

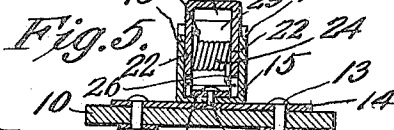
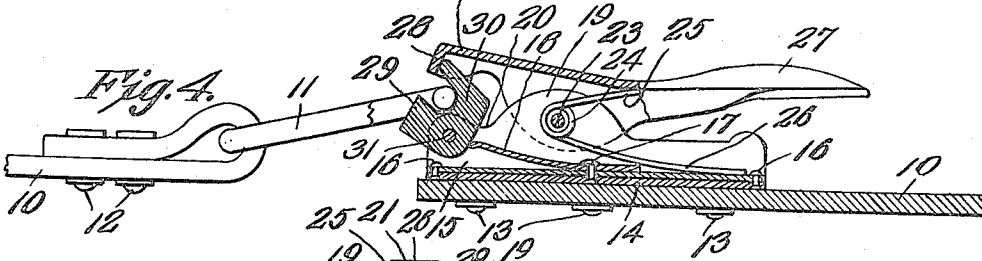
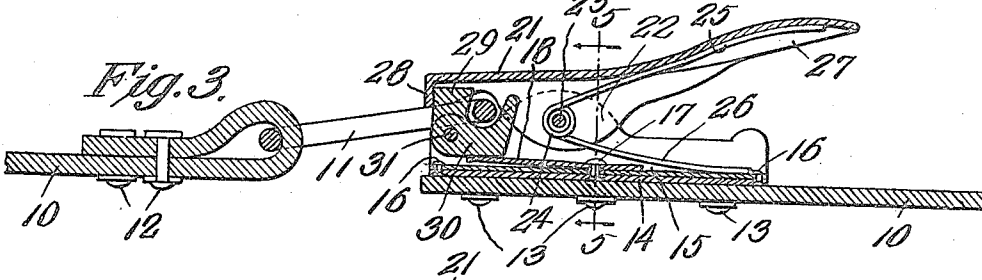
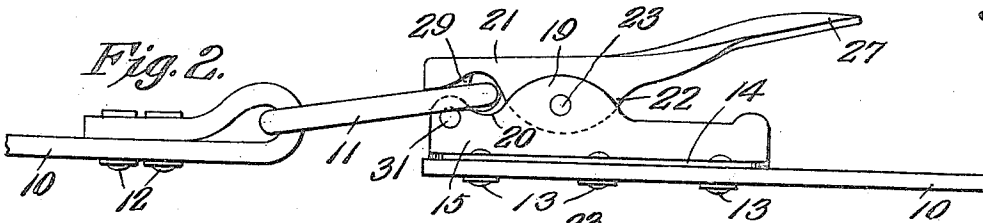
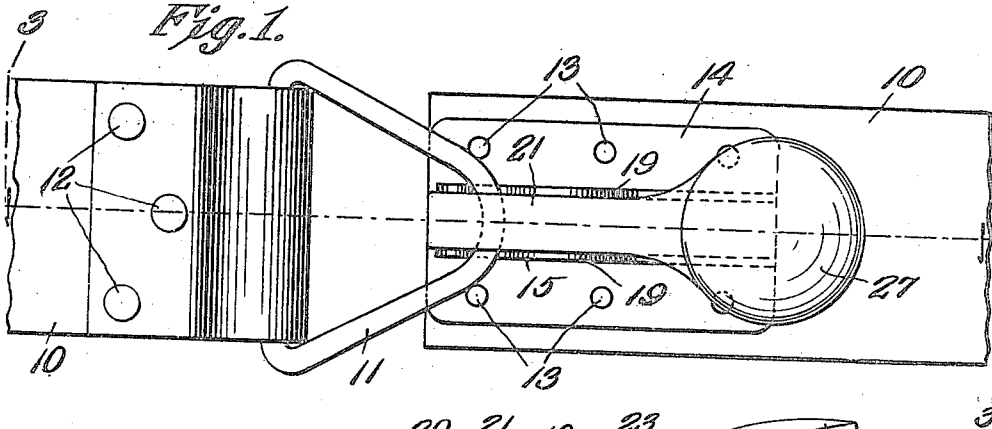
H. E. ADAMS.

BUCKLE.

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1,253,455.

Patented Jan. 15, 1918.



WITNESSES

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HARRY E. ADAMS, OF PENSACOLA, FLORIDA.

BUCKLE.

1,253,455.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HARRY E. ADAMS, a citizen of the United States, residing at Pensacola, in the county of Escambia and State of Florida, have invented certain new and useful Improvements in Buckles, of which the following is a specification.

This invention relates to an improved buckle of the pivoted jaw type and the principal object of the invention is to provide a buckle which may be used for connecting the ends of a belt worn as a safety belt by aviators, a socket being carried by the stationary jaw of the buckle and receiving the eye connected with the belt, the movable jaw engaging the socket to prevent it from moving to a releasing position and a spring being provided to engage the socket and turn it to a releasing position when the movable jaw is swung to an open position.

Another object of the invention is to so construct this buckle that when the eye is placed in the socket and moved inwardly, it will swing the socket inwardly and permit the spring engaging the movable jaw to swing the movable jaw to a closed position and releasably prevent movement of the socket to a releasing position, this permits the belt to be fastened by simply placing the eye in the socket and swinging the socket inwardly, and further permits the belt to be released by simply pressing upon the lever extension of the movable jaw and raising the jaw to a releasing position thus permitting the spring engaging the socket to swing the socket to a releasing position and release the eye.

This invention is illustrated in the accompanying drawings, wherein:—

Figure 1 is a view in front elevation showing the buckle in place,

Fig. 2 is a view of the structure shown in Fig. 1 showing the improved buckle in side elevation,

Fig. 3 is a sectional view taken along the line 3—3 of Fig. 1,

Fig. 4 is a view similar to Fig. 3 showing the buckle moved to a releasing position, and

Fig. 5 is a transverse sectional view taken along the line 5—5 of Fig. 3,

The belt 10 has one end portion passed through the triangular eye 11 and secured by rivets or other fasteners 12. The buckle which is to engage the eye 11 is secured to the opposite end portion of the belt 10 by means of rivets or other fasteners 13 which

pass through the base plate 14 of the buckle upon opposite sides of the stationary jaw 15 secured to the base plate by rivets or other fasteners 16. This stationary jaw is further secured by means of a rivet 17 serving to connect the spring 18 with the stationary jaw. The side walls of this stationary jaw are provided with enlargements or extensions forming hinge ears 19 and are provided with cutouts or recesses forming pockets 20 in which will rest the eye 11 when engaged by the buckle.

The movable jaw 21 is provided with hinge ears 22 which will be engaged by the pivot pin 23 to pivotally connect the movable jaw with the stationary jaw. A spring 24 is mounted upon this pin 23 and is provided with arms 25 and 26 engaging the stationary jaw and the lever or actuating handle 27 of the movable jaw to yieldably hold the movable jaw in the operative position with its bill 28 engaging the heel 29 of the socket or block 30 pivotally mounted between the walls of the stationary jaw by pin 31. This block receives the eye 11 and when in the locked position, the eye passes through the socket block and between the two jaws as clearly shown in Figs. 2 and 3, with the bill 28 of the movable jaw engaging the heel of the socket block to prevent the block from moving to the releasing position shown in Fig. 4. The spring 18 holds the socket block in engagement with the bill 28 and when the lever handle of the movable jaw is pressed and moved against the tension of the spring 24 to a releasing position, the spring 18 will swing the socket block to the releasing position shown in Fig. 4 thus releasing the eye 11 and permitting the eye to move out of engagement with the buckle. It will thus be seen that when in use, the eye 11 can be placed in the pocket of the socket block 29 and the block then moved inwardly until the heel 29 is swung inwardly a sufficient distance to permit the spring 23 to move the jaw 21 to a locking position with the bill 28 engaging the socket block. The eye will then be securely held in place, any strain coming upon the block 30 and thus preventing danger of the pull exerted causing the belt to release. If for any reason it is necessary to quickly disconnect the belt, it is simply necessary to press the lever handle 27 of the movable jaw with one hand. When this is done, the bill 28 will be moved out of en-

gement with the socket block and the spring 18 will swing the socket block outwardly to a releasing position, thus releasing the link or eye 11 and also causing the eye to be thrown from the socket block, and out of engagement with the buckle. It will thus be seen that a buckle has been provided which is very secure and which is further so constructed that the belt can be easily and quickly released.

What is claimed is:—

1. A buckle comprising a base plate, a stationary jaw carried by the base plate and provided with side walls provided with cutouts, a movable jaw pivotally connected with the stationary jaw and provided with side walls having cutouts in operative relation to the cutouts of the walls of said stationary jaw, a socket block rotatably mounted between the walls of the stationary jaw and provided with a pocket positioned in operative relation to the cutouts of the jaws when the socket block is in a locking position, a bill for the movable jaw engaging the socket block to hold the same against movement to a releasing position, resilient means engaging the movable jaw to yieldably hold the same in a position to engage the socket block, and resilient means engaging the socket block to move the same to a releasing position when the movable jaw is swung to an open position.

2. A buckle comprising a stationary jaw, a socket block carried by the stationary jaw for rotary movement, a movable jaw pivotally connected with the stationary jaw and provided with a bill for engaging the socket block to releasably hold the same in a locking position, resilient means engaging the socket block to swing the same to a releasing position, and resilient means engaging the movable jaw to move the same to a closed position to prevent movement of the socket block to a releasing position, when the socket block is moved inwardly to a locking position against the tension of its resilient means.

3. A buckle comprising a stationary jaw having side walls, a movable jaw having side walls pivotally connected with the side walls of the stationary jaw, a bill for the movable jaw, a socket block rotatably mounted between the side walls of the stationary jaw and releasably held against out-

ward movement to a releasing position by engagement with the bill of the movable jaw, resilient means engaging the socket block to move the same to a releasing position when the movable jaw is swung to an open position, and resilient means yieldably holding the movable jaw in a closed position and moving the movable jaw into operative engagement with the socket block when the socket block is moved inwardly to a locking position.

4. A buckle comprising a stationary jaw, a movable jaw, a socket block movably connected with the stationary jaw and releasably held in a locking position by the movable jaw, a socket member movably connected with the stationary jaw, resilient means engaging the socket member to move the same to a releasing position when the movable jaw is moved to an open position, and means for yieldingly holding the movable jaw in a closed position and in operative engagement with the socket block when the socket block is moved to a locking position.

5. A buckle comprising a stationary jaw, a movable jaw connected with the stationary jaw, a socket member movably connected with one jaw and provided with an eye receiving socket, means for yieldably holding the movable jaw in a closed position, the movable jaw moving into operative engagement with the socket member when the socket member is swung inwardly into a locking position with the eye positioned in the socket thereof, and resilient means engaging the socket member to move the same to a releasing position when the movable jaw is moved to an open position.

6. A buckle including pivotally connected jaws, one of said jaws being provided with a bill, an eye engaging socket member rotatably connected with the second jaw and having a socket to receive the eye, and means yieldably holding the jaws in a closed position with the bill engaging the socket member to releasably hold the socket member in a locking position.

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

HARRY E. ADAMS.

Witnesses:

Mrs. T. J. EGGLESTON,
A. A. BRESSMAN.