

(No Model.)

I. RORABACK.  
HARNESS BUCKLE.

No. 362,540.

Patented May 10, 1887.

Fig. 1.

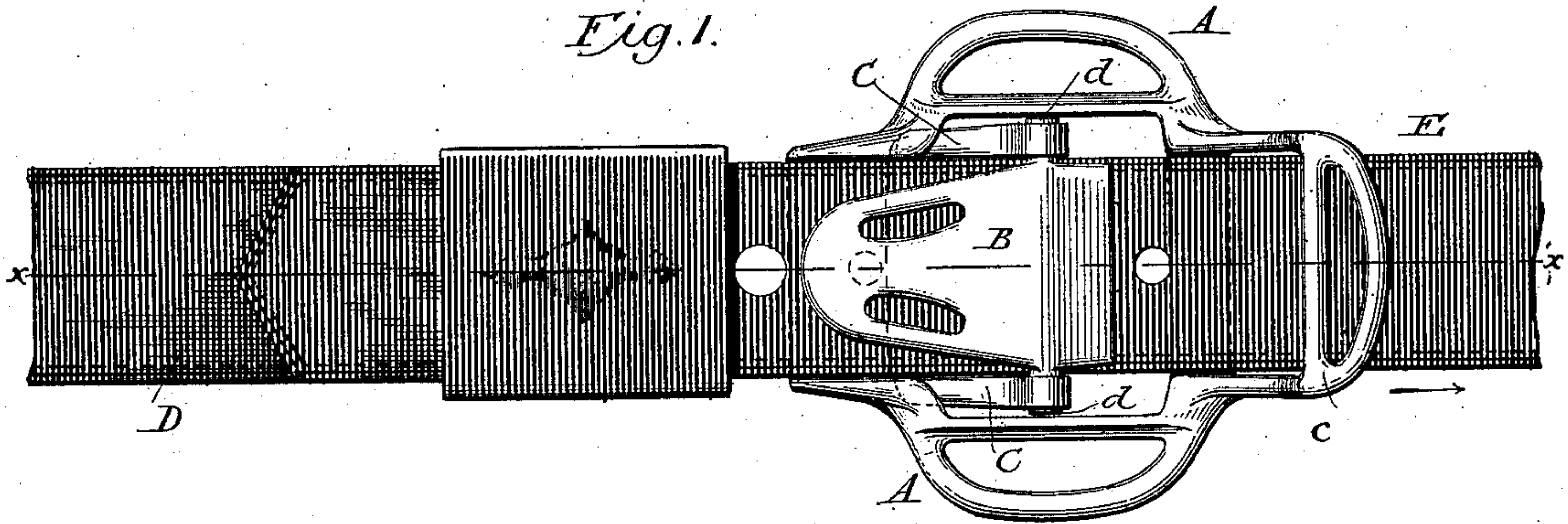


Fig. 2.  
on line x-x

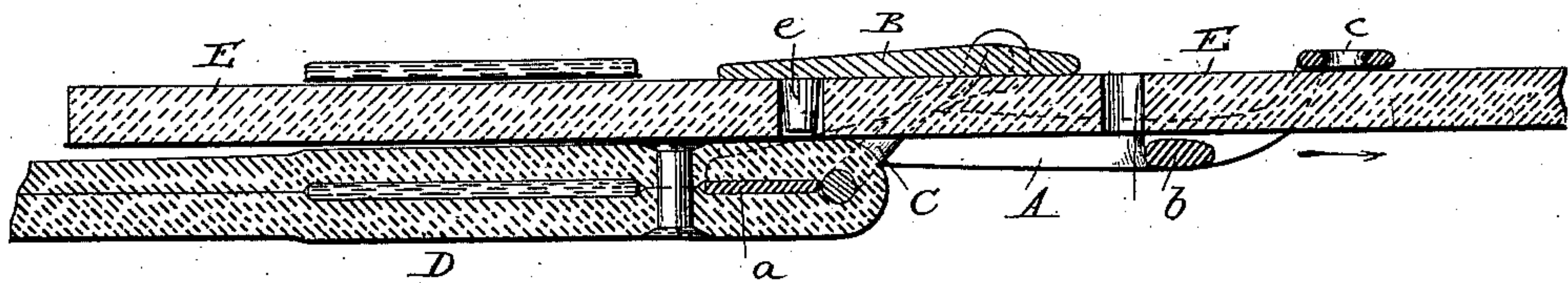


Fig. 3.

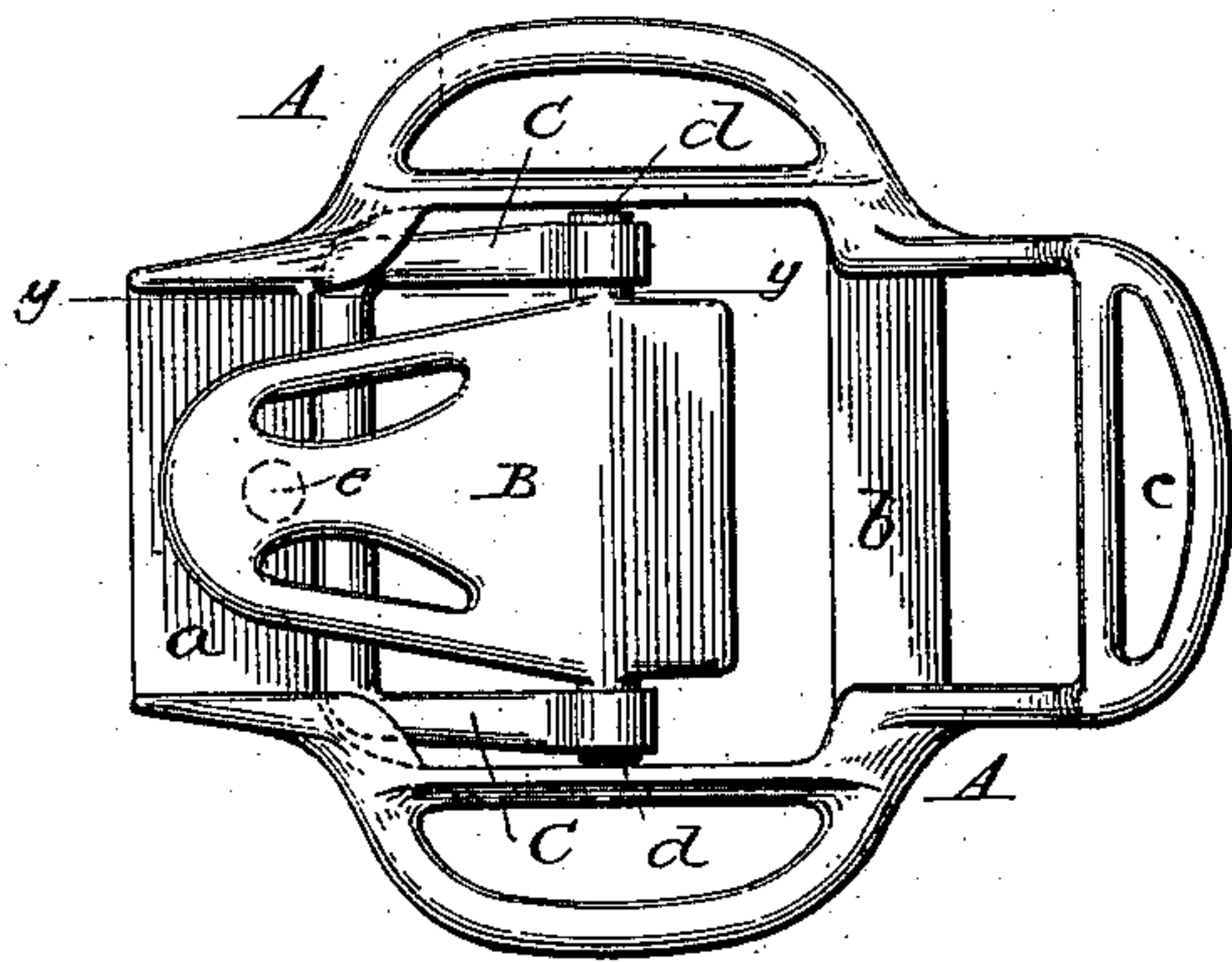
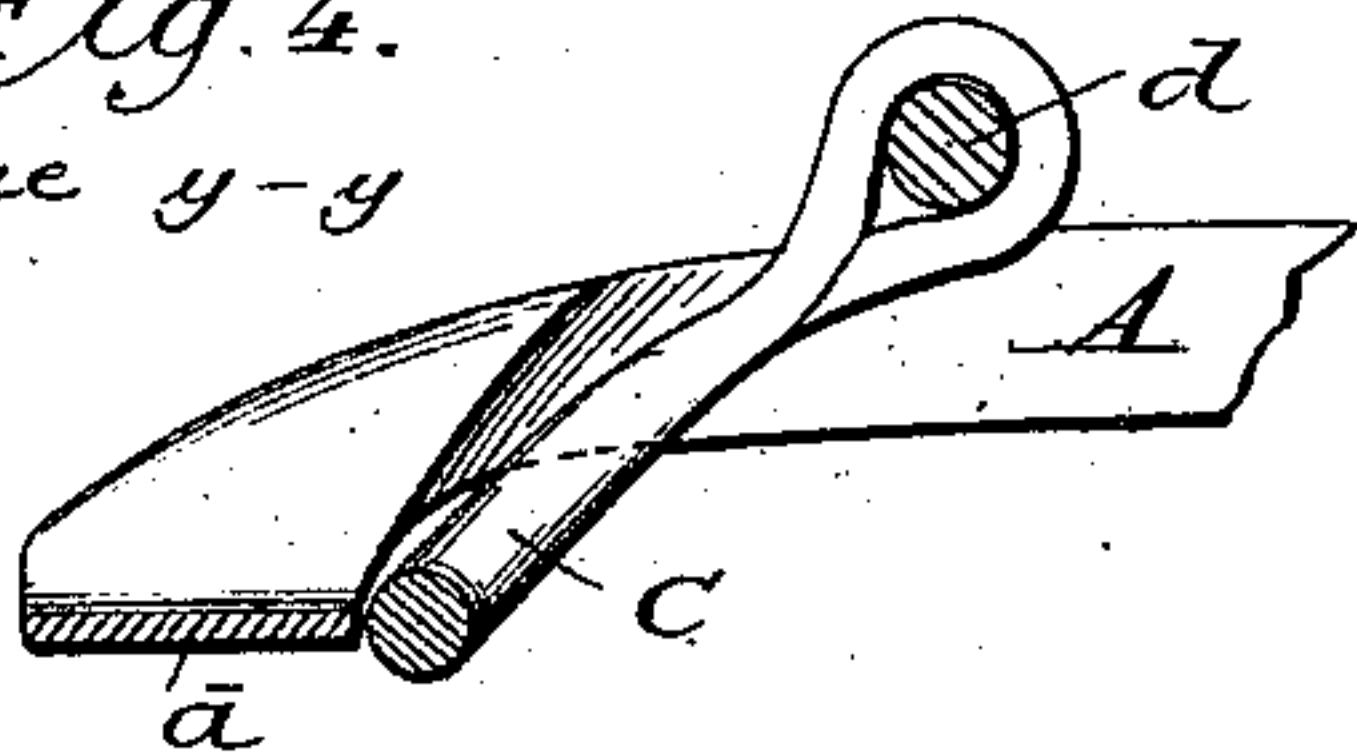


Fig. 4.  
on line y-y



WITNESSES

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# UNITED STATES PATENT OFFICE.

ISAAC RORABACK, OF DAVENPORT, IOWA.

## HARNESS-BUCKLE.

SPECIFICATION forming part of Letters Patent No. 362,540, dated May 10, 1887.

Application filed August 21, 1886. Serial No. 211,519. (No model.)

*To all whom it may concern:*

Be it known that I, ISAAC RORABACK, of Davenport, in the county of Scott and State of Iowa, have invented certain Improvements in Harness-Buckles, of which the following is a specification.

The aim of my invention is to provide a buckle which will admit of the instantaneous and ready adjustment of the strap, and which will hold the same firmly in position without requiring it to be bent; and to this end it consists, essentially, in a frame to guide and support the strap, combined with a plate having a stud to enter the strap, and a swinging stirrup or link by which the plate is held in position, as hereinafter described.

In the accompanying drawings, Figure 1 represents a face view of my buckle in use. Fig. 2 is a longitudinal section of the same on the line *x x*. Fig. 3 is a face view of the buckle as it appears when separated from the strap. Fig. 4 is a longitudinal section through one end of the buckle on the line *y y*, the strap being removed therefrom.

Referring to the drawings, A represents the frame of the buckle, which may have any external form desired, provided it is adapted to permit the passage of the strap therethrough, and that it contains the three cross-bars *a*, *b*, and *c*.

B represents a plate arranged to bear against the outer face of the strap, and provided, as shown, near one end with a stud, *e*, to enter the strap, and with two journals or trunnions, *d*, at its edges midway of its length.

C represents a swinging link or stirrup of a U form, its middle portion lying parallel with and adjacent to the bar *a* of the frame, while its two arms are clasped around the journals *d* of the plate B, for the purpose of supporting and holding the same.

In making use of the buckle the bar *a* is seated in or otherwise secured firmly to a strap or tug, D, and the middle portion of the stirrup seated by its side in such manner that it may receive a slight rocking or turning motion. The strap to be secured (shown at E) is passed through the frame between the bars *b* and *c*, and thence between the underlying bar *a* and the overlying plate B, the stud of the latter being seated in a hole in the strap, as shown in Fig. 2.

When the strap is strained in the direction

indicated by the arrow, the stud urges the plate in the same direction, and the result is, that the link or stirrup C assumes an inclined position, and tends to draw the plate downward firmly upon the strap and retain the engagement of its stud therewith. As the journals of the plate B are located midway of its width, or thereabout, the pressure of the strap beneath the forward end of the plate prevents its rear end, to which the stud is attached, from rising out of position. When the strap is to be released, it is only necessary to lift the rear end of the plate B until the stud is disengaged; or the same result may be attained by pushing the strap E forward until the link assumes an upright, or approximately upright, position, as indicated in dotted lines in Fig. 2, the effect of which will be to lift the plate B out of action.

The essence of my invention resides in combining with the frame and the plate having a stud to engage the strap a swinging link or stirrup which acts to draw and hold the plate against the strap.

If desired, the stirrup may be jointed directly to the frame of the buckle in any suitable manner, instead of being attached thereto by means of the strap D, as shown.

Having thus described my invention, what I claim is—

1. The buckle consisting of the frame A, the plate B, having a stud to engage the strap, and a swinging link, C, arranged to operate substantially as described.

2. In a buckle, and in combination with the main frame to support the strap, a plate, B, provided with stud *e*, and the swinging stirrup C, adapted to straddle the strap and jointed at its ends to the plate.

3. In a buckle, a plate, B, adapted to rest upon the outer face of the strap, and provided with a stud, *e*, to enter the same, in combination with a swinging link or stirrup jointed to said plate and arranged to swing about an axis on the opposite side of the strap, all arranged to operate substantially as described.

In testimony whereof I hereunto set my hand, this 31st day of July, 1886, in the presence of two attesting witnesses.

ISAAC RORABACK.

Witnesses:

ANTHONY BURDICK,  
EDW. C. ROBERTS.