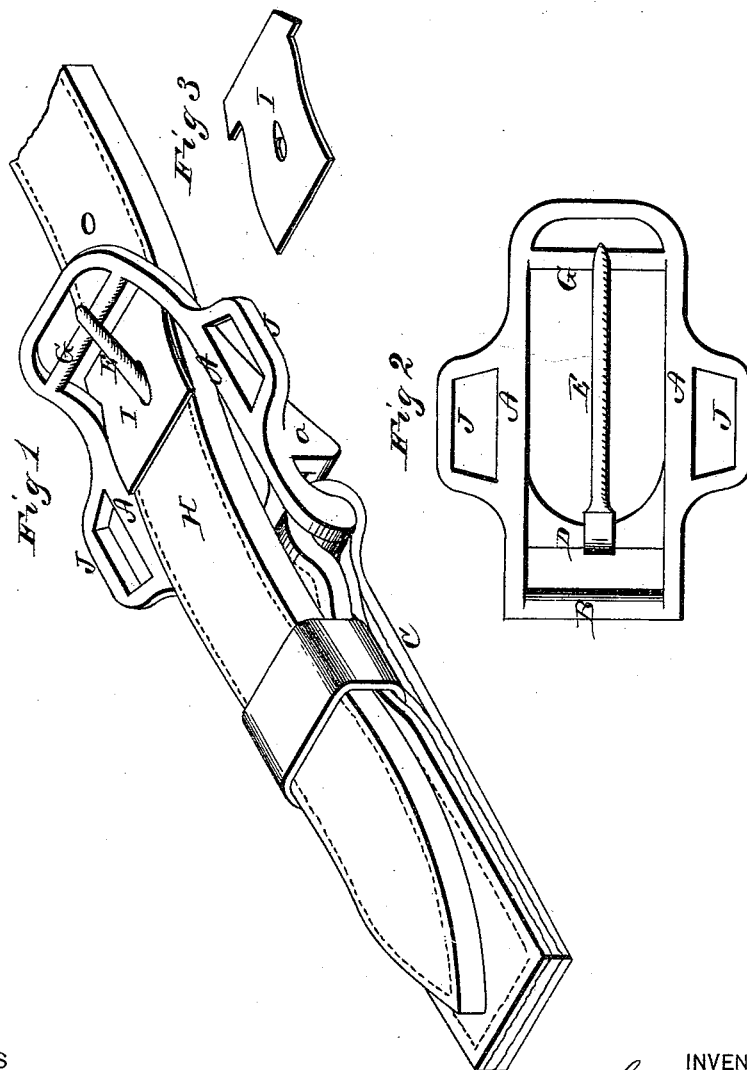


A. G. DODDS.
Trace-Buckle.

No. 165,551.

Patented July 13, 1875.



WITNESSES
H. L. Orvand
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INVENTOR
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UNITED STATES PATENT OFFICE.

ALBERT G. DODDS, OF CHARITON, IOWA, ASSIGNOR, BY MESNE ASSIGNMENTS, OF A PART OF HIS RIGHT TO E. T. BEST AND A. C. WILCOX, OF SAME PLACE.

IMPROVEMENT IN TRACE-BUCKLES.

Specification forming part of Letters Patent No. **165,551**, dated July 13, 1875; application filed March 17, 1875.

To all whom it may concern:

Be it known that I, ALBERT G. DODDS, of Chariton, in the county of Lucas and State of Iowa, 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 drawings, and to the letters of reference marked thereon, making 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 is a perspective view of my trace-buckle with the hame-tug and trace fastened therein. Fig. 2 is a plan view of the buckle, and Fig. 3 is a perspective view of a protecting-plate used in my trace-buckle.

My trace-buckle is all made in one piece, with two parallel side bars, A A, having their front ends slightly bent downward and connected by a hame-tug bar, B, to which the hame-tug C is fastened in the ordinary manner. The side bars A A are provided with downward-projecting wedge-shaped flanges *a a*, increasing in depth from the rear to the front end, and their inner front corners connected by a curved bar, D, on which the wrought-iron tongue E is placed. The flanges *a a* form braces for strengthening the tongue-bar D. The rear ends of the side bars A A

are curved toward each other and united into one, as shown, and across this end of the frame of the buckle is a cross-bar, G, for the rear end of the tongue to rest against. On each side of the buckle thus formed is a loop, J, which loops are for the attachment of the pad and belly-band. H represents the trace, which is fastened in the buckle in the ordinary manner. A protecting-plate, I, is then placed over the tongue E, between the trace H and rear-end tongue-bar G. All traces tear the quickest across the hole through which the tongue passes by the constant strain and friction against the rear-end tongue-bar. By the interposition of the protecting-plate I this is entirely obviated.

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

1. In a trace-buckle in which the trace is held by a pivoted tongue, a detachable metal protecting-plate, I, placed on the tongue between the trace and the rear-end tongue-bar, substantially for the purposes herein set forth.

2. The combination of the side bars A A with wedge-shaped braces *a a*, hame-tug bar B, tongue-bar D, tongue E, loops J J, rear-end tongue-bar G, and protecting-plate I, all constructed substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing I have hereunto set my hand this 9th day of February, 1875.

A. G. DODDS.

Witnesses:

WM. H. PENICK,
M. E. THORPE.