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SLIDER FOR SEPARABLE FASTENER'S

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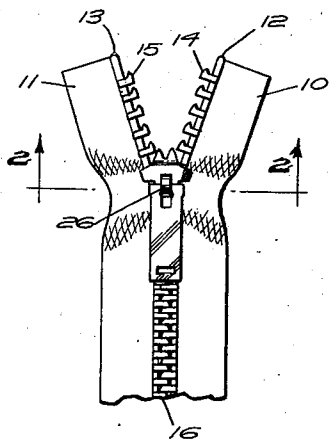


Fig. 1

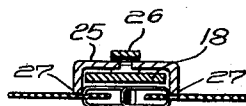


Fig. 2

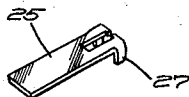


Fig. 3

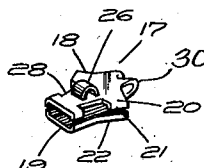


Fig. 4

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SLIDER FOR SEPARABLE FASTENERS

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4 Claims. (Cl. 24-205.5)

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This invention relates to a separable fastener, more particularly to the slide for operating fasteners of this type.

Sliders for separable fasteners may move along the separable fasteners due to strains placed on the separable fasteners after separated or through other causes and it is desirable to lock a slider on the separable fasteners in some position along the stringers on which the fasteners are positioned. Various means of applying pressure on one or the other of the fasteners or by use of a projection extending between the fasteners have been attempted. Usually these constructions are expensive to produce and require precision formation.

One of the objects of this invention is to provide a simple and inexpensive lock for a slider to prevent the slider from movement along the fasteners.

Another object of this invention is to provide a lock for applying pressure in such a direction that a firm support is provided and considerable pressure may be applied in order to frictionally lock the slider in position.

More specifically an object of the invention is to apply pressure on the sliders forcing the sliders toward each other when in locked position and at the same time locking the slider.

Another object of the invention is to release this locking means when the pull tab is lifted for actuation of the slider along the fasteners.

With these and other objects in view, the invention consists of certain novel features of construction, as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings:

Fig. 1 is a top plan view of separable fasteners and a slider positioned thereon of the construction of this invention;

Fig. 2 is a sectional view on line 2-2 of Fig. 1 on an enlarged scale with the bottom plate omitted;

Fig. 3 is a perspective view of the pull tab showing the locking means as provided thereon; and

Fig. 4 is a perspective view of the slider with the pull tab detached.

In proceeding with this invention I have modified the slider for separable fasteners by cutting away a portion to permit the locking means carried by the pull tab to extend through the cut-away portion of the slider to engage the separable fasteners for holding the same in locked position. I have cut away one of the plates of the slider adjacent its edges and provide spaced fingers on the pull tab so that when the tab is

placed in position to parallel the sliders the fingers will extend through the cut-away portions and engage the outer ends of the fasteners to force the fasteners toward each other into firm engaging position and thus by reason of this frictional grip on the fasteners the slider will not move along the fasteners.

With reference to the drawings, 10 designates one part and 11 another part of some garment or material which it is desired shall be separably connected together. A stringer 12 is sewed onto the part 10 and a stringer 13 sewed onto part 11. Each of these have clamped upon them, separable fasteners 14 with interlocking ends 15 so as to inter-engage as at 16 shown in Fig. 1.

A slider designated generally 17 and shown in perspective in Fig. 4 consists of a pair of plates, the top plate being designated 18 and the bottom plate designated 19, which plates are held together through means of a post or neck 30 which serves as a separator and guide for the fasteners 14 to move them from locking position. This slider is flared outwardly at its upper end as at 20 so as to accommodate the separated portions of the fasteners after the slide has been moved along them. Flanges 21 and 22 are provided on these plates for the guiding of the fasteners through the slider.

A pull tab 25 is hingedly attached to the slider 17, such for instance as by means of raised stock 26 of the plate 18 to receive portions of the pull tab 25 in the eye so raised therefrom.

The pull tab 25 is provided with a pair of fingers 27 of a longitudinal extent greater than the similar dimension of the fasteners as shown in Fig. 1, and so located that they will pass through cut outs 28 in the flanges and top plate of the slider 17 so that as this pull tab 25 is swung downwardly on its hinge 26 the fingers 27 will move through the recesses 28 and engage the ends of the fasteners 14 (see Fig. 2) and these fingers 27 will be of such distance apart that as they engage the ends of the fasteners the fingers will spread slightly so that their inherent tendency to return to their normal position will force the fasteners toward each other and as this engagement is at a location where they are locked one with the other the fingers will apply a considerable amount of friction on the fasteners and will hold the slider firmly in position.

The fingers on the pull tab will be in locking position when the pull tab is as shown in Fig. 1 located against the slider and parallel to the fasteners, while when this pull tab is swung outwardly about its hinge 26 the fingers will be lifted

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from engagement with the fasteners and thus will permit the slider to be free in its movement along the fasteners in opening and closing the same.

I claim:

1. A slider for a slide fastener of the type which includes a pair of stringers having rows of spaced interlocking fasteners along their longitudinal edges, comprising in combination a pair of plates spaced to receive the interlocking fasteners, a pull tab hinged upon one plate, a pair of oppositely disposed fingers on said tab spaced a distance less than the overall distance between the ends of said fasteners when interlocked and wider than the space between two adjacent interlocking fasteners to yieldingly engage the ends of said opposed fasteners when the tab is in locking position and exert a binding effect.

2. A slider as set forth in claim 1 wherein said plate upon which said tab is hinged is notched at its outer edges to expose the ends of said fasteners at a location through which said fingers move.

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3. A slider as set forth in claim 1 wherein said plate upon which said tab is hinged is notched at its outer edges to expose the ends of said fasteners adjacent the hinge connection and said fingers are adjacent the hinge connection.

4. A slider as set forth in claim 1 wherein said fingers are of a longitudinal extent greater than one of said fasteners.

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