

If preferred, the cross-bars b^2 may be countersunk in the hame, and the portions of the hame underneath the loops may be cut away to permit the insertion of the hame-strap, whereby the attachment may be made so as to project but little beyond the surface of the wood. While I prefer to secure the attachment by rivets passing in both directions through the hame, it is obvious that the rivets connecting the flanges, or those passing through the cross-bars, either alone, will be sufficient to hold it in place under ordinary circumstances.

The attachment may be provided with two or more loops, *b*, as may be desired, in order to permit the required range of adjustment of the hame-strap.

What I claim as my invention is—

1. The combination, with a hame, of the loop attachment B, consisting of two or more loops, *b b*, connecting side pieces b^1 b^1, and cross-bars b^2 b^2, rigidly secured to the front edge of the hame, substantially as hereinbefore set forth.

2. The combination, with a hame and loop attachment B, of the flanges b^3 b^3 and rivets *c c*, substantially as hereinbefore set forth.

JOSIAH LETCHWORTH.

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