

May 30, 1933.

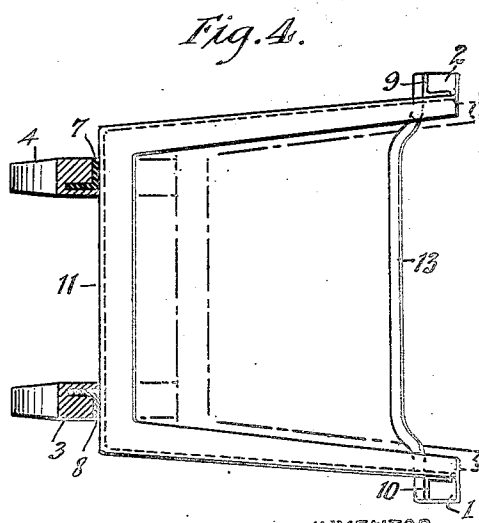
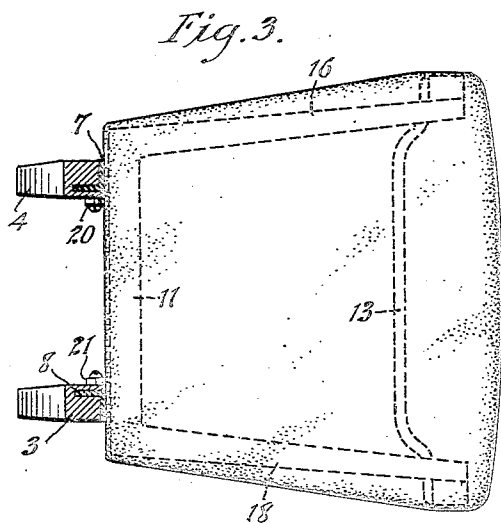
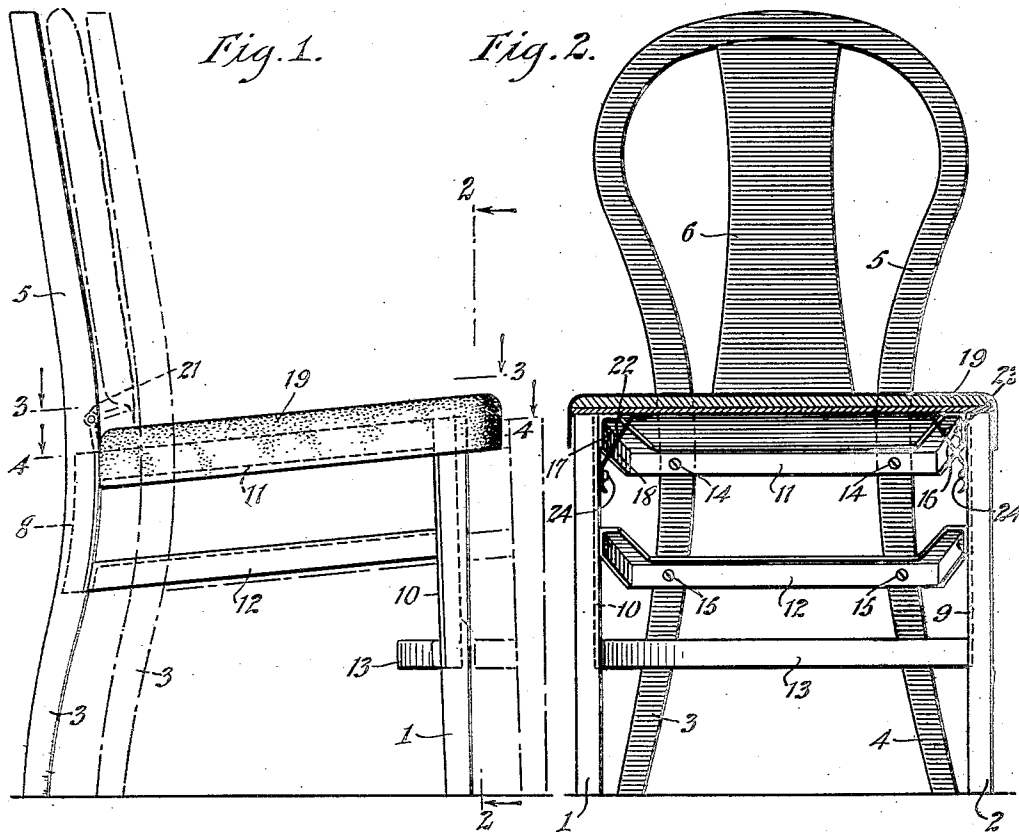
L. DELLERT

1,911,224

NESTED CHAIR

Filed March 27, 1931

2 Sheets-Sheet 1



WITNESSES

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Fig. 6.

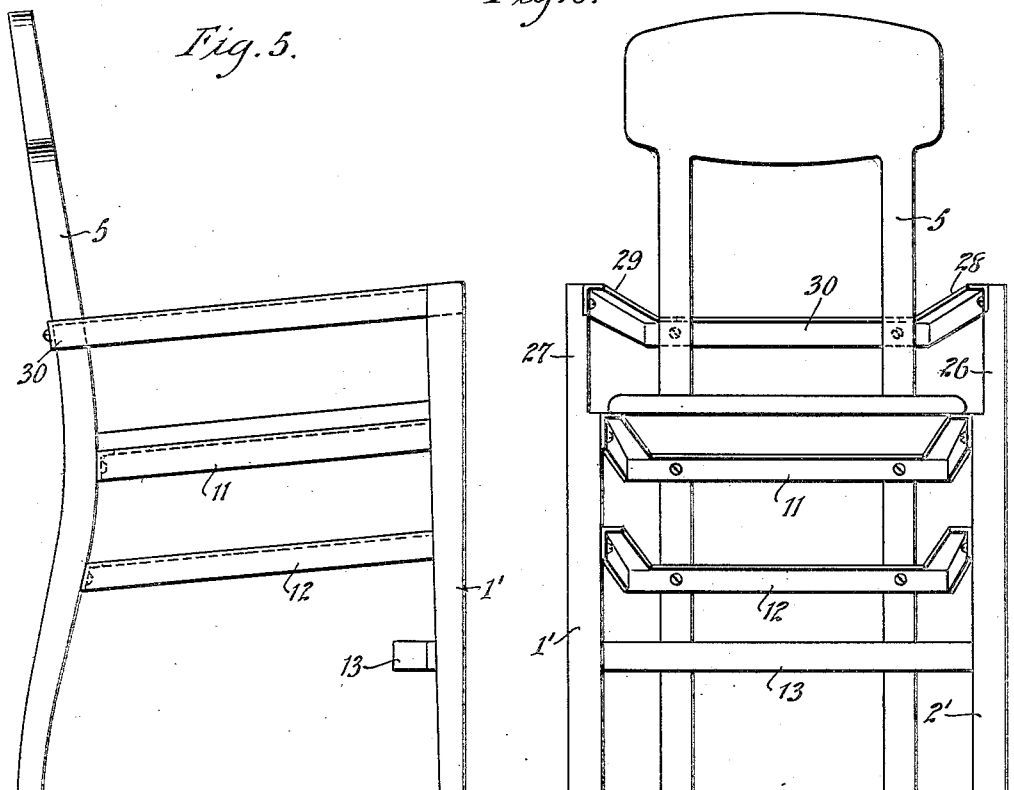
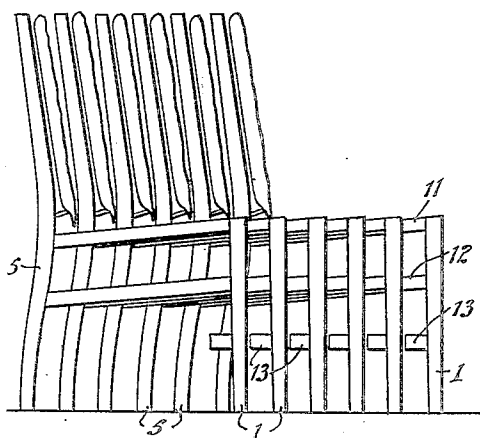


Fig. 7.



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Fig. 8.

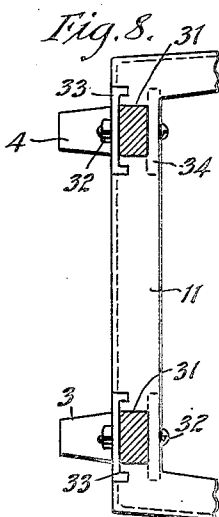
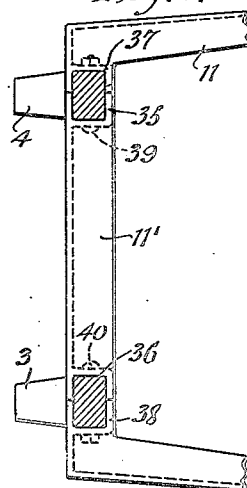


Fig. 9.



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UNITED STATES PATENT OFFICE

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NESTED CHAIR

Application filed March 27, 1931. Serial No. 525,841.

This invention relates to furniture and particularly to an improved chair which is so formed as to be nested in a minimum of space, the object being to present a chair of this kind which will be strong and pleasing in appearance.

Another object of the invention is to provide an improved chair formed so that a plurality of identical chairs may be readily nested.

A further object, more specifically, is to provide a chair with suitable legs and bracing rung for bracing the front legs of the chair, the arrangement being such that a plurality of identical chairs may be nested upon moving the seat to a position exposing the seat frame of the chair.

An additional object is to provide a chair which may be readily nested from the front and which has efficient braces for the various legs and a pair of arms above the seat.

In the accompanying drawings—

Figure 1 is a side view of a chair disclosing an embodiment of the invention, a second chair being shown nested therewith, the same being illustrated by dotted lines.

Figure 2 is a sectional view through Figure 1 on line 2—2, the complete back being shown in elevation.

Figure 3 is a horizontal sectional view through Figure 1 on line 3—3.

Figure 4 is a sectional view through Figure 1 on line 4—4, the seat being removed.

Figure 5 is a view similar to Figure 1 but showing a modified form of chair, which includes arms arranged above the seat.

Figure 6 is a front view of the chair shown in Figure 5.

Figure 7 is a view showing a plurality of chairs identical in structure to that illustrated in Figure 1, the same being shown nested.

Figure 8 is a detailed fragmentary sectional view showing a modified arrangement of the seat frame and method of securing the rear legs thereto.

Figure 9 is a view similar to Figure 8 but showing a further modified form of seat frame and method of securing the rear legs thereto.

Referring to the accompanying drawings by numeral, 1 and 2 indicate the front legs of the chair, 3 and 4 indicate the rear legs. Legs 3 and 4 extend upwardly and merge into the back 5 which, if desired, may have a panel or other structure 6.

In order to reinforce the back legs 3 and 4, angle irons 7 and 8 are partly embedded therein as illustrated in Figures 1 and 3. A similar reinforcing structure is provided for the front legs, namely, the angle irons 9 and 10. It will be noted that the legs are formed of wood and the angle irons as just set forth are desirable in order to reinforce the wood and to stiffen the chair. Also these angle irons form efficient anchors for the seat frame 11 and for the rungs 12 and 13. The seat frame 11 is formed with angle irons and of a U-shaped structure as illustrated in Figure 4, the rear part being spot welded to the angle irons 7 and 8 and the front spot welded to the angle irons 9 and 10, though they could be secured by rivets or other means if desired.

As illustrated in Figure 2, screws 14 and 15, are also used, said screws extending through, respectively, the metal of the frame 11 and the rung 12 into the respective legs 3 and 4. Also, preferably, the screws 16 and 17 extend through the front part of the seat frame and through the angle irons 9 and 10 into the wood portion of the respective front legs. By providing the seat frame 11 and the rungs 12 and 13, as well as the various angle irons 7 to 10 inclusive, a rigid structure of metal is provided near the seat of the chair whereby the chair, while presenting a pleasing appearance, will stand much rough use without danger of breakage. A seat 19 is mounted to rest on top of the frame 11, said seat being connected with the rear legs by suitable hinges 20 and 21 and held tightly against the front of the seat frame by suitable straps 22 and 23. Each of these straps is rigidly connected to the said frame and provided with an opening to receive a button 24, said button being connected with the front leg. In this way the seat frame cannot accidentally be swung upwardly.

From Figures 2 and 4 it will be noted that the seat frame, rung 12 and in fact the entire chair converges from the front so that the front is wider than the rear. This arrangement is provided in order that the identical chair may be nested from the front as illustrated in Figure 7. It will be noted also that the said frame and rung 12 inclines downwardly toward the rear whereby the various chairs may be nested from the front while all the legs are resting on the floor. In order to nest two or more chairs, it will be necessary to raise the seats and then lift the rear legs of the chair to be nested so that they may be moved over the rung 13, after which the rear legs are moved to the dotted position shown in Figure 1. A third or more chairs may be nested in the same way, each chair having the rear legs lifted so that they may pass over the rung 13. It will be noted that the rung 13 is adjacent the entrance end of the respective chairs and firmly braces said entrance to the end while the other rung braces the chair otherwise. In regard to the seat, it will be seen that the same may be made from wood or sheet metal as illustrated in Figure 2 and this is covered by suitable padding and an ornamental cloth, leather or other covering member which depends on the front and sides to cover the seat frame so as to present a pleasing appearance.

In Figures 5 and 6 a modified form of the invention is shown, which is identical with that shown in Figure 2 except that the shape of the back 5 is slightly different and the front legs 1' and 2' extend upwardly beyond the seat frame 11 and form arm posts 26 and 27 to which the arms 28 and 29 are secured by screws or other means. Arms 28 and 29 are preferably formed integral with the rear bracing bar 30 screwed to or otherwise connected with the back 1. It will therefore be noted that the arms and member 30 form a U-shaped structure which tapers from the front toward the rear, the front being wider than the rear. This permits chairs of identical structure to be nested or permits chairs formed as shown in Figure 5 to be nested with chairs formed as shown in Figure 1.

In Figure 8, a slightly modified structure of the seat frame is provided wherein the rear legs 3 and 4 are fitted into notches 31 in the frame 11. A bolt 32 extends through each of the legs and through a small clamping plate 33 and a lug 34 depending from the frame 11. In this way the rear legs do not extend beyond the seat frame and thereby present a pleasing appearance. In Figure 9 a similar structure is shown as far as embedding the legs 3 and 4 in the seat frame is concerned but in this form of the invention, seat frame 11 is provided with a separate section 11' at the rear, said section

having depending flanges 35 and 36 coacting with flanges 37 and 38 to form a socket for receiving the respective legs. Bolts 39 and 40 extend through the various flanges just mentioned and through the legs whereby the section 11 is firmly held in place and connected with the legs and with the remaining part of the seat frame.

I claim:

1. A chair of the character described comprising a pair of rear legs merging into a back, a pair of front legs, an angle iron embedded in each of said legs adjacent the top thereof, a substantially U-shaped seat frame having its bottom rigidly connected to each of said angle irons of the rear legs and its sides rigidly connected to the angle irons of the front legs, a substantially U-shaped bracing rung having its bottom rigidly connected to each of the angle irons of the rear legs near the lower ends thereof and the sides connected to the angle irons of the front legs, said seat frame and said bracing rungs converging from the front to the back so that the rear of one chair may be moved into the front of another chair when nesting a plurality of chairs and a seat movably connected with the angle irons of said rear legs, said seat being normally positioned to rest on said seat frame but adapted to be swung from said seat frame to a substantially vertical position when a number of chairs are being nested.

2. A chair having a pair of spaced rear legs merging into an upwardly extending back, a pair of front legs spaced farther apart than the rear legs, a U-shaped seat frame positioned within the space enclosed by the front and rear legs and the open end at front of the chair, the respective legs of the U-shaped member connecting the respective front and rear legs, a seat hingedly connected with said back and normally resting on said frame, said seat being capable of being swung upwardly and rearwardly against said back when a plurality of chairs of identical structure are nested.

3. A chair having a pair of spaced rear legs merging into a back, a pair of front legs spaced farther apart than the rear legs, each of the front legs having an upwardly extending arm post, a U-shaped seat frame connected to all of the legs, the open end of the frame being at the front, said frame being inclined from the front to the rear, a seat swingably mounted on the rear legs and normally resting on the seat frame, said seat being swingable to a position against said back, and a bracing rung arranged below said seat frame and connecting all of said legs, said rung being formed U-shaped to present an opening at the front whereby a plurality of chairs of identical structure may be nested.

4. A chair of the character described com-

prising spaced front and rear legs, the front legs being spaced farther than the rear legs, a bracing rung connecting and bracing said front legs and extending substantially directly from one front leg to the other, a U-shaped rung positioned so that its side members connect the respective front legs with the respective rear legs, said U-shaped rung being inclined from the front to the rear, a seat frame of substantially the same shape as the said U-shaped rung having its side members connecting the respective front legs with the respective rear legs, and the closed end of the frame connecting said rear legs, a seat hingedly connected to said rear legs and positioned to normally rest on said seat frame but to be capable of being swung away from said seat frame to permit chairs of identical structure to be nested by moving the rear legs of one chair toward the rear legs of another chair through the front of said other chair, the chairs being nested being moved so that the rear legs will pass over said bracing rung.

5. A nestable chair comprising a U-shaped seat frame open at the front, a U-shaped rung open at the front, metal plates extending from each corner of the seat frame to the respective corners of the U-shaped rung for rigidly connecting the four corners of said frame to the four corners of the rung, a pair of front legs, means for securing the front legs to the front part of the seat frame and rung respectively, means for connecting the rear legs to the seat frame and rung respectively, and a seat member mounted on said seat frame, said seat member being swingable so that it may be swung back substantially parallel to the rear legs when two or more chairs are being nested.

6. A chair including a back merging into a pair of rear legs, a pair of front legs, an angle iron embedded in each of said legs, a substantially U-shaped seat frame rigidly connected to all of said angle irons, said seat frame converging from the front to the rear so that the rear of one chair may be moved into the front of another chair when nesting a plurality of chairs, a U-shaped rung connected with said angle irons appreciably below the seat frame, and a seat pivotally mounted on said seat frame adapted to be swung upwardly and rearwardly to a substantially vertical position to expose the seat frame when a plurality of chairs are nested, said frame and said rung being open at the front so that the nesting operation may take place without raising the chairs from the floor.

Signed at New York City, in the county of New York and State of New York this 25th day of March 1931.

LOUIS DELLERT.