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ISAAC CLARK.

PATENTED AUG 8 1871

TRACE BUCKLE.

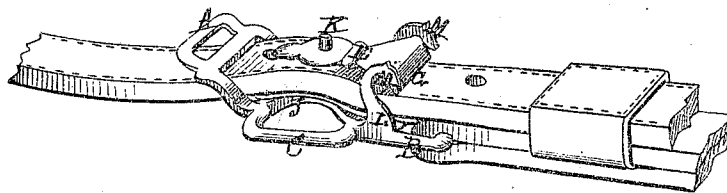


FIG. 1.

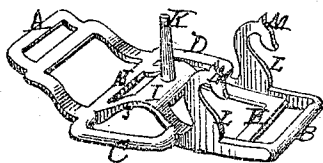


FIG. 2.

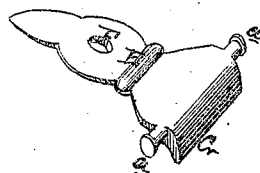


FIG. 3.

ATTEST

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ISAAC CLARK, OF DRYDEN, MICHIGAN.

IMPROVEMENT IN TRACE-BUCKLES.

Specification forming part of Letters Patent No. 117,742, dated August 8, 1871.

To all whom it may concern:

Be it known that I, ISAAC CLARK, of Dryden, in the county of Lapeer and State of Michigan, have invented a new and useful Improvement in Trace-Buckles; and I do declare that the following is a true and accurate description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, and being a part of this specification, in which—

Figure 1 is a perspective of my device in operation, with section of trace attached. Fig. 2 is a like view detached from the trace, and with the wedge-latch removed. Fig. 3 is a perspective of the wedge-latch.

Like letters refer to like parts in each figure.

The nature of this invention relates to an improved construction of a trace-buckle, which is simple in operation, efficient, strong, and from which the trace may be easily and readily detached. The invention consists in the peculiar construction and arrangement of the various parts, as more fully hereinafter described.

In the accompanying drawing, A represents the loop to which the holdback-strap is attached; B, the loop, to which the hame-strap is fastened; C, the loop to which the belly-band is secured; and D the loop to which the back-strap or pad is attached in the usual way. From the cross-bar I, which is secured between the sides J, rises, be-

ing rigidly affixed thereto, the stud or tongue K, which is designed to engage with the proper holes in the tug or trace. From the sides J there rise the studs L, whose upper ends terminate in the hooks M. E is a cam-latch, provided with journals *a*, which are designed to engage with the hooks M. It is also provided with a hole, F, which is designed to engage with the rigid tongue; also with a cam-shaped projection, G, which, when in place, rests against the trace and binds the same against the cross-bar H, thereby relieving much of the strain upon the tongue. It will be noticed that there is a curve between the cross-bar H and the bar I, said curve being upward and rearward, and another curve between the bar I and the bar N, which forms one side of a loop through which the trace passes, and these curves all serve as bearings to relieve the strain upon the tongue.

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

The trace-buckle described and shown, consisting of the loops A, B, C, and D, rigid tongue K, hooked studs L, and cam-latch E, when the several parts are constructed and arranged substantially as set forth.

ISAAC CLARK.

Witnesses:

THOS. S. SPRAGUE,
MYRON H. CHURCH.