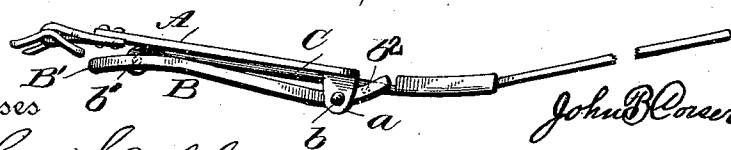
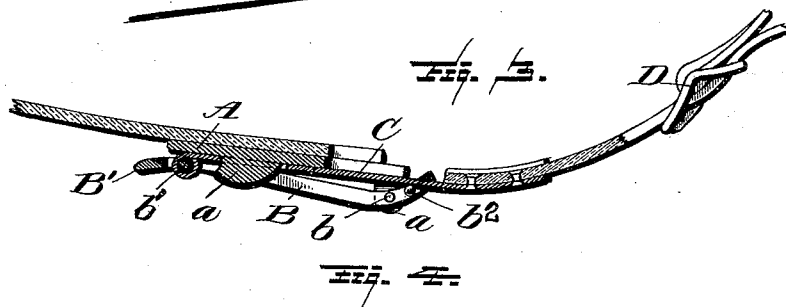
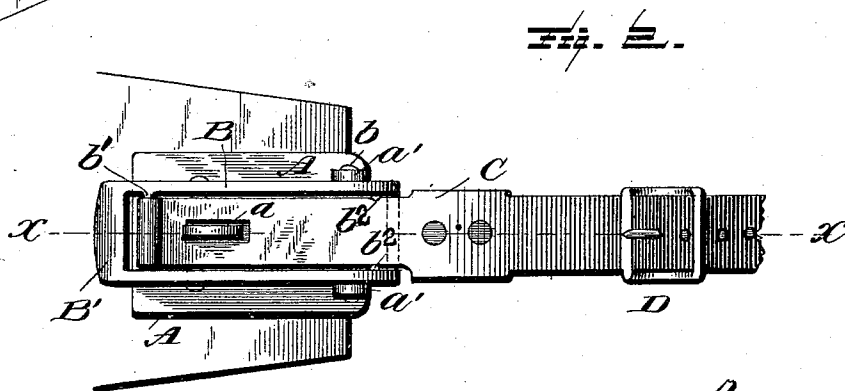
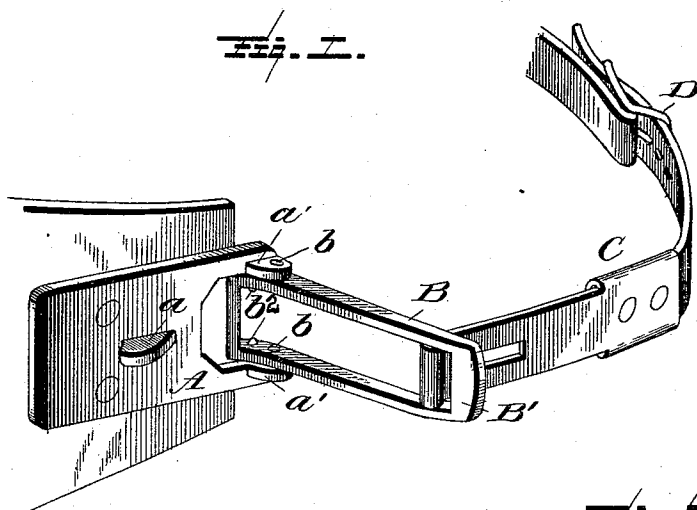


(No Model.)

J. B. CORSER.
STRAP FASTENER.

No. 473,297.

Patented Apr. 19, 1892.



Witnesses

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UNITED STATES PATENT OFFICE.

JOHN BLISS CORSER, OF TOWANDA, PENNSYLVANIA.

STRAP-FASTENER.

SPECIFICATION forming part of Letters Patent No. 473,297, dated April 19, 1892.

Application filed January 21, 1892. Serial No. 418,772. (No model.)

To all whom it may concern:

Be it known that I, JOHN BLISS CORSER, a citizen of the United States, residing at Towanda, in the county of Bradford and State of Pennsylvania, have invented certain new and useful Improvements in Strap-Fasteners; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to certain new and useful improvements in strap-fasteners for securing straps and other bands at a predetermined and greater degree of tension than can be secured with an ordinary buckle.

The main object of my invention is the provision of a fastener for the purpose of drawing up and holding a strap, such as an ordinary skate-strap, so that it will bind more tightly against the body to be secured by it than it will when a buckle of the usual construction is employed.

Other objects and advantages of the invention will appear in the following description, and the novelty thereof will be particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of a strap-fastener constructed in accordance with my invention and applied to the heel-strap and leather upper of a skate. Fig. 2 is a plan view of the same. Fig. 3 is a longitudinal section through the line xx of Fig. 2, and Fig. 4 is an edge elevation of a modification of my invention.

Like letters of reference indicate like parts throughout the several views.

A is a metallic body-plate adapted to be secured in a suitable manner—such as by rivets—to one side of a skate-upper or to one end of a strap or other similar article. This plate is provided a little forward of its center with a lug or catch a , for a purpose hereinafter described. Near its rear end the body-plate is cut away for about one-third of its length to form a recess, and at the sides of this recess two ears $a' a'$ are formed perpendicular to the body-plate and at the extreme rear end thereof. The open link B, substantially oblong in shape, is provided near one end with studs or pins $b b$, journaled in the

trunnions $a' a'$, and on these studs the link oscillates freely in the recess in the end of the body-plate A. Near its opposite end the link B is provided with a cross-bar b' , made integral with the body of the link. A fastening-plate C is secured at one end to said cross-bar by a loose loop, which admits of a little end-play of the fastening-plate upon said cross-bar—say to the extent of one thirty-second or one-sixteenth of an inch. The end of the strap to be drawn up is secured to the opposite end of the fastening-plate in any suitable manner, the preferable construction being to secure the strap by rivets within a sheath formed on the end of the plate. This plate is slotted longitudinally close to where it is hinged to the cross-bar for the purpose of snapping over the lug a when the fastening device is in use.

The operation of my invention is as follows: The free end of the fastening-plate C is secured to one end of a strap and the body-plate A is secured to the other end of the strap or to one side of a skate-upper, if used in connection with a skate. An ordinary buckle—such as D—is placed at an intermediate point in the strap, as shown. The link B is then folded down upon the body-plate A, the link turning in the trunnions $a' a'$. The hinged fastening-plate C is also folded down, turning on the cross-bar b , and by means of the slot near its hinged end is snapped over the nose of the lug a . By means of the buckle D the strap is drawn up approximately tight and secured. The fastening-plate is then released from the lug a by pulling up on the end B' of the link B. The strap is then drawn up by means of the buckle D as much more tightly (say half an inch or an inch) as may be deemed necessary or advisable. Then by pulling down upon the end B' of the link sufficient leverage is obtained (the trunnions $a' a'$ forming the fulcrum) to draw up the strap and snap the fastening-plate down over the nose of the lug a . At the same time the opposite end of the fastening-plate is snapped down over the small studs $b^2 b^2$, and this tends to hold the plate still more securely. When it is desired to loosen the strap, it can be done by pulling up on the end B' of the link, as before stated. This movement throws the

loop of the fastening-plate slightly forward on the cross-bar and releases the plate from engagement with the lug *a*.

It will be seen from the above description that a fastener of this construction affords means for drawing a strap up very tightly not possessed by an ordinary buckle and effects a considerable saving of time and energy, making it very convenient for many purposes. As applied to skates, for instance, the skater can effect a perfect adjustment of the straps of his or her skates at home or before going on the ice, and after going on the ice all that has to be done is to slip the foot in place through the loosened straps when the fastener is open, as shown in Fig. 1, and snap the fastening-plate over the catch *a* into position, as shown in Fig. 2.

This fastener is equally well adapted for use with both toe and heel straps, and by its use the adjustment of skates in cold weather is made much more easy and perfect.

I do not of course limit myself to the use of my improved fastener in connection with skates, although I have described it as especially adapted for this purpose, as it may be used in a variety of ways and wherever it is desired to obtain a very secure fastening; nor do I limit myself to its use in connection with a buckle placed intermediate of the strap, as it is evident that this buckle may be made integral with or secured to the front end of the body-plate *A*, as shown in Fig. 4, when the fastener is used on a plain strap or band for securing trunks, &c., and when used in this way the body-plate *A* would not be attached to the strap.

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

1. A device for tightening and securing straps, consisting of a body-plate having a recess at one end and a lug or catch in its upper face near the other end, an open link journaled near one end in said recessed end and adapted to oscillate in the recess and having a cross-bar near its opposite end, and a slotted fastening-plate hinged to said cross-bar by a loose loop and adapted to engage the catch in

the face of the body-plate, substantially as described.

2. A device for tightening and securing straps, consisting of a body-plate having a recess at one end and a lug or catch in its upper face near the other end, an open link journaled near one end in said recessed end and adapted to oscillate in the recess and having studs *b*² near the journaled end of the link and a cross-bar near the opposite end, and a slotted fastening-plate hinged to said cross-bar by a loose loop and adapted to engage the catch in the face of the body-plate and the studs *b*² of the open link when folded down upon said body-plate, substantially as described.

3. A device for tightening and securing straps, consisting of a body-plate having a recess at one end, a buckle at the other end, and an intermediate lug or catch in its upper face, an open link journaled near one end in said recessed end and adapted to oscillate in the recess and having a cross-bar near its opposite end, and a slotted fastening-plate hinged to said cross-bar by a loose loop and adapted to engage the catch in the face of the body-plate when folded down thereupon, substantially as described.

4. A device for tightening and securing straps, consisting of a body-plate having a recess at one end, a buckle at the other end, and an intermediate lug or catch in its upper face, an open link journaled near one end in said recessed end and adapted to oscillate in the recess and having studs *b*² near the journaled end of the link and a cross-bar near the opposite end, and a slotted fastening-plate hinged to said cross-bar by a loose loop and adapted to engage the catch in the face of the body-plate and the studs *b*² of the open link when folded down upon said body-plate, substantially as described.

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

JOHN BLISS CORSER.

Witnesses:

J. H. ORDETT,

W. T. HUMPHREY.