July 8, 1924. 1,500,388

C. HEUMADER

FOLDABLE FURNITURE COMBINATION

Filed July 19, 1921 2 Sheets-Sheet 1

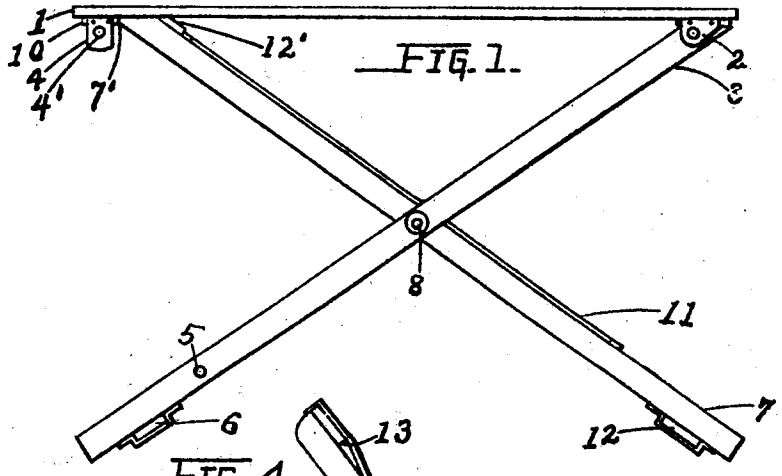


FIG. 1.

FIG. 4.

FIG. 3.

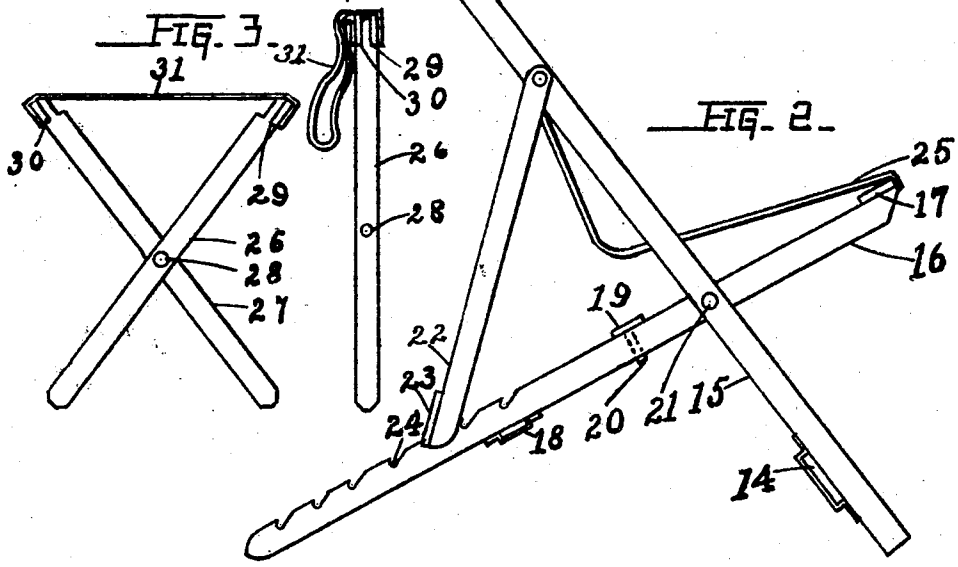


FIG. 2.

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FIG. 5.

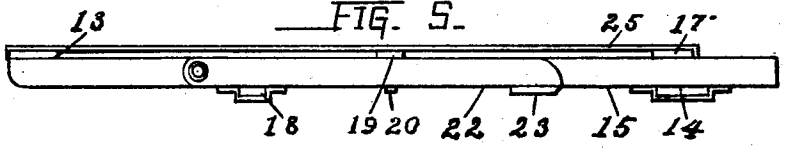


FIG. 6

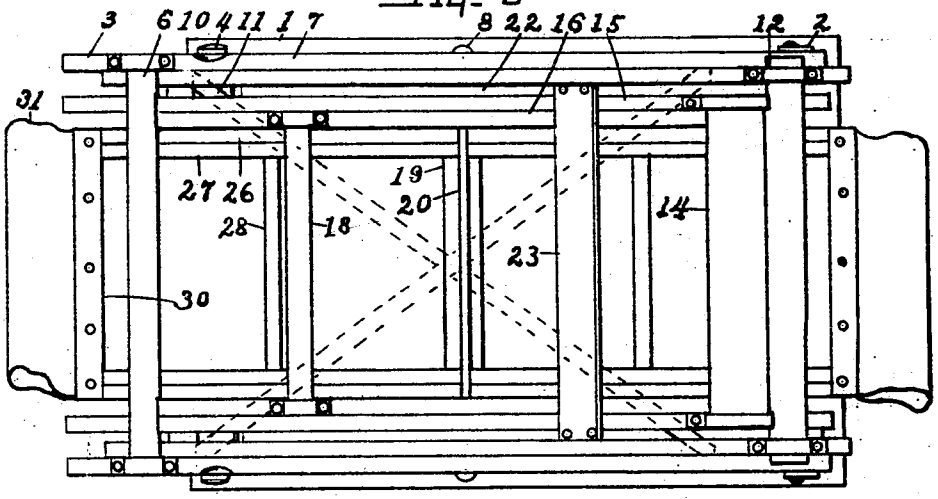


FIG. 7.

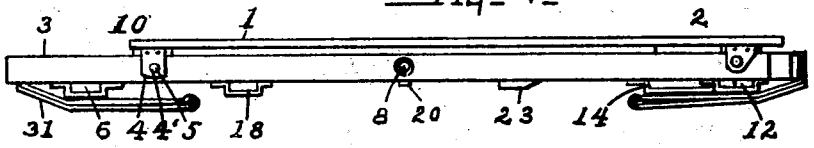
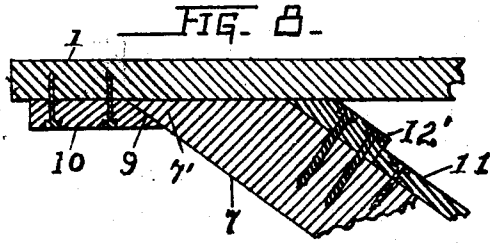


FIG. 8.



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UNITED STATES PATENT OFFICE.

CHRISTIAN HEUMADER, OF ST. JOSEPH, MISSOURI.

FOLDABLE FURNITURE COMBINATION.

Application filed July 19, 1921. Serial No. 485,823.

To all whom it may concern:

Be it known that I, CHRISTIAN HEUMADER, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Foldable Furniture Combinations, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in that class of foldable furniture which, when folded, forms substantial crates, in which other pieces of foldable furniture are detachably held, for storage and transportation, and the objects of my improvements are, first; to provide a plurality of pieces of foldable furniture, which shall be simple, substantial and durable, and of which the smaller pieces of furniture can be crated and held in the larger ones, without the use of any detached or special parts, second; to so construct a plurality of pieces of foldable furniture that the smaller ones of said pieces can be folded and crated in the larger ones and can be separated and erected by using the minimum amount of labor and time, third; to construct a plurality of foldable pieces of furniture, which shall be neat in appearance, light of weight, and in which certain portions of the fabric seats are used as cushions for protecting parts of the furniture and objects against which said parts are placed, from injury by abrasion, arising from the vibration of the automobile or other vehicle, on which said foldable furniture is carried.

I attain these objects by the devices illustrated in the accompanying drawings, in which:

Figure 1 is a side view of the table, erected ready for use.

Fig. 2 is similar view of the foldable reclining camp chair.

Fig. 3 is a side view of one of the two foldable camp stools, showing the parts in erected position. Fig. 4 is an edge view of the stool seen in Fig. 3, its parts being folded. Fig. 5 is a similar view of the camp chair. Fig. 6 is a bottom view of the table, seen in Fig. 1, showing its parts in folded position, with the camp chair and stools crated therebetween. Fig. 7 is an edge view of the parts seen in Fig. 6, showing the fabric seats of the stools, folded in position for acting as cushions. Fig. 8 is a vertical section in detail, of one of the inner leg securing means, of the table, seen in Fig. 1.

Referring to Fig. 1, each side of the table top 1, is provided with a pair of legs, and since the legs of each pair are similar in construction and operation, but one pair of said legs is described in detail. The hinge 2 pivotally connects the upper end of the leg 3, with said table top 1. The opposite end of said leg is detachably connected with the adjacent corner of said table top, (see Fig. 7,) by the elastic plate 4, through which the aperture 4′ is formed, through which aperture, the stud 5 is passed. Said stud is secured in the end portion of said leg which is adjacent to said plate. The lower ends of the pair of legs 3, are secured together by the tie slat 6, the ends of which slat are secured on said legs.

The inner leg 7 is pivotally connected with the outer leg 3, by the pivot 8. The upper end portion 7′ of said leg 7, is formed wedge shaped, (see Fig. 8,) and is inserted in the notch 9, which is formed in one edge portion of the slat 10. Said slat is secured on the under surface of the table top 1, transversely, and near one end of said top. The ends of the diagonally disposed braces 11, are secured on the pair of inner legs 7, as seen in Figs. 1 and 6, for holding said inner legs and the therewith connected table top against lateral movement, when said table is in the position seen in Fig. 1.

The tie slats 12 and 12′ are secured on the lower and upper edges, respectively of said pair of legs 7.

Referring to Fig. 2, the foldable, reclining camp chair comprises the following described parts. The ends of the slats 13 and 14 are secured on the front and the rear edges of the upper and the lower end portions respectively, of the outer side pieces 15. The inner side pieces 16 are similarly provided with the tie slats 17 and 18.

The ends of the tie slat 19 are secured on the upper edges of the intermediate portions of said inner side pieces.

The stop strip 20 is secured on the lower surface of said tie slat 19, for limiting inward movement of the camp stools when the same are moved from the position seen in Fig. 4, to the position seen in Fig. 6.

Said outer and inner side pieces 15 and 16 respectively, are pivotally connected by the pivot 21. The upper ends of the braces 22

are oscillatably connected with said outer side pieces respectively. The lower ends of said braces are connected by the tie slat 23, the end portions of the lower edge of which are inserted in the notches 24, for adjusting and detachably securing said outer side pieces and the therewith connected parts at various angles of inclination. Said notches are formed in the upper edges of the rear portions of said inner side pieces.

The upper edge of the sheet 25 (which may be of fabric or leather), is secured on the upper edge of the slat 13, and the lower edge of said sheet is secured on the front edge of the slat 17. Said sheet forms the back and the seat of the camp chair.

Referring to Fig. 3, the outer and the inner side pieces 26 and 27 respectively, are oscillatably connected in pairs by the stool round 28. The upper ends of said outer and inner side pieces respectively, are provided with the tie pieces 29 and 30, secured thereon. Opposite edges of the sheet 31 (which may be of either fabric or leather), are secured on the outer surfaces of said tie pieces. The previously described camp stool is made in duplicate, as seen in Fig. 6.

In the operation of crating the described camp chair and stools beneath the table, with the parts in the positions seen in Figs. 3, 2 and 1, the operator folds the parts of said camp chair, from the position seen in Fig. 2, to the position seen in Fig. 5, after which he places it upon the slats 6 and 12, of the table, with the slat 14 against the inner edge of the slat 12. Said operator then lifts the end of the table top 1 and the therebeneath secured slat 10, until the wedge shaped end portions 7′ of the legs 7 are thereby disengaged from the notches 9, seen best in Fig. 8.

Said operator thereafter, retards the downward movement of the table, which gravitates from the position seen in Fig. 1, to the position seen in Fig. 7. Said operator then forces said end of said table downward, thereby forcing the lower end portion of the elastic plate 4 past the stud 5, until the latter is in register with the aperture 4′, upon which the elasticity of said plate moves its aperture over said stud.

The thus connected parts secure the camp chair in its position beneath the table. The two camp stools are folded from the position seen in Fig. 3 to the position seen in Fig. 4, after which said operator moves said stools from the latter position, to the position seen in Fig. 6, with their legs stopped against the stop strip 20. He then folds the sheets 31 into the position seen in Fig. 7, for protecting the thus covered parts from abrasion, and for cushioning said parts against objects with which they would be in contact in transportation, such as an automobile seat and the like.

By reversing the previously described folding and crating operations, the stools, chair and table are easily and quickly separated and erected, ready for use.

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

In a foldable table, a top, pairs of crossed legs at opposite sides of the table top and with one leg of each pair hinged to one end of the top, a stop depending from the other end of the top and adapted to receive the upper ends of the other crossed legs thereagainst to support the table in set up position, said crossed legs being pivotally connected in independent pairs, cross braces secured against the lower edges of said legs and adapted to support a folded chair thereon between the legs, and braces secured across the upper edges of the legs which engage said stop for engagement with the upper side of the folded chair when the legs are collapsed, said braces being spaced apart the width of said legs to provide an uninterrupted compartment from end to end of the structure.

In testimony whereof I affix my signature.

CHRISTIAN HEUMADER.