Dec. 15, 1936. L. ROCKE 2,064,180

MOUNTING FOR SEPARABLE FASTENERS

Filed Dec. 23, 1935

Fig. 1.

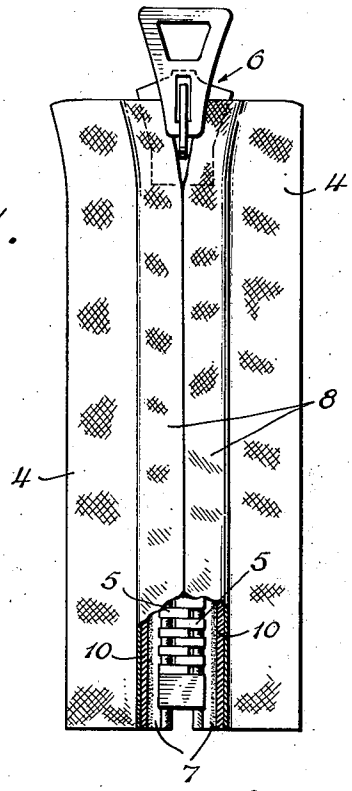


Fig. 2.

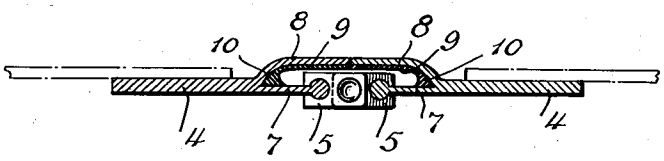
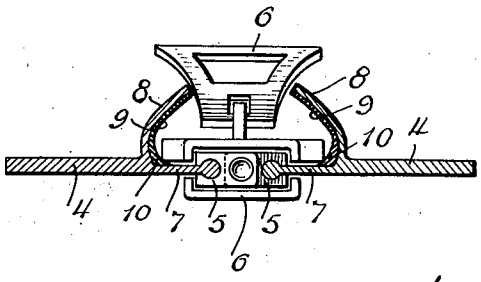


Fig. 3.



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MOUNTING FOR SEPARABLE FASTENERS

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3 Claims. (Cl. 24—205)

This invention relates to improvements in separable fasteners and has particular reference to a mounting therefor.

An object of the invention is to provide a simple and practical separable fastener assembly wherein the mounting for the fastener elements includes a covering therefor having a position relative to said elements which will effectively conceal same and present a substantially flat structure which will impart a neat and attractive appearance to an article to which the assembly is applied.

Another object is to form each mounting strip for a series of fastener elements with supporting and covering flaps which are joined by an elastic medium in such manner that the latter will act as an expansible hinge between said flaps which will, at all times, resist any tendency of the covering flap to move to an uncovering position relative to said elements.

The above and other objects will appear more clearly from the following detailed description when taken in connection with the accompanying drawing which illustrates a preferred embodiment of the inventive idea.

In the drawing:

Figure 1 is a plan view, partly broken away, illustrating a separable fastener assembly constructed in accordance with the present invention.

Figure 2 is a transverse section showing the normal position of the covering flaps, and

Figure 3 is a similar view illustrating the manner in which the flaps are raised as the sliding member of the fastener is moved beneath the same to join and separate the fastener elements.

It will be understood that the invention is applicable to various types of separable fasteners wherein a slider or locking element is employed to join and disconnect two series or groups of fastening elements each carried by different portions of wearing apparel and other articles. Such separable fasteners usually include flexible strips of woven fabric, similar to the strips 4 shown in the drawing, each of which is attached in any preferred manner to a portion of the article on which the assembly is used, and carries along one of its edges a row or series of fastener elements 5 adapted to be joined to the elements of the other strip 4 by a slider 6. When so joined, it is notable that with the ordinary type of fasteners and supporting strips therefor, the elements 5 are exposed to view and do not present an entirely pleasing appearance, especially when applied to certain kinds of wearing apparel; nor are they afforded protection against conditions which might otherwise tend to injure the same or hinder the free separation thereof by said slider.

Therefore, in accordance with the present invention, it is proposed to provide a covering for the fastener elements 5 that will adequately conceal and protect the same, and which will satisfactorily maintain its operative position relative to said elements under varying conditions. A preferred method of accomplishing this result is to divide the inner portion or edge of each of the flexible strips 4 into flaps 7 and 8 the combined thickness of which may be substantially that of the remainder of the strip. The flap 7 is utilized to support or carry the elements 5 of one series, while the flap 8 constitutes a cover for said elements. The width of each flap 8 of the two strips 4 is such that the free inner edges of the flaps meet and thus combine to extend entirely across and conceal the elements 5 and their respective supporting flaps without hindering the sliding movements of the slider 6 which passes beneath said flaps 8 when it is separated, as shown in Figure 3.

By thus forming the flaps 7 and 8 the same are, in effect, hingedly connected at their line of juncture and the flaps 8 may thus be swung outwardly should occasion require that they be adjusted toward an uncovering position relative to the elements 5, such as when the slider 6 is operated. However, in the normal condition of the flaps 8, with the fastener elements 5 locked together or separated, said flaps are caused to lie snugly against said elements and assume a substantially flat position across the space which would otherwise be exposed if said flaps were not provided. To this end, it is proposed to introduce between the flaps 7 and 8 of each strip 4, a medium which will resist any separating movement of one flap relative to the other and thus maintain the flap 8 in its normal operative relation to the fastener elements and restore said flap to such position after it has been raised, as by the passage of the slider 6 thereunder. Preferably, said medium takes the form of an elastic binder 9 of rubber cement or other suitable material which is applied in a relatively thin coating to the under or inner surface of each flap 8. When so applied to said surface, the material acts to bind together the strands of the woven fabric of the flap and, in so doing, maintains the flap in a substantially flat condition and acts to restore it to such condition should it be bent outwardly. Said binder also prevents stretching of the material and outward curling of the free edge of the flap which might

otherwise occur after considerable usage, especially when the fastener assembly is used on footwear and subjected to various conditions of weather. In fact, the binder will have a tendency to cause the flap to turn inwardly or, at least, maintain it in a substantially flat condition. The elastic binder is also employed as a hinge connection between the flaps 7 and 8, and, to this end, is applied to the crotch formed at the juncture of said flaps where it is thickened as indicated at 10. In this manner a substantial amount of the binder will be present to increase the retractile effect thereof upon the flap 8 should the latter be swung outwardly with a consequent stretching of said thickened portion. Thus the restoration and maintenance of said flap in its substantially flat, covering position is assured.

What is claimed is:

1. The combination with opposed series of separable fastener elements and a slide for joining and separating said series; of a strip for each series of elements including supporting and covering flaps therefor with the inner edges of said flaps meeting to form a crotch therebetween, and an elastic coating binding said flaps together at said crotch and extending at least partially over the inner opposed surfaces of the flaps, said coating being expansible at said crotch when the flaps are moved apart.

2. The combination with opposed series of separable fastener elements and a slide for joining and separating said series; of a strip for each series of elements including supporting and covering flaps therefor with the inner edges of said flaps meeting to form a crotch therebetween, and an elastic coating binding said flaps together at said crotch and extending at least partially over the inner opposed surfaces of the flaps, said coating being thickened at said crotch to form an expansible hinge joint between said flaps effective to yieldably maintain the covering flap in operative relation to its associated series of fastening elements.

3. The combination with opposed series of separable fastener elements and a slide for joining and separating said series; of a mounting strip for each series made of woven material divided along one edge to form supporting and covering flaps for said series of elements, and a relatively thin coating of a binder for the woven material of said covering flap applied to the inner surface thereof and extended into the juncture between said flaps where said coating is thickened and joined to said supporting flap to constitute a retractile hinge connection between said flaps.

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