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G. T. GRONDIN

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COLLAPSIBLE CHAIR

Filed Sept. 27, 1930

Fig. 3.

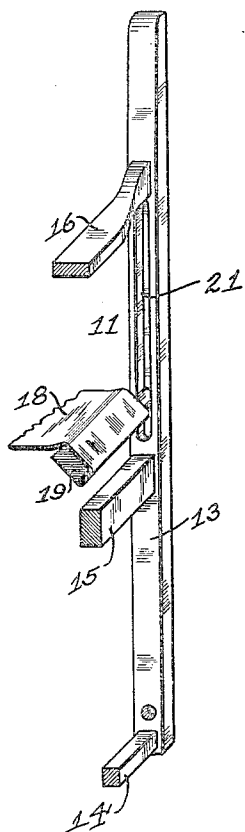


Fig. 1.

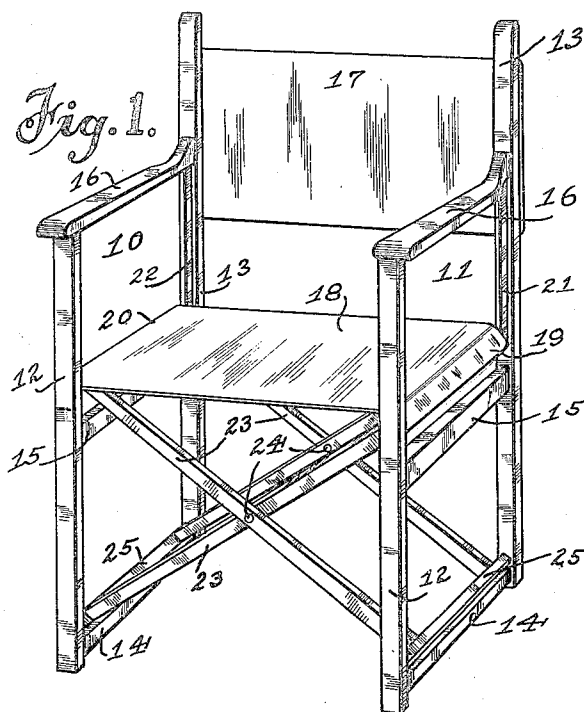
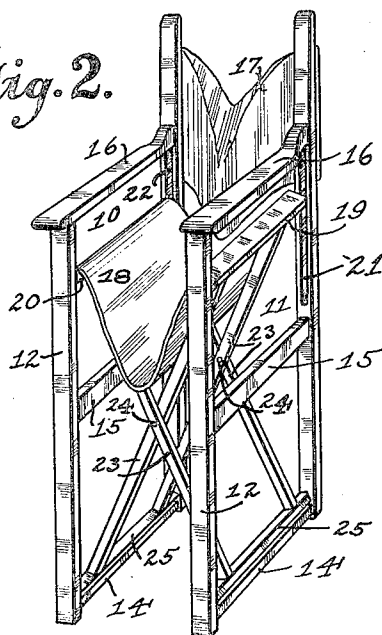


Fig. 2.



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COLLAPSIBLE CHAIR

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This invention relates to furniture, and more particularly to a folding chair including a pair of upright side frames adapted to be collapsed by pushing said side frames inwardly.

One object of this invention is to provide a collapsible chair of the above nature in which the side frames are connected by a pair of centrally pivoted inclined cross-frames being also pivoted at their lower ends to the side frames, the upper ends of said cross frames being slidably mounted in grooves on said side frames.

A further object is to provide a collapsible chair of the above nature in which the upright frames are connected by a flexible seat and back.

A further object is to provide a chair of the above nature which will be simple in construction, inexpensive to manufacture, easy to assemble and manipulate, ornamental in appearance, compact when not in use, and very efficient and durable.

With these and other objects in view there has been illustrated on the accompanying drawings one form in which the invention may be conveniently embodied in practice.

In the drawings:

Fig. 1 represents a perspective view of the collapsible chair as it appears when in open position.

Fig. 2 is a similar perspective view showing the chair in substantially closed position.

Fig. 3 is a fragmentary sectional perspective view of a portion of the chair in open position.

Referring now to the drawings in which like reference numerals denote corresponding parts throughout the several views, the numerals 10 and 11 indicate generally the opposite upright side frames of the chair, each of which comprises a short vertical front leg 12 and a long vertical rear leg 13. The legs 12 and 13 of each cross frame are connected by a pair of horizontal brace members 14 and 15 and an arm rest 16, the latter being relatively thin and wide, so as to reduce the height thereof as much as possible without weakening the construction.

The back of the chair comprises a flexible

canvas strip 17 attached in any suitable manner, as by brass upholstery nails, not shown, to the upper end sections of the vertical rear legs 13, said strip 17 being adapted to fold inwardly automatically as shown in Fig. 2 when the side frames 10 and 11 are moved inwardly from the open to the closed position.

The seat of the chair comprises a substantially square canvas strip 18 having its edges attached, as by brass nails, to a pair of horizontal bars 19 and 20 having projecting dowel pins, not shown, on their extremities adapted to fit in guideways or grooves 21 and 22 formed on the inner sides of the legs 12 and 13 between the arm rests 16 and the intermediate brace bars 15. The horizontal bars 19 and 20 form part of a pair of cross frames or lazy tongs, each of which comprises a pair of inclined legs 23 connected with said cross bars 19 and 20 at their upper ends, said inclined legs being centrally pivoted together by pins 24 at the center of their length and rigidly joined at their lower ends to the horizontal cross bars 25, the extremities of which are swiveled at the bottom of the vertical legs 12 and 13 at a point immediately above the lower cross-bars 14.

The horizontal cross bars 19 and 20 are made of relatively thin and wide stock so as to cause the flexible seat 18 to lie at a more elevated position than would otherwise be the case, and the dowel pins on the ends of said cross bars are located near the bases of said bars instead of at the centers thereof, thus still further raising the permissible height of said seat.

Operation

When it is desired to collapse the chair, it will only be necessary for the user to raise the upper cross-bars 19 and 20 and push the two side frames toward one another. The inclined legs 23 will thus be moved about the pivots 24 from the position shown in Fig. 1 until they reach the position shown in Fig. 2. During this operation the lower cross-bars 25 will swivel within the legs 12 and 13 while the upper cross bars 19 and 20 will slide upwardly in the grooves 21.

One advantage of the present invention is

that the height of the arms of the chair has been reduced to the minimum without lowering the height of the seat or reducing the distance between the side frames. Previous
5 chairs of this nature were subject to the disadvantage that the arm rests were too high, and many futile attempts have been previously made to solve the problem of lowering said arm rests without reducing the height of
10 the seat or the width of the chair.

While there has been disclosed in this specification one form in which the invention may be embodied, it is to be understood that this form is shown for the purpose of illustration only, and that the invention is not to
15 be limited to the specific disclosure but may be modified and embodied in various other forms without departing from its spirit. In short, the invention includes all the modifications and embodiments coming within the
20 scope of the following claims.

Having thus fully described the invention what is claimed as new and for which it is desired to secure Letters Patent is:

25 1. In a portable collapsible chair, a pair of upright side frames having horizontal arm rests, a flexible back connecting the upper rear ends of said side frames, a pair of inclined cross-frames pivoted together intermediate their ends, said cross-frames being
30 pivotally secured to the bottoms of said side frames, rectangular slidable bars at the upper ends of said cross frames and connected together by a flexible seat, said slidable bars having oppositely extending pin
35 members below the centers of said bars, and said side frames being provided with slots below said arm rests to slidably receive said pin members, the upper surfaces of said slidable bars being inclined when the chair is
40 open to elevate said seat and being horizontal when the chair is closed so as to fit snugly under said arm rests.

2. In a portable collapsible chair, a pair
45 of upright side frames having horizontal arm rests, a flexible back connecting the upper rear edges of said side frames, a pair of inclined cross-frames pivoted together intermediate their ends, said cross frames being
50 pivotally secured to the bottoms of said side frames, horizontal slidable bars at the upper ends of said cross frames, a flexible seat attached to said slidable bars, said slidable bars having oppositely extending pin members
55 located near their outer edges, said side frames having vertical slots to receive said pin members, the upper surfaces of said slidable bars being inclined when the chair is open to elevate said seat and horizontal when
60 said chair is closed to permit said slidable bars to fit snugly against said arm rests.

In testimony whereof, I have affixed my signature to this specification.