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2,497,740

PULL FOR SLIDE FASTENERS

Filed June 21, 1947

Fig. 1.

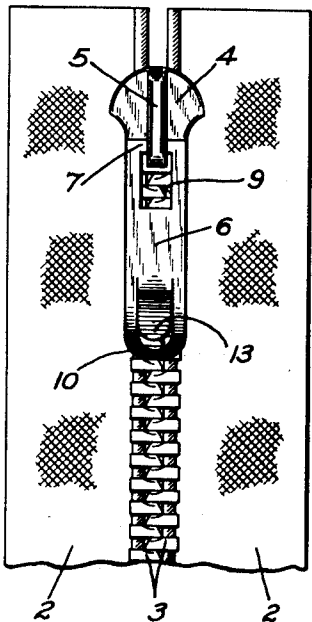


Fig. 2.

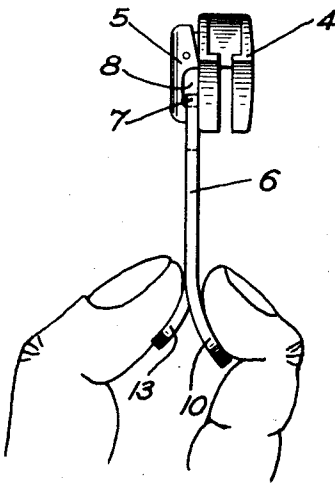


Fig. 5.

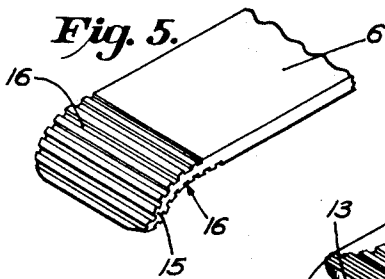


Fig. 3.

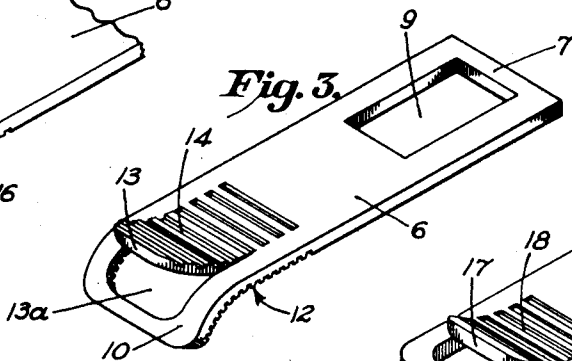


Fig. 4.

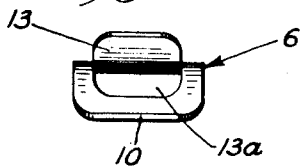
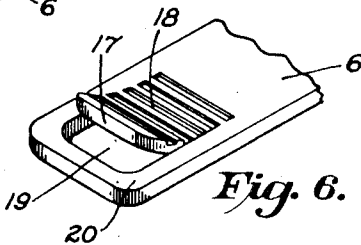


Fig. 6.



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## UNITED STATES PATENT OFFICE

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## PULL FOR SLIDE FASTENERS

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2 Claims. (Cl. 24—205.15)

1

This invention relates to slide fasteners, and particularly to an improved pull member or tab for sliders of such fasteners.

A slide fastener consists generally of a pair of fastener stringers with each stringer comprising a flexible tape having a series of spaced-apart interlocking fastener elements attached to the edge thereof. There is provided a slider or actuating member arranged on the fastener elements for longitudinal movement therealong for engaging and disengaging the same, and there is pivotally attached to the slider, a pull member or tab for manipulating the same in a well-known manner. Various types of pull members have been heretofore suggested and used, and while such pull members were satisfactory for some applications of the fastener, they were not satisfactory for other applications. In the application of a slide fastener to luggage, tarpaulins, and other heavy articles, where a relative large and heavy fastener is usually employed, it is desirable that a pull member be provided which can be grasped firmly and securely in order to manipulate more easily the slider to open and close the fastener. Pull members heretofore used were usually flat having a smooth surface, which were impossible to grip firmly so that the fastener could be operated with ease, and oftentimes the fingers of the operator would slip therefrom.

Accordingly, it is the general object of the present invention to provide an improved pull or tab member for slide fasteners which is so constructed and arranged that it can be gripped firmly and securely so that the slider can be manipulated easily and quickly with the least amount of effort, thereby eliminating the above mentioned disadvantages.

It is another object of the invention to provide an improved pull member which is not only strong and sturdy, but one which is neat in appearance.

It is a further object of this invention to provide an improved pull member which can be inexpensively and easily fabricated and, at the same time, one which is efficient and effective in its use.

Various other objects and advantages of this invention will be more apparent in the course of the following specification, and will be particularly pointed out in the appended claims.

In the accompanying drawings, there is shown for the purpose of illustration, one embodiment and several modifications thereof, which my invention may assume in practice.

2

In these drawings:

Fig. 1 is a plan view of a slide fastener having the preferred form of my improved pull member incorporated therewith;

Fig. 2 is a side elevational view of the slider only, having my improved pull member attached thereto, and showing how it is grasped by the fingers;

Fig. 3 is a perspective view of the pull member of the present invention;

Fig. 4 is an end view of the same;

Fig. 5 is a perspective view of the outer end portion of a modified form of pull member of my invention; and

Fig. 6 is a perspective view of the outer end portion of another modified construction in accordance with the invention.

Referring more particularly to the drawings, the improved pull member or tab of my invention is shown in Fig. 1 incorporated with a conventional type slide fastener which consists generally of a pair of stringer tapes 2 having a series of spaced-apart interlocking fastener elements 3 attached to the opposed beaded edges thereof. There is arranged on the fastener elements 3, a slider 4 for longitudinal movement therealong to engage and disengage the fastener elements in a manner well known to those skilled in the art.

There is attached to a lug 5 arranged on one side of the slider body, the improved pull member or tab 6 constructed in accordance with the present invention. The preferred embodiment of my pull member or tab, as shown in Figs. 1, 2, 3, and 4 of the drawings, comprises an elongated flat body member having a trunnion portion 7 formed at one end thereof which is disposed in and extends through a transverse opening 8 in the lug 9 of the slider so as to be pivotally attached thereto. The trunnion portion 7 is formed by punching a rectangular-shaped portion from the material which forms the opening 9 at the upper end of the pull member.

The extreme opposite end of the pull member is bent downwardly, as at 10, out of the plane of the body member and the under side of the pull member in the vicinity of this downwardly bent portion is preferably transversely corrugated, as at 12. A portion of the material of the pull member in the immediate vicinity of this downwardly bent portion 10 and centrally thereof is struck up therefrom so as to provide the upwardly arcuated portion 12 which is also disposed out of the plane of the pull member and bent in a direction opposite to that from the downwardly bent portion 10 so as to provide substantially a

3

flared end portion at the outer end of the pull member, as clearly shown in Figs. 2 and 4. The outer surface of the portion 13 is also preferably corrugated, as at 14. In striking up the portion 13, there is formed in the downwardly extending portion 10 an aperture 13a. It will thus be seen that there has been provided a pull member having a trunnion portion 7 at one end thereof for attaching pivotally the pull member to the slider and a pair of arcuated outwardly extending portions 10 and 13 at the opposite end of the pull which form finger gripping portions for manipulating the slider, as clearly shown in Fig. 2 of the drawing.

In Fig. 5, there is shown a slight modification of the pull member or tab of the present invention. In this construction, the trunnion portion (not shown) is formed therein in the same manner as that shown for the preferred embodiment. The opposite end of the pull member is bent downwardly out of the plane of the body portion of the pull so as to provide the downwardly extending portion 15 having both the upper and lower surfaces preferably transversely corrugated, as at 16.

In the construction shown in Fig. 6, which is another modified form of my invention, a trunnion portion (not shown) is formed in one end of the body member, as before, and the opposite end of the pull member is flat and straight and disposed in the plane of the body portion thereof. There is struck up centrally from the material at the outer end 20 of the pull member, an arcuated portion 17 which is disposed out of the plane of the body portion of the pull. The upper side of this arcuated portion is preferably transversely corrugated, as at 18, so as to provide a better gripping surface. In striking up the arcuated portion 17, there is provided in the lower end of the pull member an aperture 19.

As a result of my invention, it will be seen that there is provided a pull member which is strong and rugged in its construction and, at the same time, neat in appearance. It will also be seen that the lower end of the pull member is so constructed and arranged that it can be easily and firmly gripped by the operator to manipulate the slider along the fastener elements, eliminating

4

any danger of the fingers of the operator slipping therefrom.

While I have shown and described one embodiment and several modifications thereof which my invention may assume in practice, it will be understood that this embodiment and the modifications are merely for the purpose of illustration and description, and that 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 pull member for slide fasteners of the class described comprising an elongated flat body member, means carried at one end of said body member for attaching the same to the slider body, a portion of the material at the opposite end of said body member struck up therefrom and disposed out of the plane thereof, and that portion of the material in the immediate vicinity of said last mentioned portion being bent in the opposite direction out of the plane of said body member so as to provide a pair of diverging end finger gripping portions.

2. A pull member for slide fasteners of the class described comprising an elongated rectangular-shaped flat body member, a trunnion portion arranged on one end of said body member for attaching the same to the slider body, and a portion of the material at the opposite end of said body member struck up centrally from the body of the material so as to be disposed out of the plane thereof and extending outwardly freely therefrom, said portion being arcuated outwardly and extending in a direction longitudinally of the pull so as to provide a finger gripping portion therefor.

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