July 7, 1931. N. N. BROWN 1,813,020

FASTENING MEANS FOR FLEXIBLE SEATS

Filed Feb. 4, 1927

Fig. 1.

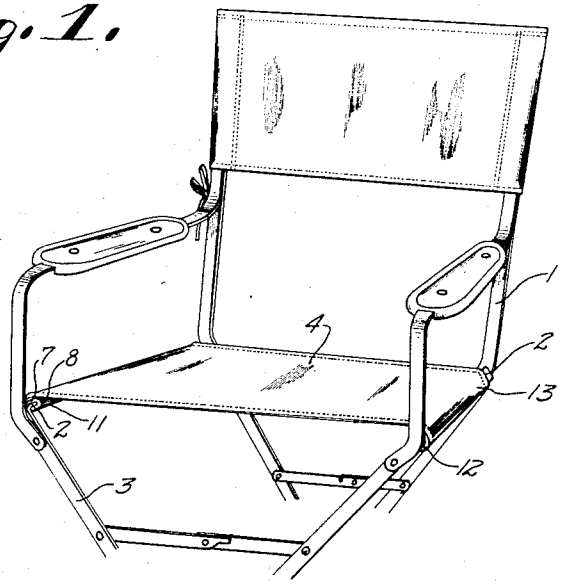


Fig. 2.

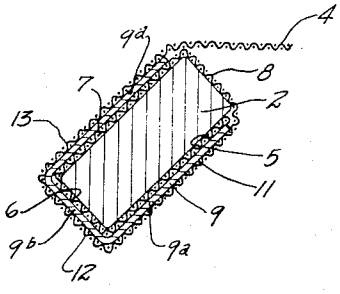
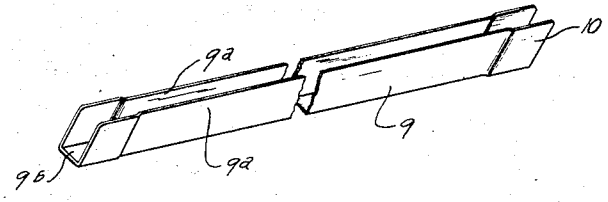


Fig. 3.



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UNITED STATES PATENT OFFICE

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FASTENING MEANS FOR FLEXIBLE SEATS

Application filed February 4, 1927. Serial No. 165,780.

This invention relates in general to chairs and more particularly to fastening means for securing the flexible seat of a collapsible chair to the side rails thereof.

An object of the invention is to provide fastening means of this character which may be readily and easily assembled with the side rails and with the flexible seat and which binds and clamps the flexible seat to the side rails and entirely eliminates any possibility of the flexible seat becoming disengaged from the side rails, the arrangement being such that when the chair is being used the weight of the person sitting therein enhances the clamping, binding and securing action of the fastening means.

Another object is to provide a fastening means having these advantages and which is also of simple and durable construction, reliable in operation and adapted to be manufactured at a comparatively slight expense from materials and by means of facilities ordinarily available.

Other objects and advantages reside in certain novel features of the construction, arrangement and combination of parts which will be hereinafter more fully described and particularly pointed out in the appended claim, reference being had to the accompanying drawings forming a part of this specification, and in which:

Figure 1 is a fragmentary perspective view showing a chair embodying the present invention;

Figure 2 is a cross sectional view through one of the side rails of the chair and showing how the fastening means, flexible seat and side rails coact to secure the flexible seat to the side rail; and

Figure 3 is a detail perspective view of the channel shaped fastening element employed.

Referring to the drawings, numeral 1 designates generally a chair shown as being of the collapsible type but which may be of any desirable type. The chair embodies side rails 2 supported at the upper ends of the legs 3 thereof, the side rails being inclined, as clearly shown in Figure 2. A collapsible seat 4 is provided and may be of canvas or any suitable material. The ends of the seat 4 are wrapped around the side rails 2, each end extending entirely around its side rail as shown in Figure 2. In assembling the seats with the side rails, one end of the seat is wrapped around its side rail once so that portions 5, 6, 7 and 8 of the seat completely cover the associated side rail 2. A channel shaped fastening element 9 is then slipped over the portions 5, 6 and 7. This channel shaped fastening element is made of metal having some resiliency and is of such a size and shape as to grip the portions 5, 6 and 7 by virtue of its inherent resiliency and tension. If the seat 4 is formed with hems along its edges, as it usually is, the end portions of the channel 9 are upset outwardly, as indicated at 10. With the arrangement thus far described the channel shaped fastening element tends to and does bind its end of the seat 4 to the associated side rail 2, but the user of the chair might grip the channels and displace them from position or they might be displaced for other reasons. In order to prevent displacement of the channels and to enhance their clamping action, the seat 4 has portions 11, 12 and 13 extended around the outsides of the channel and tending to draw the channel upwardly on the rail 2 and to cause its side flanges 9a and its base 9b to more tightly clamp the portions 5, 6 and 7 of the side against the side rail, especially when the body portion of the seat is subjected to downward pressure, as when the chair is being used.

After one end of the seat 4 has been assembled in this manner with the side rail 2, the other end portion of the seat is similarly associated with its side rail, the chair being partially or completely collapsed to bring the side rails 2 together and afford the required slack in the seat to permit this assembly.

From the foregoing it will be understood that by virtue of the feature of extending the end portions of the seat not only between the channels and the rails, but also around the channels, the channels are firmly and positively urged into clamping engagement

with the portions of the seat interposed between the channels and the rails and the channels are protected against accidental displacement.

The invention claimed is:

A chair having rectangular side rails, a flexible seat having its ends coiled completely around the side rails, channels fitted over the side rails and embracing the portions of the flexible seat wrapped around the side rails, the seat also having portions wound in the same direction around the outsides of the channels and urging and compressing the same into clamping engagement with the portions of the seat interposed between said channels and rails and engaging opposite faces of the rails and also preventing accidental displacement of the channels.

In witness whereof, I hereto affix my signature.

NEWTON N. BROWN.