March 31, 1931. G. JOHNSON ET AL 1,798,677

SNAP FASTENER SLIDE MEMBER

Filed May 31, 1930

Fig. 1.

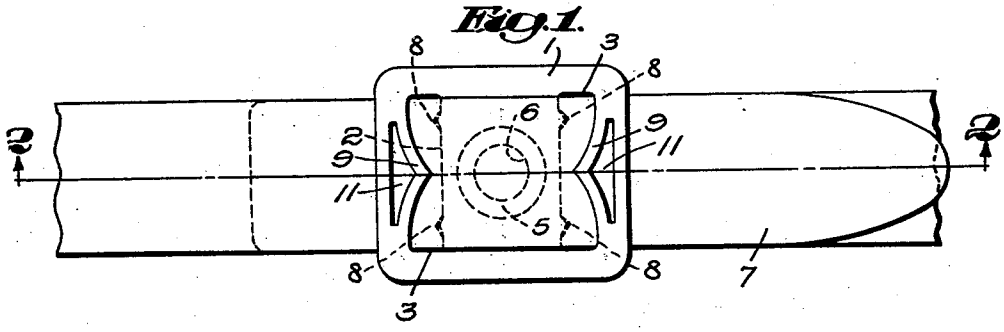


Fig. 2.

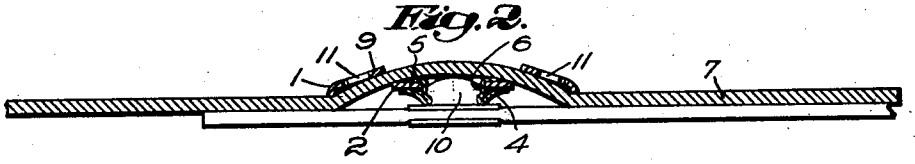


Fig. 3.

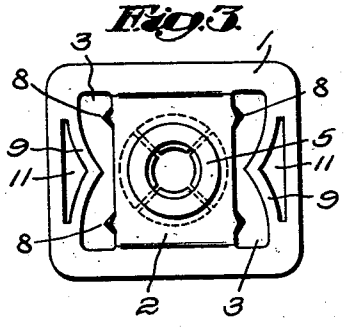
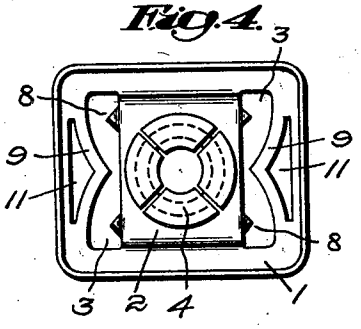


Fig. 4.



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Patented Mar. 31, 1931

1,798,677

UNITED STATES PATENT OFFICE

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SNAP FASTENER SLIDE MEMBER

Application filed May 31, 1930. Serial No. 458,109.

Our invention aims to provide improvements in separable snap fasteners and is directed particularly to a snap fastener slide member.

In the drawings which illustrate a preferred embodiment of our invention:

Figure 1 is a plan view of a snap fastener attached to a strap;

Fig. 2 is a section taken on the line 2—2 of Figure 1, the lower portion of the strap and the fastener attached thereto being shown in elevation;

Fig. 3 is a top plan view of the slide member of the snap fastener; and

Fig. 4 is a bottom plan view of the slide member.

The particular embodiment of our invention illustrated by the drawings comprises a snap fastener socket member in the form of a buckle slide adapted for use on straps of overshoes, gloves and the like.

Any suitably shaped plate member may be used according to the design desired and the construction of the plate may vary. However, we have shown a rectangular shaped plate 1 having a central crossbar 2 at each side of which is a slot 3, as shown in Figs. 3 and 4. The central crossbar 2 is apertured in the center and a snap fastener socket member 4 (Fig. 2) is attached to the crossbar by means of a tubular rivet 5. The rivet extends from the socket member 4 through the aperture 6 in the bar 2 and has its free end portion bent outwardly and downwardly against that face of the crossbar 2 which is against the strap 7. Because the rivet 5 is initially provided with an open end the upset portion is only of a single thickness and, therefore, does not to any extent prevent the strap 7 from lying in a smooth manner where it passes over the crossbar 2. An upset closed end rivet tends to space the strap a substantial distance from the crossbar, because of the extra thickness and thereby wrinkles the material of the strap and mars the appearance of the installation.

Our invention is also directed to an improved means for holding the plate 1 in position upon a strap so that it cannot slip, but which does not prevent moving the plate for adjustment when desirable. In carrying out this part of our invention, we have provided two widely separated sharp pointed prongs 8 at each edge of the crossbar 2 (Figs. 3 and 4) for engagement with the strap 7. While the use of such prongs 8 is old, we believe that no one has contemplated the use of yieldable portions 9—9 formed integral with the plate at those edges of the slots 3—3 opposite the edges where the prongs 8 are located for cooperation with the prongs. Those yieldable portions 9 are located in a plane above the plane of the crossbar 2 and are adapted to press upon the strap 7 where it passes through the slots (Fig. 2) to force the prongs 8 into the material and hold the strap in engagement therewith when the plate has been moved to a desired position. Thus lateral stress exerted upon the strap cannot move it relative to the plate when the fastener is engaged with the stud member 10.

The yieldable portions 9—9 are made substantially as wide as the spaces between the pointed prongs 8 to exert an even pressure throughout substantially the entire width of the strap. The yieldable portions 9—9 project into the slots 3—3 and are made resilient by means of the cut-out portions 11, as shown in Fig. 3.

While we have illustrated and described a preferred embodiment of our invention we do not wish to be limited thereto because the scope thereof is best illustrated and described in the following claims.

Claims:

1. A snap fastener member comprising a plate having a central crossbar and slots located at the sides of the crossbar, a snap fastener element carried by said crossbar, prong

means located on said plate adjacent to one edge of one of said slots and a spring tongue located on said plate adjacent to the same slot as said prong means, said spring tongue being adapted to press a strap or the like against said prong means.

2. A snap fastener member comprising a plate having a central crossbar and slots located at the sides of the crossbar, a snap fastener element carried by said crossbar, prong means located on said plate adjacent to one edge of one of said slots and a spring tongue located on said plate adjacent to the same slot at the opposite side from said prong means, said spring tongue being adapted to press a strap or the like against said prong means.

3. A snap fastener member comprising a plate having a central crossbar and slots located at the sides of the crossbar, a snap fastener element carried by said crossbar, prong means located on said plate adjacent to one edge of one of said slots, a spring tongue located on said plate adjacent to the same slot at the opposite side from said prong means, said spring tongue being adapted to press a strap or the like against said prong means and a similar tongue and prong means located on said plate adjacent to the other slot.

4. A snap fastener member comprising a plate having a central crossbar and slots located at the sides of the crossbar, a snap fastener element carried by said crossbar, prong means located on said plate adjacent to one edge of one of said slots and a spring tongue located on said plate adjacent to the same slot as said prong means, said spring tongue being adapted to press a strap or the like against said prong means, said prong means comprising two widely spaced sharp pointed projections and said spring tongue being presented between said projections.

5. A snap fastener member comprising a plate having a central crossbar and slots located at the sides of the crossbar, a snap fastener element carried by said crossbar, prong means located on said plate adjacent to one edge of one of said slots and a spring tongue located on said plate adjacent to the same slot at the opposite side from said prong means, said spring tongue being adapted to press a strap or the like against said prong means and said plate being apertured between said spring tongue and the edge of the plate to add resiliency to said spring tongue.

6. A slide member of a snap fastener buckle device having a crossbar apertured to permit attachment of a snap fastener member thereto, a snap fastener element presented at that side of the crossbar which is opposite the side which engages a strap or the like and a tubular open-ended rivet means extending from said snap fastener element through the aperture in the crossbar and having a portion thereof adjacent to the open end bent outwardly and downwardly against the crossbar at that side of the crossbar opposite to the snap fastener element to present only a single thickness of metal above the surface of the crossbar and spring tongue means adapted to press a strap into close contact with the upset end of said rivet means and said crossbar.

In testimony whereof, we have signed our names to this specification.

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