June 19, 1934. L. BOOTHE 1,963,347

FURNITURE

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FIG. 1.

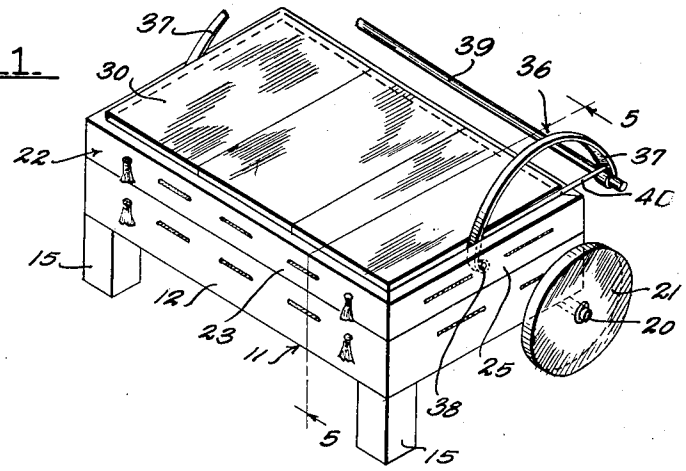


FIG. 2.

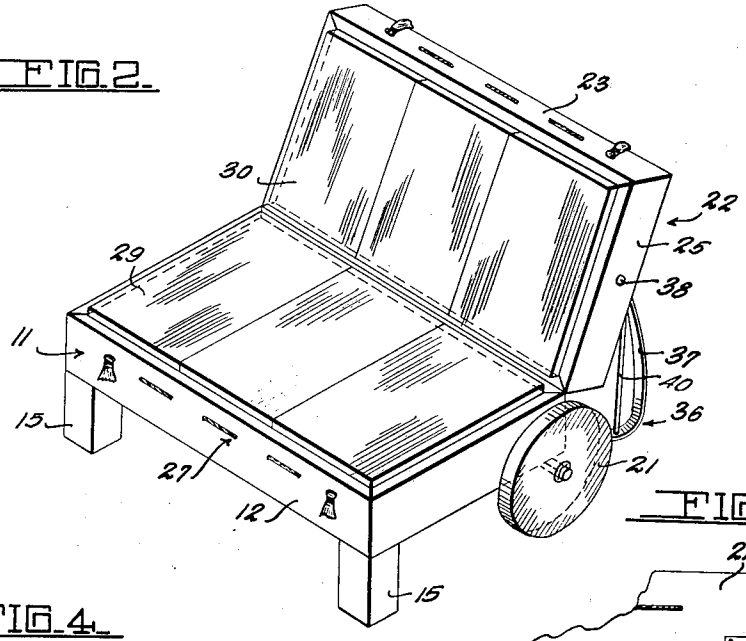


FIG. 9.

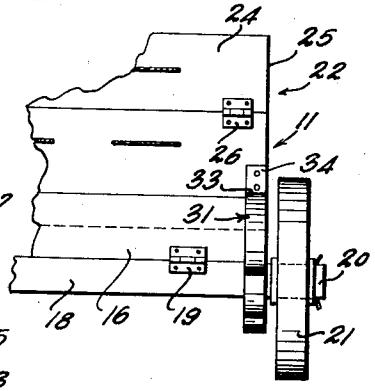
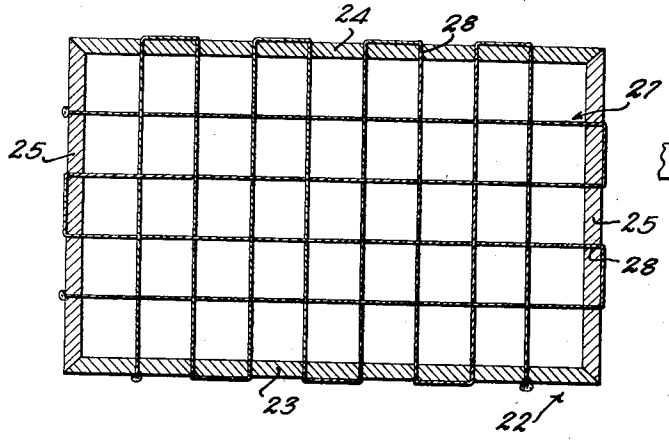


FIG. 4.



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FURNITURE

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FIG. 3.

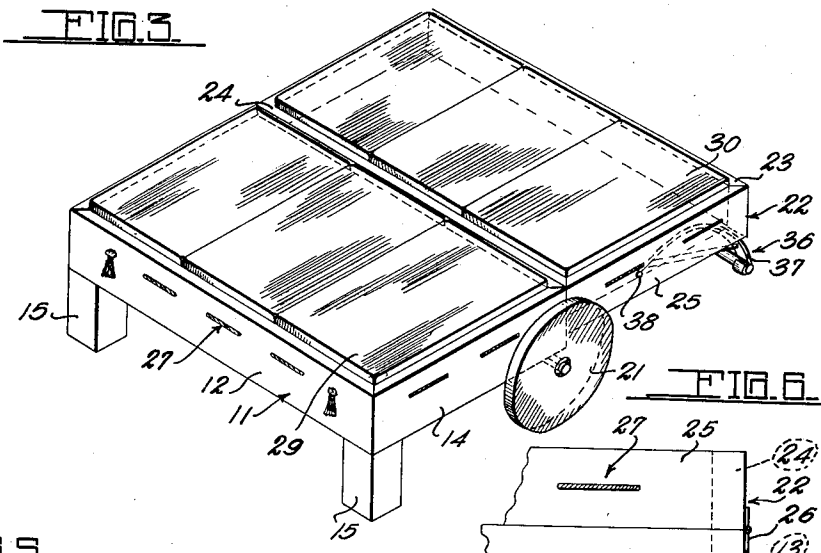


FIG. 6.

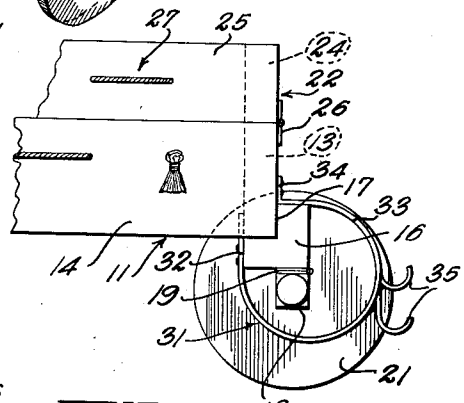


FIG. 5.

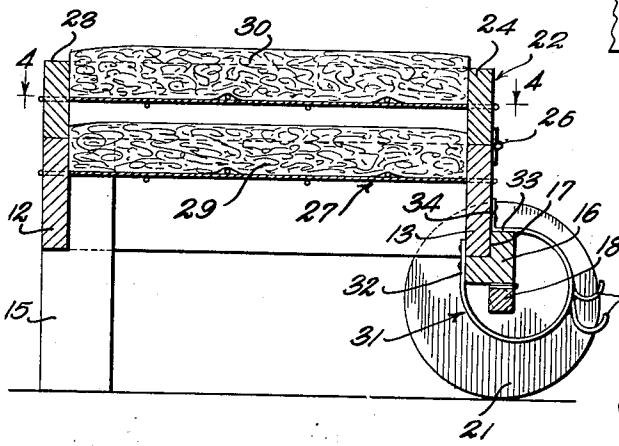


FIG. 7.

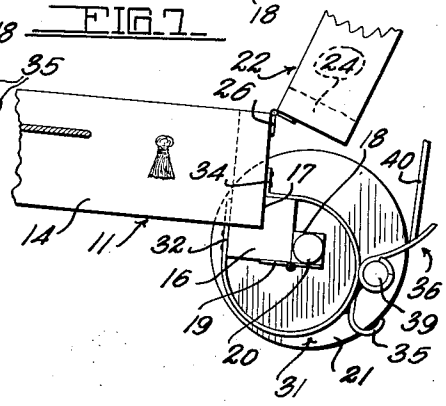
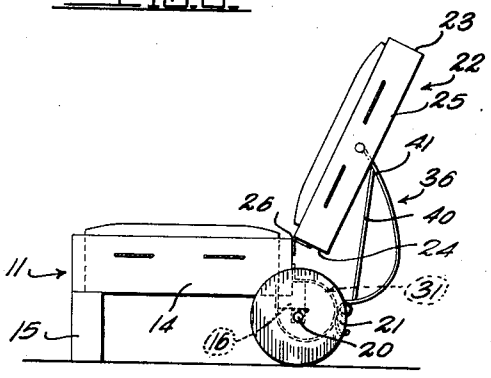


FIG. 8.



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Patented June 19, 1934 1,963,347

UNITED STATES PATENT OFFICE

1,963,347

FURNITURE

Laurence Boothe, Los Angeles, Calif.

Application October 29, 1931, Serial No. 571,797

12 Claims. (Cl. 155—41)

The type of furniture to which my invention relates is a combination chair, stool, and bed construction having a pair of wheels for ready shifting of the device and a pair of legs with a removable handle connected to the back.

An object and feature of my invention is an article of furniture which, for instance, may be used as a lounge chair with the seat horizontal or the seat may be tilted downwardly at the back to give a slightly more reclining position. In addition, the back may be tilted to allow further reclining in the device as a chair. It may be completely extended with the seat and the back in the same plane, in which position the article of furniture may be used as a bed for children or two of such articles placed together may be used as a single or double bed for adults. Again, the back structure and the seat may be folded or hinged over the seat and may be used as a stool or as a low table.

A detailed object of my invention is an article of furniture in which both the seat and the back are formed of rectangular frame members hinged together. These frame members have an upholstery support formed in the manner of stretched ropes, cords, or wires, upon which cushions may be placed, and as regards the back the cushions may be placed on one side of the supporting mattress and form a chair back or with the seat cushions part of a bed or lounge, and when the back frame is folded over the seat the cushions may be reversed on the back structure and form the upper upholstery for a stool or a serving table.

Another object and feature of my invention is having the back of the seat frame supported on wheels and having the wheels hingedly connected to the seat frame so that the seat frame may occupy either a raised or a lowered position relative to the axle, thus having the seat horizontal or tilted downwardly toward the back.

Other features of my invention comprise supporting arms or braces pivotally connected to the chair back and adjustably fitting in brackets to vary the tilt or reclining of the chair back or to support this back when completely extended when the device is used as a lounge, couch, or bed.

My invention is illustrated in connection with the accompanying drawings, in which:

Fig. 1 is a perspective view with the article of furniture arranged to form a stool or, if desired, a low serving table;

Fig. 2 is a perspective view with the device positioned to form a lounge chair with the seat horizontal;

Fig. 3 is a perspective view with the article of furniture extended to form a lounge or part of a lounge bed;

Fig. 4 is a horizontal section on the line 4—4 of Fig. 5 in the direction of the arrows showing the mattress support for the upholstery cushions;

Fig. 5 is a vertical section on the line 5—5 of Fig. 1 in the direction of the arrows, showing the seat frame in its elevated position with reference to the axle;

Fig. 6 is a side elevation with one of the wheels removed illustrating the raised position of the seat frame relative to the axle and the brackets for supporting the brace for the back;

Fig. 7 is an elevation similar to Fig. 6 with the axle tilted on a hinge to another position, lowering the back of the seat;

Fig. 8 is a side elevation to illustrate the manner of adjusting the back;

Fig. 9 is a rear view of one corner.

In my construction I employ a rectangular, relatively heavy seat frame 11 which may be considered as having front and back parts 12 and 13 and opposite ends 14. This has substantial legs 15 at the front and at the back lower edge has a heavy block 16 connected thereto or else two blocks, one at each side. These blocks have an L-shaped notch 17 to fit on the outside and lower edge of the back part 13. Connected to this block 16 there is a squared axle 18, this connection being by hinges 19, the pintle of the hinge being at the lower rear corner of the block 16. This allows the axle to tilt relative to the block 16 from the position shown in Fig. 6 to that of Fig. 7 or vice versa. The axle has rounded ends 20 on which are mounted wheels 21, these wheels being held in position in any suitable manner.

A back frame 22 is made rectangular and of the same size as the seat frame 11. This may be considered as having an upper rail 23 and a lower rail 24 with side bars 25. This frame is hinged to the seat frame by hinges 26 connected to the back part 13 of the seat frame and the lower rail 24 of the back frame. Each of these frames is provided with a mattress 27, which mattress is formed of ropes or cords laced through perforations 28 in the frame boards of the seat and back frames, these ropes or cords intersecting and being stretched taut. The mattress in the back frame is positioned between the top and bottom edges of such frame. A set of seat cushions 29 may be placed on the seat mattress and

another set of back cushions 30 may be placed on the mattress in the back frame. These cushions form the upholstery and are readily removable.

For tilting the back to different positions a curved brace 31 is formed of a metal strap having one end 32 secured to one face of the block 16 in alignment with the inside edge of the back part 13 of the seat frame, having its other end 33 extending over the top edge of the block 16 and preferably having a bent end 34 secured to the outside surface of the back part 13. This frame has a plurality of hooks 35 connected thereto and extending outwardly toward the rear, these hooks being of different lengths and spaced apart.

A supporting arm 36 comprises a metal bow 37 having one end attached to a pivot pin 38, which pin extends through the side bars 25 of the back frame, the bow being pivoted on the inside part of this frame and fitting between the frame and one of the seat cushions when this is arranged in the position shown in Fig. 1. The other end of each bow is connected to a cross bar 39. A metal brace 40 is attached to the bow 37 adjacent its connection to the bar 39 and to a position adjacent the other end of the bow as indicated at 41, this being such that the brace 37 may rest horizontally on the upper edge of the back frame when this is in the folded-down position of Fig. 1. The bar 39 is designed to engage in the hooks 35 and support the seat back tilted in various degrees for reclining the back, or this bar with the ends of the bows may engage the floor to support the seat back when extended in the position of Fig. 3.

In the use of my invention I may fold the back frame over the seat frame in the position shown in Fig. 1 and place the cushions belonging to the back on the upper side of the mattress in this frame. The device may then be used as a stool as shown in Fig. 1 or this may be used as a low serving table on which trays may be placed. The back frame may then be tilted up into the position shown in Fig. 2, the back cushions being reversed on the mattress of the back frame, thus forming a chair back upholstery. Different degrees of tilt may be obtained to the back by adjusting the supporting braces and the hooks 35. If it is desired to have the seat horizontal the axle is positioned underneath the block 16, and to tilt the seat downwardly at the back the axle is hinged on the block to the position shown in Fig. 7. The seat back may remain in its adjusted position while this tilt of the wheels is made. The back frame may be extended into a horizontal position in alignment with the seat frame, in which case the block 16 should be in its elevated position and the device may then form a type of lounge, and if it is made double width for two people this will accommodate two children, or two of these articles of furniture may be placed end to end and form a bed of sufficient length for two adults. Manifestly, the device may be made in sizes suitable for only one person.

The wheels facilitate the ready shifting of this article of furniture from one place to another.

Various changes may be made in the details of construction without departing from the spirit or scope of the invention as defined by the appended claims.

I claim:

1. An article of furniture having a seat frame, a back frame hinged thereto, means to support upholstery in both frames, said supporting means permitting placing the upholstery on opposite sides of the back frame, the hinge permitting folding the back frame on top of the seat frame or extending the back frame in alignment with the seat frame, and supporting arms pivotally connected to the back frame intermediate the edges thereof and adapted to engage the floor and part of the back frame to support the back frame in alignment with the seat frame.

2. An article of furniture as claimed in claim 1, the seat frame having supports, one of which is tiltable to raise and lower the back of the seat frame, and means connected with the seat frame to engage the supporting arms to support the back frame in an adjusted position to the seat frame to form a chair with a seat and an upwardly extended back.

3. An article of furniture having a seat structure with a frame, a back frame hinged thereto to fold on the seat or to extend in alignment therewith, supporting arms pivotally connected to the back frame intermediate the edges thereof to engage the floor and part of the back frame and to hold the back in alignment with the seat, a mattress structure centrally positioned in the back frame, and removable upholstery to fit on opposite sides of said mattress.

4. An article of furniture having a seat and a back hingedly connected to permit folding of the back over the seat or extending into alignment therewith, an axle hinged to a rear edge of the seat to occupy a forward or rearward position relative to said rear edge and having wheels and in a forward position being substantially under the seat and in a rearward position offset laterally therefrom and thereby tilting the seat, and means to support the back when extended in alignment with the seat.

5. An article of furniture as claimed in claim 4, the means to support the back comprising bow-shaped arms having a metal brace connected thereto, the bow-shaped arms being pivotally connected to the sides of the back, the metal brace being adapted to engage an edge of the back when folded over the seat, and the bow being adapted to engage another edge of the back and the floor when such back is extended in alignment with the seat.

6. An article of furniture having a seat with legs at the front, an axle hinged to the rear edge of the seat and adapted to be positioned substantially therebelow or to be turned about the hinge to a position offset to one side of said edge, wheels on the axle, a circular-shaped brace encircling the axle and having hooks connected thereto, a back hinged to the seat to fold thereover or to be inclined relative thereto or extend in alignment with the seat, supporting arms pivotally connected with the back and adapted to engage the hooks to support the back inclined or to engage the floor to support the back extended.

7. An article of furniture as claimed in claim 6, the supporting arms being each formed of a curved bow with a straight brace connected adjacent the end portions of the bow, the free end of a bow being adapted to engage the floor and the curved part of the bow to engage an upper edge of the seat back to support said back when in the extended position.

8. An article of manufacture having a seat, an axle hinged to the seat adjacent the rear edge, said axle having wheels, the axle being tiltable into a forward position substantially under the seat to hold the back of the seat elevated and in a hinged position offset laterally therefrom to support the seat in a tilted position.

9. An article of manufacture having a rectangular seat frame and means to support seat upholstery therein, an axle hinged to the rear end of the seat frame, wheels on the axle, the axle when in a forward position being substantially under the rear end of the seat frame and when in a rearward position being offset laterally therefrom, thereby tilting the seat, a back frame hinged to the rear end of the seat frame and having bow-shaped arms pivotally connected thereto, the back frame being adapted to fold over the seat frame, and such bows being adapted to engage a rear part of the back frame and form arm rests, said back frame being adapted to extend in alignment with the seat frame, and said bows being adapted to engage a former front part of the back frame and the floor and support said back frame in alignment with the seat frame.

10. An article of manufacture having a seat, an axle hinged adjacent the rear end thereof, said axle having floor engaging elements, the axle being tiltable to occupy a forward position substantially under the rear edge of the seat or a second position beside the rear edge of such seat and thereby permitting tilting of the seat.

11. An article of manufacture having a seat with a block secured to the rear lower edge, an axle hinged to said block to be positioned either directly below the block or to one side of the block, and floor engaging elements secured to the axle, said elements having a curved section engaging the floor.

12. An article of manufacture comprising a seat frame, a seat carried by said seat frame, a seat back hinged to said seat frame, and adapted to fold over upon the seat frame or to be extended to align with seat frame said seat back comprising a frame with upper and lower rails, a pair of supporting arms each pivoted at one end to said back frame between the upper and lower rails and having a portion curved outwardly from the back frame and having a straight portion extending across said curved portion, said straight portions being engageable with the lower rail when said back frame is folded upon the seat frame and said bows extending upwardly therefrom to form arm rests, a portion of said bows engaging said upper rail when the seat back is extended and the free ends of said arms engaging the floor to hold said seat back in alignment with said seat in extended position.

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