April 15, 1941. S. ROSENTHAL 2,238,823

SLIDER FOR SLIDE FASTENERS

Filed March 7, 1940

Fig. 1.

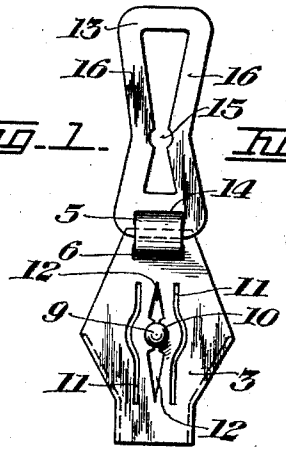


Fig. 4.

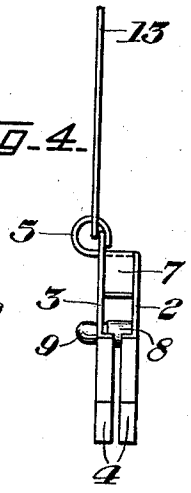


Fig. 6.

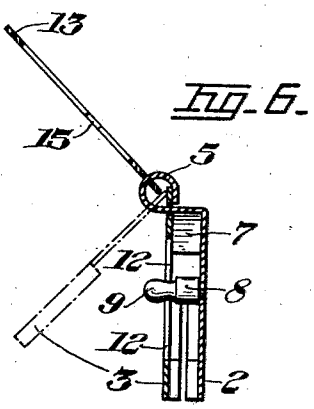


Fig. 2.

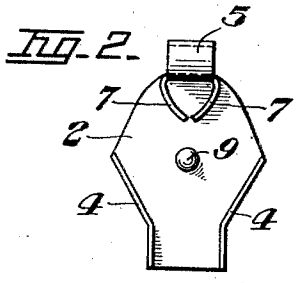


Fig. 5.

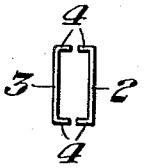


Fig. 7.

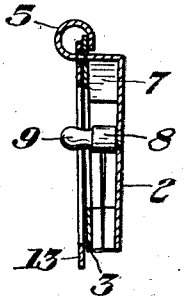


Fig. 3.

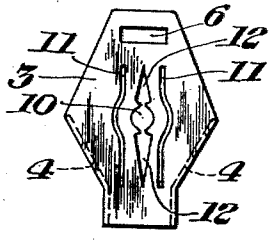
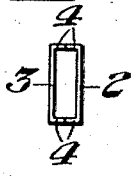


Fig. 8.



INVENTOR,
SIMON ROSENTHAL.

BY [signature]
Attorney.

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UNITED STATES PATENT OFFICE

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SLIDER FOR SLIDE FASTENERS

Simon Rosenthal, Homestead, Pa.

Application March 7, 1940, Serial No. 322,817

6 Claims. (Cl. 24—205.5)

This invention relates to improvements in sliders for slide fasteners of the well-known type wherein a plurality of interlocking elements carried by a pair of tapes are engaged or disengaged by movement of the slider along the elements longitudinally of the tapes.

It is an object of the present invention to provide a simplified separable slider which may be readily applied to or removed from the fastener.

A further object is to provide in such a slider, a locking construction by which the fastener may be locked in closed position.

Additional objects and advantages will become apparent from the following description taken in connection with the accompanying drawing, wherein:

Fig. 1 is a plan view of the slider of my invention;

Fig. 2 is a plan view of the base member thereof;

Fig. 3 is a plan view of the top member thereof;

Fig. 4 is a side view of Fig. 1;

Fig. 5 is an end view of Fig. 4, showing the slider members in normal position;

Fig. 6 is a longitudinal sectional view of the slider;

Fig. 7 is a view similar to Fig. 6, showing the slider in locking position; and

Fig. 8 is an end view of Fig. 7.

Referring to the drawing, my improved slider includes a base member 2 and a top or front member 3 of similar outline, each having lateral edge flanges 4 defining a Y-shaped channel within the slider when the members 2 and 3 are in superimposed relation.

In order that the slider may be readily applied to or removed from the fastener without the customary threading operation formerly made necessary by the one-piece or solid form of slider, I prefer to hinge the members 2 and 3 together at one end of the slider. Hence, an end of the member 2 is extended and looped to form an eye or bearing 5, and the corresponding end of the member 3 is slotted at 6 to provide a hinge connection between said members for pivoting the members about an axis transversely of the sliding movement thereof along the fastener.

As a further feature of my invention, I provide a pair of integral arms or flanges 7 on the member 2 adjacent the hinge part 5, which flanges form an abutment between the members 2 and 3 serving as a spacer between said members when applied to the fastener.

For separably connecting the hinged members 2 and 3, I prefer to employ a frictional lock generally known as a snap, which securing means is incorporated in the slider parts in the following manner. A post or male member 8 is secured as by riveting to the base member 2, said post being centrally located and having a rounded and necked terminal 9 extending toward the member 3.

The top member 3 is centrally apertured at 10 for frictionally engaging the snap terminal 9, and the metal of the member 3 is slotted on either side of the opening 10 as at 11, and also by slots 12 intersecting the opening 10 and extending between the slots 11. The slots 11 and 12 provide resilient strips therebetween, providing with the aperture 10, a resilient socket attachment or female member for removably engaging the post terminal 9, securing members 2 and 3 together in proper relation.

By locating the post member 8 centrally between the flanges 4 forming the Y-shaped channel, as shown in Fig. 2, said post functions as a separator for the interlocking elements of the fastener upon movement of the slider along the closed fastener.

The necked portion of the terminal 9 together with the abutment 7, provide for proper alinement of the members 2 and 3, when connected upon the fastener. If it is desired to remove the slider, the user may pry the members 2 and 3 apart to disengage the snap connection 9—10, the members then being pivotally separable about the hinge 5—6.

It will be noted that when the slider is assembled as stated, the head 9 of the post 8 and abutment 7 normally separate the members 2 and 3 so that their flanges 4 are spaced as in Figs. 4, 5 and 6 to be freely slidable along and over the usual tapes of the fastener. However, I desire to provide for selective locking of the present slider on the fastener tapes in the following manner.

13 designates a pull member or handle for the slider, which pull is hinged to the eye or member 5 as by a transverse slot 14. Member 13 likewise is provided with a central aperture 15 formed between spaced resilient side members 16, the said members and aperture providing a resilient socket for engagement with the head 9 of the post 8.

By engagement of the pull member 13 with the post 8 as shown in Fig. 7, the thickness of the metal of the member 13 will displace the slider member 3 toward its complemental member 2, thereby urging their flanges 4 together for pressure clamping engagement with the fastener tapes therebetween. In this manner, the slider

may be actuated to lock the fastener at any desired point throughout its extent, and upon freeing the pull member 13 from the post terminal 9, the said pull member may be utilized for sliding the slider on the fastener.

It will therefore be seen that I have provided a slider construction which is readily and economically constructed, and one which is simple and positive in operation.

While I have shown but one embodiment of my invention, it will be understood that various changes and modifications are contemplated within the scope of the following claims.

What I claim as my invention is:

1. A slider for slide fasteners including a pair of hinged members, and coacting frictional snap means centrally of the members for removably securing said members together, said means including a post on one member and a resilient socket formed in the other member for engaging said post, said post being disposed centrally of its member and constructed for separating the slide fastener elements.

2. A slider for slide fasteners including a pair of hinged members, one of said members having a post extending toward the other, said other member having a central aperture and slots adjacent thereto providing a resilient socket for removably engaging the headed post, said post being disposed centrally of its member and constructed for separating the slide fastener elements.

3. A slider for slide fasteners including a pair of hinged members, one of said members having a post extending toward the other, said other member having a central aperture and slots adjacent thereto providing a resilient socket for removably engaging the post, and means on one of the members spaced from the post and socket and operable therewith to space said members apart, said post being disposed centrally of its member and constructed for separating the slide fastener elements.

4. A slider for slide fasteners including a base member having an integral extension at one end thereof forming a hinge part, integral portions adjacent the hinge part disposed upright from the member forming a spacing abutment, a top member pivotally engaging said hinge part, one of said members having a post extending toward the other, said other member having an aperture and slots adjacent thereto providing a resilient socket for removably engaging the post, said post and socket and abutment spacing the slider members apart, said post being centrally positioned on its member and constructed to extend between and separate the slide fastener elements.

5. A slider for slide fasteners including a pair of hinged members, one of said members having a central post extending toward the other, said other member having a central aperture and slots adjacent thereto providing a resilient socket for removably engaging the post, and a pivoted pull member having a resilient socket for engaging the post atop the apertured slider member whereby the latter is displaced toward the other slider member for locking the slider in place, said post being centrally positioned on its member and constructed to extend between and separate the slide fastener elements.

6. A slider for slide fasteners including a base member having an integral extension at one end thereof forming a hinge part, a top member pivotally engaging the hinge part, one of said members having a post extending toward the other, said other member having an aperture and slots adjacent thereto providing a resilient socket for removably engaging the post, and a pull member pivotally engaging the hinge part and having a resilient socket for engaging the post atop the apertured slide member, whereby the latter is displaced toward the other slider member for locking the slider in place, said post being centrally positioned on its member and constructed to extend between and separate the slide fastener elements.

SIMON ROSENTHAL.