

G. F. EBERHARD.
Hame-Loops for Harness.

No. 147,753.

Patented Feb. 24, 1874.

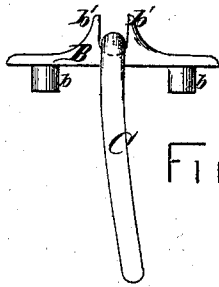


FIG I

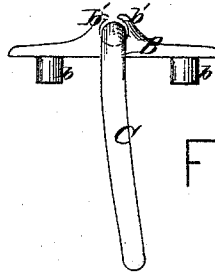


FIG II

FIG. V.

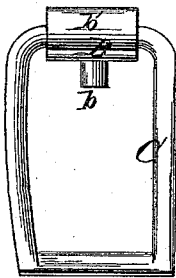
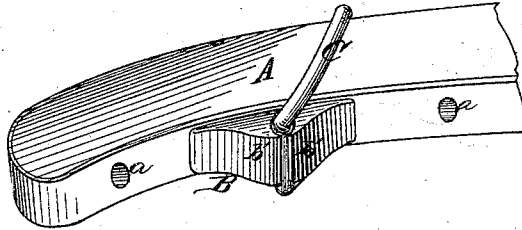


FIG III

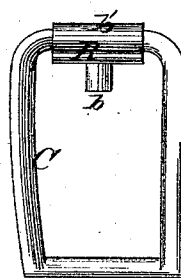


FIG IV

WITNESSES

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UNITED STATES PATENT OFFICE.

GEORGE F. EBERHARD, OF AKRON, OHIO.

IMPROVEMENT IN HAME-LOOPS FOR HARNESS.

Specification forming part of Letters Patent No. **147,753**, dated February 24, 1874; application filed October 21, 1873.

To all whom it may concern:

Be it known that I, GEORGE F. EBERHARD, of Akron, in the county of Summit and State of Ohio, have invented a new and useful Improvement in Hames, of which the following is a full, clear, and exact description, reference being had to the annexed drawing, in which—

Figure 1 is a side view of a hame-loop and the adjusting-plate having its flanges or projections, which form the staple or eye to receive the loop, straightened or separated in a manner to permit of the insertion of the latter. Fig. 2 is a corresponding view of the same, showing the flanges or projections of the adjusting-plate swaged over the loop, thus forming an eye or staple for the latter. Fig. 3 is an end view of Fig. 1. Fig. 4 is a corresponding view of Fig. 2; and Fig. 5 is a perspective view of the adjusting-plate, hame-loop, and a portion of a hame, showing the same relatively adjusted with one another for operation.

Corresponding parts in the figures are designated by like letters.

This invention relates to a certain improvement in hames; and it consists of an adjustable plate for the hame-loop, upon which an eye or staple is formed, by constructing the said plate, which should be made from some ductile and durable metal, with flanges or projections swaged over the said loop, substantially as hereinafter more fully set forth.

To enable others to make and use my invention, I will proceed to describe it.

In the annexed drawing, A refers to a hame of the usual construction, and provided in its upper portion with a series of perforations, *a a*. B refers to the adjustable hame-loop plate, which should be made from some ductile and durable metal, and having two nibs, *b b*, which

enter the perforations *a a* in the hame, through which and the said perforations the said plate is made adjustable, in order to adjust the hames to different-sized necks of horses. This plate is supplied with a staple or eye, *b' b'*, for the reception and attachment thereto of the hame-loop C, which is formed thereon by constructing the said plate with two flanges or projections, as shown in the drawing, and swaging the said projections or flanges over the hame-loop C. The latter is of the ordinary construction.

Through this construction the hame-loop is united to the adjustable hame-plate, and the latter, in turn, held to the hame or hames with the assistance of the hame strap or string. Further, the one cannot become separated from the other, avoiding the loss of time and trouble in uniting or keeping them together while being adjusted from one point to another; and, thirdly, the adjustment of one necessitates the adjustment of the other, and that simultaneously, which promotes convenience of manipulation, &c.

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

The adjustable plate B, having the flanges *b' b'* swaged over the loop C to retain it in place upon the said plate, and the studs *b b* to enable it to be adjusted upon the hame, substantially as and for the purpose set forth.

In testimony whereof I have hereunto signed my name this 17th day of October, 1873, in presence of two subscribing witnesses.

GEO. F. EBERHARD.

Witnesses:

CHARLES B. DENAPLE,
A. W. INGERSOLL.