

UNITED STATES PATENT OFFICE.

GEORGE R. BAIR, OF BELVUE, KANSAS.

CROSS-LINE BUCKLE.

No. 923,316.

Specification of Letters Patent.

Patented June 1, 1909.

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To all whom it may concern:

Be it known that I, GEORGE R. BAIR, a citizen of the United States, residing at Belvue, in the county of Pottawatomie and State of Kansas, have invented certain new and useful Improvements in Cross-Line Buckles, of which the following is a specification.

This invention comprehends certain new and useful improvements in buckles, and the object of the invention is an improved device of this character which is designed particularly for use in attaching the cross line to the main line of a harness, although it is to be understood that it is not limited to any such use, but may be employed in connecting strap parts generally, said buckle being susceptible of being readily and quickly operated to admit of the convenient adjustment of the cross line upon the main line or its detachment therefrom, and possessing certain other advantages that will become at once apparent as the invention is hereinafter disclosed, over the ordinary constructions of buckles usually employed for this purpose.

With this and other objects in view that will more fully appear as the description proceeds, the invention consists in certain constructions and arrangements of the parts that I shall hereinafter fully describe and then point out the novel features thereof in the appended claims.

For a full understanding of the invention and the merits thereof, and to acquire a knowledge of the details of construction, reference is to be had to the following description and accompanying drawing, in which:

Figure 1 is a perspective view of a buckle embodying the improvements of my invention; and, Fig. 2 is a longitudinal sectional view thereof.

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

In carrying out my invention, I provide a buckle proper which may be of any desired or approved construction or design, and which in the present instance, for the purpose of illustration, is shown as composed of a preferably rectangular buckle frame 1, the end cross bars of which are formed with corresponding slots 2 extending therethrough to accommodate the long line A and slidingly mount the buckle frame thereupon. Between the end cross bars, the buckle frame is formed with an intermediate cross bar 3 be-

neath which the long line is passed, as shown, and which is formed with a downwardly disposed tongue or stud 4 that is arranged to engage the long line to hold the buckle frame in the desired adjusted position thereon. This buckle frame 1 carries a swinging frame 5 which, in the present instance, is U-shaped in form, although it is to be understood that it is not necessarily so, but may be of any shape found most suitable in practice, said swinging frame being hingedly connected to the buckle frame 1 by being loosely wound around the reduced extremities 6 of the intermediate cross bar 3, as shown. Secured to or formed integral with the cross bar at the other or swinging end of the frame 5, is a hook 7, the shank of which curves inwardly below the plane of the swinging frame, and which passes therethrough with its bill terminating on the opposite side of the plane of the frame 5 and projecting slightly therebeyond to provide an entrance passage that is normally arranged above the bail and faces away from the length thereof. This hook is designed to be engaged by an eye 8 which is attached to the extremity of the cross line B and which may be of any desired construction or design, except that it is of a suitable size to admit of its being passed through the swinging frame 5, and that it is hingedly connected to the cross line in any suitable manner.

When my improved cross line buckle is in use, the buckle frame 1 is secured in the desired adjusted position upon the long line A by means of the tongue 4, and the frame 5 is swung forwardly, as best seen in Fig. 1, with the eye 8 engaged with the portion of the hook 7 below the plane of the swinging frame, so as to be prevented by the cross bar thereof from riding upwardly in the winding passage and becoming accidentally disconnected. When it is desired to detach the cross line from the long line, the frame 5 is swung rearwardly and the cross line B is grasped near its end and is pushed rearwardly, whereby the eye 8 is swung through the frame 5 because of its hinged connection with the cross line, the continued rearward movement of the latter causing the eye to travel through the winding passage and to become entirely disengaged from the hook. In again attaching the cross line to the main line, it is only necessary to reverse the above operation by passing the end of the cross line through the swinging frame and engaging the eye 8 with the bill of

the hook 7, and then pulling the cross line forwardly to swing the frame 5 so that it will assume its normal or operative position, and the eye will be engaged with the portion of the hook 7 below the plane of the swinging frame, as previously described.

It is to be understood that the terms "forwardly" and "rearwardly" and "above" and "below" are employed merely for the purpose of perspicuity.

From the foregoing description, in connection with the accompanying drawing, it will be apparent that I have provided an improved cross line buckle which is capable of effectually securing the cross line to the long line and at the same time permitting the former to be adjusted upon the latter or detached therefrom with facility; which consists of comparatively few parts that may be readily assembled, and which may be easily and cheaply manufactured so as to be placed upon the market at a price not too great to prevent its general adoption.

Having thus described the invention, what I claim is:

1. As a new article of manufacture, a device of the character described, comprising a buckle frame, and a bail pivoted thereto

and provided with a hook secured to an end portion of the bail and extending longitudinally thereof below the plane of the same, the hook passing through the bail with its extremity returned toward said end thereof on the opposite side of the plane of the bail to provide an entrance passage above the bail and facing away from the length thereof.

2. As a new article of manufacture, a device of the character described, comprising a buckle frame, a bail pivoted thereto and provided with a hook secured to an end portion of the bail and extending longitudinally thereof below the plane of the same, the hook passing through the bail with its extremity returned toward said end thereof on the opposite side of the plane of the bail to provide an entrance passage above the bail and facing away from the length of the same, and an eye relatively smaller than the bail and adapted to be passed freely therethrough into and out of engagement with the hook.

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

GEORGE R. BAIR. [L. S.]

Witnesses:

H. E. SHORTT,
E. D. KEENER.