B. F. FRAZIER.

HARNESS-BUCKLE.

No. 180,219. Patented July 25, 1876.

Fig. 1.

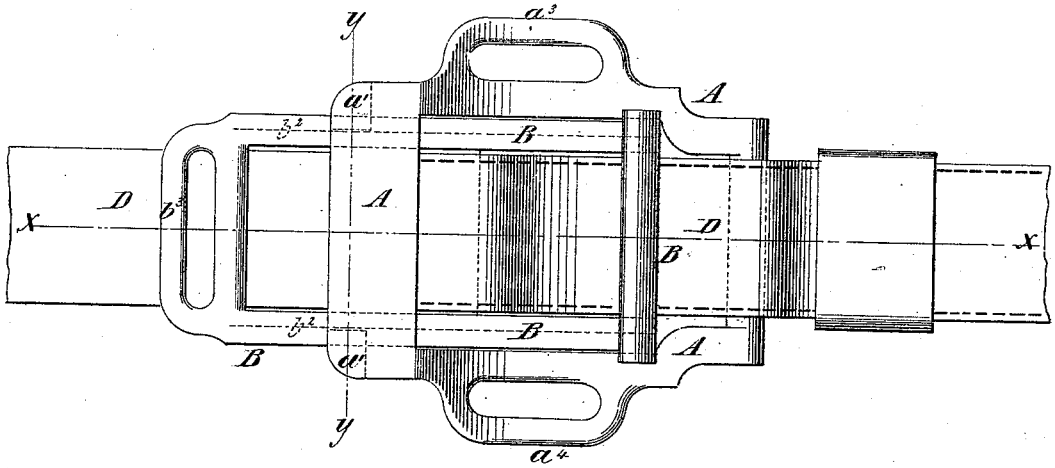


Fig. 2.

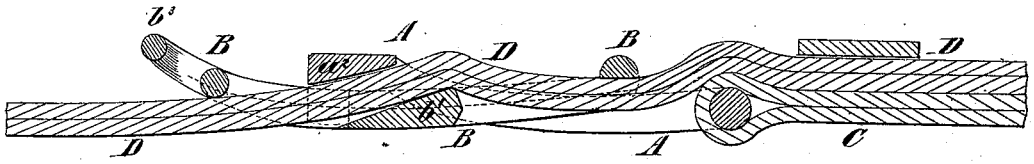
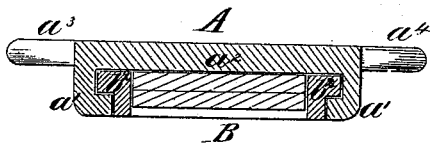


Fig. 3.



WITNESSES:

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BENJAMIN F. FRAZIER, OF GRAND RAPIDS, WISCONSIN.

IMPROVEMENT IN HARNESS-BUCKLES.

Specification forming part of Letters Patent No. **180,219**, dated July 25, 1876; application filed June 20, 1876.

To all whom it may concern:

Be it known that I, BENJAMIN F. FRAZIER, of Grand Rapids, in the county of Wood and State of Wisconsin, have invented a new and useful Improvement in Harness-Buckles, of which the following is a specification:

Figure 1 is a front view of the buckle. Fig. 2 is a longitudinal section of the same, taken through the line *x x*, Fig. 1. Fig. 3 is a cross-section of the same, taken through the line *y y*, Fig. 1.

Similar letters of reference indicate corresponding parts.

The object of this invention is to furnish an improved buckle for connecting the tug to the hame-tug, and for other uses, which shall be so constructed as to hold the tug or other strap securely, without cutting it, and without it being necessary to punch holes in it, so that its full strength may be utilized.

The invention consists in an improved buckle formed of the main frame having its side bars grooved or rabbeted upon their inner edges, and its rear cross-bar made wide and inclined upon its inner side, and the sliding or clamping frame having its side bars rabbeted or tongued upon their outer edges, its central cross-bar made wide and inclined upon its inner side, and with the ends of its forward cross-bar projecting to overlap the side bars of the main frame, as hereinafter fully described.

A is the main frame of the buckle, to the cross-bar at one end of which is attached the hame-tug *c* or other stationary strap. The side bars a^1 of the frame A are slightly curved, and the rear-end bar a^2 is made wide and flat, and with its inner surface inclined, as shown in Fig. 2. B is the sliding or clamping frame by which the tug D or other movable strap is held or clamped. The side bars b^2 of the frame B are rabbeted or tongued upon their outer edges to fit into corresponding rabbets or grooves in the inner edges of the side bars a^1 of the frame A. The ends of the end bar of the frame B project a little to overlap the side bars of the frame A, as shown in Fig. 1. The frame B is provided with a wide cross-bar, b^1, the upper side of which is inclined to correspond with the inclination of the cross-bar a^2 of the frame A.

By this construction, when a strain comes upon the strap D the tendency is to draw the frame B back, and clamp the said strap between the cross-bars b^1 a^2. The frame A has a loop, a^3, formed upon its upper edge to receive the saddle-strap, and a loop, a^4, upon its lower edge to receive the belly-band strap.

The frame B has a loop, b^3, formed upon its rear edge to receive the breeching-strap.

Having thus described my invention, I claim as new and desire to secure by Letters Patent—

An improved buckle, formed of the main frame A, having its side bars a^1 grooved or rabbeted upon their inner edges, and its rear cross-bar made wide and inclined upon its inner side, and the sliding or clamping frame B, having its side bars b^2 rabbeted or tongued upon their outer edges, its central cross-bar b^1 made wide and inclined upon its inner side, and with the ends of its forward cross-bar projecting to overlap the side bars of the frame A, substantially as herein shown and described.

BENJAMIN F. FRAZIER.

Witnesses:

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