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I. RUBIN
INSIDE SEAL AND REINFORCEMENT FOR SLIDE
FASTENER CLOSURES
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2,492,655

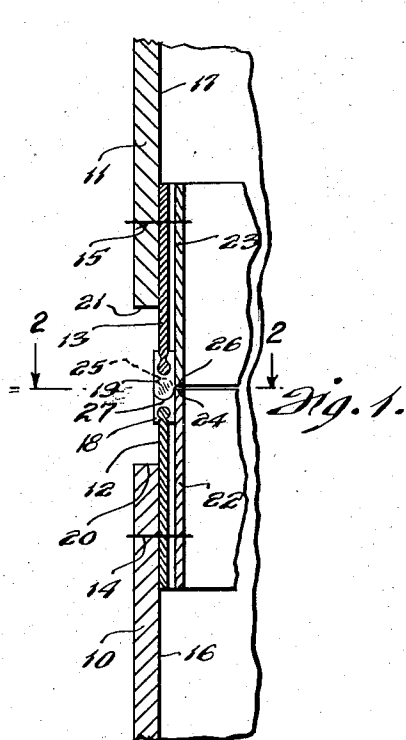


Fig. 1.

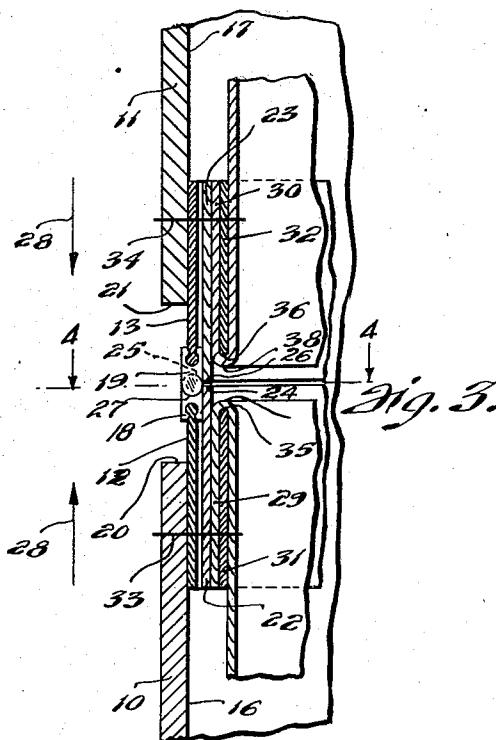


Fig. 3.

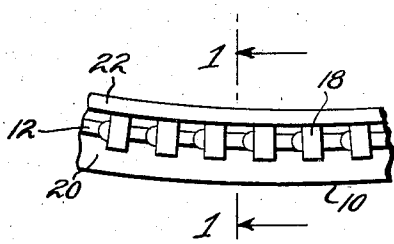


Fig. 2.

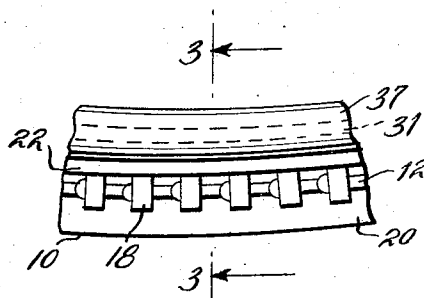


Fig. 4.

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UNITED STATES PATENT OFFICE

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INSIDE SEAL AND REINFORCEMENT FOR
SLIDE FASTENER CLOSURES

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1 Claim. (Cl. 190—41)

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My present invention relates to carrying cases, and more particularly to carrying cases closed by strip-shaped slide fastener members secured to the edges of both the case body and the case cover.

It is an object of my present invention to prevent compression of the walls of the casing along the flexible slide fastener strips securing them to each other.

It is another object of my present invention to make the casing shape retaining, despite the use of flexible slide fastener members.

It is a further object of my present invention to prevent injury to the lining material by the slide fastener members and the fastener closure during opening and closing of the case.

The novel features which I consider as characteristic for my invention are set forth in particular in the appended claim. The invention itself, however, both as to its construction and its method of operation, together with additional objects and advantages thereof, will be best understood from the following description of specific embodiments when read in connection with the accompanying drawings, in which:

Fig. 1 is a vertical section through the side walls of a carrying case according to my present invention, along line 1—1 of Fig. 2;

Fig. 2 is a top view of a part of the body of a carrying case, seen in direction of arrows 2—2 of Fig. 1;

Fig. 3 is a vertical section through a modified arrangement similar to the one shown in Figs. 1 and 2, but provided with a lining, along line 3—3 of Fig. 4; and

Fig. 4 is a top view of the body of the carrying case shown in Fig. 3, seen in direction of arrows 4—4 of Fig. 3.

My present invention is described in the following as used for hat boxes. However, I wish to stress that it might be used for other carrying cases having a body and a cover and being closed by slide fasteners arranged along the edges of the same.

As shown in Figs. 1 and 2, a hat box of the type proposed by me has a curved body wall 10 and a curved cover wall 11. The slide fastener strips 12 and 13 are secured by stitched seams 14 and 15 to the inner walls 16 and 17 of the side walls 10 and 11, respectively. These slide fastener strips 12 and 13 are arranged so as to project with the engaging fastener members 18 and 19 well beyond the free top edge 20 of the body wall 10 and the free bottom edge 21 of the cover wall 11, respectively.

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In order to prevent bending of the flexible slide fastener strips 12 and 13 when the case is closed, I provide in accordance with my present invention two stiff reinforcing strips 22 and 23 secured to the side walls 10 and 11, respectively, by means of the stitched seams 14 and 15 so as to cover the inner faces of the slide fastener strips 12 and 13, respectively.

These reinforcing strips 22 and 23 are shaped so that the top edge 24 of the body reinforcing strip 22 is located slightly under the free top edge 25 of the fastener members 18 and the free edge 26 of the cover reinforcing strip 23 is located slightly above the free bottom edge 27 of the fastener members 19. In this way, it is possible to enable proper abutment of these edges 24 and 26 of the reinforcing strips 22 and 23 when the fastener members 18 and 19 are in engagement, reaching into each other.

It is evident that these reinforcing strips which are, as explained above, made of stiff rigid material are adapted to take up and withstand compression forces exerted in direction of arrows 28, thereby preventing compression of the flexible fastener strips 12 and 13 and holding the case in its proper shape.

In Fig. 3, I have shown the arrangement shown in Figs. 1 and 2 provided with additional means for properly securing linings to the edges of the side walls of the case. In view of the fact that many parts of the construction shown in Figs. 3 and 4 are identical with the corresponding parts of Figs. 1 and 2, I have indicated corresponding parts with the same reference numerals and will not describe them below in detail.

In order to secure the linings 29 and 30 to the side walls 10 and 11, respectively, along their edges 20 and 21, I provide additional reinforcing strips 31 and 32, respectively. These additional reinforcing strips 31 and 32 are secured together with the slide fastener strips 12 and 13 and the main reinforcing strips 22 and 23 by means of stitched rows 33 and 34 to the side walls 10 and 11, respectively.

It should be stressed that these additional reinforcing strips are preferably shaped so that the free top edge 35 of the additional reinforcing strip 31 is located slightly under the free top edge 24 of the main body reinforcing strip 22, and that the free bottom edge 36 of the additional reinforcing strip 32 is located slightly above the free bottom edge 26 of the main cover reinforcing strip 23.

The linings 29 and 30 are introduced between the reinforcing strips 22, 31, and 23, 32, respec-

tively, and bent over the free edges 35 and 36 of the corresponding additional reinforcing strips 31 and 32, respectively, as clearly shown in Fig. 3. It is clear from this figure that by this arrangement it is possible to properly space the exposed edges 37 and 38 of the linings 29 and 30, respectively, from the slide fastener members 18 and 19 and thus to prevent any injury to the linings during closing and opening of these fastener members.

It will be understood that each of the elements described above, or two or more together, may also find a useful application in other types of carrying cases, differing from the types described above.

While I have illustrated and described the invention as embodied in hat boxes, I do not intend to be limited to the details shown, since various modifications and structural changes may be made without departing in any way from the scope of my invention.

Without further analysis, the foregoing will so fully reveal the gist of my invention that others can by applying current knowledge readily adapt it for various applications without omitting features that, from the standpoint of prior art, fairly constitute essential characteristics of the generic or specific aspects of this invention, and, therefore, such adaptations should and are intended to be comprehended within the meaning and range of equivalence of the following claims.

What I claim as new and desire to secure by Letters Patent is:

In a carrying case including a body member and a cover member, in combination, a first strip-shaped slide fastener member secured to a top edge of said body member on an inner surface thereof so that its top edge is spaced upwardly beyond said top edge of said body member; a second strip-shaped slide fastener member secured to a bottom edge of said cover member on an inner surface thereof so that its bottom edge is spaced downwardly beyond said bottom edge of said cover member and adapted to engage said first strip-shaped slide fastener member; a first body reinforcing strip secured to said body member and covering at least an inner surface of said first strip-shaped slide fastener member along the top edge of said body member so that its free top edge is spaced upwardly beyond said top edge of said body member and is located slightly

under the top edge of said first strip-shaped slide fastener member; a second body reinforcing strip secured to said body member and positioned inwardly of said first body reinforcing strip and extending upwardly substantially to the free top edge of said first body reinforcing strip; a first lining sheet secured to said body member and positioned between said first and second body reinforcing strips and extending over the upper edge of said second body reinforcing strip and thence extending downwardly; a first cover reinforcing strip secured to said cover member and covering at least an inner surface of said strip-shaped slide fastener member along the bottom edge of said cover member and extending downwardly beyond said bottom edge of said cover member with its free bottom edge located slightly above the bottom edge of said second strip-shaped slide fastener member, said free bottom edge of said first cover reinforcing strip abutting the free top edge of said first body reinforcing strip when said first and second strip-shaped slide fastener members are in engaged position; a second cover reinforcing strip secured to said cover member and positioned inwardly of said first cover reinforcing strip and extending downwardly substantially to the free bottom edge of said first cover reinforcing strip; and a second lining sheet secured to said cover member and positioned between said first and second cover reinforcing strips and extending over the bottom edge of said second cover reinforcing strip and thence extending upwardly.

ISAAC RUBIN.

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