Nov. 12, 1929. C. E. STALTER 1,735,513

COLLAPSIBLE FURNITURE

Filed July 9, 1927

Fig. 1.

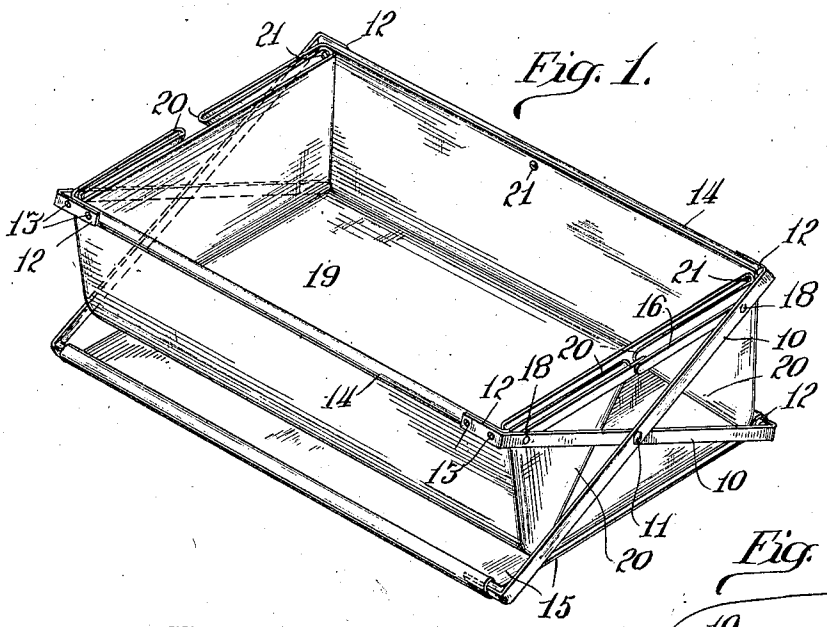


Fig. 2.

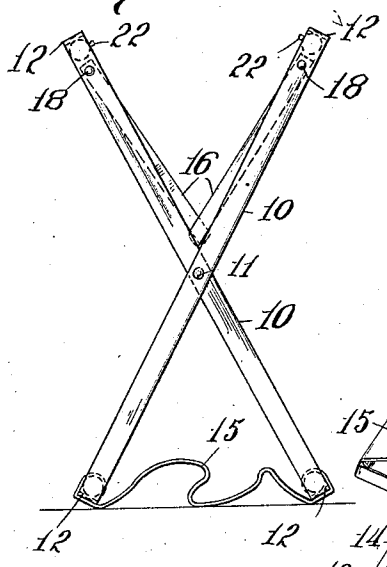


Fig. 3.

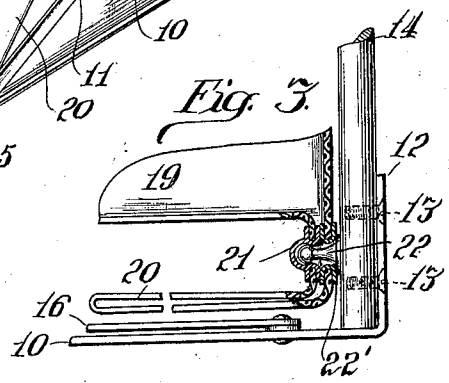
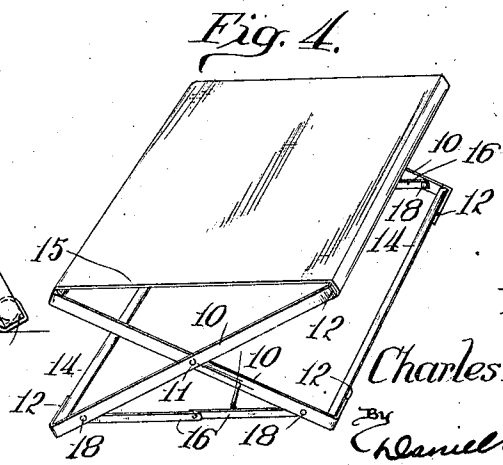


Fig. 4.



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UNITED STATES PATENT OFFICE

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COLLAPSIBLE FURNITURE

Application filed July 9, 1927. Serial No. 204,464.

The invention relates to improvements in collapsible furniture and has for its primary object the provision of a construction of this character adapted and arranged to serve as a collapsible bath tub or the like.

Another object of the invention is the provision of an improved construction of this character which is efficient in operation and capable of economical manufacture.

Another object of the invention is the provision of a collapsible article of furniture capable of various uses.

Other objects will appear hereinafter.

In general the objects of the invention are attained by providing a collapsible open top skeleton frame and a co-operating collapsible tub member. The collapsible tub member is made from a rectangular sheet of waterproof material formed into rectangular vessel form by folding the corners thereof into triangular folds resting against the ends of said vessel, said vessel being inserted into said frame with said triangular folds imprisoned between the ends of the tub member and the ends of the frame whereby the weight of material in the tub member will hold said sheet in vessel form. The upper side edges of said tub member are detachably secured to the upper sides of said frame.

The invention consists in the combinations and arrangements of parts hereinafter described and claimed.

The invention will be best understood by reference to the accompanying drawings forming a part of this specification and in which—

Fig. 1 is a perspective view of a device shown in position of use;

Fig. 2 an end view of the frame of the device shown partially collapsed;

Fig. 3 an enlarged detail view of one corner of the frame, and

Fig. 4 a perspective view of the frame reversed in position and useable as a seat.

The preferred form of construction as illustrated in the drawings comprises a collapsible frame made up of metal end bars 10 crossed upon each other and pivoted centrally at 11 to each other, there being one of said end members consisting of two of said pivoted end bars at each end of said frame. The ends of the end bars 10 are bent inwardly to form securing ears or lugs 12 which are perforated for the passage of rivets 13 securing wooden side bars 14 thereto as shown, each end of each end bar being thus connected with the corresponding end of the corresponding bar in the other end member, thereby forming a collapsible open top frame, as shown. The lower side bars 14 are connected by a collapsible sheet 15 of canvas or the like, and the upper ends of each pair of end bars 10 are connected by two foldable links 16 pivotally connected to each other at 17 and to said end bars at 18. The links 16 and the sheet 15 serve as means for limiting the swing of the end bars 10 in one direction thereby holding said bars in distended form and capable of bearing weight. The sheet 15 constitutes the bottom of the frame thus provided and also when said frame is reversed, as indicated in Fig. 4, it will serve as a seat. The foldable brace members 16 also co-operate with the sheet 15 to limit swing of the end bars 10 in one direction, thereby relieving said sheet 15 of undue strain, and said brace 16 also constitutes a top bar for the frame when distended as indicated in Fig. 1.

A tub member 19 co-operates with the frame thus provided and is supported thereby. Said tub member consists of a rectangular sheet of waterproof material folded as indicated into rectangular vessel form to fit within the collapsible frame, the corners of said sheet being formed into triangular folds 20 resting against the ends of said vessel and also against the inner sides of the brace members 16 and whereby the weight of the water or other liquid in the tub member 19 will press said folds 20 against said brace member 16 and thereby hold the same in place and prevent outward collapse of the tub member. The tub member is also provided with a plurality of snap fastening elements 21 arranged along its side edges and the upper side bars 14 of the frame are provided with co-operating snap members 22 for quick detachable engagement with the snap members 21 thereby detachably fastening the upper side edges of said tub member to said

frame and preventing outward collapse of said tub member when filled with liquid. The triangular folds 20 are provided with eyelets 22′ fitting over the end fastenings 22 and held thereon by fastening 21 whereby said end folds are further held in place.

By this arrangement a simple and effective collapsible tub or vessel is provided which may be readily folded into compact space for transportation and readily distended for use as desired. The collapsible frame cooperating with the tub member is also capable for use as a folding camp chair or the like.

While the preferred form of construction for carrying the invention into effect has been illustrated and described this is capable of variation and modification without departing from the spirit of the invention. It is, therefore, not desired to limit the patent to the precise details disclosed but to include therein also such variations and modifications as fall within the scope of the appended claims.

I claim—

1. A device of the class described comprising a collapsible frame, said frame consisting of two end bars pivoted to each other centrally at each end of said frame, side bars connecting the ends of each set of end bars with the ends of the bars of the other set, a flexible sheet connecting the said side bars at the bottom of said frame, and foldable links connecting the upper portions of each pair of end bars; and a tub member made of a sheet of flexible waterproof material foldable into vessel form and insertable in said frame.

2. A device of the class described comprising a collapsible frame, said frame consisting of two end bars pivoted to each other centrally at each end of said frame, side bars connecting the ends of each set of end bars with the ends of the bars of the other set, a flexible sheet connecting the said side bar at the bottom of said frame, foldable links connecting the upper portions of each pair of end bars; a tub member made of a rectangular sheet of flexible waterproof material foldable into vessel form, the corners of said sheet being folded into triangular folds resting against the ends of said vessel, said vessel being inserted in said frame with said triangular folds resting against the ends of said frame and there held by the pressure of the contents of said tub member; and detachable snap fasteners securing the upper side edges of said tub member to the upper side bars of said frame.

3. A device of the class described comprising a foldable frame, each end of said frame comprising two crossed bars pivoted to each other centrally, the ends of said bars being connected with the corresponding ends of the bars in the other end member by transverse side bars, thereby forming a collapsible triangular frame; a sheet of flexible material connecting the lower side bars; and a pair of pivoted foldable links connecting the upper ends of each pair of end bars.

4. A tub member made of a rectangular sheet of flexible waterproof material folded into vessel form, the corners of said sheet being formed into triangular folds resting against the ends of said vessel; a frame open at the top to receive said vessel, a flexible sheet forming a base for said frame, said triangular folds being imprisoned between the ends of said vessel and the ends of said frame, and detachable clips securing said vessel to said frame.

In testimony whereof I affix my signature at 1609 First Nat'l Bank Bldg., Detroit, Mich.

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