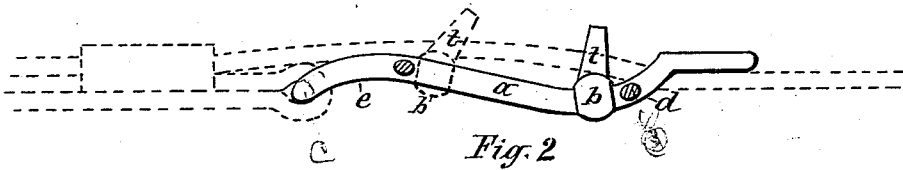
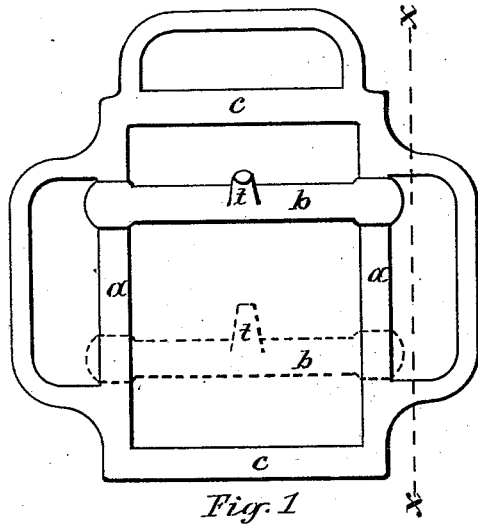


J. P. HISLEY.
Harness-Buckle.

No. 213,200.

Patented Mar. 11, 1879.



WITNESSES:

C. Bendixon,
J. Johnson

INVENTOR:

John P. Hisley
per E. Laass, his Atty.

UNITED STATES PATENT OFFICE.

JOHN P. HISLEY, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN HARNESS-BUCKLES.

Specification forming part of Letters Patent No. 213,200, dated March 11, 1879; application filed December 19, 1878.

To all whom it may concern:

Be it known that I, JOHN P. HISLEY, of the city of Syracuse, in the State of New York, have invented new and useful Improvements in Buckles, of which the following, taken in connection with the accompanying drawings, is a full, clear, and exact description.

This invention relates to that class of buckles having a rigid tongue on a cross-bar, arranged to slide lengthwise of the body of the buckle; and it consists in a peculiar construction of a buckle-frame, having a spacious unobstructed interior and side bars, curved in such a manner that a cross-bar, sliding thereon, and having a rigid upwardly-projecting tongue, is caused to turn axially, and thus change the position of the tongue relative to its angle with the trace, all as hereinafter fully described, whereby the attachment and adjustment of the trace thereon are facilitated, and increased strength and safety for retaining the same are obtained.

In the accompanying drawings, Figure 1 is a plan view of my improved buckle; and Fig. 2 is a longitudinal section of same, taken on line *x x* in Fig. 1.

Similar letters of reference indicate corresponding parts.

a a are parallel side bars, united at each end by a single cross-bar, *c*, forming a buckle-frame, with a spacious unobstructed interior for the reception of the trace, the exterior of the buckle-frame being provided with the usual loops for the attachment of other parts of the harness. The side bars *a a* are curved downward at the forward end and upward at the rear end, as shown, respectively, at *e* and *d* in Fig. 2 of the drawings. A cross-bar, *b*, is provided on top with a rigid forwardly-inclined tongue, *t*, and with its ends loosely embracing the side bars *a a*, so as to allow it to slide thereon. The tug, which at one end is connected with the hame of the harness, is at its rear end attached to the forward cross-bar, *c*, of the buckle-frame, as indicated by dotted lines in Fig. 2 of the drawings, and the trace is applied to the buckle by passing it beneath the rear cross-bar, *c*, of the buckle-frame, thence over the sliding bar

b, and inserting its end into the usual box-loops on the tug. The sliding bar *b*, being by the operation forced toward the forward end of the buckle-frame, forms at the rear a large entrance for the trace, and by the form of the forward end of the side bars *a a* the sliding bar is held in such position as to cause its tongue *t* to stand in a forwardly-inclined angle, and thus facilitate its entrance into the hole in the trace. When the trace is subjected to strain the sliding bar *b* is drawn toward the rear end of the buckle-frame, where, by the upward curvature *d* of the side bars *a a*, it is partially turned in its axis and simultaneously made to approach the rear cross-bar, *c*, of the buckle-frame, thereby bringing the tongue *t* nearer to a right angle and deeper into the trace, and thus strengthening its hold upon the same.

The attachment of the sliding bar, carrying the tongue, is made to the side bars of the buckle proper by means of perforated lugs or bosses embracing said side bar. The result of this method of attachment is, that said sliding bar and tongue will not be detached in case the side bars of said buckle are strained apart, so as to widen the said buckle. This accident might readily occur to an interior sliding tongue-bar without such exterior fastening. The curvature of said side bars causes said tongue to incline forward in the earlier part of its forward motion, but to rise into an upright position during the latter part thereof.

Having thus described my invention, what I claim is—

A buckle provided with a frame having curved side bars, as shown, and a sliding tongue-bar, having perforated lugs or bosses embracing said side bars, and adapted to slide thereon, substantially as and for the purpose set forth.

In testimony whereof I have hereunto set my hand this 13th day of December, 1878.

JOHN P. HISLEY.

Witnesses:

J. JOHNSON,
E. BENDIXEN.