

No. 737,448.

PATENTED AUG. 25, 1903.

J. McCROSSIN.
CROSS LINE BUCKLE.
APPLICATION FILED MAY 26, 1903.

NO MODEL.

Fig. 1.

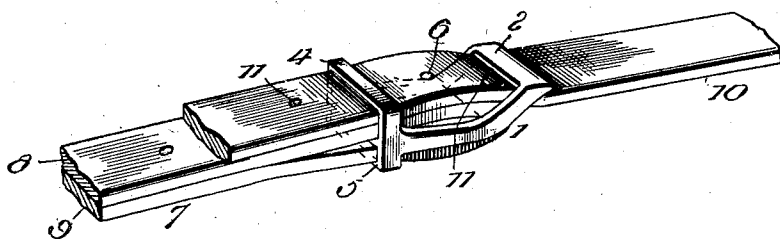


Fig. 2.

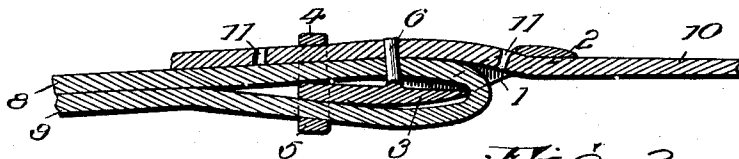


Fig. 3.

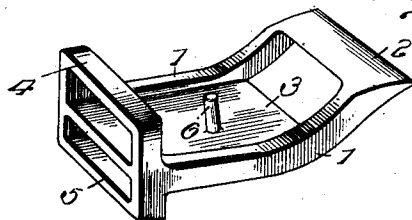
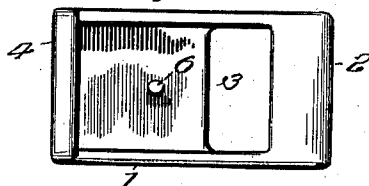


Fig. 4.



WITNESSES

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JAMES McCROSSIN, OF FERGUS FALLS, MINNESOTA.

CROSS-LINE BUCKLE.

SPECIFICATION forming part of Letters Patent No. 737,448, dated August 25, 1903.

Application filed May 25, 1903. Serial No. 158,690. (No model.)

To all whom it may concern:

Be it known that I, JAMES McCROSSIN, a citizen of the United States, residing at Fergus Falls, in the county of Ottertail and State of Minnesota, have invented certain new and useful Improvements in Cross-Line Buckles, of which the following is a specification.

This invention provides a buckle for harness, being especially designed to permit adjustment of the cross-lines or detachment of the hand part therefrom. The buckle also allows adjustment of the long line if this should be desired.

For a full description of the invention and the merits thereof and also to acquire a knowledge of the details of construction of the means for effecting the result reference is to be had to the following description and drawings hereto attached.

While the essential and characteristic features of the invention are susceptible of modification, still the preferred embodiment of the invention is illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view showing the reins and cross-lines in position upon the buckle and also the hand-strap extending therefrom. Fig. 2 is a longitudinal sectional view through the buckle with the parts assembled as in Fig. 1. Fig. 3 is a perspective view of the buckle alone. Fig. 4 is a top plan view alone.

Corresponding and like parts are referred to in the following description and indicated in all the views of the drawings by the same reference characters.

The buckle consists of a rigid frame comprising side bars 1, an end bar 2, and a cross-plate 3. The cross-plate 3 extends from one end of the frame approximately half the length thereof and is preferably disposed somewhat below the plane of the side bars 1 for reasons which will be obvious to those cognizant with this art, facilitating the disposal of the strap connection. From the end of the frame adjacent the cross-plate 3 and extending from the side bars 1 are projected loops 4 and 5. The loops 4 and 5 extend at approximately right angles to the side bars 1, the loop 4, which is the upper loop, being larger than the lower loop for reasons which will appear as the description proceeds. Pro-

jected from the cross-plate 3 and about midway of the ends of the frame is a rigid tongue 6, which tongue is preferably integral with the plate and is adapted to cooperate with the adjacent strap connections to permit the adjustment thereof.

It is preferred that the buckle, as before described, be an integral structure cast or otherwise formed in manufacture. The forward end of the frame being at the point adjacent the forward end of the cross-plate 3 is inclined so as to bring the end bar 2 about on the plane with the upper side of the loop 4, so that the strap connection may lie approximately in a straight line. The cross-line designated 7 is passed through the upper loop and around the cross-plate 3, beneath the same and through the lower loop, thus forming the reins 8 and 9. The handpiece 10 is passed beneath the end loop 2, and being provided with a series of openings 11 is adapted to be adjusted by cooperation of the aforesaid openings with the rigid tongue 6 upon the cross-plate 3. The cross-line likewise is provided with a series of openings at intervals thereon, which are also adapted to receive the rigid tongue 6 and permit the adjustment of the cross-line reins 8 and 9. These reins 8 and 9 thus may be adjusted so as to be of equal length or of unequal length, as the occasion may require. The handpiece 10 of course makes connection with the rigid tongue above the cross-line and, as will be readily noted, may easily be detached from the buckle when necessary. The cross-plate 3, being located intermediate the loops 4 and 5, separates these loops and makes them entirely independent, this being advantageous in that it more readily permits the insertion of the straps, or cross-lines in this instance, through the respective loops. The upper loop, as before premised, is of greater size than the lower loop, since this loop must receive both the cross-line and the end of the handpiece after same has been properly attached.

Having thus described the invention, what is claimed as new is—

1. In a cross-line buckle comprising a rigid frame consisting of side bars upwardly inclined at their forward ends, a cross-bar connecting the side bars at corresponding ends thereof, a cross-plate extending about half

the length of the side bars and disposed adjacent the ends thereof and opposite the cross-bar aforesaid, a rigid tongue projected from the cross-plate about intermediate the ends of the frame, loops extended at right angles to the plane of the cross-plate from the ends of the side bars, the upper of said loops being of greater size than the lower loop, the adjacent loops being separated by the interposition of the cross-plate.

2. In a cross-line buckle comprising a rigid frame consisting of side bars inclined upwardly at corresponding end portions, a cross-bar connecting the inclined end portions of the side bars, a cross-plate disposed at the opposite end portions of the side bars and below the plane thereof, a rigid tongue projected upwardly from the said cross-bar, loops projected from the end portions of the side bars adjacent the cross-plate aforesaid

and separated by the said cross-plate, the upper of the loops being larger than the lower loop, a strap folded upon itself being passed through the upper of the loops and about the cross-plate and through the lower loop, said strap being provided with a series of openings to permit adjustment thereof by cooperation with the rigid tongue upon the cross-plate, and a second strap passed beneath the end bar of the frame and adapted for adjustment and detachment from the buckle-frame, the end of said strap being passed beneath the upper bar of the upper loop and adapted to cooperate with the rigid tongue.

In testimony whereof I affix my signature in presence of two witnesses.

JAMES MCCROSSIN. [L. S.]

Witnesses:

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PHIL. F. BACHMAN.