Aug. 20, 1940. J. H. ARTHUR 2,212,362

SLIDE CLOSURE

Filed May 19, 1939

Fig. 1.

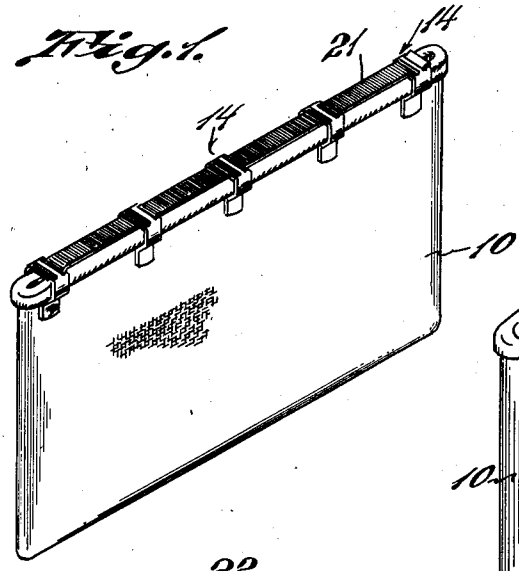



Fig. 2.

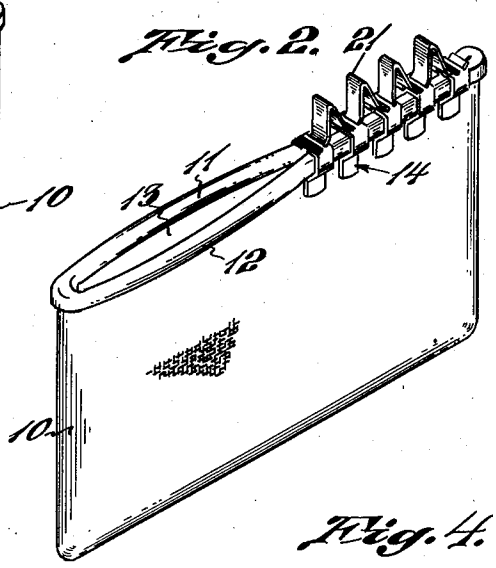



Fig. 3.

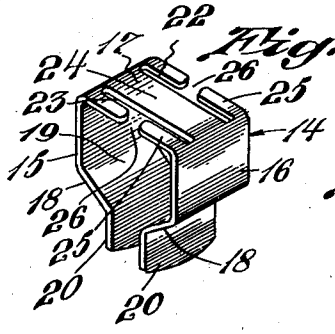



Fig. 4.

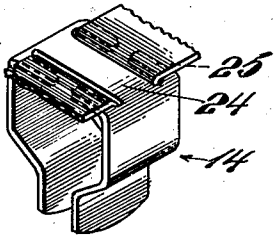



Fig. 5.

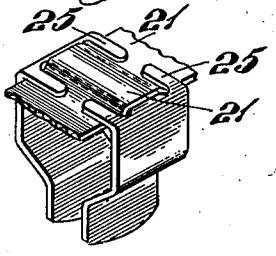
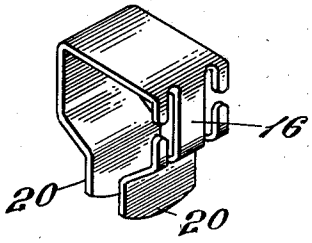



Fig. 6.




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2,212,362

# UNITED STATES PATENT OFFICE

2,212,362

## SLIDE CLOSURE

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Application May 19, 1939, Serial No. 274,497

1 Claim. (Cl. 24—207)

This invention relates to a closure device to be used in conjunction with other similar devices for sliding along an opening in clothing or the like or for closing purses, pouches or bags, the device being used in connection with a flexible element connecting a plurality of the devices together.

One of the objects of this invention is to provide a more simple form of connection between the slide closure and the flexible member to which it is to be attached.

Another object of the invention is to provide a means of attachment of the closure member to the flexible element by merely shaping the closure member such, for instance, as the forming of slots or the like therein.

Another object of the invention is to provide for the attachment of a ribbon-like flexible element to the closure member without the necessity of threading the end of the ribbon-like element thru slots in the closure member.

Another object of the invention is to provide such a fastening to the flexible element that it may be located at different positions on the closure members so as to provide some optional arrangement for the operating of closure members in different desired locations.

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 claim.

In the accompanying drawing:

Fig. 1 is a perspective view of a tobacco pouch or small pocket article equipped with my invention, the article being shown in closed position.

Fig. 2 is a view similar to Fig. 1 but showing the slide closures as moved so as to permit opening of the tobacco pouch.

Fig. 3 is a perspective view of one of the closure members alone.

Fig. 4 is a perspective view showing a fragmental portion of a ribbon-like element threaded thru the slots provided in the closure member.

Fig. 5 is a view similar to Fig. 4 but illustrating a different threading of the ribbon into the closure member.

Fig. 6 is a perspective view of a closure member showing the fastening arrangement located on the side instead of on the top of the member.

In the use of slide closure members for holding the opposite edges of fabric or leather together each of the members is attached to a flexible element such as a ribbon, cord or the like so that when the end closure member is moved to position other closure members will trail along and be moved to their respective closing positions. Frequently it is required that the flexible element which may be a chain, cord, ribbon or the like, be threaded thru some opening or require some rather heavy press operation to attach the flexible member in position and in order to simplify the attachment of the flexible member and also to provide an extremely simple form of closure member, I have formed sheet stock into generally U-shape of a size to embrace the opposite rib or bead edges of the material which provides for the opposite edges of the opening and slotted the closure member in locations convenient for the positioning of a ribbon in the slots and over and under the bars formed by the slots so that attachment of the flexible element such as a ribbon to the slide closure may be had without the necessity of threading the end of the flexible element thru the slots, and the following is a more detailed description of the present embodiment of this invention, illustrating the preferred means by which these advantageous results may be accomplished.

With reference to the drawing, 10 designates a tobacco pouch, altho it will be understood that this invention may apply to various other and sundry articles. The opposite upper edges 11 and 12 of this pouch are provided with enlarged beaded-like portions which serve to somewhat stiffen the edges of the pouch, the opening 13 of which is to be closed. Several closure members 14 are mounted upon the opposite edges 11 and 12 of the pouch and are of such shape that they may slide along these opposite bead edges and be guided thereby.

Generally the shape of each of the closure members is that of an inverted U. Opposite walls 15 and 16 are provided which are connected at their top by a bridge portion 17. These walls 15 and 16 incline inwardly as at 18 so as to provide a sufficient space between the walls 15 and 16 and the top 17 for the reception of both of the bead edges 11 and 12 of the pouch but when such bead edges are located within this space designated generally 19 the edges will be held in engagement, one with the other, to cause a closure of the opening. Each of these walls beyond the interned portion 18 extends downwardly again in parallel relation as at 20, the distance between the portions 20 being substantially the thickness of the material of the pouch just beneath the bead edges.

A plurality of these slide closures 14 are located along the beaded edges 11 and 12 of the tobacco pouch or their opening which is to be

closed at such spaced intervals as may be necessary to provide the necessary holding of the parts together to close the opening. A flexible element 21 extends along the edge of the opening and is connected at the desired spaced intervals where the slide closure members are located firmly to the flexible element. This flexible element may be of various materials such, for instance, as a cord, chains or as shown in this particular illustration of a ribbon, the form here shown being particularly adapted for use with a ribbon like element or some element having substantial width and materially less thickness.

In order to provide a suitable attachment for a flexible element of this character I have provided slots 22 and 23 in the bridge portion of the member 17. These slots are located transversely of the direction of sliding movement which the member is to have along the opening and form bar like portions 24 in the center and broken bars 25 at either side thereof, these broken bars being in effect fingers extending inwardly from the opposite sides toward each other and spaced apart as at 26, or in other words there may be a slot 26 connecting the outside with the slot 22 or 23. A similar arrangement may be located in the side wall 16 as shown in Fig. 6.

This enables the ribbon like element 21 to be tucked beneath the fingers 25 as shown in Fig. 5 with the ribbon extending over the bar 24, or the ribbon may be tucked from beneath the member 14 so as to extend over the fingers 25 and beneath the bar 24 as shown in Fig. 4. In either arrangement the ribbon is so sharply flexed as to maintain its firm engagement with the slide 14 when located in this position of being woven in one slot and out thru the other.

The slots which I provide, 22 and 23, may be of varying widths for the accommodation of material of varying thicknesses. If, however, the slots are of a width greater than the thickness of the material it is a simple matter to apply a press to the opposite edges of the member 14 to move the finger 25 inwardly to close these slots and if any severe pull is going to be exerted the fingers may be bent onto the ribbon after the ribbon is inserted whereby to obtain a firmer engagement therewith.

The foregoing description is directed solely towards the construction illustrated, but I desire it to be understood that I reserve the privilege of resorting to all the mechanical changes to which the device is susceptible, the invention being defined and limited only by the terms of the appended claim.

I claim:

A slide closure member for slidably receiving the opposite edges of a container for closure of the same comprising a strip of sheet stock disposed in generally U shape with spaced flat walls connected by a flat bridge wall at one end, converging portions at the other end of said spaced walls terminating in downwardly extending arms, one of said flat walls being provided with spaced slots extending lengthwise of the U strip of stock and providing three separated sections, the outer sections being spaced to provide oppositely extending fingers for the reception through said spaces and into said slots of a flat flexible ribbon-like connecting element.

JAMES H. ARTHUR.