

W. H. HAYES.
Hame Tug and Trace.

No. 215,355.

Patented May 13, 1879.

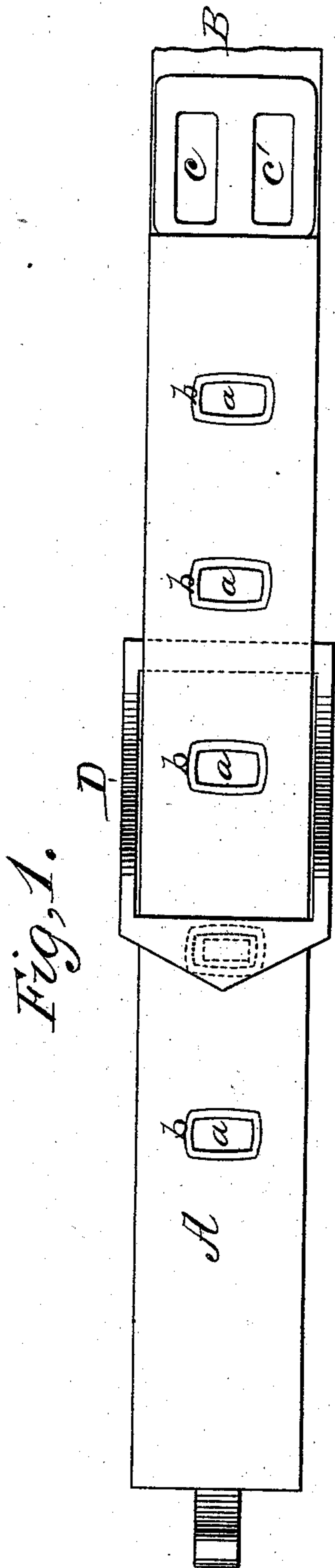


Fig. 2.

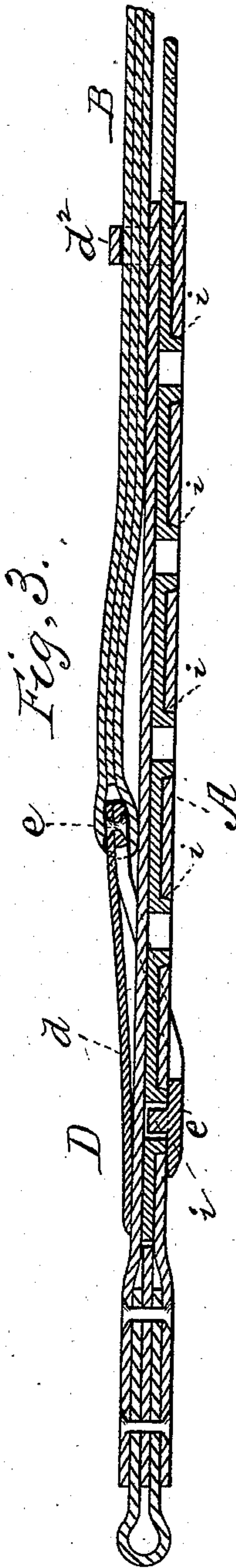
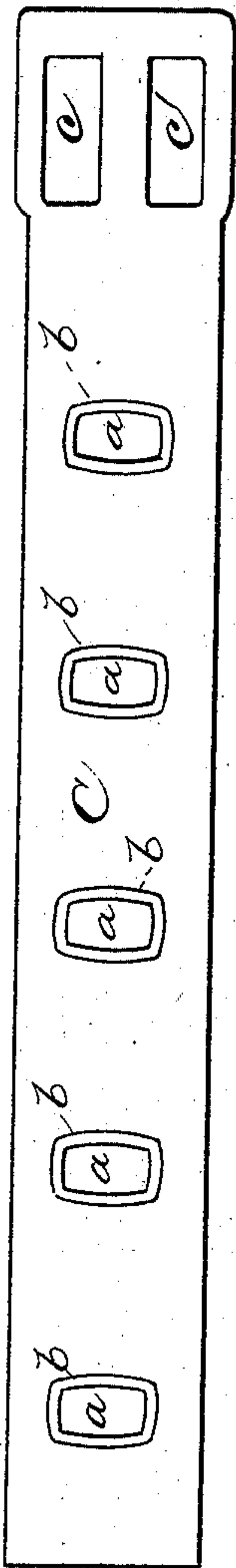
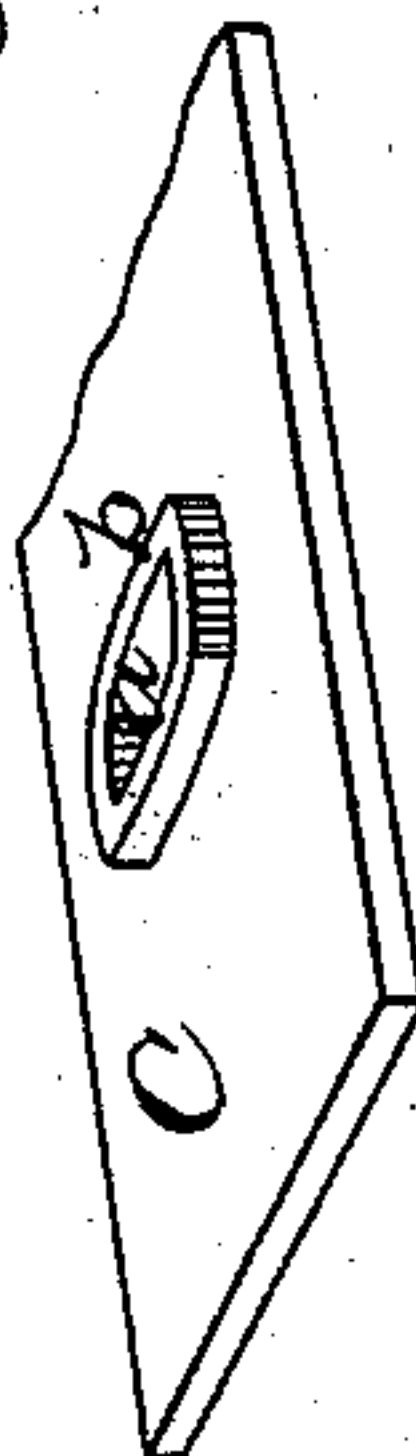


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE.

WILLIAM H. HAYES, OF SALISBURY, MISSOURI.

IMPROVEMENT IN HAME-TUGS AND TRACES.

Specification forming part of Letters Patent No. **215,355**, dated May 13, 1879; application filed March 29, 1879.

To all whom it may concern:

Be it known that I, WILLIAM H. HAYES, of Salisbury, in the county of Chariton and State of Missouri, have invented a new and valuable Improvement in Hame-Tugs and Traces; 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 bottom view of my invention. Fig. 3 is a longitudinal central section of the same, and Figs. 2 and 4 are detail views.

This invention has relation to improvements in means for coupling the hame-tug and trace in harness; and the nature of the invention consists in certain novel combinations of the parts or devices used, as will be hereinafter more fully set forth.

In the annexed drawings, the letter A designates the hame-tug, and B the trace.

The tug is made of two thicknesses of leather, and between them is inclosed a metallic plate, C, having a number of spaced (usually rectangular) holes, *a*, surrounded on one of the sides of the plate by a raised flange, *b*, of a height equal to the thickness of the inclosing-straps. These flanges project through holes in the inside face of the leather of the tug, and their outer edges are flush therewith. The end of plate C projects beyond the rear end of the tug, and is provided with two parallel slots, *c c'*, for the attachment of the back-strap and belly-band. The tug at its front end is provided with the usual means of attachment to the hame.

The trace B is of the usual construction, and is provided with an eye at its rear for attachment to the single-tree. It is provided on

its front end with a strong metallic buckle, D, of a size to receive the tug, and provided with a spring-tongue, *d*, rigidly secured to the inner end bar, *e*, of the buckle-frame, and extending slightly beyond the outer end bar, *e'*, thereof. The outer part of the buckle-frame is bent obliquely to its inner portion, so as to cause the outer end bar, *e'*, to lie flat upon the inner face of the tug. This end bar is extended, as shown in Fig. 1, and has on its inside a projecting spur, *i*, that enters the holes *a* of the plate C, and is held to its engagement therewith by the reaction of the spring-tongue *d*, that bears upon the opposite side of the tug, as shown in Fig. 3. The trace is held on the tug by one or more loops, *d'*. To let out or take up the trace, seize the tug in one hand and the end bar of the buckle in the other. Then disengage the lock-spur *i* from the hole in the tug, and slip the trace forward or backward, as the case may be. The desired adjustment being obtained, the lock-spur will be sprung into the hole of tug by the action of the spring.

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

The combination, with tug A, having plate C, provided with perforations *a*, having surrounding flanges *b* extending through the tug, of the trace B, having the buckle D, adapted to receive the tug, and provided on its end bar, *e'*, with a lock-spur, *i*, and a spring-tongue, *d*, rigidly secured to its inner end bar, substantially as specified.

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

WILLIAM H. HAYES.

Witnesses:

WILHELM WENGLER,
ED. A. WENGLER.