Aug. 17, 1948. S. A. BRANDES ET AL 2,447,391

LATERALLY FOLDING CHAIR WITH TRAY

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Fig. 1

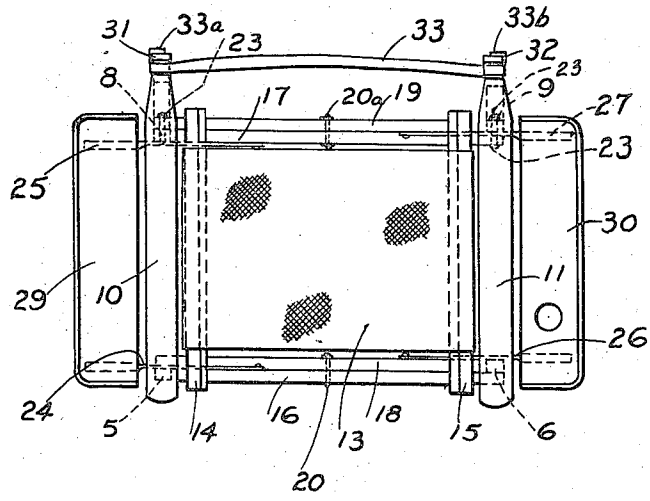
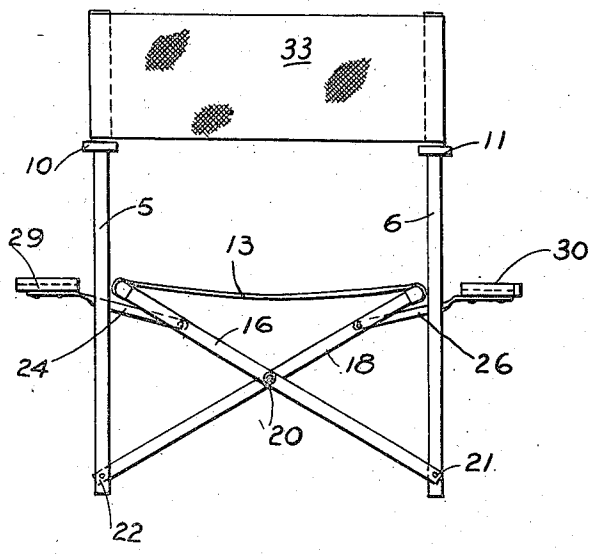


Fig. 2



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Fig. 3

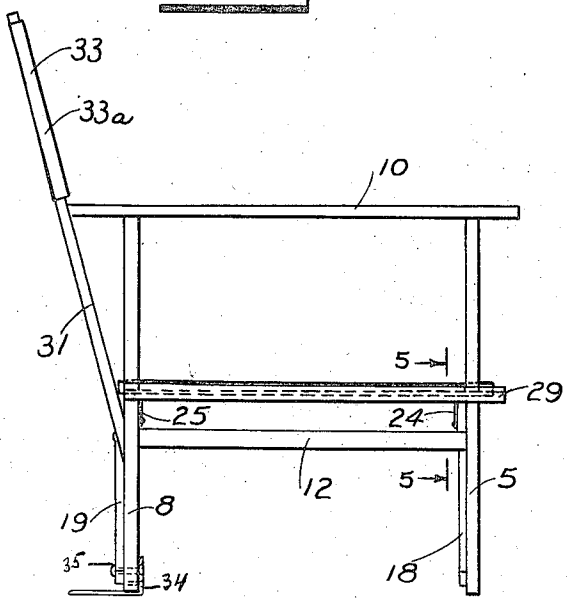


Fig. 6

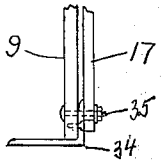


Fig. 4

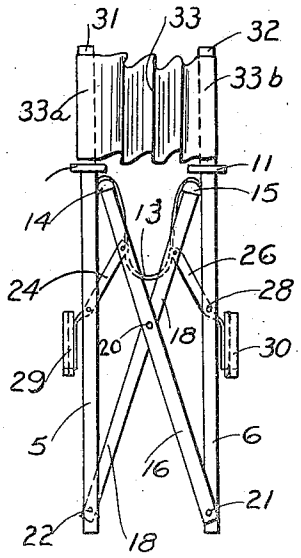
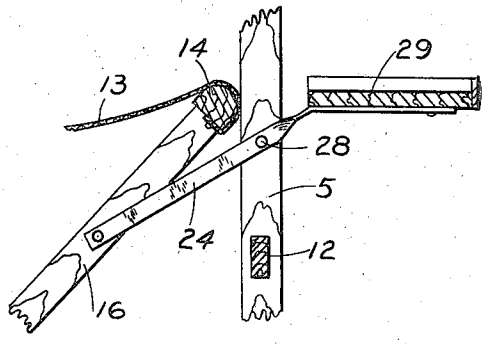


Fig. 5



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LATERALLY FOLDING CHAIR WITH TRAY

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3 Claims. (Cl. 155—140)

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This invention relates to folding chairs, and some of the objects thereof are to provide a beach chair or the like which is sturdy and stable in construction, easy to open and collapse, and which is self-supporting when in closed or folded position.

Another object of the invention is the provision of a folding chair with a service shelf or shelves, which are pivotally supported on each pair of the legs and arranged to fold or swing to horizontal position to support various small objects, such as drinking glasses, etc., and to swing against the legs when the chair is completely folded.

With the above and other objects in view, the invention comprises certain new and useful constructions, combinations, and arrangements of parts, clearly described in the following specification, and fully illustrated in the drawings, in which:

Fig. 1 is a top plan view of the chair in open service position.

Fig. 2 is a front elevation thereof.

Fig. 3 is a side elevation.

Fig. 4 is a front elevation, showing the chair folded or collapsed.

Fig. 5 is a detail vertical sectional view, taken on line 5—5 of Fig. 3, looking in the direction of the arrows, and somewhat enlarged, showing the means for supporting the folding service shelf or leaf.

Fig. 6 is an enlarged detail view of the angle irons 34 shown in Fig. 3, said angle irons being inserted for the purpose of improving the stability of the chair and being fastened to the body by the bolts 35.

Referring to the accompanying drawings, which illustrate a practical embodiment of the invention, 5 designates one front leg and 6 the companion front leg. 8 and 9 designate the rear legs. These legs are of equal height or length, and one leg is disposed in each corner of the chair structure.

As shown in Fig. 1, the upper ends of the legs 5 and 8 are connected to each other by means of the horizontal arm rest or support 10, and the upper ends of the legs 6 and 9 are connected to each other by means of a similar horizontal arm rest 11. The legs 5 and 8 are also connected to each other by the rung 12, and the legs 6 and 9 are similarly connected to each other by another rung, both rungs being fitted in mortised holes formed in the legs.

A fabric seat 13 is supported between the legs by side bars 14 and 15. The side bar 14 is rigidly connected to the upper ends of the braces 16 and 17, at the ends of said side bar, and the side bar 15 is rigidly connected at its ends to the braces 18 and 19. Braces 16 and 18 are pivotally connected to each other at 20, and braces 17 and 19 are similarly pivotally connected to each other at 20a.

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The lower end of the front braces 16 and 18 are pivotally connected by the pins or screws 21 and 22 with the lower end portions of the front legs 5 and 6, and the lower ends of the rear braces 17 and 19 are pivotally connected with the lower end portions of the rear legs 8 and 9, by means of the pins or screws 23.

The braces 16 and 17 are pivotally connected by the levers 24 and 25 to the legs 5 and 8. The braces 18 and 19 are pivotally connected to the legs 6 and 9 by the levers 26 and 27. Each lever is pivotally connected to its leg by a pin or screw 28, as shown in Fig. 5.

The upper and outer end of each lever is turned and supports one end of a service shelf or leaf. A leaf 29 is supported on the outer ends of the levers 24 and 25, and another leaf 30 is supported on the outer ends of the levers 26 and 27.

The rear ends of the arm rests 10 and 11 are extended rearwardly and are connected with the inclined back supporting bars 31 and 32, the upper ends of which are extended above the level of the arm rests 10 and 11. A fabric back rest 33 is connected at its ends to the back supporting bars 31 and 32, by end loops 33a and 33b, which receive the bars 31 and 32.

The chair is folded or collapsed by pushing side legs 5 and 8 toward side legs 6 and 9. This causes the lower ends of braces 16, 17, 18, and 19 to swing toward each other, thereby elevating the upper ends of said braces, and thereby swinging the outer ends of the levers downwardly, to bring the service shelves or leafs 29 and 30 against the sides of the folded chair structure. As the levers 24, 25, 26, and 27 are swung by the upwardly moving braces, the legs 5 and 8 move inwardly at the same time that legs 6 and 9 move inwardly, thereby collapsing the fabric seat and the fabric back rest at the same time.

The folding action of the improved chair permits of the opening of the chair, by pressing outwardly toward the sides on the side bars 14 and 15, and it is impossible for the parts of the chair to become interlocked or entangled, so as to prevent the easy opening of the chair, to supporting position, or its easy closing to folded position.

The chair may also be opened by pushing the

side legs 5 and 8 outwardly from the side legs 6 and 9, or closed by lifting the side bars 14 and 15 upwardly.

It will be observed from Fig. 4 that when the chair is in the closed or folded position, it will be self-supporting and will remain in a vertical position and not fall or topple.

It is understood that various changes in the details of construction, their combination and arrangement, may be resorted to, within the scope of the invention, as defined by the claims hereof.

We claim:

1. A folding chair, comprising right legs rigidly connected to each other, left legs rigidly connected to each other, front folding braces pivotally connected to each other and at the lower ends thereof to one right leg and one left leg, rear folding braces pivotally connected to each other and at the lower ends thereof to one right leg and to one left leg, a top cross bar connecting the braces which are pivotally connected with the right legs, a top cross bar connecting the brace members which are connected with the left legs, a fabric seat carried by said top cross members, levers pivotally connected with the front folding braces and with the forward right and left legs, and service shelves connected with the outer ends of the levers.

2. A folding chair, comprising spaced vertical right side legs, and equally spaced vertical left side legs, levers pivotally mounted on said right side and left side legs, a first pair of folding braces connecting the right side legs to the levers mounted on the left side legs, a second pair of folding braces pivotally connected to said first pair of folding braces and connecting the left side legs to the levers mounted on the right side legs, a collapsible seat carried by said braces, and a service shelf connected with the outer ends of a pair of the levers, the legs of each side being rigidly connected and adapted to move apart from each other while remaining in vertical planes.

3. A folding chair as claimed in claim 2 in which service shelves are connected to the outer ends of the levers.

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