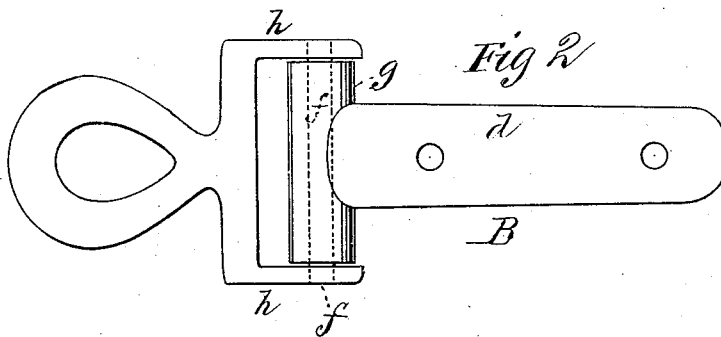
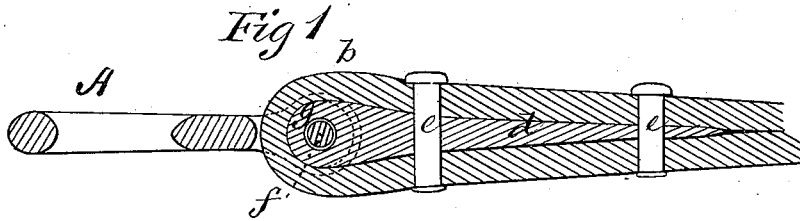


J. W. HOFFMAN.
COCKEYE AND TRACE-CLIP.

No. 191,143.

Patented May 22, 1877



WITNESSES
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JOHN W. HOFFMAN, OF NEWTON FALLS, OHIO.

IMPROVEMENT IN COCKEYE AND TRACE CLIPS.

Specification forming part of Letters Patent No. **191,143**, dated May 22, 1877; application filed March 3, 1877.

To all whom it may concern:

Be it known that I, JOHN W. HOFFMAN, of Newton Falls, in the county of Trumbull and State of Ohio, have invented a new and valuable Improvement in Cockeye and Trace Clips for Traces and Trace-Buckles; and I do hereby declare that the following is a full, clear, and exact description of the construction and operation of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a representation of a longitudinal sectional view of my clip applied to a cockeye and buckle, and Fig. 2 is a detail view of the clip.

This invention has relation to improvements in clips for securing traces and hame-tugs to the trace-buckles and cockeyes of harness.

The object of my invention is to prevent the wearing away of the tug and traces where they are looped over the buckle and cockeye, and to prevent the ripping of the looped ends of the tugs and traces by relieving the threads of strain; and the nature of the invention consists in the combination of a metallic harness-clip, made in one piece, and having a tubular end sleeve embracing the cross-bar of a buckle or cockeye, and a solid tapering tang extending from said sleeve, the said clip being surrounded and enveloped by a looped end of the tug or trace, and provided with spaced perforations registering with similar perforations in the body and looped-over portion of the tug or trace for the reception of suitable rivets, as hereinafter more fully set forth.

In the accompanying drawings, the letter A designates an ordinary metallic cockeye, to which one end of the trace is usually rigidly secured, the trace being adjustably secured at the other end to a suitable buckle.

The end of the trace has usually been passed around the loop-bar *f*, and secured in place by sewing the looped-over portion to the body of the trace. This loop *b*, when subjected to

strain, frequently wears through from the friction thereon of the cross-bar of the cockeye or buckle, or is destroyed by the breaking of the thread.

I remedy this defect in the buckle or cockeye in the following manner: A tubular sleeve, *g*, of cylindrical form, having a tapering tongue, *d*, projecting centrally therefrom, is passed between the side arms *h* of the eye, and then secured in position, in the customary manner, by means of a bar, *f*. The end of the trace is then passed into the loop of the cockeye, bent over the tubular sleeve *g*, and stitched, in the usual manner, to the body thereof, thereby forming the loop *b*. Strong metallic pins *e* are then passed through registering-perforations in the tongue and trace, and then properly riveted in position.

By this means the trace is prevented from rubbing on the cross-bar of the loop, and the strain of the draft is, to a very great extent, transferred from the threads to the rivets, and such portion thereof as is sustained by the threads is evenly distributed throughout the length of the same.

The result of this construction is the same as regards the protection of the loop, and relieves the threads of strain, as above described.

What I claim as new, and desire to secure by Letters Patent, is—

The combination, with a cockeye or buckle, of a metallic harness-clip made in one piece, with tubular end sleeve *g*, embracing a cross-bar, *f*, and provided with a solid tapering tongue, *d*, extending from said sleeve, said clip being surrounded and enveloped by a loop of leather, *b*, and provided with spaced perforations and rivets *e*, substantially as specified.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

JOHN W. HOFFMAN.

Witnesses:

JOHN N. ENSIGN,
A. J. CARLILE.