Oct. 10, 1939. W. S. TUCK 2,175,979

COMBINATION CHAIR AND TABLE

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FIG. 1.

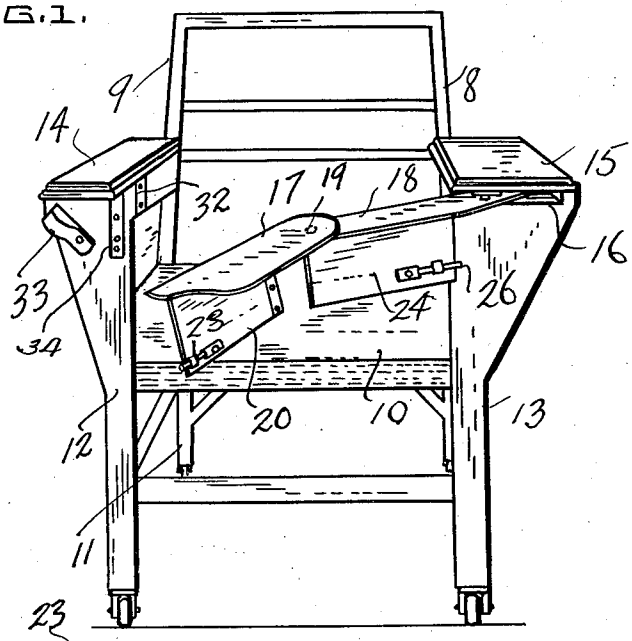


FIG. 2.

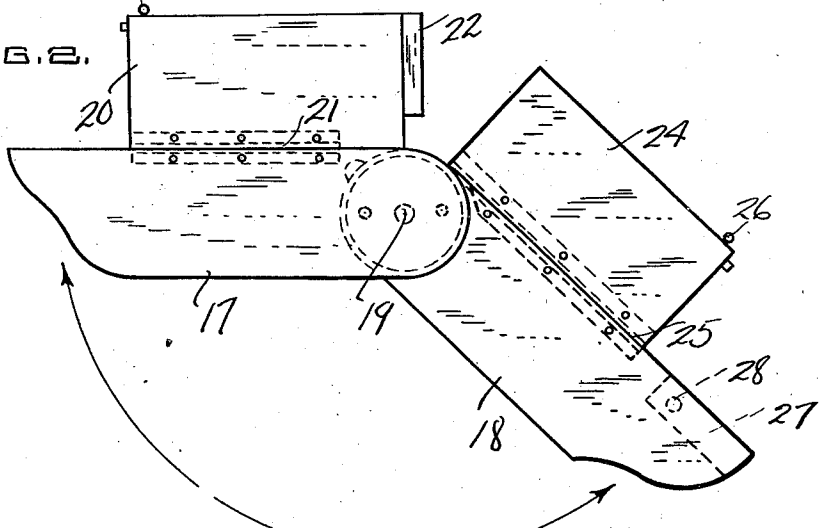
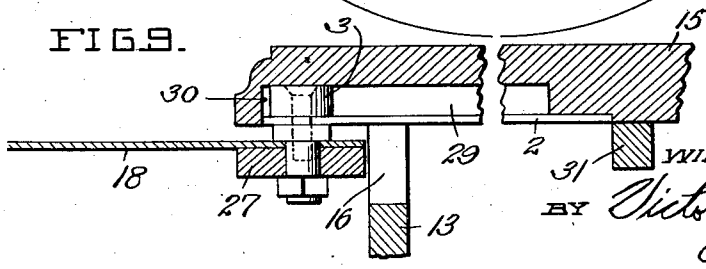


FIG. 3.



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FIG. 3.

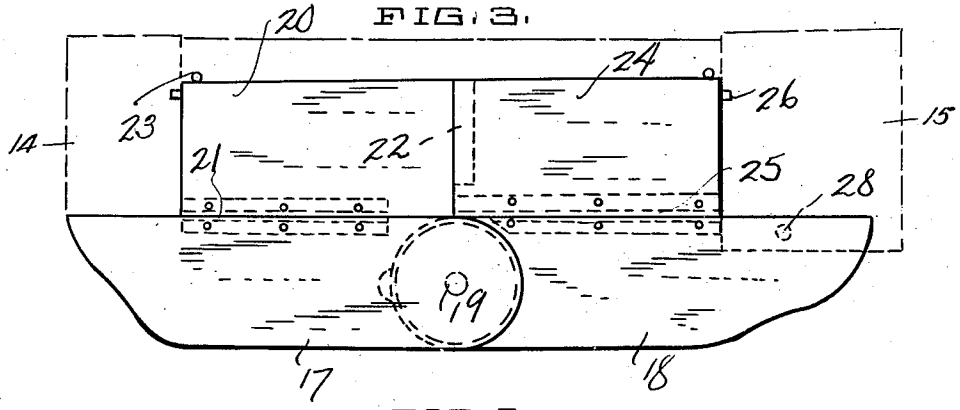


FIG. 4.

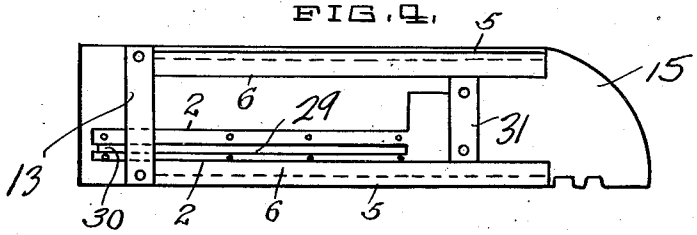


FIG. 5.

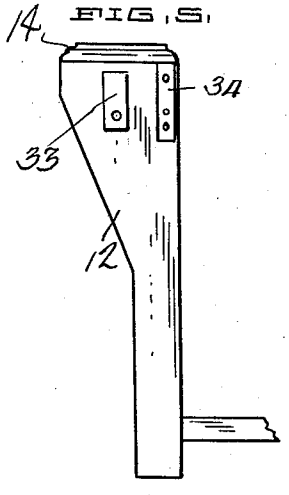


FIG. 6.

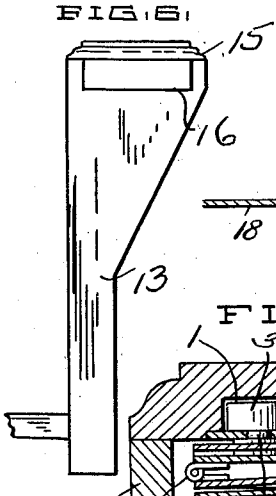


FIG. 7.

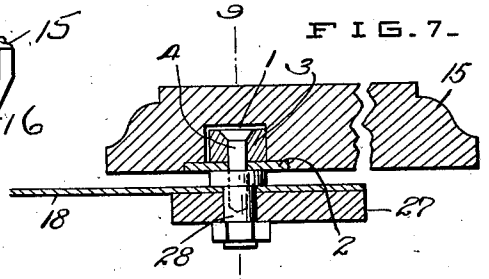
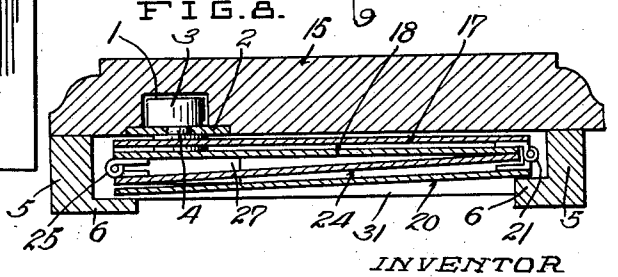


FIG. 8.



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COMBINATION CHAIR AND TABLE

William S. Tuck, Gardena, Calif.

Application November 2, 1937, Serial No. 172,484

2 Claims. (Cl. 155—127)

This invention relates to new and useful improvements in combination chairs and tables, and has particular reference to a chair to which a swingable and disappearing table may be attached.

The principal object of the invention is to provide a combination chair and table that may be useful in hospitals for invalids, or for home use.

A further object of the invention is to produce a combination chair and table of this character and compact, that is provided in one leg of the chair is a slot in which the table after being folded is inserted for disposal out of sight.

A still further object of the invention is to provide an easy chair of this character having a foldable table that is normally concealed below one arm thereof, and which includes foldable table elements that when drawn from below the arm are unfolded and rigidly supported directly in front of the user to provide a flat table surface having considerable area for receiving articles, food, or medical supplies for disposal in convenient reach of the user.

Other objects and advantages will be apparent during the course of the following description.

In the accompanying drawings forming a part of this specification and in which like numerals are employed to designate like parts throughout the same,

Fig. 1 is a perspective view of my improved combination chair and table with the foldable table thereof removed from the arm rest and in partially open position;

Fig. 2 is a plan view of the pivoted arms of the table and the table leaf elements thereof in partially open position;

Fig. 3 is a plan view similar to Fig. 2, but showing the pivoted arms and table leaves in fixed position for use;

Fig. 4 is an underside view of the arm rest of the chair, to which the guide elements for the table, are attached;

Fig. 5 is a front elevation illustrating one of the front legs of the chair, with a stop strip and turn button secured thereto;

Fig. 6 is a front elevation illustrating the opposite front leg and the arm of Fig. 4, below which the foldable elements of the table are concealed;

Fig. 7 is an enlarged sectional detail view taken through the pivot means for connecting the table to the arm rest of Figs. 4 and 6;

Fig. 8 is a transverse sectional view taken through the table receiving arm rest, with the table folded and concealed below the same;

Fig. 9 is a sectional view taken approximately on line 9—9 of Fig. 7.

Referring to the drawings in detail, and particularly to Fig. 1, the reference numeral 8 indicates a chair which may be of any form and constructed from any material to provide a back 9, a seat 10, rear legs 11 and front leg sections 12 and 13 including rearwardly directed aprons for the arm rests, as shown. The front leg 12 is provided with an arm rest 14 and the leg 13 is provided with an arm rest 15, the leg 13 having a slot 16 in the upper end thereof and through which the table is passed when in folded position for disposal below the arm rest 15 to be concealed thereby, as clearly shown in Fig. 8.

The table consists of flat arms 17 and 18 pivotally connected together adjacent one of the ends thereof through the medium of a pivot pin 19 extending centrally from a disk shaped wear plate secured to the arm 18, as shown in dotted lines in Fig. 2. The arm 17 is provided with a foldable table element or leaf 20 hinged thereto by an offset hinge 21 as best shown in Fig. 8 and secured to the inner end of the table element 20 is an extension plate 22. The table element 20 is likewise provided with a sliding bolt 23 at its outer end, and hingedly secured to the arm 18 by a hinge 25 is a table element 24 provided with a sliding bolt 26 at its outer end, and it will be obvious upon inspection of Fig. 3, that the extension plate 22 underlies the inner end of the table element 24 to hold the table elements flush with each other when the table is supported in operative position, as shown in that figure.

The arm 18 has secured to the underside thereof a plate 27, and this plate has fixed thereto pivot means including a threaded stud 28, for connecting the table to the arm rest 15 for pivotal and slidable movement with respect thereto, as and for a purpose which will be presently described.

Extending longitudinally of and in the underside of the arm rest 15 is a groove 1 and secured upon opposite sides of the groove along the length thereof are parallel strips 2 underlying the groove to cooperate therewith to provide a track 29 for a roller 3 disposed for travel within the groove and rotatably mounted on a screw bolt 4 threaded in and rising from the stud 28, as best shown in Fig. 7.

Secured to the underside of the arm rest 15 along the longitudinal edge portions thereof are flanged members 5, with the flanges 6 thereof in-

wardly directed toward each other to provide a guideway for the folded table and to support the same when in inoperative or concealed position below the arm rest 15, as clearly shown in Fig. 8.

The forward end of the groove 1 terminates adjacent to the forward end of the arm rest and provides a stop 30 for the roller 3, to limit the forward movement thereof, and bridging the flanged members 5 adjacent to the rear ends thereof is a stop member 31 arranged in the path of the arm 18 to limit the rearward movement of the table, thus it will be seen that the latter is pivotally and slidably connected to the arm rest against any possibility of disconnection therefrom.

Fixed to the confronting faces of the aprons extending rearwardly from the legs 12 and 13 are catch plates 32, as shown in Fig. 1, for receiving the bolts 23 and 26 when the table is positioned in use, as shown in Fig. 3, and pivotally secured to the front face of the leg 12 is a turn button 33 having a flat upper surface for engagement with the underside of the arm 17 to aid in supporting the table, in use, as will be apparent. Suitable means such as a stop strip 34 may be secured to the front face of the leg 12 for disposal in the path of the arm 17.

From the above description and disclosure in the drawings, it will be obvious that when the table is in its operative position, or in other words in position for use, as shown in Fig. 3, it will be rigidly supported in front of the chair for receiving articles, etc., in convenient reach of a person seated in the chair, and the table is held accordingly by the bolts 23 and 26, the pivotal connection between the arm 18 and the arm rest 15, the extension plate 22, and the turn button 33. When it is desired to move the table to its inoperative position or out of use, the bolts are released and the arm 17 is swung on the pivot 19 for disposal in folded position over the arm 18, then the element or leaf 24 is folded under the arm 18 and the element or leaf 20 is then folded under the element 24, as clearly shown in Fig. 8. The folded members are then moved on their pivotal connection with the arm rest 15 and passed through the slot 16 to be supported by the flanges 6 in concealed position below the arm rest, as likewise shown in Fig. 8.

It is thought from the foregoing description that the advantages and novel features of the invention will be readily apparent.

It is to be understood that changes may be made in the construction and in the combination and arrangement of the several parts, provided that such changes fall within the scope of the appended claims.

Having thus described my invention, I claim:

1. In a combination chair and table of the class described, said chair having leg sections and arm rests, one of said leg sections being slotted at its upper end, a track on the underside of the arm rest overlying said slot, said table including an arm, means pivotally connecting the arm to the latter arm rest and slidably mounted in the track, a second arm pivoted to the first mentioned arm and foldable over the latter, foldable table elements hinged to each of said arms and adapted to fold under said arms for the disposal of said arms and table elements in superimposed relation with respect to each other, said arms and table elements when folded being adapted to be moved through said slot and housed under the arm rest over said slot, and bolts carried by said table elements and capable of engaging said leg sections to hold all of said foldable members together as a unit when said members are withdrawn from under said arm rest through said slot and extended in alignment and in front of the chair.

2. In a combination chair and table of the class described, said chair having leg sections and arm rests, one of said leg sections being slotted at its upper end, a track on the underside of the arm rest overlying said slot, said table including an arm, means pivotally connecting the arm to the latter arm rest and including a roller slidably mounted in the track, a second arm pivoted to said first mentioned arm and foldable over the latter, foldable table elements hinged to each of said arms and adapted to fold under said arms for disposal of said arms and table elements in superimposed relation with respect to each other, said arms and table elements when folded being adapted to be moved through said slot and housed under the arm rest over said slot, bolts carried by said table elements and capable of engaging said leg sections to hold all of said foldable members together as a unit when said members are withdrawn from under said arm rest through said slot and extended in alignment and in front of the chair, and means carried by one of said table elements to underlie and engage the other table element for supporting said table elements flush with each other when in use.

WILLIAM S. TUCK.