May 23, 1950 T. P. ROSSI 2,508,688

SUSPENSION MEANS FOR SEATS

Filed May 9, 1949

Fig. 1.

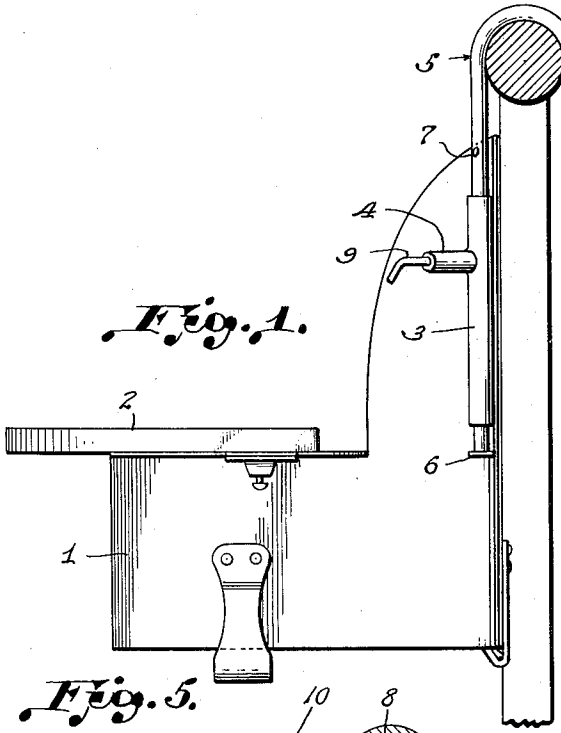


Fig. 3.

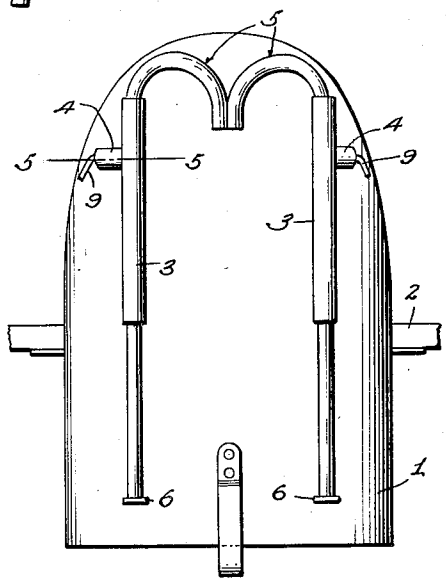


Fig. 5.

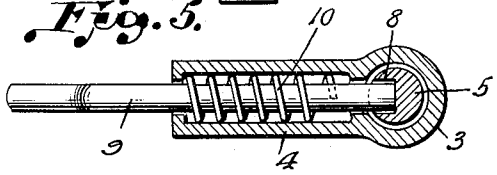


Fig. 2.

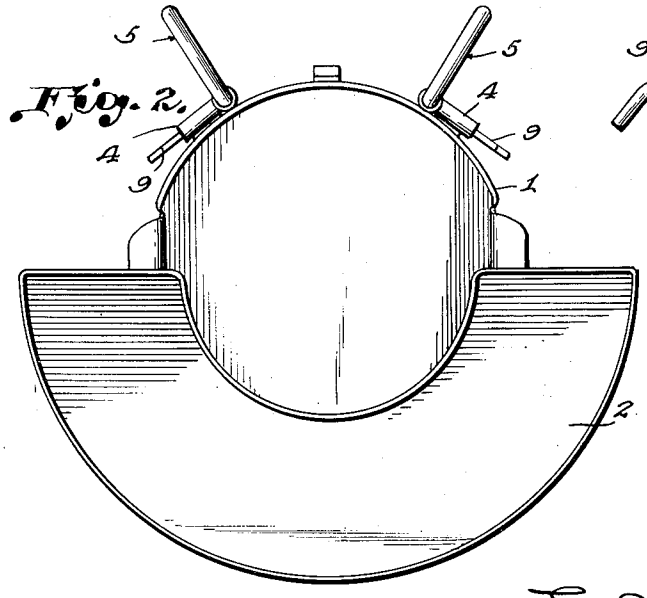
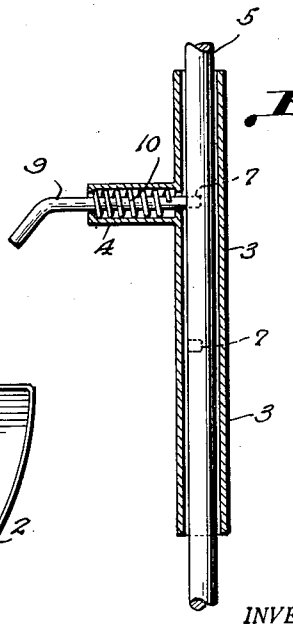


Fig. 4.



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SUSPENSION MEANS FOR SEATS

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Application May 9, 1949, Serial No. 92,210

2 Claims. (Cl. 155—79)

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This invention relates to suspension means for a seat section of a high chair.

An object of this invention is to provide efficient means for suspending a seat structure on a suitable support, such as a chair.

Another object of the invention is the provision of efficient means for suspending a seat section of a high chair, and such suspension means being adapted to be positioned in a substantially hidden manner when the seat section is being used on the base section of a high chair.

A still further object of the invention is the efficient and novel construction of the means for holding the slidable hook sections, and retaining said hook sections in an open operative position, or holding said hook sections in a firm closed position against the back of the seat section.

With the foregoing and other objects in view, this invention comprises certain novel constructions, combinations, and arrangements of parts as will be hereinafter fully described, illustrated in the accompanying drawings, and more particularly pointed out in the appended claims.

In the drawings:

Figure 1 is a view in side elevation of a seat section constructed in accordance with the present invention.

Figure 2 is a top plan view of the same.

Figure 3 is a rear view in elevation, showing the hook sections in a closed or inoperative position.

Figure 4 is an enlarged, vertical, fragmentary view of one of the vertical and horizontal sleeves.

Figure 5 is an enlarged, sectional view, taken on lines 5—5, Fig. 3.

Referring to the drawings in which the preferred embodiment of this invention is illustrated, 1 designates the seat section and 2 is the tray, which are fully described in my co-pending United States application, filed May 9, 1949, Serial No. 92,209, for a "High chair."

On the curved back of the seat section 1 are two primary, vertical sleeves 3 that are secured snugly against the back of said seat section. Extending horizontally from each primary, vertical sleeve 3 is a horizontal, auxiliary sleeve 4. This auxiliary sleeve 4 is secured snugly to the curved back of the seat section 1, as clearly shown in Fig. 2. In each sleeve 3 is a vertically slidable hook section 5. Each hook section 5 is provided with an integral head 6 on its inner or lower end, whereby the hook section is prevented from being drawn out of the sleeve 3 in one direction. Each hook section 5 is provided with primary sockets 7 and an auxiliary socket 8. A sliding plunger

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9 is in the auxiliary sleeve 4. A coil spring 10 is around plunger 9, within said sleeve 4. When the operator pulls outwardly on plunger 9, the plunger is removed from the socket 7 that it is engaging, whereupon the hook section 5 can be adjusted in sleeve 3 to the desired position. When the hook sections 5 are not to be used, then they can be moved to their innermost position, as shown in Fig. 3, whereupon the plunger 9, in each instance, will engage the single socket 8 to hold the hook section in a closed, inoperative position, as shown in Figure 3. Therefore, it will be understood that each hook section has a plurality of sockets 7, to be utilized when the device is to be hung upon a support, whereas there is only one auxiliary socket 8, out of alignment with the other socket 7, which socket 8 is to be utilized by the plunger 7 to lock the hook sections against the back of the seat section, Fig. 3. This is a very efficient and novel arrangement.

By having the set of primary sleeves 3 and the auxiliary sleeves 4 snugly held throughout their length against the curved back of the seat section, a very compact and efficient structure is produced.

It is to be understood that in each instance the coil spring 10 presses at its outer end against the partly closed auxiliary sleeve 10, with the inner end of said spring permanently attached to the plunger, resulting in the coil spring being depressed when the operator pulls outwardly on the plunger. Upon releasing the plunger, the spring will cause the plunger to be seated in a socket.

While I have described the preferred embodiment of my invention and illustrated the same in the accompanying drawings, certain minor changes or alterations may appear to one skilled in the art to which this invention relates during the extensive manufacture of the same, and I, therefore, reserve the right to make such changes or alterations as shall fairly fall within the scope of the appended claims.

What I claim is:

1. In a suspension means for a seat structure, the combination with the back of a seat section, of primary, vertical sleeves secured to said back, each primary, vertical sleeve provided with a horizontal, auxiliary sleeve, a hook section slidably mounted in said primary, vertical sleeve, and a spring pressed plunger in said auxiliary, horizontal sleeve and normally engaging said hook section.

2. In a device of the class described, the combination with a seat section provided with a

curved back, of a pair of primary, vertical sleeves secured throughout their length to said back, each primary, vertical sleeve provided with a horizontal, auxiliary sleeve secured snugly to said back, hook sections slidably mounted in said primary, vertical sleeves, each of said horizontal, auxiliary sleeves provided with a partly closed outer end, a sliding plunger in said horizontal, auxiliary sleeve, a coil spring around said sliding plunger, said spring having its outer end bearing against the outer end of said horizontal, auxiliary sleeve and its inner end permanently fastened to said sliding plunger, said hook section provided with aligned, horizontal, primary sockets and with an auxiliary socket out of alignment with said first mentioned sockets, whereby when the hook section is folded against the back

of said seat section, said sliding plunger will engage said auxiliary socket to hold said hook section in an inoperative or closed position upon said back.

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