Jan. 5, 1932. T. RUSSELL 1,839,896

SNAP BUCKLE SLIDE

Filed Nov. 12, 1930

Fig. 1.

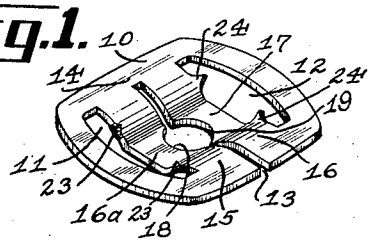


Fig. 2.

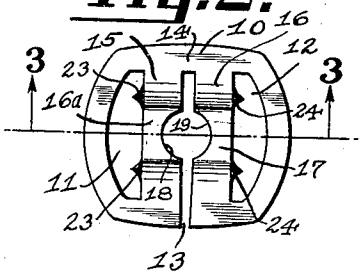


Fig. 3.

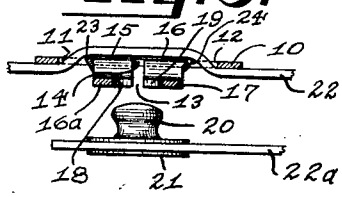


Fig. 4.

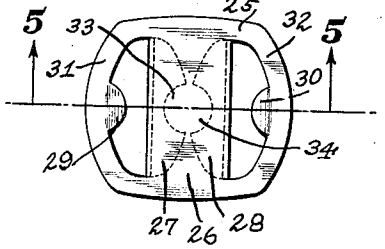


Fig. 5.

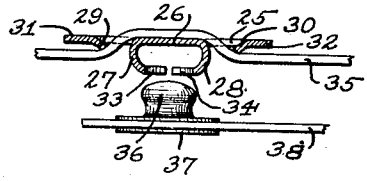


Fig. 6.

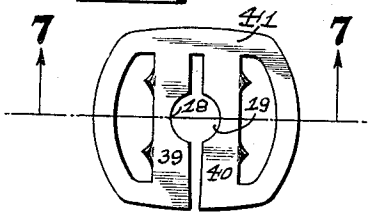
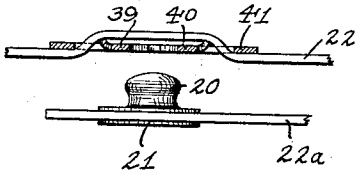


Fig. 7.



Inventor
Theodore Russell.

By his Attorney
H. G. Manning

Patented Jan. 5, 1932 1,839,896

UNITED STATES PATENT OFFICE

THEODORE RUSSELL, OF NAUGATUCK, CONNECTICUT

SNAP BUCKLE SLIDE

Application filed November 12, 1930. Serial No. 495,098.

This invention relates to buckles, and more particularly to an improved form of one-piece buckle slide having a two-part resilient central section adapted to be detachably secured upon a cooperating post member located therebeneath.

One object of this invention is to provide a buckle slide of the above nature which will be especially adapted for use on the straps of shoes, gloves and the like to permit said straps to be readily adjusted.

A further object is to provide a buckle slide of the above nature having a frame provided with a central cross-bar, slotted and shaped to resiliently lock upon a post member.

A further object is to provide a buckle slide of the above nature having a plurality of projecting barbs for engaging the strap to reduce the stresses upon the buckle slide and prevent slippage.

A further object is to provide a buckle slide of the above nature which may be securely mounted in adjustable position upon a strap without the use of unsightly attaching staples or stitches.

A further object is to provide a device of the above nature which will be simple in construction, inexpensive to manufacture, easy to install and manipulate, ornamental in appearance, and very efficient and durable in use.

With these and other objects in view there have been illustrated on the accompanying drawings three forms in which the invention may be conveniently embodied in practice.

In the drawings:

Fig. 1 represents a perspective view of the preferred form of the buckle slide embodying the invention.

Fig. 2 is a plan view of the same.

Fig. 3 is a side sectional view of the same, taken along the line 3—3 of Fig. 2 looking in the direction of the arrows, and illustrating a cooperating post member in alined position beneath the buckle slide, preparatory to assembly.

Fig. 4 is a plan view of a modified form of the invention.

Fig. 5 is a side sectional view, taken along the line 5—5 of Fig. 4, and showing a post member beneath the buckle slide.

Fig. 6 is a plan view of another modified form of buckle slide.

Fig. 7 is a sectional view taken along the line 7—7 of Fig. 6 and also showing a post member in alined position.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numeral 10 indicates the body frame of the preferred form of buckle slide, said body having a pair of end strap-receiving openings 11 and 12 formed therein. The central part of the body 10 has a slot 13 extending inwardly from one side thereof and terminating in a short neck 14 forming a pair of cross bar sections 15 and 16. As clearly shown in Figs. 1, 2, and 3, the cross bars 14 and 15 are offset downwardly at their central portions 16a and 17 out of the plane of the frame 10, and the inner edges of said portions 16a and 17 are provided with opposed semi-circular recesses 18 and 19 which are adapted to be spread apart and resiliently snapped over a post 20 of a post member 21 when said buckle slide is pressed down upon said post.

The frame 10 is adapted to be adjustably supported upon a strap 22 which is threaded through the openings 11 and 12 thereof, while the post member 21 is permanently secured upon a strap 22a, as shown in Fig. 3. The buckle slide is adapted to be securely held against longitudinal slippage by two pairs of upwardly extending barbs 23 and 24 located on the outer sides of the cross bars 14 and 15. It will thus be seen that the strap 22 will be gripped by the slide at both sides of the slot 13, and that the pulling forces upon the strap will be partially taken up by said strap, so that the stress exerted at the narrow neck 14 on the unslotted side of the frame 10 will be reduced to the minimum.

One advantage of the offset construction of the bars 14 and 15 is that the buckle slide may be more easily snapped over the post member 21 than would otherwise be the case. In other words, when this operation is performed by hand, the thumb of the user will not obstruct

the passage of the post 20 up through the central aperture between the recesses 18 and 19.

In the modified form of the invention shown in Figs. 4 and 5, the body frame 25 of the buckle slide has a central cross bar 26 provided with a pair of resilient post-engaging tongues 27 and 28 bent downwardly and inwardly therefrom. This slide is formed by first shearing a pair of U-shaped slits in the outer portions of the frame 25 prior to bending down the tongues 27 and 28 therefrom. In making the shearing slits above mentioned, a pair of curved ears 29 and 30 will preferably be left in the end bars 31 and 32 of the buckle frame 25, thereby producing a pair of opposed recesses 33 and 34 in the adjacent inner edges of the bent-under tongues 27 and 28.

The ears 29 and 30 are preferably downwardly inclined so as to engage with a strap 35 to prevent slippage. By means of this construction it will be seen that the tongues 27 and 28 will yield resiliently in an outward direction and when forced downwardly will snap down over the post 36 of the post member 37 mounted on a strap 38.

In the modified form of the invention shown in Figs. 6 and 7 the construction of buckle slide is identical with that shown in Figs. 1 to 3 with the exception that the central cross bars 39 and 40 of the body frame 41 are not offset, but are flat and located in the plane of the frame. This form of buckle slide may be made at a somewhat less cost than the first two illustrated forms, and a more compact construction is thereby produced.

While there have been disclosed in this specification three forms in which the invention may be embodied, it is to be understood that these forms are shown for the purpose of illustration only, and that the invention is not to be limited to the specific disclosures but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the scope of the following claims.

Having thus fully described the invention, what is claimed as new, and for which it is desired to secure Letters Patent, is:

1. In a snap buckle slide, a body member having a pair of integral resiliently-connected apertured strap-receiving end sections, a recessed slot being left between said end sections and being adapted to detachably snap over a cooperating post member, the recess in said slot being located at the center of said slot.

2. In a snap buckle slide, a body member having resiliently-connected apertured strap-receiving end sections with an open side slot therebetween, the inner sides of said sections being recessed and offset downwardly to detachably snap over a cooperating post member, the recess in said slot being located at the center of said slot.

3. In a snap buckle slide, a one-piece body member having a cross bar and a pair of end strap-receiving openings, said cross bar having an open slot extending thereinto from one side thereof to a point adjacent the other side thereof, said slot having opposed recesses at the center of said cross bar to snap upon a post member when pressed down thereon.

4. In a snap buckle slide, a one-piece body member having a pair of integral resiliently connected strap-receiving end sections and a cross bar, said cross bar having an open slot extending thereinto from one side thereof to a point adjacent the other side thereof, said slot having opposed recesses at the center of said cross bar to detachably snap upon a post member when pressed down thereon.

5. In a snap buckle slide, a body member having a pair of integral resiliently connected end sections, an open side slot being left between said sections to snap over a cooperating post member, said slide having a plurality of non-slipping projections adapted to engage a strap threaded through said slide, said slot extending from one side of said body member to a point adjacent the opposite side thereof.

In testimony whereof, I have affixed my signature to this specification.

THEODORE RUSSELL.