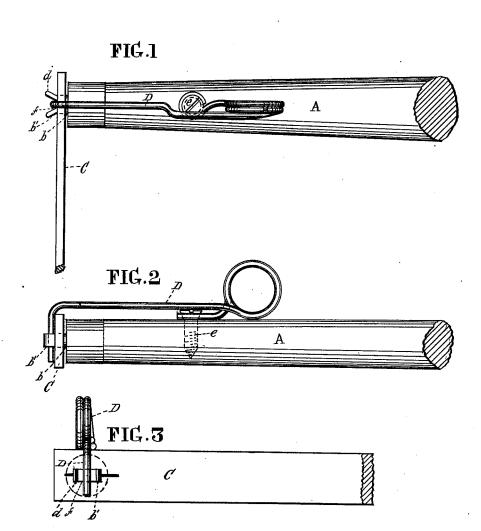
J. HARTMAN, Jr. Trace-Holder.

No. 197,361.

Patented Nov. 20, 1877.



Witnesses.

Inventor

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UNITED STATES PATENT OFFICE.

JOHN HARTMAN, JR., OF PHILADELPHIA, PENNSYLVANIA.

IMPROVEMENT IN TRACE-HOLDERS.

Specification forming part of Letters Patent No. 197,361, dated November 20, 1877; application filed March 30, 1877.

To all whom it may concern:

Be it known that I, John Hartman, Jr., of the city and county of Philadelphia, in the State of Pennsylvania, have invented a new and useful Improvement in Trace-Holders, which improvement is fully set forth in the following specification, reference being had to the accompanying drawings, in which—

Figure 1 is a top view of one end of a singletree having my improved holder in connection; Fig. 2, a side view of the same, and Fig. 3 an end view

Like letters of reference in all the figures indicate the same parts.

The object of my invention is a cheap, reliable, and expeditious mode of securing the traces with a single-tree; and the nature of the invention consists in the combination of a spring with each end of a single-tree, and a projecting pin having a notch or crotch, as hereinafter fully described.

Referring to the drawings, A represents one end of a single-tree, having a cockeye or pin, b, projecting from its end. C is the trace, which has the ordinary slit, as seen in Fig. 3. The pin has a head, b', which is flattened in the direction of the slit to facilitate the connection of the trace.

When the trace is drawn tightly, the rear projection d of the pin would hold it securely in place; but when the trace is slack it would

be liable to be disengaged from the pin. To prevent this I employ a spring, D, to bear against the head b'.

A wire spring, D, is connected at its coiled end with the upper side of the single-tree by means of the screw e. The outer end of the spring is turned at right angles to the longitudinal plane of the single-tree, and presses into the depression f of the pin b, whereby lateral movement of the spring is prevented, and the trace is held securely in position.

If the spring should slip to one side of the cockeye or pin b, it would press the trace against the end of the single-tree, and thereby still securely hold the trace in connection therewith.

When the trace is to be disengaged from the pin b, the spring is pressed outward from the single-tree until the trace is removed.

If desired, the spring may be fastened to the lower side of the single-tree, or to either of the other sides.

I claim as my invention—

The combination of a spring, D, with each end of the single-tree A, and the notched or forked pin b, substantially as and for the purpose set forth.

JNO. HARTMAN, JR.

Witnesses:

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