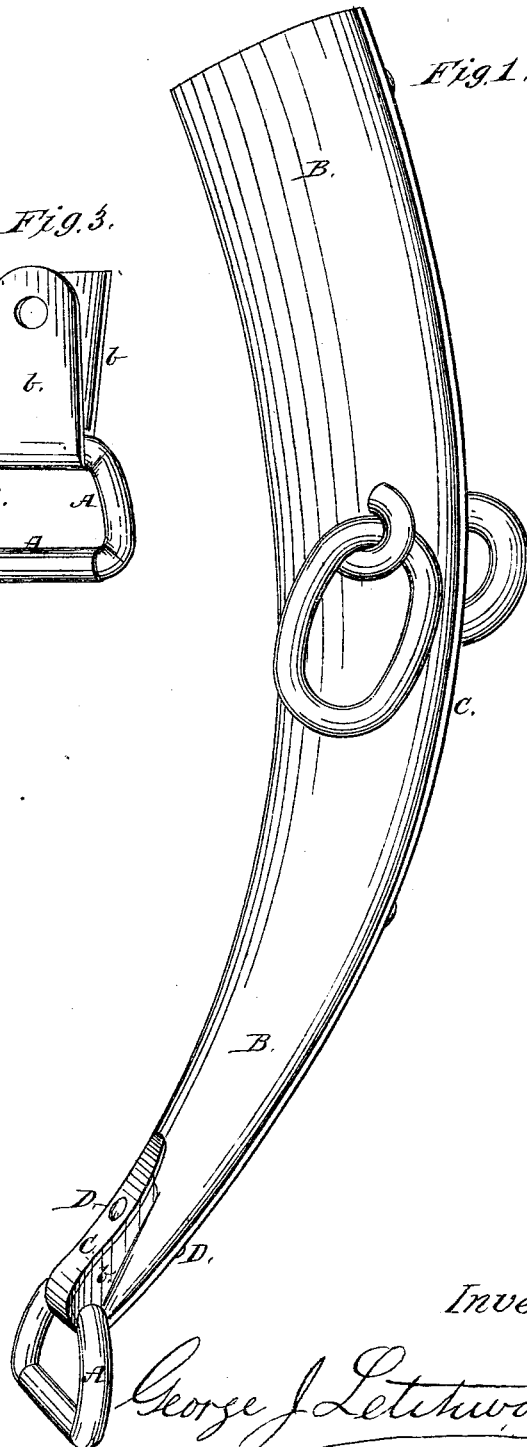
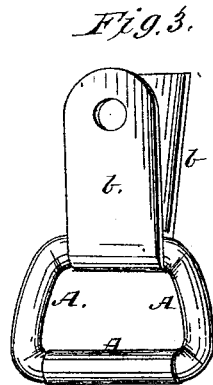
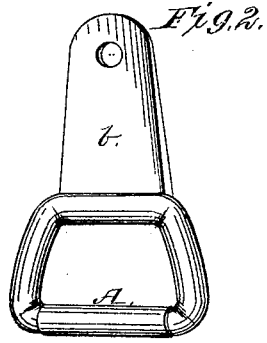


G. J. LETCHWORTH.
EYES FOR HARNESS HAMES.

No. 183,011.

Patented Oct. 10, 1876.



Witnesses

Louis H. Cooper
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UNITED STATES PATENT OFFICE.

GEORGE J. LETCHWORTH, OF BUFFALO, NEW YORK.

IMPROVEMENT IN EYES FOR HARNESS-HAMES.

Specification forming part of Letters Patent No. **183,011**, dated October 10, 1876; application filed July 21, 1876.

To all whom it may concern:

Be it known that I, GEORGE J. LETCHWORTH, of the city of Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Eyes for Hames, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing as making a part of this specification, in which—

Figure 1 shows the improvement as applied to the hame. Fig. 2 shows the metal eye and tongue or extension piece detached, and Fig. 3 an eye having double tongues.

The object of the invention is to obtain, in hames constructed of wood or metal, and having the eye or hame-strap piece made in a separate piece from the other metal parts of the hame, all the advantages at a less cost of hames in which the eye is forged from the metal band with which the wood is bound, or from the metal hame-piece itself.

In the accompanying drawing, B, Fig. 1, represents the wooden portion of the hame, and C the metal facing or band or strap, and A the eye, which is made in a separate piece, having a tongue, *b*, as shown in Fig. 2, and having a hole in it, through which the rivet D passes when the eye A is united to the hame. As shown in the drawing, the tongue *b* is placed on the inside of the wood, and the facing band or strap of metal passes through the eye A and around the end of the hame and the rivet D, passing through the facing band or strap C, the tongue *b*, and the wood. The whole are bound firmly together, and have, practically, all the advantages of an eye forged from the facing band or strap C, which requires a much heavier band or strap than is required by my improved construction.

The advantages of rigid eyes for the hame-strap are that the eyes can be placed so as to stand vertical to or inclined outward from the hame, so that the action of the strap in drawing the hames together in position on the collar will be more perfect, and the friction of the strap and the wear incident to the loose eye

avoided. Fig. 3 shows an eye with a double tongue, which may embrace both sides of the wood when in position on the hame. When but one tongue is used upon the loop it may be used on the inner or outer side of the wood without changing the nature of my invention or the result.

It will be seen that my improvement possesses all the advantages of a rigid eye forged from the metal hame or from the metal facing-band, and that hames constructed on my plan can be drawn snugly into their seat on the collar with as much facility as hames having rigid eyes formed from the metal of which they are in whole or in part constructed; and the gist of my invention consists in adding to the ordinary loose eye a tongue or extension piece, which, when united to the hame as described and shown, gives it rigidity in the direction in which the hame-strap draws.

I am aware that loops have been constructed separate from the hame, but all such, so far as I have knowledge, were free loops or hinged to the hame, so as to turn freely, and in use when the force of the hame-strap was applied to bring the hames down snugly to their seat on the collar the loops were, with the fastening-strap, drawn against the collar, so as to impede, by their friction, the ready and proper adjustment and fastening of the hame to its seat on the collar.

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

1. A hame-eye having the tongue or tongues *b*, substantially as and for the purposes set forth.

2. The combination of the loop having a tongue or tongues, *b*, the wooden part B of hame, and metal facing-band C, substantially as described and shown.

GEORGE J. LETCHWORTH.

Witnesses:

LOUIS H. LAEPERE,
JOHN P. RISING.