March 18, 1947. W. OVERDICK 2,417,439

CHAIR

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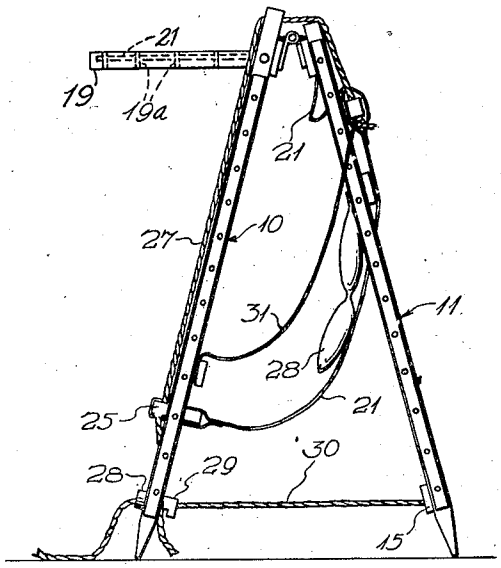


Fig. 1

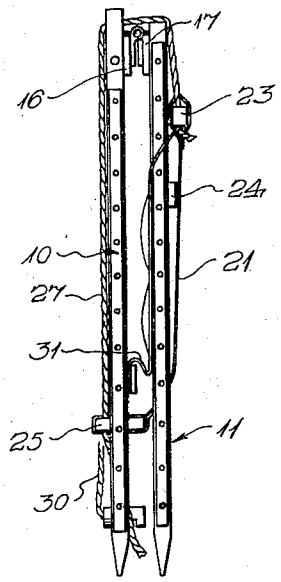


Fig. 3

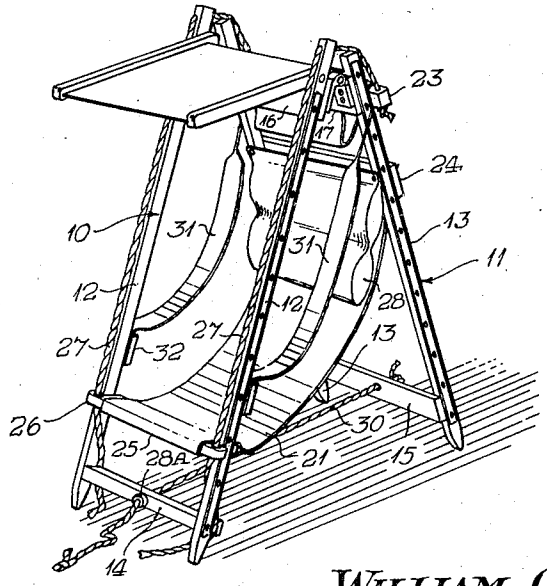


Fig. 2

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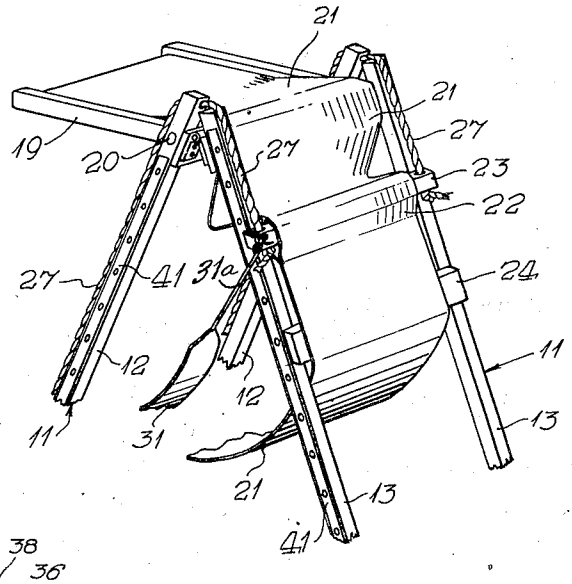


Fig. 4.

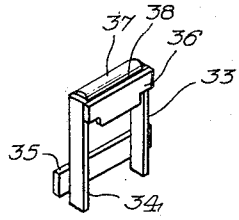


Fig. 6

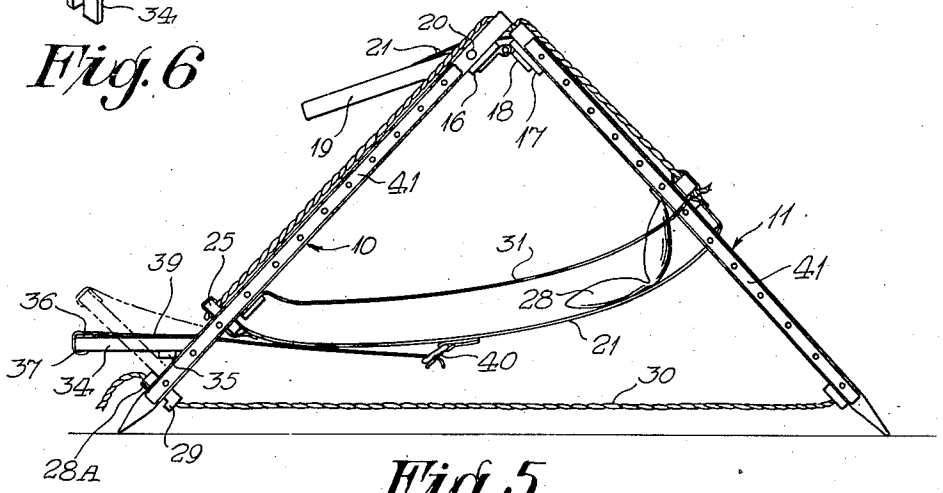


Fig. 5

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UNITED STATES PATENT OFFICE

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CHAIR

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2 Claims. (Cl. 155—117)

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This invention relates to chairs, and aims to provide a chair of novel and practical construction which may be readily adjusted to alter the relative position of its parts to provide different types of accommodations. For instance, the chair is readily adjustable to provide a relatively high or a relatively low seat, a hammock or bed, and also, when in folded or collapsed condition, a stretcher. A chair of the sort herein disclosed could be advantageously used in hospitals or rest camps or homes for convalescing casualties of the armed forces and thereby facilitate and speed their complete recovery.

The above and other objects will be set forth in the following description, reference being had to the accompanying drawings, wherein characters of reference refer to like-named parts in the description. It is to be noted that the drawings are intended for the purpose of illustration only, and that it is neither intended nor desired to limit the invention necessarily to the specific details of construction shown excepting insofar as they may be deemed essential to the invention.

Referring briefly to the drawings:

Fig. 1 is a side elevational view of the chair with the seat in one position.

Fig. 2 is a front perspective view of the same.

Fig. 3 is a side elevational view of the seat in folded or collapsed condition, in which condition it may be used as a stretcher.

Fig. 4 is a fragmentary rear perspective view of the upper part of the chair of Fig. 2.

Fig. 5 is a side elevational view of the chair when used as a hammock or bed.

Fig. 6 is a perspective view of an attachment adapted to be inserted into the forward frame member of the chair to increase the length of the seat for use as a hammock or bed as shown in Fig. 5.

Referring in detail to the drawings, the numerals 10 and 11 indicate the forward and rear frame members respectively, which are formed of two parallel legs 12 and 13, respectively united by cross members 14 and 15 respectively at the bottom and cross members 16 and 17 respectively at the top. The two members 10 and 11 are mutually hinged together at their upper ends by providing hinges 18 having their leaves secured to the upper cross members 16 and 17.

A frame member 19 is pivotally secured at one end at 20 to the frame members 10 and extends forward therefrom to provide a shade for the chair; the frictional engagement of the sides of this member with the frame members permits of

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its being frictionally held in any position within the limit of its swing.

A sheet of canvas or the like 21 has its upper end stretched and secured by any suitable means, as by tacks 19a, between the boundaries of the frame member 19, and passes around the cross member 17 and down the rear frame member 11. Partway down a transverse opening is formed transversely through the canvas by means of a strip 22 sewed thereon along the upper and lower edges of the strip, and a cross member 23 is loosely inserted into the said opening, the member 23 being longer than the distance between legs 13 so that it lies against the latter and is adapted to slide up or down the rear frame to carry the canvas with it. A second cross member 24, of substantially the same dimensions as the member 23, is secured below the latter to the legs 13 and the canvas 21 is passed therearound. A loose cross member 25 is slidably positioned between the front legs 12 and has ears on the ends thereof, 26, contacting the front edges of these legs. The lower end of the canvas 21 is secured about the member 25.

Openings are provided through the ears 26, through which ropes 27 are passed up the forward edges of the legs 12, through openings in the upper ends of these legs, rearward over the tops of the rear legs 13, through openings in the cross member 23, and knots are formed on the lower extremities of the ropes just below the member 23. The forward ends of the ropes 27 are adapted to be tied about the cross member 14, and when this is done it is apparent that the canvas 21 provides an arched seat, as shown in Fig. 2. The weight of a person sitting in this seat tautens the canvas and thereby secures the slidable cross members 23 and 25 fixedly. A cushion 28 is provided at the head position of the canvas, by securing its upper edge to the frame members 13.

Transverse openings pass centrally through the cross members 14 and 15, and the former has a hollow sleeve 28a frictionally held therein and extending therethrough, with the rear end formed into a hook 29. A rope 30, secured to the rear member 15, passes through the tube 28, and it is apparent that loosening or taking up on this rope will increase or decrease the distance between the front and rear members 10 and 11. The rope 30 may be secured at its free end about the hook 29.

Strips of canvas or the like 31 have their upper ends 31a narrowed to form strings, and they are suspended from the ends of the cross member 23 by tying the strings about the ends of the latter

their lower ends are secured by blocks or the like 32 to the front legs 12. These strips obviously serve as arm rests.

The manner of converting the chair from the form shown in Fig. 2 to that of Fig. 3, and vice versa, is obvious. It may also obviously be formed into a hammock or bed by lowering the member 23 and spreading the frame members 10 and 11, in which condition it will resemble Fig. 5. In the latter figure, however, an extension frame has been added. This comprises the frame 33 having spaced legs 34 provided with a lower cross member 35 secured thereto and extending beyond the legs, and an upper cross member 36 also secured thereto. A cylindrical rod 37 is secured between the upper ends of the legs 34 spaced slightly from the member 36, the space between the rod 37 and the member 36 being indicated at 38.

A length or extension of canvas 39 has one end frictionally clamped between the rod 37 and member 36 and is doubled over the top and rearward, and its other end is secured in the fashion of a strap to an elongated buckle 40 which is shown only in end view in Fig. 5 and which hangs from the bottom of the canvas 21. When assembled as in Fig. 5, the tautness of the canvas 39 will urge the member 35 against the legs 12, and when a person lies in the bed thus formed his feet will rest on the extension frame 33. The latter may also be moved into the position shown in broken lines in Fig. 5, as is obvious, for use of the device as a hammock.

The legs 12 and 13 are reinforced with lateral strips 41 of any suitable metal.

Obviously, modifications in form and structure may be made without departing from the spirit and scope of the invention.

I claim:

1. A chair comprising a front and a rear frame, each of said frames comprising a pair of spaced legs, said frames being hinged together at their upper ends, a length of fabric, means securing one end of said length of fabric to the top of said frames, said fabric extending down on said rear frame, a cross member of greater length than the distance between said rear frame legs secured to and extending across said fabric and having the extremities thereof frictionally engaging the rear sides of said rear frame legs, said cross member being thereby slidably mounted on said rear frame legs in a direction at right angles to said cross member and longitudinal with respect to said rear frame legs to carry said fabric therewith, a fixed cross member secured to said rear frame legs and having said fabric passing behind the same in a downward and forward direction, a cross member having a portion of greater length than the distance between said front frame legs having the extremities thereof frictionally engaging the front sides of said front frame legs, said last-named cross member being thereby slidably mounted on and between said front frame legs in a direction at right angles to said last-named cross member and longitudinal with respect to said front frame legs, said fabric after passing around said fixed cross member as aforesaid passing between said frames and having its free end secured to said last-named cross member, ropes passing slidably through the ends of said last-named cross member, said front frame legs having openings through the upper ends thereof, said ropes passing upward from said last-named cross member along said front frame legs and through said openings and down along said rear frame legs and having their ends secured to said first-named cross member, the other ends of said ropes extending in the opposite direction from said last-named cross member for a distance and being adapted to be tied to said front frame.

2. The chair set forth in claim 1, having strips of fabric secured at one end to the ends of said first-named slidable cross member and at the other end to said front frame legs above said last-named slidable cross member.

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