Nov. 9, 1943. A. BEESKOW 2,333,761

COLLAPSIBLE CHAIR

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Fig. 1.

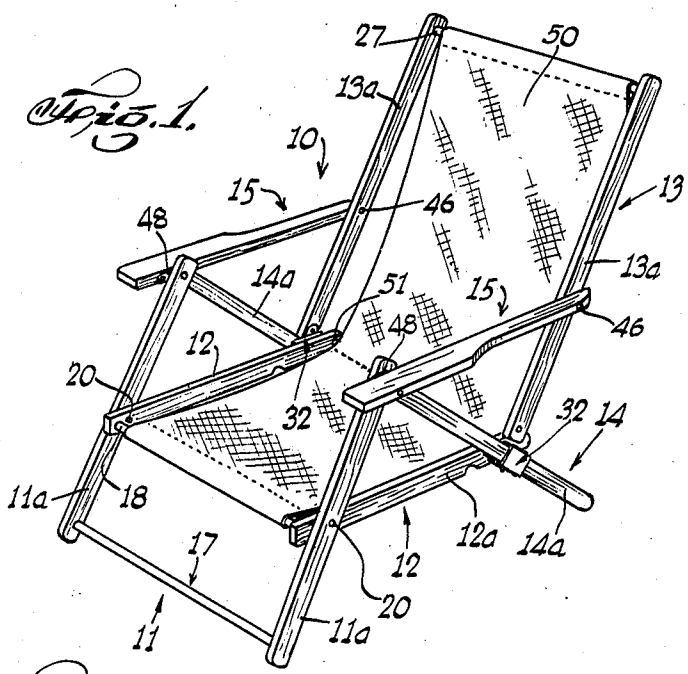


Fig. 9.

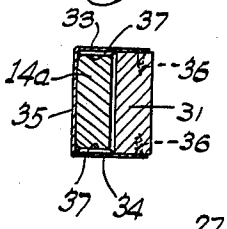


Fig. 2.

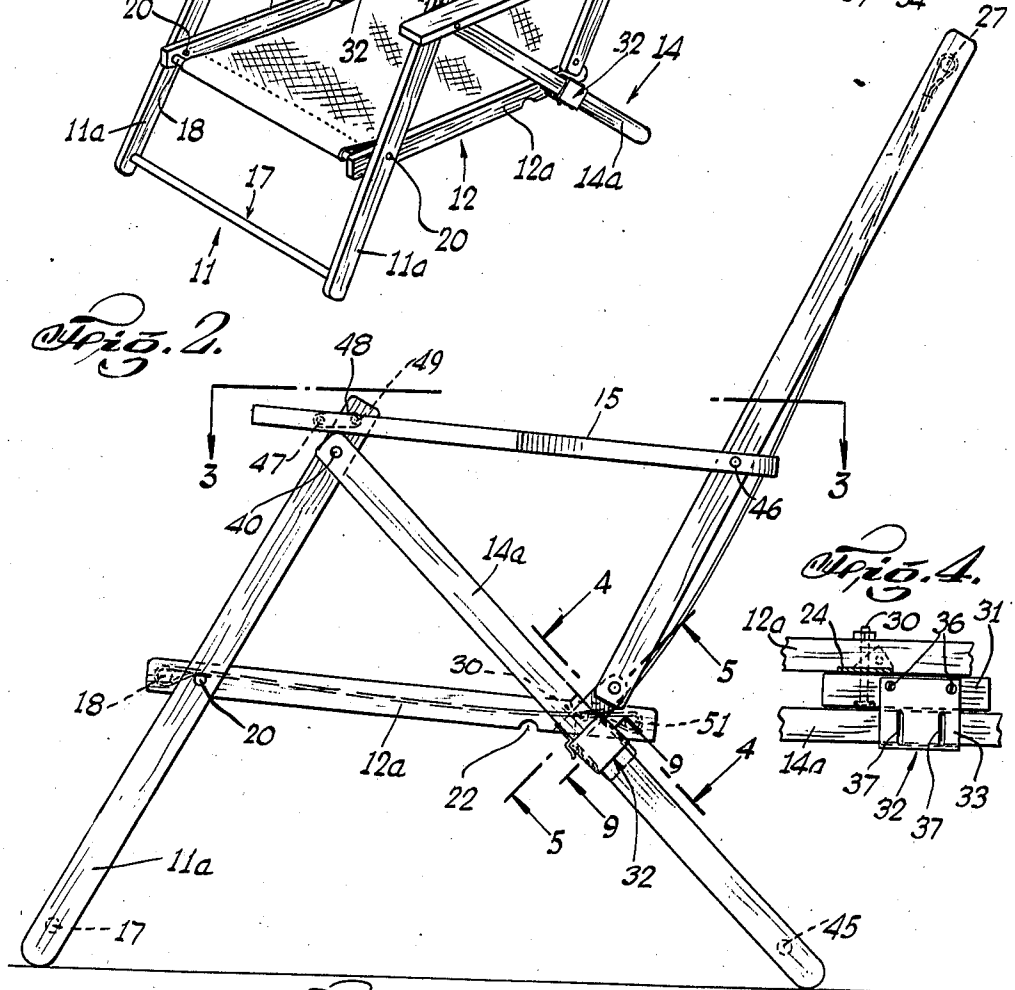
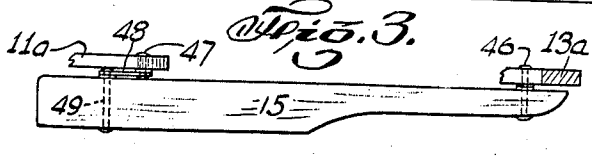


Fig. 4.

Fig. 3.



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Fig. 5.

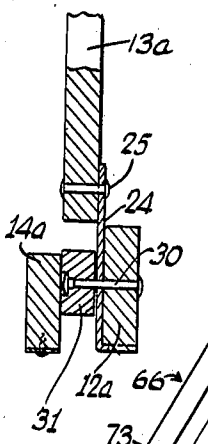


Fig. 6.

Fig. 7.

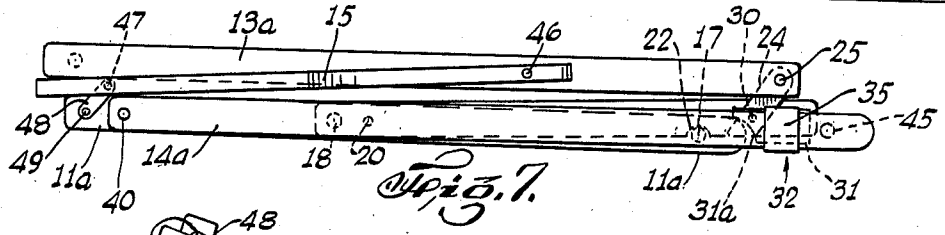


Fig. 8.

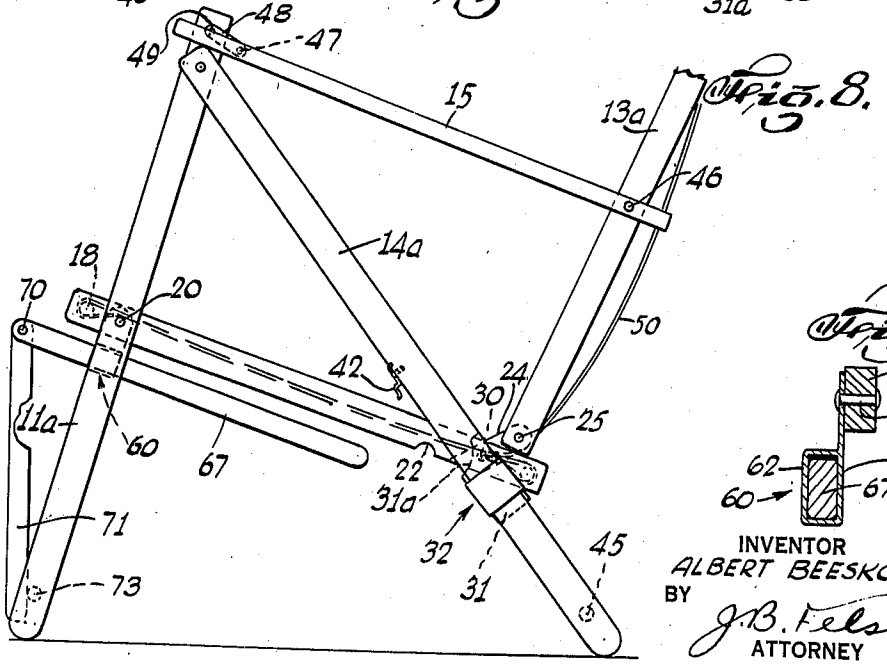


Fig. 10.

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Patented Nov. 9, 1943 2,333,761

UNITED STATES PATENT OFFICE

2,333,761

COLLAPSIBLE CHAIR

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Application June 30, 1939, Serial No. 282,220

4 Claims. (Cl. 155—139)

This invention relates to collapsible chairs.

An object of this invention is to provide a chair of the character described, which may be quickly collapsed into extremely compact form.

A further object of this invention is to provide a collapsible chair of the character described, having simple and improved means for adjusting the inclination of the chair back.

Yet another object of this invention is to provide a chair of the character described, having a seat frame, and a back frame pivoted at its lower end to the rear end of the seat frame, and the rear end of said seat frame having pivotally connected thereto, sleeves slidably receiving certain of the legs, whereby to facilitate collapsing the chair.

Still another object of this invention is to provide in a chair of the character described, having front legs pivoted to the forward ends of the side portions of the seat frame, and a back frame having side portions pivoted to the rear ends of the side portions of the seat frame, and a rear leg frame comprising side legs pivoted to the upper ends of the front legs and received in sleeves pivoted to the rear ends of the side portions of the seat frame, the front legs and the side portions of the back frame being in a common plane, and the side portions of the seat frame and the side portions of the rear leg frame being disposed on opposite sides of the front legs and the side portions of the back frame.

Yet a further object of this invention is to provide in a chair of the character described, arms pivoted at their rear ends to the side portions of the back frame, and connected at their forward ends by links to the upper ends of the front legs, said arms overlying the upper ends of the rear legs and being supported thereby, and said links permitting the back frame to be adjusted to two inclinations, and also permitting movement of the arms to a position to clear the rear legs when the chair is collapsed.

Still a further object of this invention is to provide in a chair of the character described, stop means on the rear legs to limit movement of the sleeve upwardly on the rear legs when the chair is opened up.

Yet another object of this invention is to provide a strong and durable chair of the character described, which shall be relatively inexpensive to manufacture, easy to manipulate, comfortable in use, and yet practical and efficient to a high degree in use.

Other objects of this invention will in part be obvious and in part hereinafter pointed out.

The invention accordingly consists in the features of construction, combinations of elements, and arrangement of parts which will be exemplified in the construction hereinafter described, and of which the scope of application will be indicated in the following claims.

In the accompanying drawings, in which is shown one of the various possible illustrative embodiments of this invention,

Fig. 1 is a perspective view of a chair embodying the invention, in position for use;

Fig. 2 is a side elevational view thereof;

Fig. 3 is a cross-sectional view taken on line 3—3 of Fig. 2;

Fig. 4 is a cross-sectional view taken on line 4—4 of Fig. 2;

Fig. 5 is a cross-sectional view taken on line 5—5 of Fig. 2;

Fig. 6 is a view similar to Fig. 2, but showing the chair back at a different angle;

Fig. 7 is a view of the chair when collapsed;

Fig. 8 is a view similar to Fig. 6, but showing the chair in partially collapsed position;

Fig. 9 is a cross-sectional view taken on line 9—9 of Fig. 2; and

Fig. 10 is a cross-sectional view taken on line 10—10 of Fig. 6.

Referring now in detail to the drawings, 10 designates a chair embodying the invention. Said chair comprises generally a front leg frame 11, a seat frame 12, a back frame 13, a rear leg frame 14 and arms 15.

The front leg frame 11 comprises a pair of upwardly and rearwardly inclined front legs 11a interconnected by a transverse cross-bar 17 at its lower ends.

The seat frame 12 comprises a pair of parallel side members 12a, interconnected at the front by a cross-bar 18, and at the rear by a cross-bar 19. The forward end of the seat frame 12 fits between the legs 11a and the side portions or members 12a thereof are pivoted to substantially the mid portions of said front legs, by pivot pins 20.

The side members 12a of the seat frame are formed with notches 22 on the underside thereof. The distance between the notches 22 and the pivot pins 20 is equal to the distance between the cross-bar 17 and said pivot pins, so that when the chair is collapsed, said cross-bar will fit into said notches.

Fixed to the outer surfaces of the side members 12a of the seat frame 12, adjacent their rear ends, are a pair of similar, upwardly extending plates 24. Pivoted to the upper ends of the plates 24,

as by pivot pins 25, are the side members 13a of the back frame 13. Said side members 13a are pivoted to the outer sides of the plates 24, and are hence in the planes of front legs 11a. The upper ends of the side members 13a are interconnected by a cross-bar 27.

Extending transversely through the side members 12a, and through the plates 24, are aligned horizontal pivot pins or bolts 30, and mounted on the outer ends of said bolts, are blocks 31 of wood or other suitable material, disposed in the planes of said side members 13a, and hence in the planes of the front legs 11a. Attached to each block 31 is a sleeve 32 having a top wall 33, a bottom wall 34, and a wall 35 parallel and spaced from said block. The top and bottom walls 33 and 34 are attached to the block 31 by screws 36. The top wall 33 and bottom wall 34 are each formed with a pair of parallel, transverse, depressed ridges 37, for the purpose hereinafter appearing.

Passing through the sleeves 32, are the rear legs or side members 14a of the rear leg frame 14. The upper ends of the rear legs 14a are pivoted, as at 40, to the upper ends of the front legs 11a. The ridges 37 prevent the edges of the sleeves from scraping the rear legs and facilitate sliding movement of the sleeves on said legs.

It will be noted that the rear legs 14a are disposed on the outside of the front legs 11a, whereas, the side members 12a of the seat frame are located on the inside of said front legs.

Attached to the mid portions of the rear legs 14a, are stop members 42 adapted to engage the sleeves 32 to limit upward movement of the sleeves on the rear legs, when seat frame 12 is in horizontal position. The lower ends of the rear legs 14a are interconnected by a cross-bar 45.

The arms 15 are pivoted to the outer sides of the side members 13a of the back frame 13, by pivot pins 46. The forward ends of the arms 15 are pivoted, as at 47, to links 48 which in turn are pivoted, as at 49, to the upper ends of the front legs 11a. Said links are located between said arms and said front legs. The forward ends of the arms 15 are located above the upper ends of the rear legs 14a, whereby said rear legs support the forward ends of said arms.

It will be noted that the inclination of the back frame may be adjusted from the position shown in Fig. 2 to the position shown in Fig. 6. In the position shown in Fig. 2, the links 48 extend from the pivot pins 49 forwardly, whereas, in Fig. 6, the links 48 extend from the pivot pins 49 rearwardly.

The canvas seat and back member 50 may be attached to the cross-bar 18 at one end, and to the cross-bar 27 at the other end in any suitable manner. Stitched to the underside of an intermediate portion of the member 50 is a sleeve 51 receiving the cross-bar 19.

When the chair is collapsed the sleeves 32 will move downwardly on the rear legs 14a and the front legs 11a will swing toward the rear legs 14a. The links 48 permit the arms 15 to swing to a position alongside the legs 14a. The front legs 11a move to a position between the rear legs and the side members of the seat.

As the chair is opened up or collapsed, the blocks 31 and the sleeves 32 fixed thereto, pivot about the pivot pins or bolts 30. The forward ends 31a of the blocks 31 are preferably curved to receive the lower ends of the front legs 11a, as shown in Fig. 7 of the drawings.

Mounted on the pivot pins 20, and depending therefrom are a pair of similar, symmetrically disposed, metal brackets 60. The brackets 60 comprise vertical plates 61, the upper ends whereof are formed with openings to receive the pivot pins 20, and sleeve portions 62 extending inwardly of said side members 12a, and disposed therebelow.

Supported by the brackets 60 is a footrest member 64. The same comprises a top frame 65, and a leg frame 66 pivoted thereto. The top frame 65 comprises side members 67 interconnected at the rear by a cross-bar 68, and at the front by a cross-bar 72. Cross-bars 68, 72 may be interconnected by longitudinal slats in the usual manner. The side members 67 pass through the sleeves 62. Pivoted to the forward ends of the side members 67, as at 70, and disposed on the inner sides thereof, are the side members 71 of the leg frame. Said side members 71 may be interconnected by a bottom cross-bar 73.

It will now be understood that the footrest may be moved to various adjusted positions, the side members 67 of the top frame sliding within the sleeves 62 during such adjustment. When the chair is collapsed the leg frame 66 thereof folds into the top frame 65, so that the entire footrest is alongside of the seat frame.

It will thus be seen that there is provided a device in which the several objects of this invention are achieved, and which is well adapted to meet the conditions of practical use.

As various possible embodiments might be made of the above invention, and as various changes might be made in the embodiment above set forth, it is to be understood that all matter herein set forth or shown in the accompanying drawings is to be interpreted as illustrative and not in a limiting sense.

Having thus described my invention, I claim as new and desire to secure by Letters Patent:

1. In a collapsible chair, a seat frame, a front leg frame pivoted to the forward end of the seat frame, a back frame pivoted at its lower end to the rear end of said seat frame, a rear leg frame pivoted on aligned pivot pins at its upper end to the front leg frame above the seat frame and below the upper end of the front leg frame, means on said seat frame to engage the rear leg frame, arms pivoted at their rear ends to the back frame, and links interconnecting said arms with portions of said front leg frame above said pivot pins, the forward ends of said arms overlying the upper end of the rear leg frame, said chair having means to support the forward ends of said arms.

2. In a collapsible chair comprising a front leg frame having a pair of side members, a seat frame comprising a pair of side members pivoted to intermediate portions of the side members of the front leg frame and disposed on the inner sides thereof, plates fixed to the outer sides of the rear portions of the side members of the seat frame and extending upwardly therefrom, a back frame comprising side members pivoted to the outer sides of said plates, blocks disposed below the side members of the back frame, and pivoted to the rear ends of the side members of the seat frame, sleeves fixed to said blocks, and a rear leg frame comprising side members pivoted at their upper ends to the outer sides of the side members of the front leg frame, and passing through said sleeves.

3. In a collapsible chair comprising a front leg frame having a pair of side members, a seat

frame comprising a pair of side members pivoted to intermediate portions of the side members of the front leg frame and disposed on the inner sides thereof, plates fixed to the outer sides of the rear portions of the side members of the seat frame and extending upwardly therefrom, a back frame comprising side members pivoted to the outer sides of said plates, blocks disposed below the side members of the back frame, and pivoted to the rear ends of the side members of the seat frame, sleeves fixed to said blocks, a rear leg frame comprising side members pivoted at their upper ends to the outer sides of the side members of the front leg frame, and passing through said sleeves, and stop members on the side members of the rear leg frame to limit sliding movement of the sleeves on the side members of the rear leg frame.

4. In a collapsible chair comprising a front leg frame having a pair of side members, a seat frame comprising a pair of side members pivoted to intermediate portions of the side members of the front leg frame and disposed on the inner sides thereof, plates fixed to the outer sides of the rear portions of the side members of the seat frame and extending upwardly therefrom, a back frame comprising side members pivoted to the outer sides of said plates, blocks disposed below the side members of the back frame, and pivoted to the rear ends of the side members of the seat frame, sleeves fixed to said blocks, a rear leg frame comprising side members pivoted at their upper ends to the outer sides of the side members of the front leg frame, and passing through said sleeves, and stop members on the side members of the rear leg frame to limit sliding movement of the sleeves on the side members of the rear leg frame, the top wall of each sleeve being formed with one or more transverse, depressed ridges, as and for the purpose described and specified.

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