

March 2, 1943.

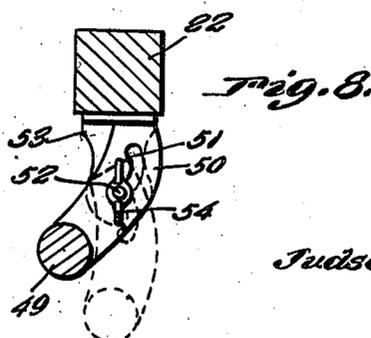
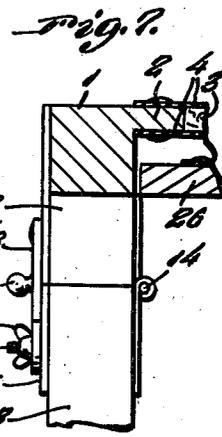
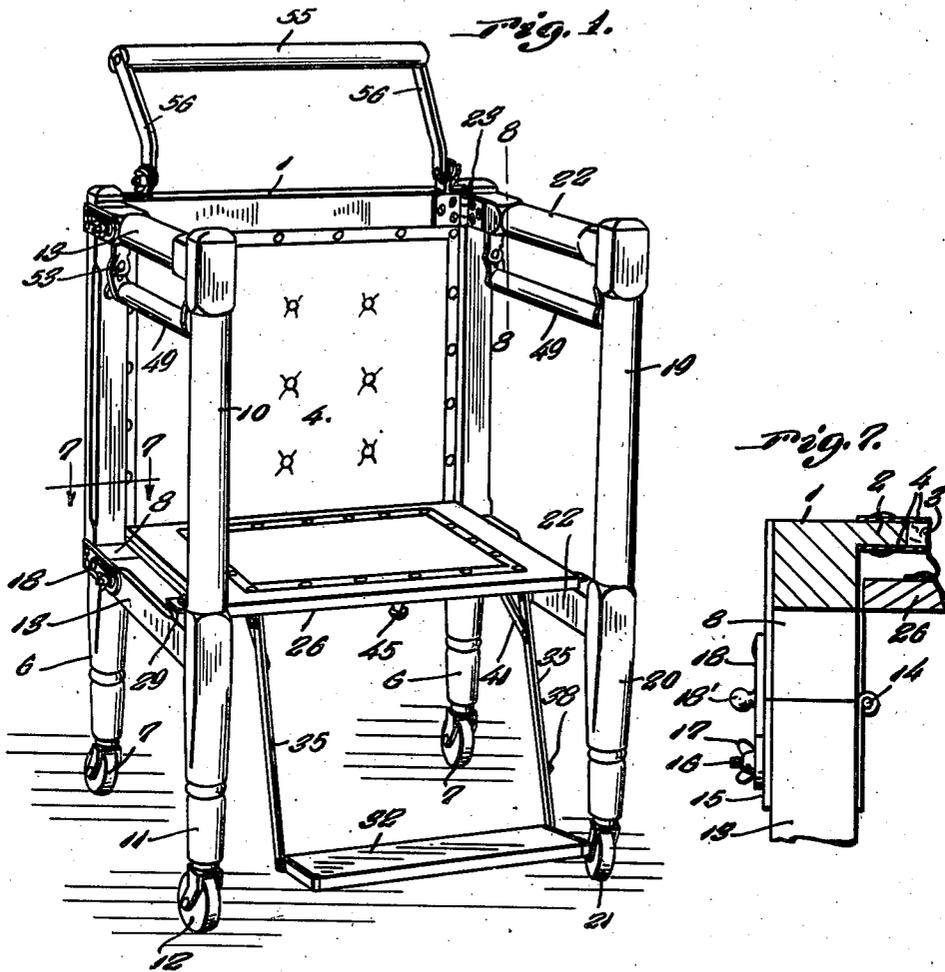
J. O. TAYLOR

2,312,602

WALKER AND ROLLING CHAIR

Filed July 2, 1941

3 Sheets-Sheet 1



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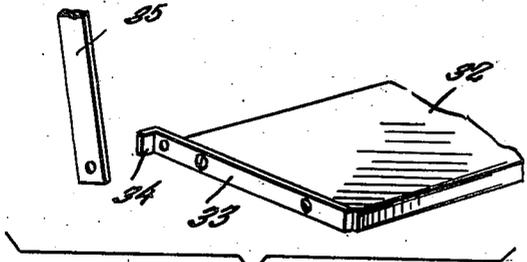
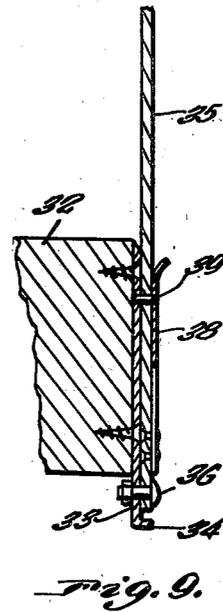
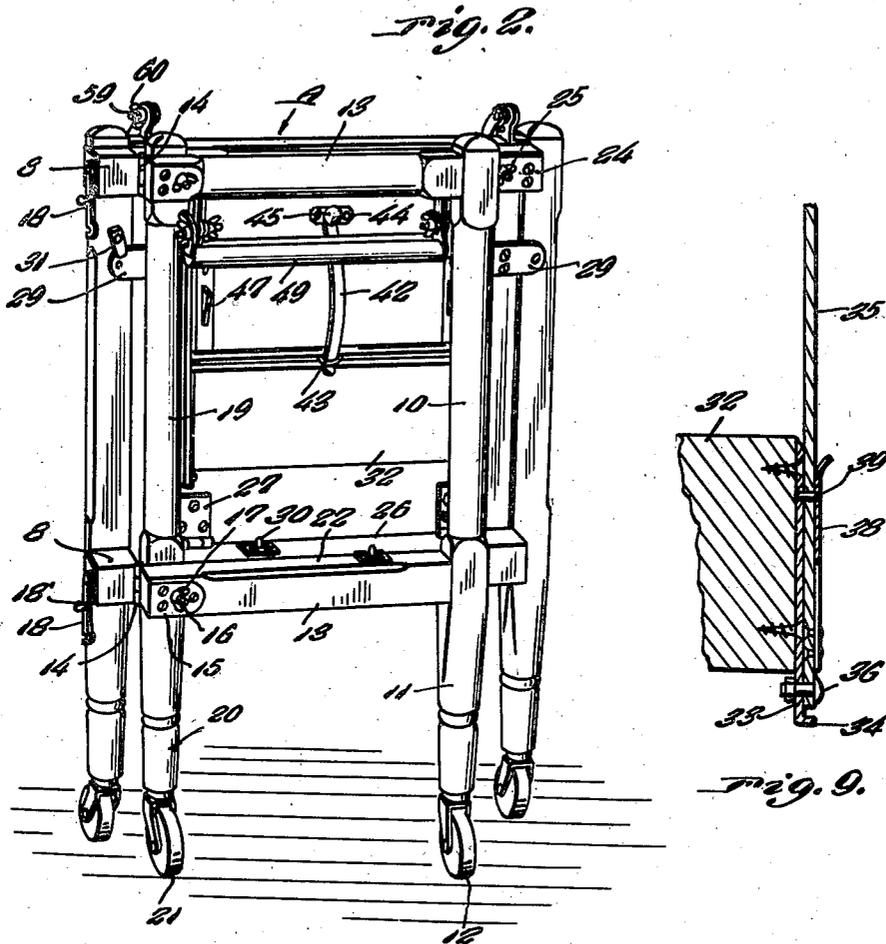
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3 Sheets-Sheet 2



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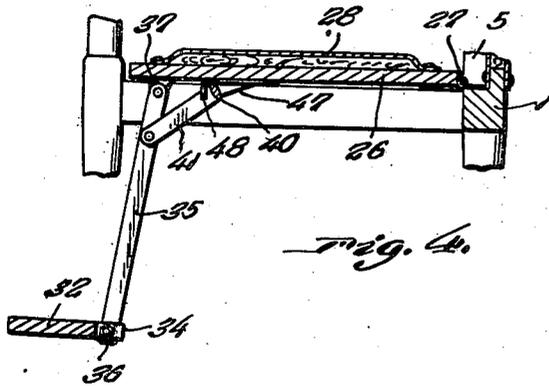
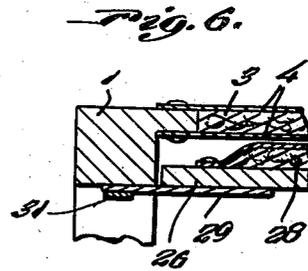
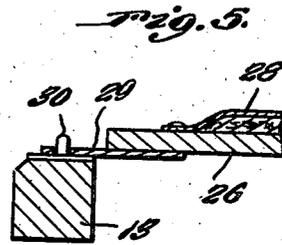
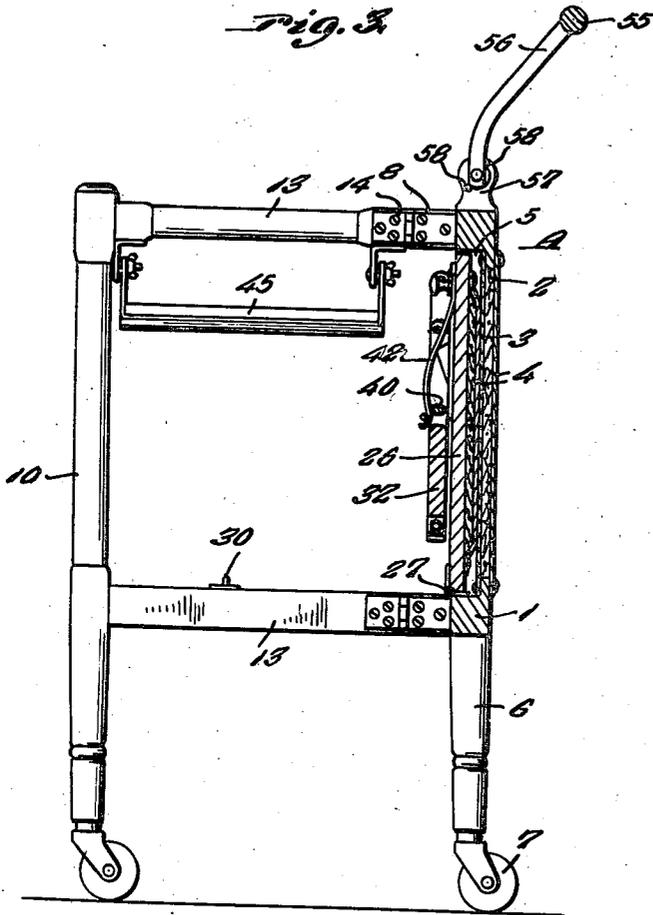
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WALKER AND ROLLING CHAIR

Filed July 2, 1941

3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

2,312,602

WALKER AND ROLLING CHAIR

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O. Taylor, deceased

Application July 2, 1941, Serial No. 400,829

6 Claims. (Cl. 155—22)

This invention relates to a walker and rolling chair, the general object of the invention being to provide a chair having a back part and a pair of side parts with a hinged seat which can be folded downwardly to rest upon portions of the side parts or held in raised position against the front of the rear part, with arms on the side parts, the chair being provided with legs having casters at their lower ends so that the chair can be used for supporting small children or persons unable to walk alone, so that the children or crippled persons can support themselves by the chair and push the same along to enable them to travel over a surface, the seat being lowered when the child or person wishes to sit down.

Another object of the invention is to provide the back of the chair at the top thereof with a foldable handle so that the chair can be used for pushing a person sitting on the seat and also to make the chair foldable so that it will occupy but little space when stored or being carried from one place to another.

Another object of the invention is to provide the seat with a foot rest which can be folded against the bottom of the seat when not in use.

This invention also consists in certain other features of construction and in the combination and arrangement of the several parts to be hereinafter fully described, illustrated in the accompanying drawings and specifically pointed out in the appended claims.

In describing the invention in detail, reference will be had to the accompanying drawings wherein like characters denote like or corresponding parts throughout the several views, and in which:

Figure 1 is a perspective view of the chair in unfolded position.

Figure 2 is a perspective view showing the chair in folded position.

Figure 3 is a vertical sectional view through Figure 1 but with the seat folded against the back and the foot rest folded against the seat.

Figure 4 is a fragmentary vertical sectional view showing the seat in lowered position and the foot rest in operative position.

Figure 5 is a fragmentary sectional view showing a plate on the seat engaging a pin on a side piece of a side member when the seat is in lowered position.

Figure 6 is a detail sectional view showing the seat in folded position against the front of the chair back and a plate engaged by a turnbutton for holding the seat in raised position.

Figure 7 is a section on the line 7—7 of Figure 1.

Figure 8 is a section on the line 8—8 of Figure 1.

Figure 9 is a detail sectional view showing the foot rest is held by latch means against the side bar with the foot rest in folded position.

Figure 10 is a view showing a portion of the foot rest and a portion of the side member thereof and showing how a lug on the rest is adapted to engage the side member to hold the foot rest in operated position.

In these drawings the letter A indicates the back or rear member of the chair which includes a substantially rectangular frame 1 having inwardly extending ribs 2 thereon which form an opening to receive the filling means 3 which are enclosed in front and rear sheets 4 of leather or the like and this arrangement leaves a rectangular recess 5 in the front part of the back of the chair. A pair of legs 6 depends from the lower ends of the side members of the frame and caster wheels 7 are attached to the lower ends of the legs. Short pieces or blocks 8 extend forwardly from one of the side members of the frame at the upper and lower corners thereof.

One side member of the chair includes the upright member 10, the lower end of which forms a leg 11 which has a caster wheel 12 attached to its lower end and upper and lower cross bars 13 have the front ends connected with the upright member 10 and the other ends of these cross bars are hinged to the blocks 8 by the hinges 14. These hinges are fastened to the inner faces of the parts 8 and 13 so that when the side member is in operative position the inner ends of the side or cross pieces 13 will abut the outer ends of the blocks as shown in Figure 1. A plate 15 is attached to the outer face of each cross piece 13 at the inner end thereof and a screw 16 is carried by each plate and has a wing nut 17 thereon. A latch bar 18 is pivoted to the outer face of each member 8 and has a hook at its free end for engaging the bolt 16, the latch bar being held in place by tightening the nut 17. Each latch member is provided with a handle 18'.

The other side member of the chair includes an upright 19, the lower end of which forms a leg 20 and a caster wheel 21 is connected to the lower end of the leg and upper and lower cross pieces 22 have their outer ends connected with the member 19 and their inner ends are hinged directly to the opposite side member of the back by the hinges 23, these hinges also being connected to the inner faces of the members 22 so that this side member can be swung inwardly against the inner face of the back of the chair and then the other side member can be swung inwardly over the first side member, the blocks

spacing the first side member from the back of the chair so that this side member can be folded over the other side member as shown in Figure 2.

A plate 24 is connected to the outer face of the upper cross piece 22 and carries a bolt provided with a wing nut as shown at 25 for receiving a latch member on the adjacent side member of the back for locking the side member composed of the parts 19 and 22 in operative position, this latch member not being shown but this is similar to those shown at 18.

A seat 26 is hinged to the lower part of the back frame as shown at 27, the seat being provided with a cushion 28 and the hinge is so arranged that when the seat is swung upwardly it will occupy the recess 5 formed in the front part of the rear frame as shown in Figure 3. Plates 29 are attached to the bottom part of the seat and extend from the sides thereof and when in lowered position holes in these plates will fit over pins 30 on the lower cross bars of the two side members of the chair as shown in Figure 5 and also in Figure 1. When the seat is in raised position turn buttons 31 on the side members of the rear frame can be positioned over the plates 29 to hold the seat in raised position as shown in Figure 2 and also in Figure 6.

A foot rest board 32 has straps 33 of metal attached to its ends and the rear end of each strap is bent outwardly to form the lug 34, see Figure 10, and side links 35 have their lower ends pivoted to the projecting rear ends of these straps 33 by pivots 36 as shown more clearly in Figure 9. The upper ends of the links are pivotally connected to the lugs depending from the seat 26 as shown at 37 and when the parts are in the position shown in Figure 4 with the seat lowered and the foot rest in operative position the lugs 34 will engage the rear edges of the links 35 and thus prevent movement of the foot board beyond horizontal position as shown in Figure 4. However, the foot board can be swung upwardly to place it between the links 35 as shown in Figure 9. The foot board is held in this position by a leaf spring 38 attached to one end of a side bar and carrying a pin 39 passing through a hole in the side bar and engaging a hole in the adjacent strap 33 as shown in Figure 9.

A bar 40 of oval shape in cross section, see Figure 3, is connected by short links 41 to upper portions of the links 35, see Figure 4, the bar 40 passing under an elongated leaf spring 42 having one end attached by a staple 43 to an intermediate portion of the bottom of the seat and its upper end is connected to a front portion of the seat on the underside thereof by a clip 44 which has a handle 45 thereon for facilitating pulling the seat out of the recess 5. The staple 43 permits limited movement of the spring 42 during the movement of the bar 40 thereunder. When the seat is folded against the back and the links 35 with the foot board folded between them are folded against the seat the bar 40 will pass under the lower end of the spring 42 so that the folded foot rest is held against the folded seat as shown in Figure 3, the seat being held in folded position by turnbuttons 31 engaging the plates 29. When the seat is swung downwardly into operative position and the foot rest is moved to operative position the bar 40 will pass along under the spring 42 until it rides over the triangular-shaped plates 47 attached to the underside of the seat and then the bar 40 will pass into notches formed by these plates 47 and depending pins 48 extending from the seat slightly in front

of the plates 47 as shown more clearly in Figure 4. Thus the seat rest is held in extended position. Of course, the foot board must be released from the latch spring 38 before it can be moved downwardly to the position shown in Figure 4.

A hand grip is suspended from each of the upper cross pieces 13 and 22 of the side members of the chair and each hand grip includes a bar 49 having its ends connected to the lower ends of curved plates 50 which are provided with arcuate slots 51, see Figure 8, and a bolt 52 passes through the slots, these bolts being carried from the said upper cross pieces of the side members. A wing nut 54 is threaded on each bolt to hold the hand grips in adjusted position. The slots and bolts permit the hand grips to be moved into the dotted and full line positions shown in Figure 8, it being seen that when in the full line position each hand grip has its bar 49 located inwardly of a side member so that it can be readily seized by the hand of the person using the chair. When in the full line position shown in Figure 8 the upper end of each plate 50 engages a horizontal part of a bracket 53 to firmly support the hand grip in this position.

I also provide means whereby the chair can be pushed along by another person by providing a handle attached to the top of the rear member of the chair. As will be seen the handle includes a bar 55 connected to the side pieces 56 and these side pieces are pivoted to the upright brackets 57 rising from the upper bar of the frame. Each bracket is provided with upper and lower stops 58 for holding the handle in either the position shown in Figures 1 and 3 or in a downwardly folded position against the rear face of the back of the chair. The pivots are formed by bolts 59 having thumb nuts 60 thereon so that by tightening and loosening the nuts the handle can be swung downwardly or upwardly, after which the nuts are tightened.

When the chair is to be used for facilitating a child or a crippled person in walking the seat and back rest are moved to the position shown in Figure 3 and then by gripping the hand grips 49 or partly resting on the upper side members 13 and 22 the person can support himself while he pushes the chair along. Then when the person wishes to sit down the seat is moved to the position shown in Figure 1 and if he wishes to use the foot rest the foot rest is swung to the position shown in Figures 1 and 4. If a person is to be pushed along while sitting in the chair the handle 55 is raised and then a second person grips the handle and pushes the person sitting in the chair along a surface. When the chair is to be stored or carried from one place to another the parts can be folded in the position shown in Figure 2.

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 described the invention, what is claimed as new is:

1. In a chair of the class described, a back member, legs depending from the corners thereof, a pair of side members hingedly connected at their rear edges to side parts of the back member, a leg attached to the front part of each side

member, caster wheels carried by the four legs, a seat for the chair hingedly connected to the back member and resting against the front of the back member when in raised position, parts on the seat for resting against portions of the side members when in lowered position and means for holding the seat in raised position whereby one can enter the space formed by the two side members and the back member rails at the top of said side members forming arm rests, and hand-grips attached to the rails and disposed beneath the same.

2. In a chair of the class described, a back member, a pair of side members, legs depending from the members and having caster wheels at their lower ends, a seat and means for raising the seat against the back member, hand grips depending from upper portions of the side members, and means for attaching the handgrips to the side members for adjustment laterally thereof.

3. In a chair of the class described, a back member, a pair of side members, legs depending from the members and having caster wheels at their lower ends, a seat and means for raising the seat against the back member, hand grips depending from upper portions of the side members, and means for adjusting the hand grips laterally to different positions.

4. A chair of the class described comprising a back member and a pair of side members, legs depending from the members and having caster wheels at their lower ends, a seat hinged to the back member and resting against the same when in raised position, parts carried by the seat and engaging parts of the side members when the seat is in lowered position, a foot rest board, links connecting the same with the under part of the seat, said rest being foldable between the links and the links being foldable on the seat, a cross bar, short links connecting the ends of the same to the links, a spring under which the cross bar passes and keeper members for receiving the cross bar when the foot rest is in operated position.

5. A chair of the class described comprising a

back member, blocks extending forwardly from the side parts of the back member, a side member including an upright, upper and lower cross bars, hinges connecting the rear ends of the cross bars to the blocks for permitting the side member to be folded toward the back member with a space between the side member and the back member, a second side member including an upright and upper and lower cross bars, means for hinging said cross bars to the opposite side of the back member for permitting the last-mentioned side member to be folded against the back member and the first side member against the second side member, a seat hinged to the back member, means for holding the seat in raised position against the back member and parts on the seat engaging the lower cross bars of the two side members when the seat is in lowered position.

6. A chair of the class described comprising a back member, blocks extending forwardly from the side parts of the back member, a side member including an upright, upper and lower cross bars, hinges connecting the rear ends of the cross bars to the blocks for permitting the side member to be folded toward the back member with a space between the side member and the back member, a second side member including an upright and upper and lower cross bars, means for hinging said cross bars to the opposite side of the back member for permitting the last-mentioned side member to be folded against the back member and the first side member against the second side member, a seat hinged to the back member, means for holding the seat in raised position against the back member and parts on the seat engaging the lower cross bars of the two side members when the seat is in lowered position, latch means for holding the side members in extended position, legs formed on the upright members of the side members, legs depending from the back member and caster wheels at the lower ends of the legs.

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