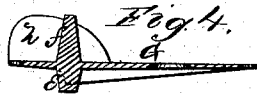
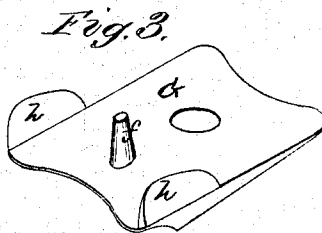
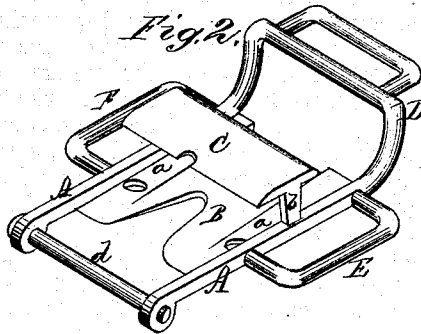
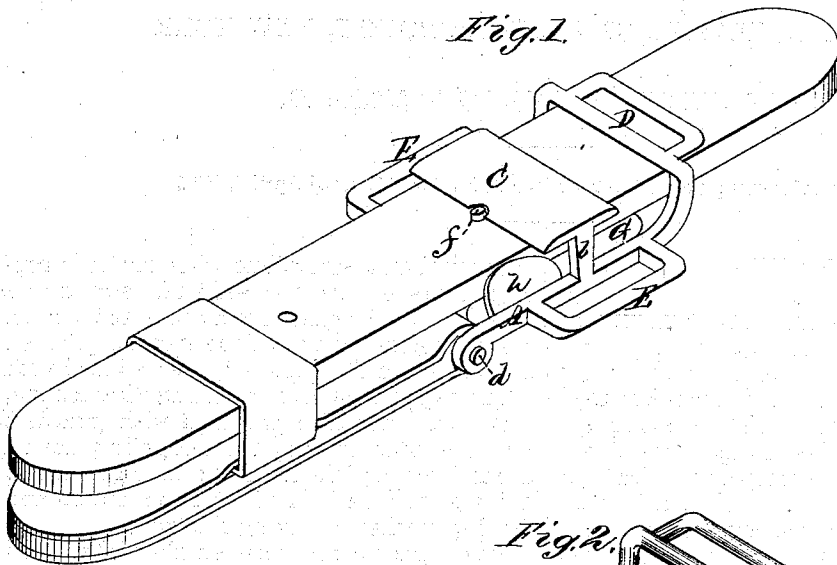


WILLIAM S. THAYER.

Trace Buckles.

No. 125,631.

Patented April 9, 1872.



Witnesses
John A. Ellis.
Wm. H. Ellis

Inventor
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Atty.

UNITED STATES PATENT OFFICE.

WILLIAM S. THAYER, OF SMITHSBOROUGH, NEW YORK.

IMPROVEMENT IN TRACE-BUCKLES.

Specification forming part of Letters Patent No. 125,631, dated April 9, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, WILLIAM S. THAYER, of Smithsborough, in the county of Tioga and State of New York, have invented certain new and useful Improvements in Trace-Buckles; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon which form a part of this specification.

The nature of my invention consists in the construction and arrangement of a "trace-buckle," as will 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 represents a perspective view, and Figs. 2, 3, and 4 represent detached views of the same.

The body of my buckle is all made in one piece, and composed of two side bars, A A, connected by a central plate, B, which is grooved or recessed in the center so as to form an inclined plane, *a*, at each side. Above the plate B is another plate, C, supported from the side pieces A A by legs *b b*, as shown. The rear ends of the side pieces A A are bent upward and form the loop D, and on their sides are loops E E. All these loops have square corners, whereby the straps that fasten in said loops are prevented from wearing as much as they generally do in the loops having oval corners, which is usually the case with the trace-buckles now in use. For single-harness buckles these loops will not be used. Through the front ends of the side bars A A is passed a rivet, *d*, to fasten the buckle to the hame-tug. The rivet will go through either ear of the buckle, the front ends of the side bars forming such ears, saving the expense of countersinking for the screw-head on one side and cutting the burr on the other. A rivet is

cheaper than a screw, and when riveted properly on the buckle is as solid and strong as a screw-bolt. G represents an inverted wedge, resting and moving upon the inclined planes *a a* on the plate B. This wedge is provided with a tongue, *e*, on the bottom, and another tongue, *f*, on top. It is also provided with guards *h h* on the sides, to keep the wedge in place on the under side of the trace when being changed, and also to take hold of with the thumb and forefinger when changing the trace.

The trace passes between the plate C and the wedge G, the tongue *f* being passed through the hole in the trace. When pulled, the trace becomes wedged or pressed between said wedge and plate, and the two tongues *e* and *f* give double strength on the draft. The trace can be quickly taken up or let out by pulling it from the loops on the hame-tug: take hold of the guards *h h*, pull up on the trace, move the tongue on the wedge from one hole to the other, then pull or push it back to its place in the buckle, replace the end of the trace in the loops, and the trace is secure again, the buckle being strong, secure, and presenting a nice appearance.

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

1. The within-described trace-buckle body, composed of the side bars A A, grooved or recessed plate B with inclined planes *a a*, top plate C, and square-cornered loops D and E E, all substantially as and for the purposes herein set forth.

2. The inverted wedge G, provided with tongues *e* and *f* and guards *h h*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing as my own I affix my signature in presence of two witnesses.

WILLIAM S. THAYER.

Witnesses:

A. P. EATON,
D. GOODENOUGH.