

No. 837,451.

PATENTED DEC. 4, 1906.

O. C. DAVIS.

BUCKLE.

APPLICATION FILED OCT. 9, 1905.

Fig. 3.

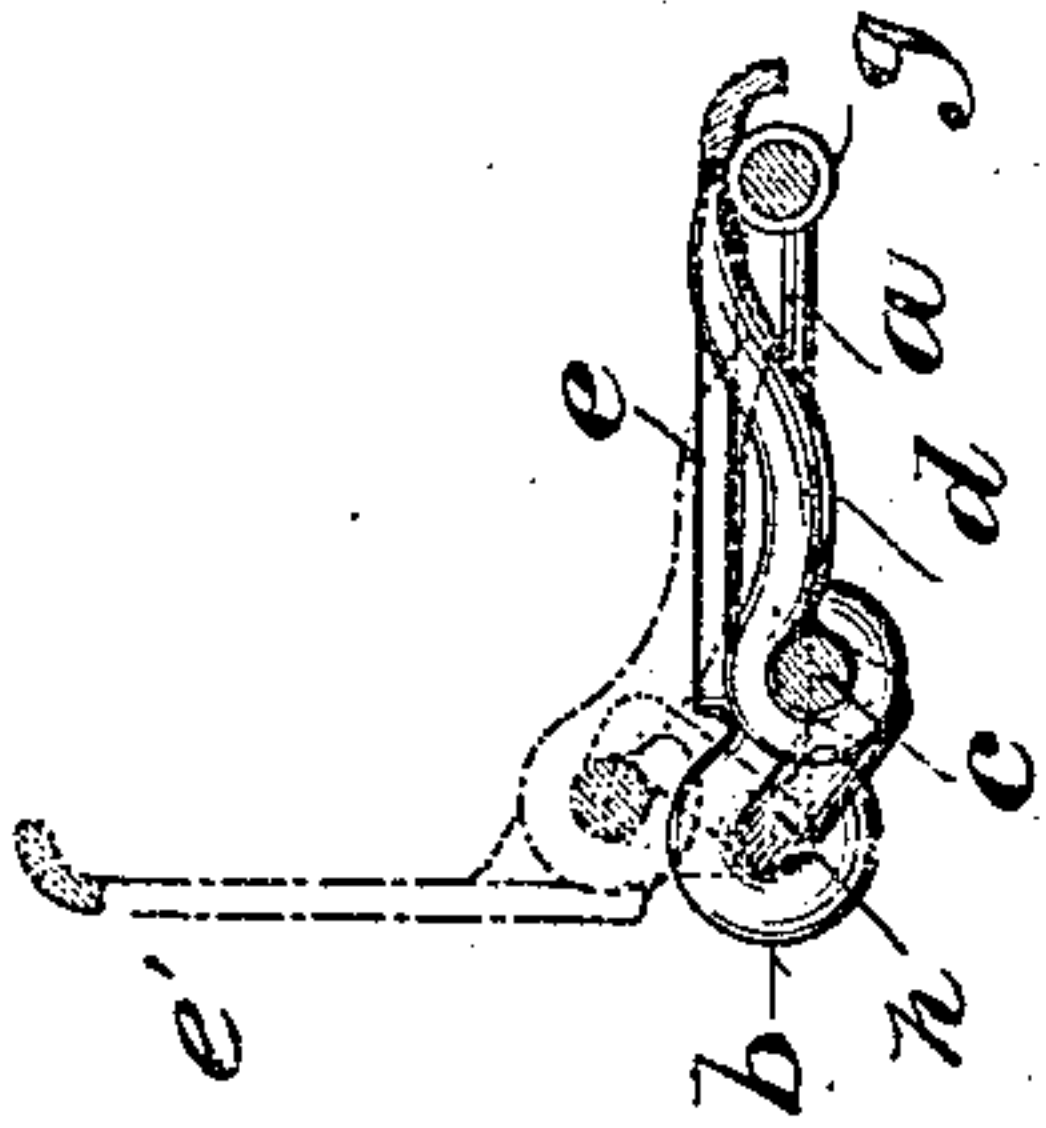


Fig. 2.

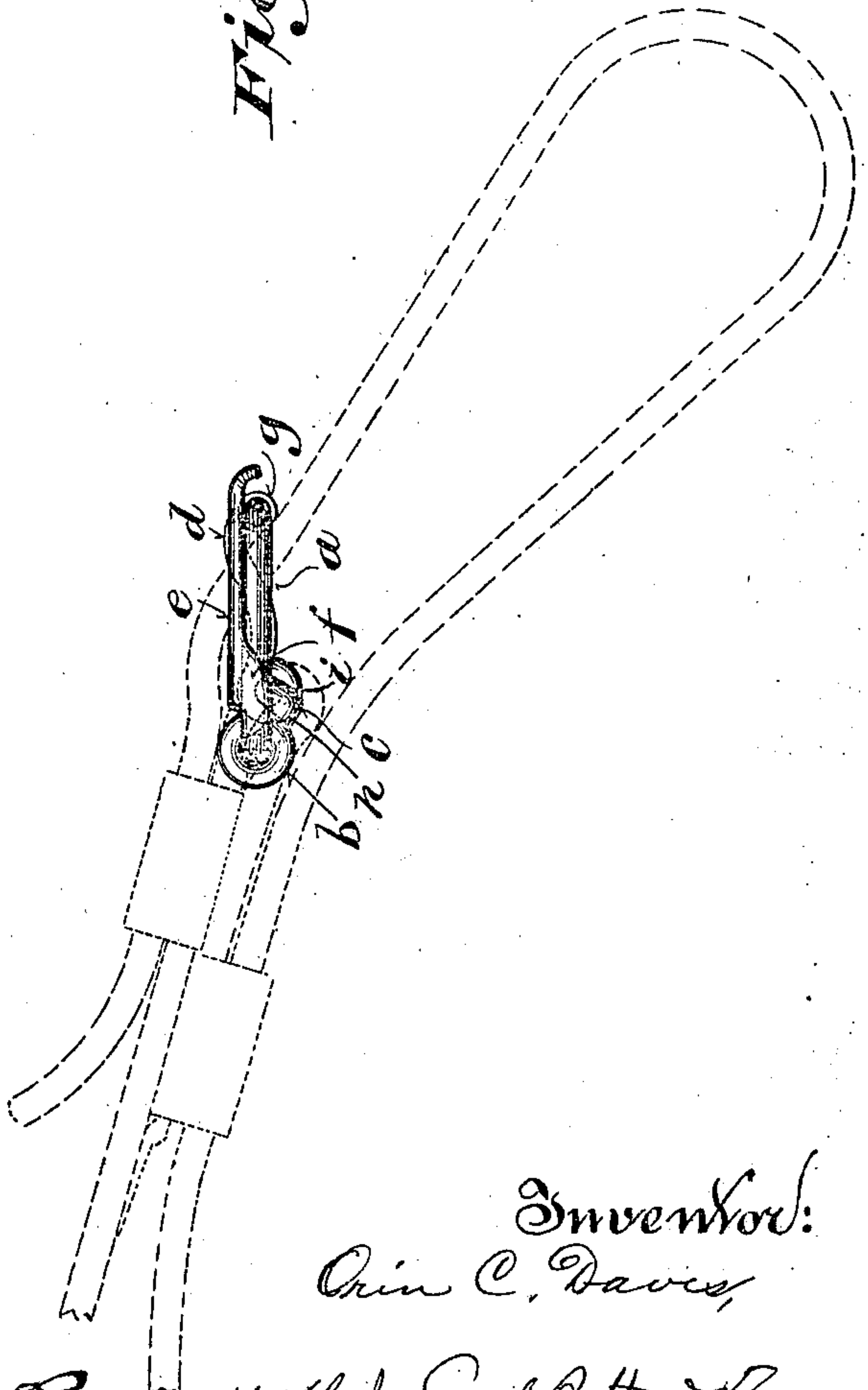
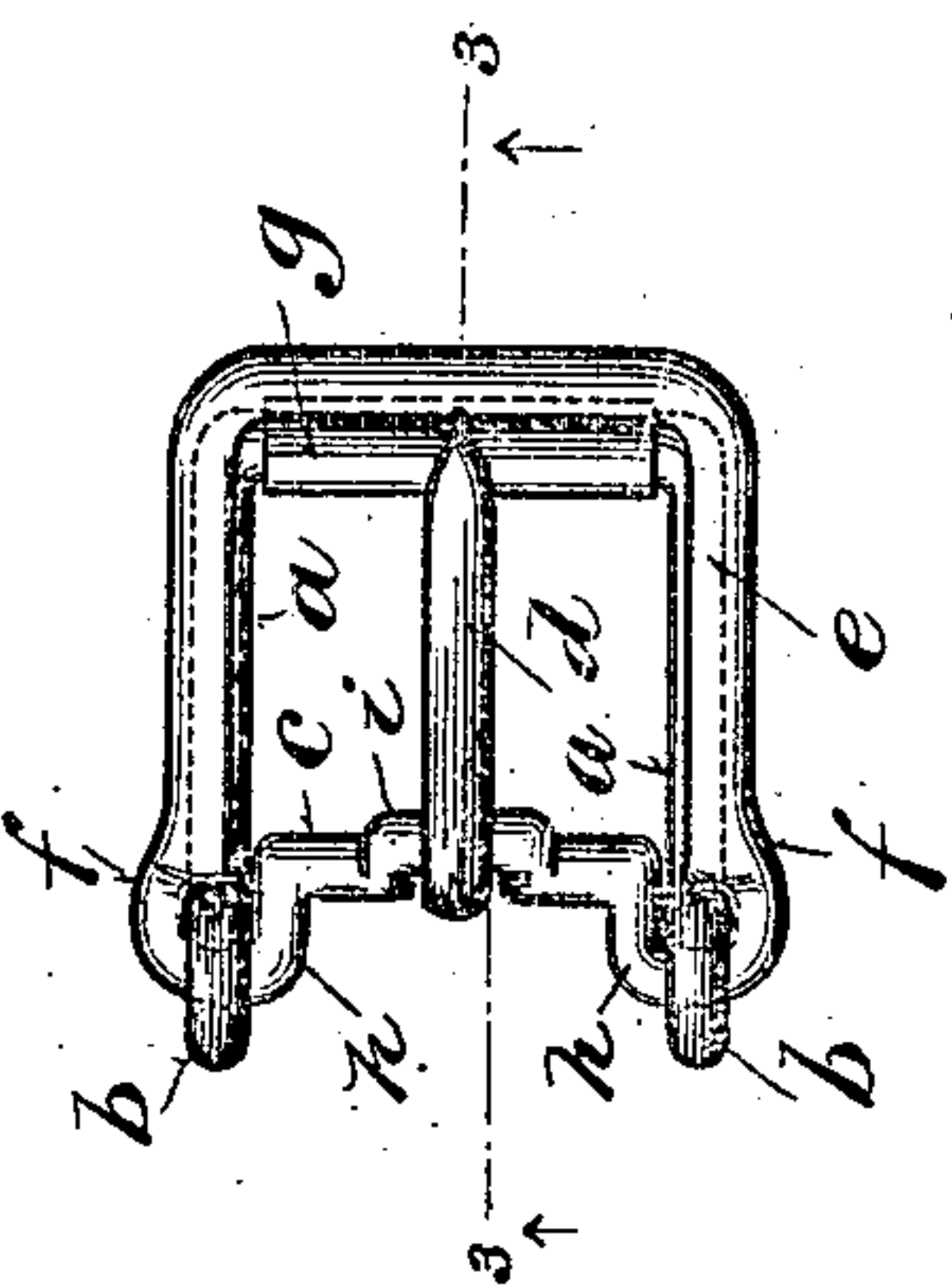


Fig. 1.



Witnesses:
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UNITED STATES PATENT OFFICE.

ORIN C. DAVIS, OF MANISTEE, MICHIGAN, ASSIGNOR OF ONE-HALF TO
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BUCKLE.

No. 837,451.

Specification of Letters Patent.

Patented Dec. 4, 1906.

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To all whom it may concern:

Be it known that I, ORIN C. DAVIS, a citizen of the United States, residing at Manistee, in the county of Manistee and State of Michigan, have invented certain new and useful Improvements in Buckles, of which the following is a specification, reference being had to the accompanying drawings, forming a part thereof.

The main object of this invention is to facilitate unbuckling straps—such, for example, as harness-straps, which are connected or fastened by buckles.

It consists in certain novel features of construction and in the peculiar arrangement and combinations of parts, as hereinafter particularly described, and pointed out in the claims.

In the accompanying drawings like letters designate the same parts in the several figures.

Figure 1 is a plan view of a buckle embodying the invention. Fig. 2 is a side view of the same, illustrating by dotted lines the manner of attaching a strap thereto; and Fig. 3 is a longitudinal section of the buckle on the line 3 3, Fig. 1, indicating by dotted lines the manner of withdrawing the tongue from engagement with the closed end of the frame to release a strap which is fastened thereby.

The buckle comprises an approximately U-shaped frame *a*, which is formed at the ends with eyes *b*, a cross-bar *c* offset and fitted to turn at the ends in said eyes, a tongue *d*, pivoted on said cross-bar, and a looped arm *e*, attached to the ends of the cross-bar for turning the same in the frame and moving the tongue endwise into and out of operative relation to the closed end of the frame. The looped arm *e* is preferably made, as shown, integral with the cross-bar *c*. It is made to fit over the sides of the frame *a* and to project when folded against it beyond its closed end, so that it can be easily caught by its overhanging end with a thumb or finger and turned back from the frame, as indicated by dotted lines *e'* in Fig. 3. It is formed or provided on either or each side with a lip or bearing *f*, which is adapted to be sprung into engagement with the adjacent side of the frame *a* and binding thereon to hold the looped arm in its normal position against the frame and the tongue *d* in operative relation to the

closed end of said frame, as shown by full lines in the several figures of the drawings. 55

The offsets *h* at the ends of the cross-bar *c* are inclined downwardly from the eyes *b* toward the opposite closed end of the frame *a*, so that when the arm *e* is turned down and rests against said frame said cross-bar will lie below the plane of the frame and the pull on the strap attached thereto will tend to hold said arm in place against said frame and the point of the tongue *d* in engagement with the cross-bar at the front end of the frame. 65

The cross-bar *c* is preferably formed with a central upward or outward offset *i*, on which the tongue *d* is pivoted, so that when the arm *e* is closed against the frame the pivot center of the tongue will be close to the plane of the frame and the tongue will be immediately drawn backward when said arm is turned upward or away from said frame and less movement of the arm will suffice to disengage the point of the tongue from the cross-bar of the frame than would otherwise be required. 75

The cross-piece at the closed end of the frame is preferably provided with a roller-barrel *g*, such as is used with ordinary buckles to facilitate drawing straps through them. 80

In operation to fasten a strap with the buckle, the looped arm *e* being closed against the frame and the tongue held thereby in its normal operative relation to the frame, the strap is tucked through the frame and caught on the tongue the same as with an ordinary buckle. To unfasten and release the strap, the looped arm *e* is turned back or away from the frame, thereby withdrawing the tongue *d* until it clears the roller-barrel *g* or closed end of the frame, as indicated in Fig. 3, and permitting the strap to freely slip therefrom. 90

I claim—

1. A buckle comprising a U-shaped frame, a cross-bar pivoted to the ends of said frame, a tongue pivoted to said cross-bar eccentrically with relation to its pivot connections with the frame, and a looped operating-arm attached to the cross-bar and having bearings on the sides adapted to be sprung into engagement with the sides of the frame and to hold the tongue in operative relation thereto, substantially as described. 95

2. A buckle comprising a U-shaped frame formed at its ends with eyes, a cross-bar hav- 105

ing offsets at the ends which are fitted to turn in said eyes, a tongue pivoted to said cross-bar, and a looped arm attached to the ends of the cross-bar and closing over and projecting beyond the opposite end of the frame when the tongue is in operative relation thereto, substantially as described.

3. A buckle comprising a U-shaped frame formed at the ends with eyes, a loop fitted over and normally projecting beyond the closed end of the frame and provided with a cross-bar which is fitted to turn in said eyes and is offset between them, and a tongue pivoted on said cross-bar in the offset and movable therewith into and out of operative relation with the closed end of the frame by swinging said loop toward and from the frame, substantially as described.

4. A buckle comprising a U-shaped frame formed at the ends with eyes, a cross-bar off-

set and pivoted at the ends in said eyes and having a central offset, a tongue pivoted on the central offset of said cross-bar, and an arm attached to the end of the cross-bar and lying normally close to the side of the frame, for turning the offset cross-bar and withdrawing the tongue from engagement with the closed end of the frame, the offsets at the ends of said cross-bar projecting inwardly away from the plane of the frame and the central offset projecting outwardly toward said plane when the buckle is closed substantially as described.

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

ORIN C. DAVIS.

Witnesses:

ALICE E. Goss,
CHAS. L. Goss.