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2,166,581

SLIDER LOCK

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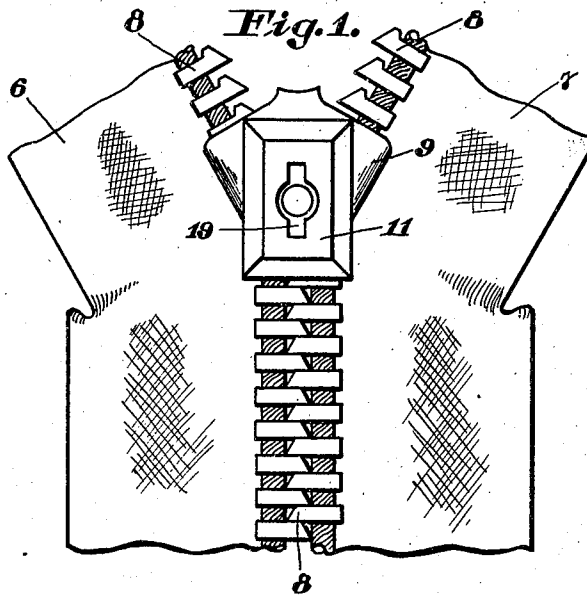
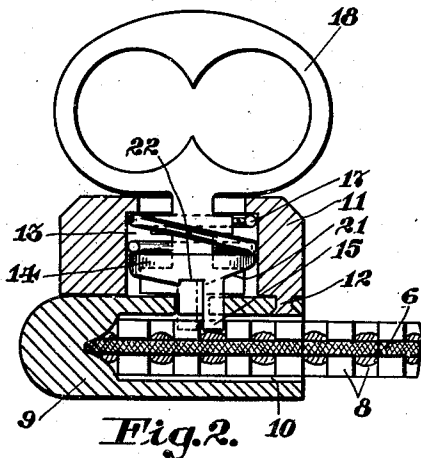
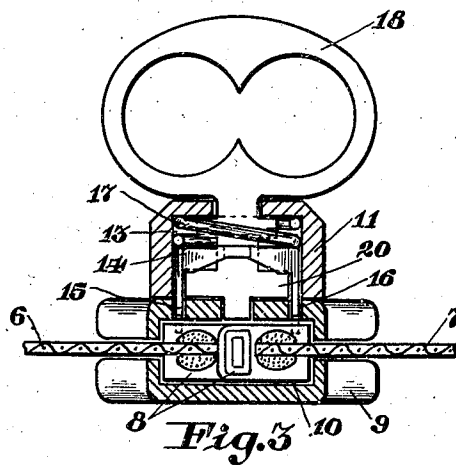
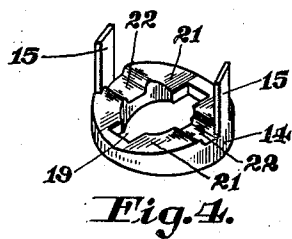
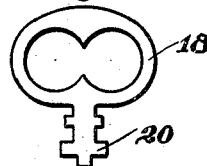


Fig. 5.



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UNITED STATES PATENT OFFICE

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SLIDER LOCK

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7 Claims. (Cl. 70-68)

My invention relates to slide fasteners, and particularly to an improved slider lock to prevent pilfering or unauthorized use of bags equipped with slide fasteners.

It is the object of my invention to provide a simplified and improved lock mechanism for a slider which will be effective in use.

Various locks for the sliders of slide fasteners have been proposed, and some of them have been used to some extent on cash bags, brief cases, and the like. In many of the locks heretofore used and proposed, the lock mechanism was attached to the bag or other article and the slider carried a pivoted hasp or similar means for engaging in the lock. There was a flexible connection between the actual lock mechanism and the slider, which afforded an opportunity for slipping the fastener stringers through the slider and allowing unauthorized opening of the fastener.

According to my invention, a lock mechanism is rigidly secured directly to the slider body so that the slider itself is directly locked to the fastener members inside the slider channel. This gives no opportunity for any kind of manipulation except actual destruction of the fastener or lock.

In the accompanying drawing, I have shown for purposes of illustration, one embodiment which my invention may assume in practice. In this drawing:

Fig. 1 is a partial plan view of a slide fastener made according to my invention;

Fig. 2 is a longitudinal central section showing the locking member in the locked position;

Fig. 3 is a cross-section showing the locking member in the unlocked position;

Fig. 4 is a perspective view of the movable locking member; and

Fig. 5 shows the key.

The fastener illustrated is of a conventional type comprising stringers 6, 7 having interlocking members 8 on their adjacent edges. The slider which may be of any known form, comprises a body 9, having an interior Y-shaped channel 10 extending through the slider body for receiving the interlocking members. The shape of the slider channel and operation of the interlocking members in passing through the slider is well understood and will not be further described.

The lock mechanism comprises a housing 11 rigidly secured to the front face of the slider body by any suitable means, such as riveting devices indicated at 12. The lock housing has an interior recess 13 in which is movably mounted the locking member 14. This member as shown in an inverted position in Fig. 4, may be in the general

form of a circular disk having one or more locking pins 15 extending downwardly through suitable openings 16 in the slider body, and movable into a position between the interlocking members, as shown in Fig. 2, and in dotted lines in Fig. 3. These locking pins thus effectively block the slider channel and prevent any movement of the slider. A small coil spring 17 may be used for urging the locking member into locking position. The key 18 has a suitable finger engaging portion and a stem extending into the housing through the slot 19 in the locking member. The cross arm 20 of the key is adapted to pass through the slot when the key is inserted and when the key is turned, it rides up over the inclined surfaces 21 of the locking member and preferably rests in notches 22. In this operation, the locking member is lifted to unlocked position and the key snaps into the notches 22. It can then be used as a pull for operating the slider along the fastener stringers. It is more or less steadied by resting in the notches 22 but it can be easily moved out of these notches by twisting the key when it is desired to lock the slider, and remove the key.

It will be understood that I have illustrated only one simple type of lock mechanism and that any suitable locking mechanism may be substituted therefor.

My invention provides a compact lock mechanism for a slider which is simple to make and which can be used in the place of the regular pull tab on the slider.

While I have shown and described in this application, one embodiment which my invention may assume in practice, it will be understood that this embodiment is merely for the purposes of illustration and description, and that various other forms may be devised within the scope of my invention as defined in the appended claims.

What I claim as my invention is:

1. A slider for slide fasteners of the type having a pair of flexible stringers and interlocking members, comprising a slider body having a guide channel to receive said interlocking members, a lock housing attached directly to the front face of the slider body, a locking member wholly within said housing and adapted to enter the channel and engage between interlocking members, and means separate from the locking member and extending through the housing for manually controlling the operation of said locking member to lock or unlock the slider, said means also serving as a pull tab for the slider when unlocked.

2. A slider for slide fasteners of the type having flexible stringers and interlocking members on

the stringers, comprising a slider body having a channel to receive the interlocking members, a lock housing rigidly secured to the front face of the slider body and having lock mechanism enclosed thereby including a movable member having pins adapted to enter the slider channel and engage between interlocking members, and a key removable from said housing for controlling the lock mechanism adapted also to serve as a slider pull when the slider is unlocked.

3. A slider for slide fasteners comprising a slider body having a guide channel to receive interlocking members, and a lock mechanism for locking the slider on said interlocking members including a housing immovably secured to the front face of the slider body, a relatively movable locking member enclosed within said housing adapted in one position to have locking engagement with the interlocking members within the slider channel and in another position to be disengaged from said interlocking members, and a lock controlling member separate from said locking member and projecting through said housing.

4. A slider for slide fasteners comprising a slider body having a guide channel to receive interlocking members and a key controlled lock mechanism for locking the slider on said interlocking members, comprising a housing immovably secured to the front face of said slider body and a relatively movable locking member enclosed within said housing having a pin adapted to enter the slider for blocking said channel in one position, and said locking member having means within said housing cooperable with a key which may be inserted into said housing to move said locking

member outwardly from said slider channel to release the slider.

5. A slider for slide fasteners of the class described, comprising a slider body having a channel to receive the interlocking members and a lock mechanism rigidly secured to the slider comprising a locking member movable relatively to the slider and having means projecting into the slider channel to engage or disengage the members in the different positions of the locking member, a spring for normally holding said locking member in locked position, a lock controlling member, said lock controlling member and locking member having cooperable engaging portions for positively moving said locking member to released position.

6. A slider for slide fasteners of the class described, comprising a channel to receive the interlocking members, a lock housing rigidly secured to the slider body, a locking member movable within said housing to locked and unlocked position, said locking member having a cam and a lock controlling member with a cooperating cam engaging portion, said lock controlling member projecting from said housing and having means for manual operation to cause positive release of said locking member.

7. A locking device for multiple fasteners, including a slider body, a casing forming part of the slider body, a locking projection mounted in the casing adapted to penetrate between adjacent fastener elements, and key-operated means slidable in the casing for moving the projection into such locking relationship, said key-operated means including a spring-pressed cam element.

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