H. Hise,

Trace Buckle,

No. 39,651. Patented Aug. 25, 1863

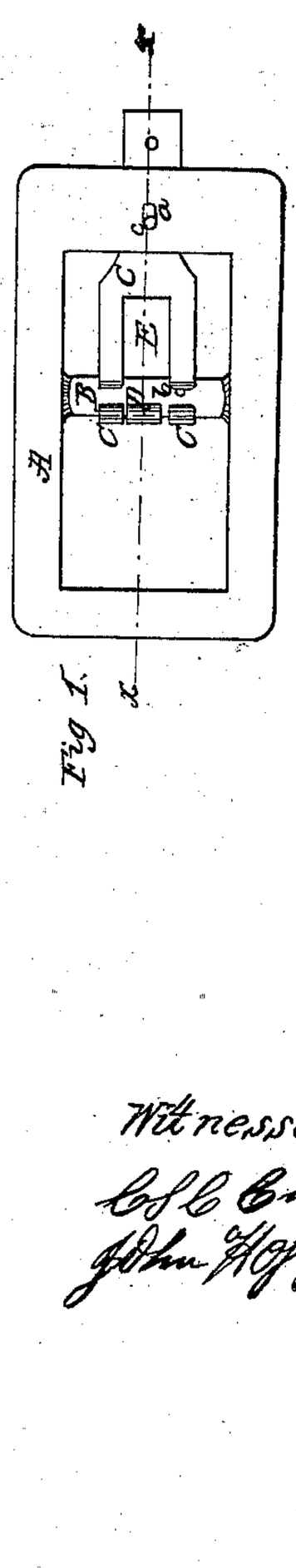

Fig 1.

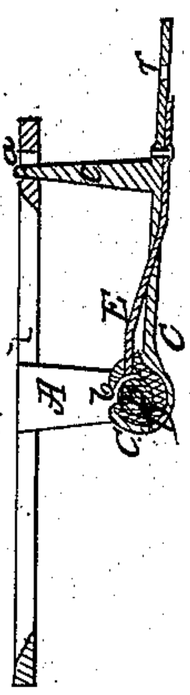

Fig 2.

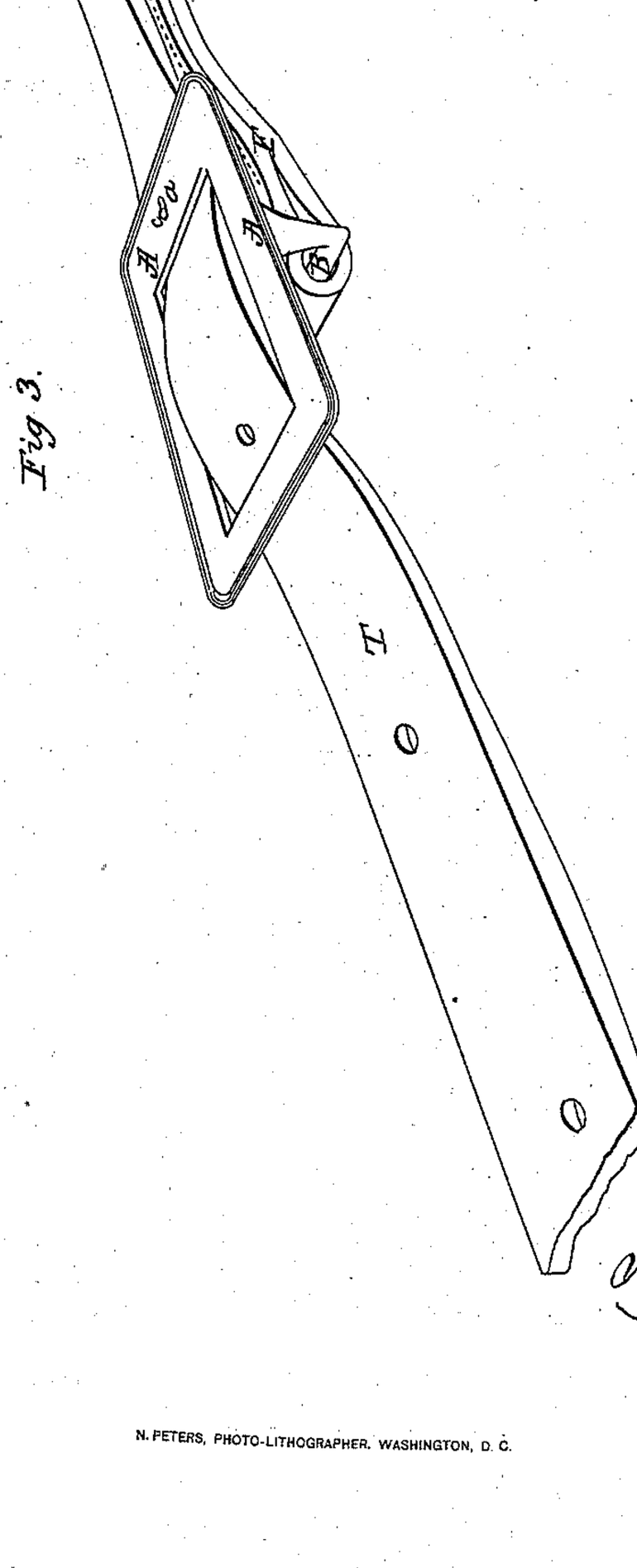

Fig 3.

Witnesses;
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UNITED STATES PATENT OFFICE.

HENRY HISE, OF OTTAWA, ILLINOIS.

HARNESS AND TRACE BUCKLE.

Specification forming part of Letters Patent No. **39,651**, dated August 25, 1863.

To all whom it may concern:

Be it known that I, HENRY HISE, of Ottawa, in the county of La Salle and State of Illinois, have invented a new and useful Improvement in Harness and Trace Buckles; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, and the letters and figures marked thereon, which form part of this specification.

In the aforesaid drawings, which are hereunto annexed, Figure 1 represents a plan or top view of my invention; Fig. 2, a side sectional view thereof at the line *x* in Fig. 1, and Fig. 3 a perspective view of the same with the trace attached as in practical use.

Similar letters of reference in the different figures of the drawings indicate corresponding parts of my invention.

The nature of my invention consists in combining a spring with the other parts of a harness or trace buckle in such a manner as to hold the parts securely together and thereby prevent the trace from being detached from the buckle in case the trace should from any cause become slack or loose.

It further consists in having the other parts of the buckle so constructed and contrived as to give it great advantage and superiority over other buckles in respect to strength and durability.

To enable those skilled in the art to understand, construct, and make use of my invention, I will proceed to describe the same with particularity.

A in the drawings represents the frame of my improved buckle; B, the transverse rod or bar of the same. C represents the arm attached to said transverse bar and revolving thereupon. D is a block, cast or fixed upon B, upon which the spring E rests, and which acts as a fulcrum, when the arm C is pressed back from the frame, upon which the spring E reacts to bring the parts together and keep them in place. Upon the bar B there is a pin or projection, between the jaws of C, which extend around B, as shown in the drawings, which prevents the arm C from revolving either way upon the bar B farther than is expedient or necessary. The pin or finger upon C (marked *c* in the drawings) enters into the slot *a* in the frame, having first passed through the eye for that purpose made in the trace, thus confining said trace securely in the buckle. The small hole *r* through the end of the arm C is for the purpose of allowing a rivet to pass through the leather or strap F, which is fastened to the bar B and through said arm C, thereby causing a great part of the strain or pressure upon said rivet, and thus relieving the pressure upon the pin *c* and the frame of the buckle and preventing the same from being bent and giving way. When the arm C is drawn back so as to withdraw the pin *c* from the slot *a*, for the purpose of putting in or taking out the trace T, the block D, by its shape and arrangement, forces the end of the spring *s* upward and from its natural position, so that the elasticity of the spring reacting upon D immediately forces the arm C back to place and the pin *c* into slot *a*. The spring E is fastened to the arm C on the under side thereof, and passing through a slot or opening in said arm C, as is clearly shown in the drawings, the end of said spring rests upon the lever or block D, attached to the cross-bar B, as aforesaid.

This buckle can be used with equal facility for attaching the trace or tug to the harness, or in any other part of the harness, for the purpose of holding the parts thereof together and facilitating the taking them apart when desired.

Having described my improved buckle thus fully, I will now proceed to describe and specify what I claim as my invention and desire to secure by Letters Patent—

The combination and arrangement of the arm C, provided with the rivet-hole *r*, the tongue *c*, and spring E, with the frame A, the slot *a*, the cross-bar B, stop *b*, and lever D, when all are arranged and operate as and for the purposes herein shown and described.

HENRY HISE.

Witnesses:
C. S. C. CRANE,
JOHN HOPPLE.