

March 11, 1930.

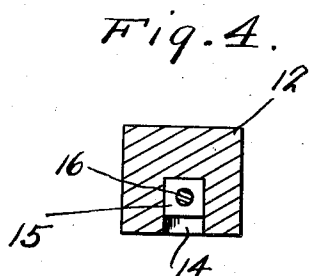
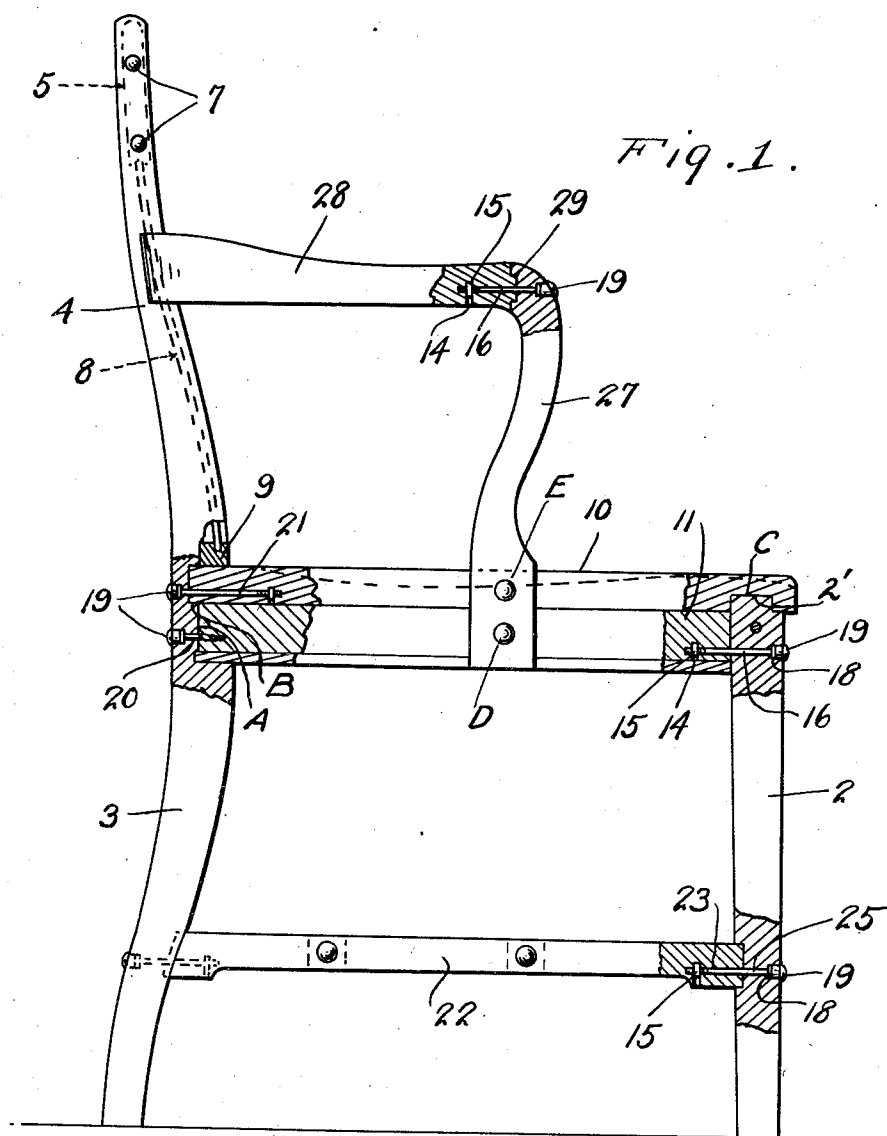
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1,750,409

CHAIR CONSTRUCTION

Filed March 10, 1928

2 Sheets-Sheet 1



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Fig. 2

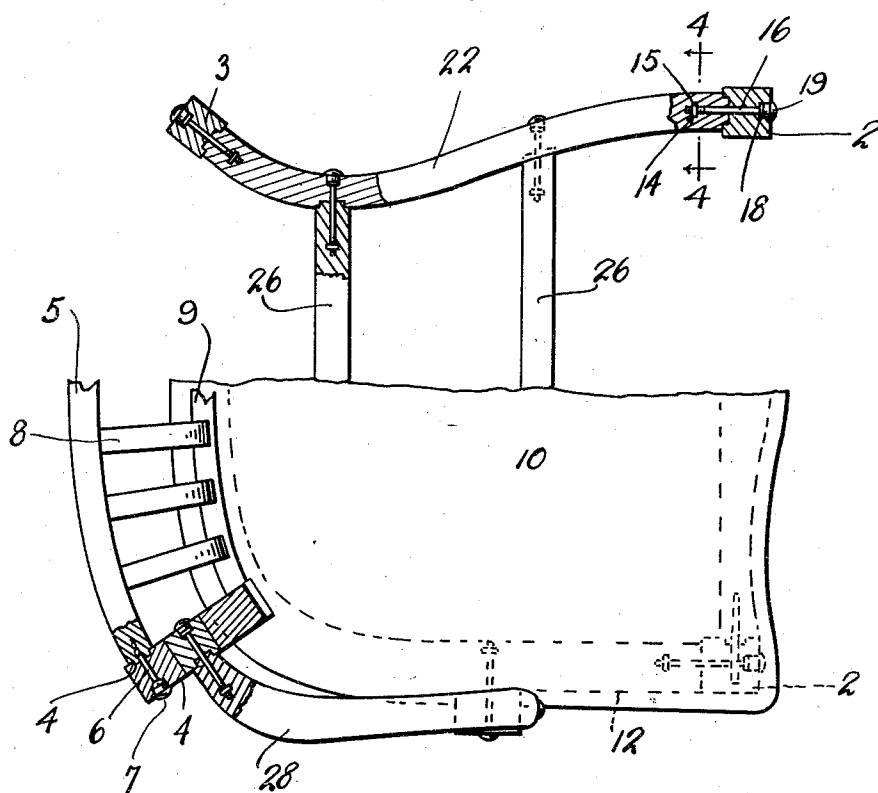


Fig. 3.

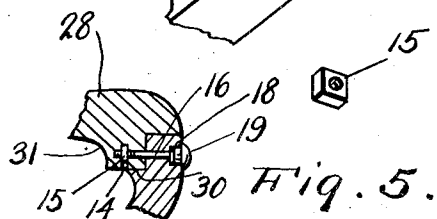
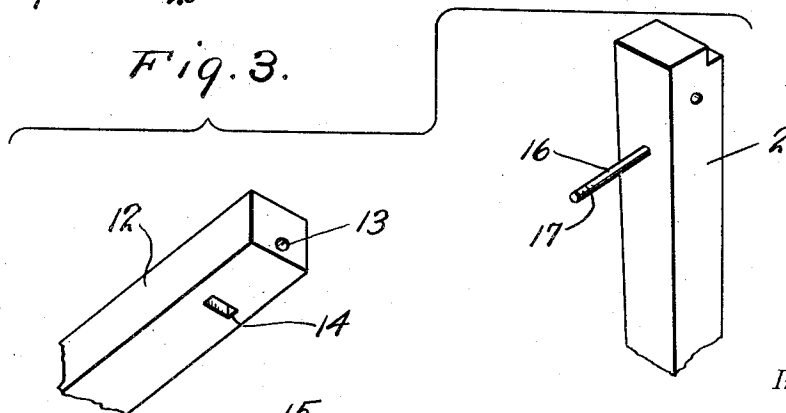


Fig. 5.

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## UNITED STATES PATENT OFFICE

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## CHAIR CONSTRUCTION

Application filed March 10, 1928. Serial No. 260,624.

The present invention relates to improvements in furniture and has reference more particularly to a chair construction.

One of the important objects of the present invention is to provide a chair that can be readily and easily assembled or disassembled, means being provided for positively securing the parts of the chair in assembled relation without necessitating the gluing of the parts together, such as is commonly done in the assembly of chairs now on the market.

Another important object of the invention is to provide a chair construction whereby should any part of the chair become broken the same can be readily and easily removed and replaced with a new one, without necessitating the loss of any considerable length of time or labor, thereby obviating the necessity of having to entirely discard the chair.

A still further object is to provide a chair construction of the above mentioned character, which is simple, inexpensive, strong and durable, and further well adapted for the purposes for which it is designed.

Other objects and advantages of the invention will become apparent as the nature of the invention proceeds and when taken in connection with the accompanying drawing.

In the accompanying drawings, forming a part of this application and in which like numerals designate like parts throughout the several views;

Figure 1 is an enlarged view, partly in elevation and partly in section of a chair construction embodying my invention.

Figure 2 is a fragmentary top plan view, partly shown in section to more clearly illustrate the connecting means between adjacent members of the chair.

Figure 3 is a group perspective view of one of the front leg members, and the adjacent side rail and the fastening means therefor.

Figure 4 is a sectional view, taken approximately on the line 4—4 of Figure 2, looking in the direction of the arrows, and

Figure 5 is a fragmentary sectional view of a modification of the adjacent ends of the hand rail, or rest, and the support for the forward end thereof.

In the drawings, wherein for the purpose

of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally my improved chair construction, the same comprising the front and rear legs 2 and 3 respectively, the back 4 of the chair, including extensions formed on the upper ends of the rear legs. A back rest 5 extends between the upper ends of the extensions 4 and suitable wooden screws 6 are driven through the sides of the upper ends of the extensions into the respective ends of the back rest as clearly shown in Figure 2, the socket provided in the outer face of each extension to accommodate the head of the wooden screw being closed by means of a plug 7. Suitable slats 8 extend vertically in spaced relation with respect to each other between the back rest 5 and the cross piece 9. At their upper end portions, the legs 3 are provided with recesses A in the inner walls of which are the horizontal shoulders B.

The seat portion of the chair is shown at 10 and the same rests on the seat supporting frame 11, that is secured between the front and rear legs in the manner to be presently described. The forward end portion of each side rail 12 of the seat supporting frame 11 is formed with a longitudinally extending bore 13 that extends from the forward end of the side rail, rearwardly for a considerable distance. The bottom face of this particular side rail is formed with a nut receiving socket 14 that extends upwardly and beyond the bore 13, and which bore is intercepted by the socket.

A nut 15 is disposed within the socket 14 in such a manner as to have the threaded bore of the nut in registration with the bore 13, and a bolt 16 extends transversely through the upper end of each front leg, the major portion of the bolt projecting beyond the rear face of the front leg and as is clearly shown in Figure 1, the free end of the bolt extends into the bore 13 and the threaded end 17 of this bolt will engage with the threaded bore of the nut 15, and by actuating the kerfed head 17, with a screw driver or the like, the front legs will be securely held in position against the forward ends of the side rails of the seat supporting frame 11.

The front side of each front leg member is formed with an enlarged socket to accommodate the headed end 18 of the bolt and this socket will be closed by a removable plug 19 after the parts have been properly assembled together.

The upper end of each front leg member is formed with a tenon 2' that fits within a suitable socket C provided therefor in the bottom face of the seat portion 10, as also clearly shown in Figure 1. The rear legs 3 are connected to the rear ends of the side rails 12 which are mounted in the recesses A by wood screws 20 and the rear portion of the seat 10 extends beyond the rails 12 into the recesses A and rests on the shoulders B and is secured to the rear leg members by a bolt and nut arrangement similar to that by which the front legs are connected to the forward ends of the side rails and this arrangement is shown generally at 21, in Figure 1. As seen in Figure 1 of the drawings, the upper surfaces of the rails 12 are in the horizontal planes of the shoulders B.

Extending between the respective pairs of the front and rear legs are the rails 22, the ends of the rails being formed with longitudinally extending bores 23 and the intercepting nut receiving sockets 24, that extend upwardly from the bottom face of the rail to accommodate the threaded bolts 25, whereby these side rails 22 are rigidly secured to the front and rear leg members.

Cross rails 26 extend between the side rails 22 and are connected thereto in a similar manner.

Extending upwardly from the outer sides of the rails 12 and seat 10 are the curved posts 27, that are securely connected at their upper ends to the forward ends of the arm rails or rests 28, the rear ends of said arm rests or rails being operatively connected to the respective extensions associated with the rear legs 3 and the same connection is provided between the ends of each arm rest or rail and the respective posts and extensions as is provided for securing the upper ends of the front leg members to the forward ends of the side rails 12 and in addition, said elements are provided with cooperating tongues and sockets as generally shown at 29, in Figures 1 and 2. The posts 27 are detachably secured to the rails 12 and seat 10 by the removable securing elements D and E, respectively, which also constitute means for maintaining the forward portion of the seat 10 in position on the frame 11 and the front legs 2.

In Figure 5, the modification is shown wherein the upper end of each post 27 is formed with a cut out portion 30 and the forward ends of the adjacent arm rests is provided with a shoulder 31, for cooperation with the cut out portion 30 and furthermore a bolt and nut connection is provided between these

adjacent parts, whereby the same can be readily secured together.

It is to be understood, of course, that wherever a socket is formed in one of the parts of the chair, to accommodate the kerfed head of the securing bolt or a wooden screw, that such socket is closed by a removable plug, shown at 19.

A chair construction of the abovementioned character will permit the parts constituting the chair to be readily assembled or disassembled, and should any one of the parts become broken, the same can be readily replaced with a new one, without necessitating the entire rebuilding of the chair, thus saving considerable expense. Also, by removing the plugs 19, the bolts or wood screws can be readily and easily tightened should any looseness occur as a result of the use of the chair.

A chair constructed in the manner as above described will at all times be strong and durable.

While I have shown the preferred embodiment of my invention, it is to be understood that minor changes in the size, shape, and arrangement of parts may be resorted to, without departing from the spirit of the invention and the scope of the appended claim.

Having thus described my invention, what I claim as new is:

As a new article of manufacture, a chair including front and rear legs, said rear legs being recessed at their upper end portions, horizontal shoulders in the recesses, a supporting frame supported, at its rear end, in the recesses and having its upper face in the horizontal plane of the shoulders therein, means for detachably securing the frame therein, said frame having its forward end in abutting engagement with the side of the front legs adjacent the upper ends thereof and detachably secured thereto, tenons on the upper ends of the front legs, a seat mounted on the frame and extending into the recesses in the rear legs and mounted on the shoulders therein, means for detachably securing the seat therein, said seat extending over the upper ends of the front legs and being provided, adjacent its front ends, with sockets in its bottom face for the reception of the tenons, a back rest extending upwardly from the rear legs, vertical posts on the outer sides of the frame and the seat and extending upwardly therefrom, securing elements extending transversely through the lower end portions of the posts and into said frame and seat and constituting means for detachably supporting the posts thereon and for detachably maintaining the forward portion of the seat on the frame and the front legs, and arm rests extending between the upper ends of the posts and the back rest.

In testimony whereof I affix my signature.

EDWARD KOVAC, JR.