

W. A. HEARN.  
Harnes.

No. 148,610.

Patented March 17, 1874.

Fig. 1.

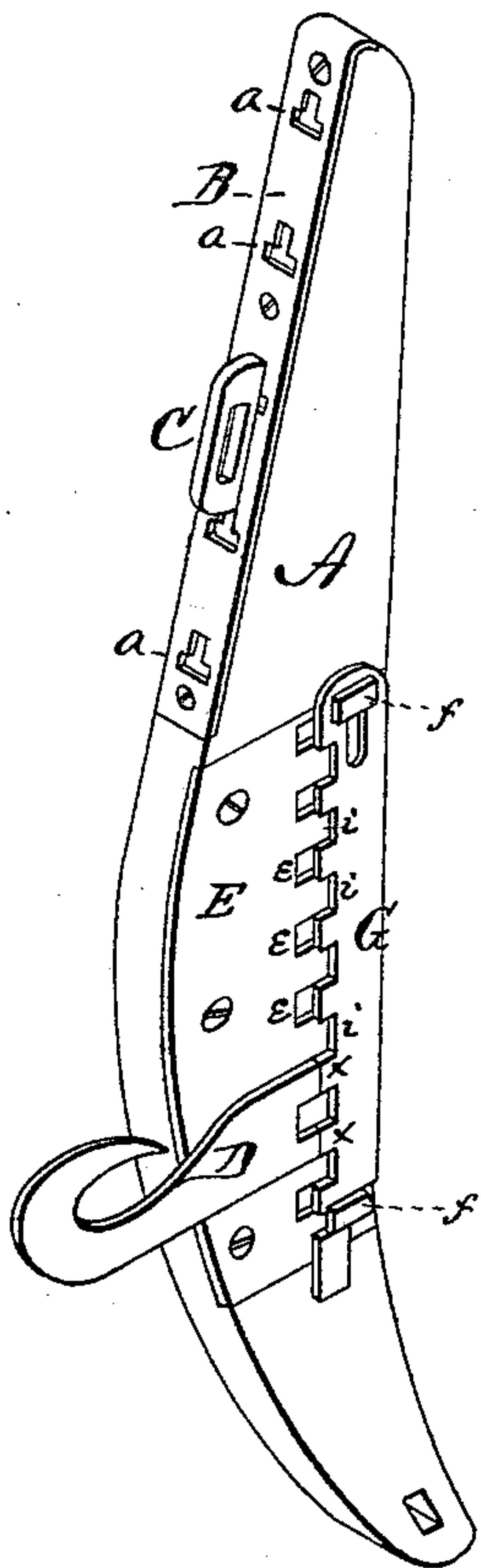


Fig. 2.

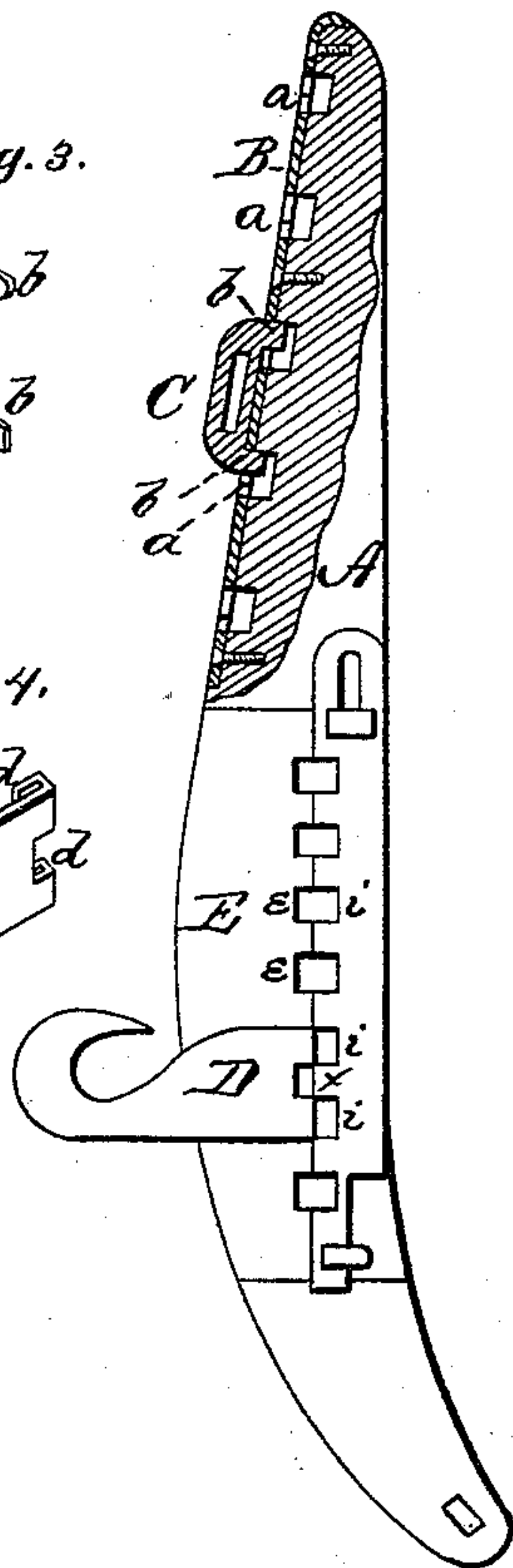


Fig. 3.

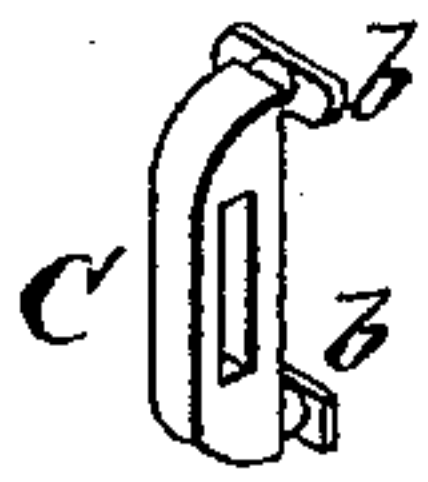
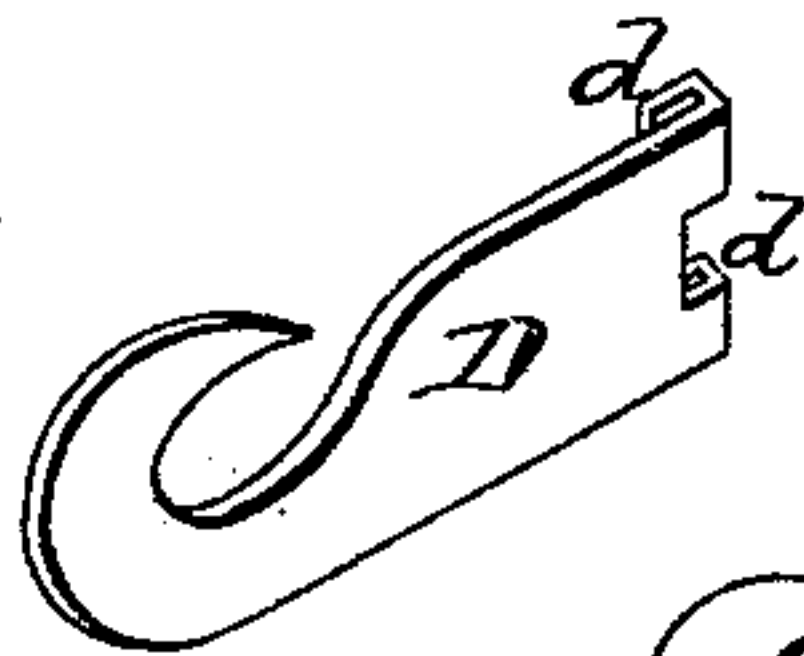


Fig. 4.



Witnesses.

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## IMPROVEMENT IN HAMES.

Specification forming part of Letters Patent No. 148,610, dated March 17, 1874; application filed February 14, 1874.

*To all whom it may concern:*

Be it known that I, WILSON A. HEARN, of Dyer Station, county of Gibson and State of Tennessee, have invented certain new and useful Improvements in Hames, of which the following is a specification:

The nature of my invention consists in the construction of the metal loop through which the hame-strap passes, and in the devices for attaching and adjusting the same to the hame. It also consists in the construction of the trace-hook, and in the devices for attaching and adjusting the same, all of which be hereinafter more fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a perspective view of a hame embodying my invention. Fig. 2 is a front view of the same, part in section. Fig. 3 is a perspective view of the metal loop through which the top hame-strap passes. Fig. 4 is a perspective view of the trace-hook.

A represents a hame, constructed in any of the known and usual ways. Upon the outer edge of the hame A is secured a metal plate, B, extending from the upper end downward for a suitable distance. In this plate are made a number of slots, *a*, in the form of an inverted T, and at equal distances apart, the edge of the hame being recessed under said slots. C represents a slotted metal bar, forming the loop through which the strap passes for fastening the hames together at their upper ends. This bar or loop is at each end on the inner side provided with a T-shaped projection, *b*. One of these projections is made of suitable size to enter the lower part of either of the notches *a* in the plate B, while the other is made too large to do so. To insert or fasten the loop C to the hame it must be turned at right angles with it, when the large projection *b* on the loop may be inserted in the vertical part of either of the slots *a*, after which the loop is turned on a line with the hame, and the smaller projection of the loop can enter the horizontal part of the next slot. The loop is then pressed upward as far as the slots will permit, which secures it in po-

sition. The loop can readily be moved to any desired height upon the hame to suit the size of the horse upon which it is to be applied. D represents the hook, to which the trace is to be fastened. This trace-hook is at its inner end provided with two flat hooks, *d d*, as shown in Fig. 4. Upon the front face of the hame is fastened a metal plate, E, provided with a series of square apertures, *e e*, of the same size as the flat hooks *d* of the trace-hook, and the same distance apart. Over a part of this plate at the inner edge of the hame, in suitable guides *f f*, slides a bar, G, provided in its outer edge with a series of square notches, *i i*, corresponding with the apertures in the plate.

To fasten the trace-hook D, the slide G is moved so that its notches will be directly over the inner ends of the apertures *e e*. The trace-hook is now laid in proper position on the face of the hame, with its hooks *d d* dropping into two of the apertures *e e*, and the trace-hook pulled outward, so that said hooks *d* will catch under the plate E. The slide G is then moved so that the pieces *x* between the notches *i* will come directly behind and against the hooks *d* of the trace-hook, and thus securely lock the same in place.

The trace-hook D can, by this means, readily be adjusted to any height desired on the hame.

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

1. The combination, with a hame, A, of the plate B, having T-shaped slots *a*, and the loop C, having T-shaped projections *b*, all constructed substantially as and for the purposes herein set forth.

2. The combination, with a hame, A, of the trace-hook D with flat hooks *d d*, the plate E with apertures *e e*, and the slide G with notches *i i*, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my invention, I hereunto affix my signature this 14th day of February, 1874.

W. A. HEARN.

Witnesses:

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NOAH W. MOTTINGER.