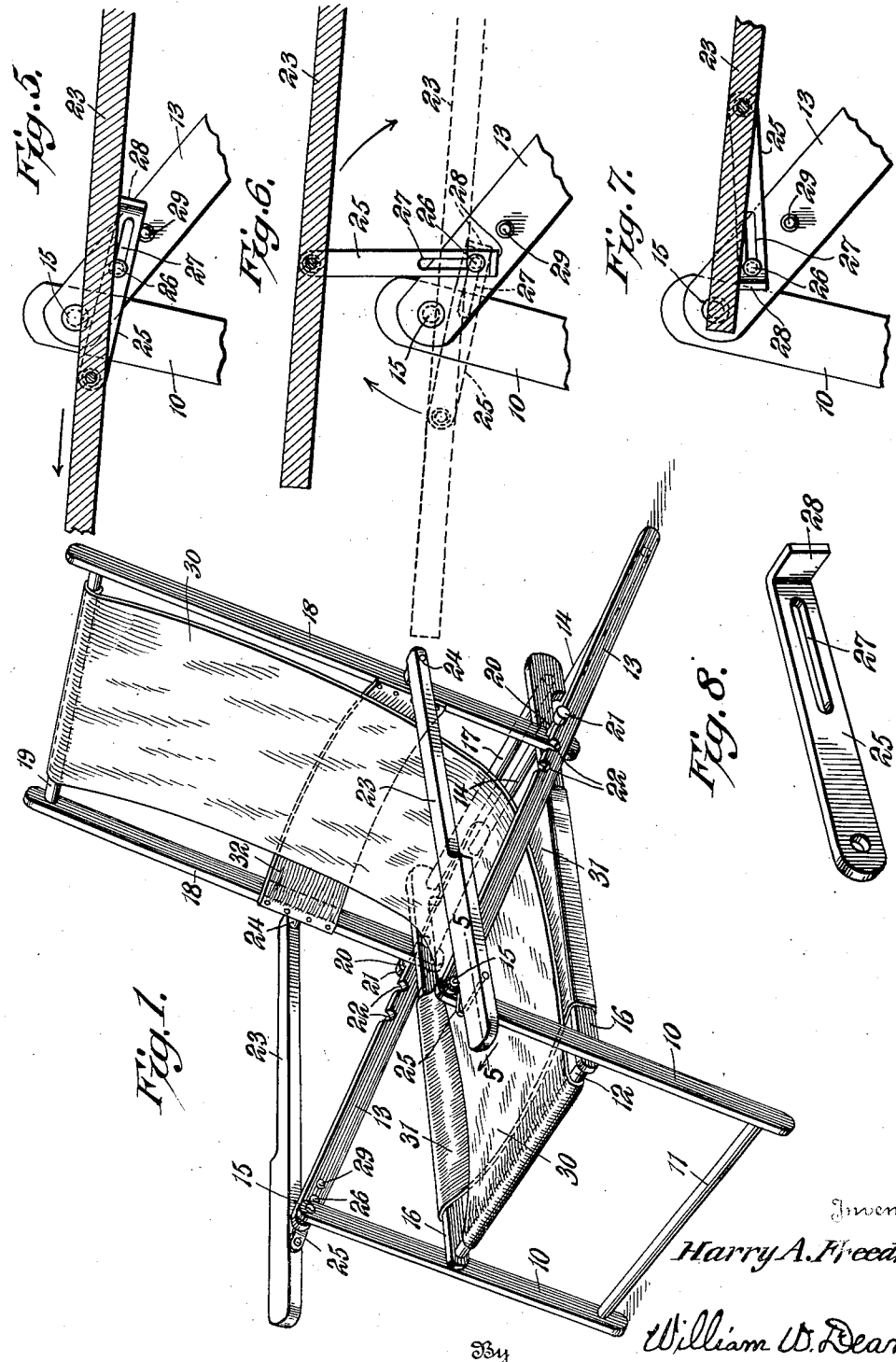
May 26, 1936. H. A. FREEDMAN 2,042,252

BEACH CHAIR

Filed April 24, 1935 2 Sheets-Sheet 1



Inventor,
Harry A. Freedman,
By William W. Deane
his Attorney

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Fig. 3.

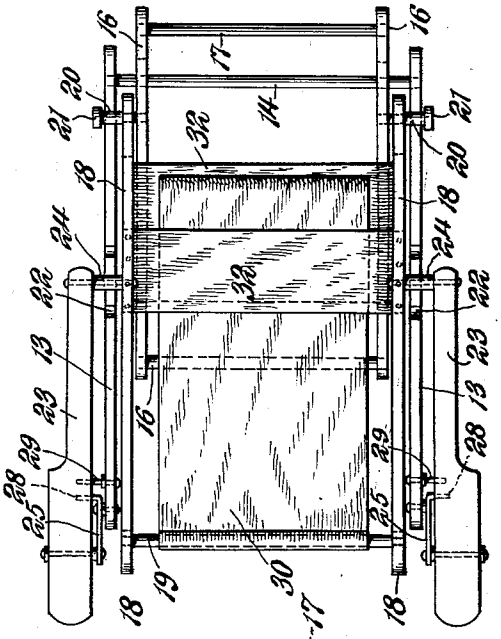


Fig. 2.

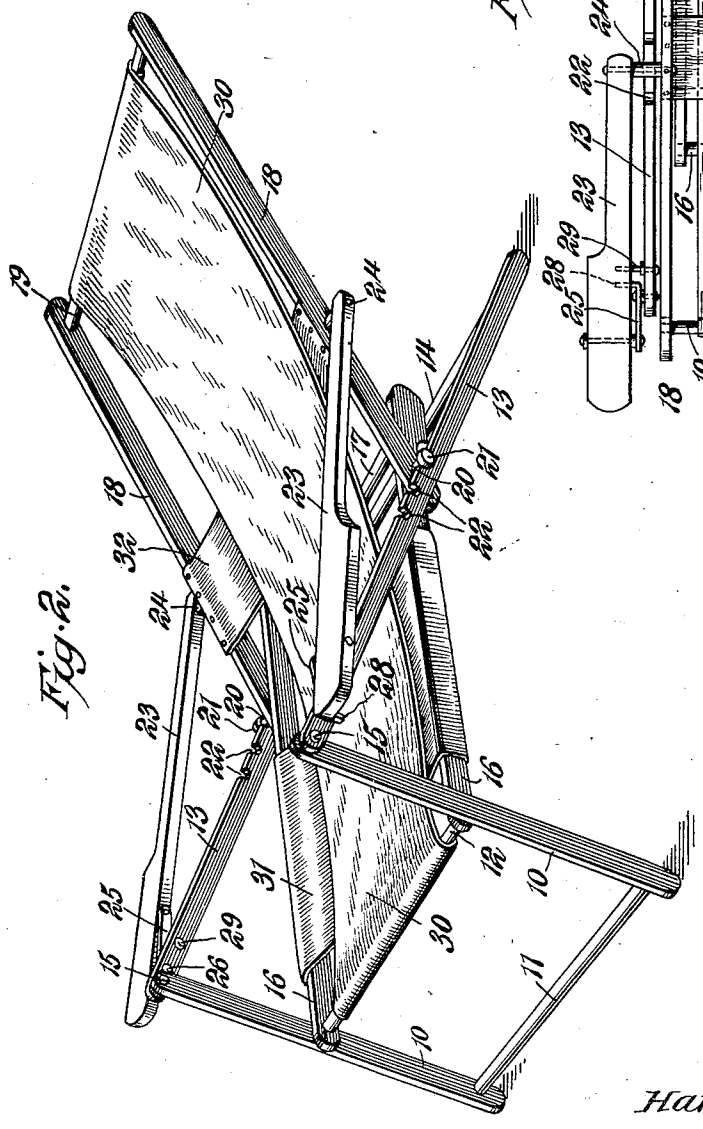
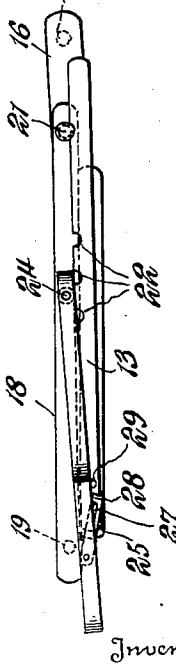


Fig. 4.



Inventor,
Harry A. Freedman,

By William D. Deane
his Attorney.

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2,042,252

BEACH CHAIR

Harry A. Freedman, New York, N. Y.

Application April 24, 1935, Serial No. 18,042

10 Claims. (Cl. 155—163)

The object of the invention is to simplify and improve the construction, from the standpoint of practicability, of the beach chair covered by the patent numbered 1,985,823, issued on December 25th, 1934, so that the so-called quick adjustment may be readily accomplished by manipulation of the arms without having to actuate any independent latching means; to provide a chair of this character which is susceptible of folding into compact form; and generally to provide a beach chair which is of simple form but of a kind which can be cheaply produced.

With this object in view, the invention consists in a construction and combination of parts of which a preferred embodiment is illustrated in the accompanying drawings, wherein:

Figure 1 is a perspective view of a beach chair embodying the invention but showing the upright position of the latter.

Figure 2 is a similar view of the chair in a reclining position.

Figure 3 is a plan view of the chair in collapsed position.

Figure 4 is a side elevational view of the structure of Figure 3.

Figure 5 is an enlarged sectional view on the plane indicated by the line 5—5 of Figure 1.

Figure 6 is a view similar to Figure 5, but showing the arm swung upwardly to assume the reclining position.

Figure 7 is a view similar to Figures 5 and 6, and showing the arm in full reclining position.

Figure 8 is a perspective view of the arm link.

As is customary in chairs of this character there are provided the front leg frame, composed of the legs 10 and spacer rounds 11 and 12, and the rear leg frame composed of the legs 13 and spacer round 14. The two leg frames are pivotally connected together as indicated at 15, these pivoted connections consisting of suitable rivets passed through the upper ends of the rear legs.

The seat frame is composed of the side rails 16 whose front ends are swingingly mounted on the spacer round 12 and whose rear ends are connected by spacer round 17, the front ends of the side rails 16 being disposed between the front legs and shoulders formed on the spacer round 12.

The back frame is formed with side rails 18 which at their upper ends are maintained in their desired spaced relation by round 19. The back frame is pivotally connected with the seat frame whose side rails carry laterally projecting studs 20 which pass through the side rails 18 of the back and have shoulders against which the back rails abut. The studs 20 are formed with heads 21 spaced far enough from the shoulders to leave body sections which may be engaged selectively in any of the several notches 22 of which each rear leg on its upper edge is provided with a series.

The arms 23 have pivot studs 24 pivotally connecting them with the side rails of the back but adjacent their forward ends are pivotally connected with flat metal links 25 which in turn are pivotally connected with the rear legs by means of metal studs 26 of the latter which pass through longitudinal slots 27 formed in the links. The links at the ends remote from the pivotal connections with the arms are out-turned to provide angular extremities 28 which constitute abutment stops which engage the arms on the under faces. In addition to the link mounting studs, the rear legs carry the metal studs 29 which act as stops to prevent swinging movement of the links when the studs 26 are in those ends of the slots 27 remote from the stops 28.

Both the seat and back are formed from a single web 30 terminally secured to the round 12 and the round 19, being reinforced in the seat by a transverse web 31 spanning the rails 16, and being similarly reinforced in the back by a transverse web 32 spanning the rails 18.

In the use of the chair it is set up in the desired position by seating the studs 20 in the proper notches to give the desired inclination. In this position, the links 25 are disposed with their rear ends towards the back and between the under faces of the arms and the metal studs 29. The links are thus latched against swinging movement, since if their free ends move downwardly, they will engage the studs 29, and if they move upwardly the stops 28 will engage the lower faces of the arms 23.

To quickly adjust to the reclining position, the body of the occupant is moved forwardly and simultaneously a pull is applied to the arms 23 which advances the links by the reason of the slots 27 with which they are formed. This movement imparted to the links shifts them clear of the studs 29 so that a raising movement imparted to the forward ends of the arms 23 results in swinging the links over to direct their previously disposed rear ends forwardly when the lowering of the arms 23 will bring them again in engagement with the stops 28. But this movement has been attended with a backward movement of the arms and back frame not only because of the inversion of the links but also because of the

sliding movement of the links on their mounting studs 26.

In shifting from the reclining to the upright position the reverse of these operations is performed.

In collapsing or folding the chair, the front and rear leg frames are swung one into the other simultaneously with the folding of the back frame down onto the seat frame, the mounting studs 26 being in the ends of the slots 27 nearest the stops 28 in this position of the parts so as to make it possible for the arms to lie within the thickness of the folded frame.

While the invention is designed for beach and lawn chairs, it is apparent that it is equally applicable to chairs of the yacht and steamer type, and generally to chairs in which the arms are shiftable.

The invention having been described what is claimed as new and useful is:

1. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the seat frame, arms pivotally connected with the back frame, foldable and extensible connections between the arms and one of the leg frames, and means preventing said connections from unfolding in one position of the arms, said connections being releasable from said means for unfolding through a forward pull imparted to the arms.

2. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the seat frame, arms pivotally connected with the back frame, foldable and extensible connections between the arms and one of the leg frames, and means preventing said connections from unfolding in one position of the arms, said connections being releasable from said means on a forward pull imparted to the arms, the back having a normal rearward inclination to maintain the said means and the extensible connections in the functioning relation.

3. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the rear leg frame, arms pivotally connected with the back frame, links having terminal pivotal connections with the arms and intermediate pivotal connections with one of the leg frames, so that the links may be inverted on raising the arms, stops on one of the frames cooperating with the links and lugs on the links cooperating with the arms to prevent inversion of the links, and means whereby the links may be bodily moved to eliminate the function of the stops.

4. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the seat frame, arms pivotally connected with the back frame, links having terminal pivotal connections with the arms and intermediate slidable pivotal connections with one of the leg frames, so that the links may be inverted on raising the arms, the links being longitudinally movable on their intermediate pivotal connections, and stops carried by the leg frame and lugs on the links cooperating with the links and arms respectively to prevent inversion of the links while in one position on their intermediate connections, the links being freed from the stops through longitudinal movement of the links in one direction.

5. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the seat frame, arms pivotally connected with the back frame, links having terminal pivotal connections with the arms and intermediate slidable pivotal connections with one of the leg frames, so that the links may be inverted on raising the arms, stops carried by the leg frame and cooperating with the links to prevent inversion of the links in one direction, sliding movement of the links in one direction freeing the links from the stops to permit link inversion, other stops being extended laterally of the links to underlie and contact the arms to limit movement of the latter in one direction.

6. A beach or lawn chair comprising connected front and rear leg frames, a seat frame supported jointly by said leg frames, a back frame pivotally mounted on the seat frame, arms pivotally connected with the back frame, links having terminal pivotal connections with the arms and intermediate slidable pivotal connections with one of the leg frames, so that the links may be inverted on raising the arms, the links being longitudinally movable on their intermediate pivotal connections, stops carried by the leg frame and cooperating with the links to prevent inversion of the links in one direction on their intermediate connections, the links being freed from the stops upon longitudinal sliding movement of the links in one direction, the links being terminally projected laterally to underlie and contact the arms to prevent movement of the arms in a downward direction.

7. A beach or lawn chair having a supporting frame, a seat carried by the supporting frame, a back frame on the seat adjustable to varying inclinations relative to the seat, arms connected at one end to the back frame, members pivotally connected to the arms and slidably and pivotally to the supporting frame to permit arcuate movement of the forward ends of the arms for adjustment of back inclination, means carried by the members to prevent movement of the arms below normal arm position, and means cooperating with the first-mentioned means whereby the members may be prevented from pivotal movement relative to the supporting frame at will, said members being releasable from the second means by a forward pull of the arms.

8. A beach or lawn chair having a supporting frame, a seat carried by the supporting frame, a back frame on the seat adjustable to varying inclinations relative to the seat, arms connected at one end to the back frame, members pivotally connected to the arms and having slidable and pivotal connection with the supporting frame, whereby the arms may be given an arcuate movement for changing the inclination of the back frame relative to the seat, means carried by the members to prevent movement of the arms below normal arm position, and means cooperating with the first-mentioned means to prevent pivotal movement of the members relative to the supporting frame when the members are at one limit of sliding movement, said second means being ineffective when the members are at the opposite sliding limit.

9. A beach or lawn chair having a supporting frame, a seat carried by the supporting frame, a back frame on the seat adjustable to varying inclinations relative to the seat, arms connected at one end to the back frame, members pivotally connected to the forward ends of the arms and

having pivotal and sliding connection with the supporting frame, means carried by the members to prevent downward movement of the arms below normal arm position, means on the supporting frame to engage the members when at one limit of sliding movement to prevent pivotal movement in one direction of the members relative to the supporting frame, said second means being out of the paths of the members when the members are at the opposite limit of sliding movement, the cooperation and disengagement of said second means and members being gained through bodily movement of the arms.

10. In a beach or lawn chair, a supporting frame, a seat carried thereby, a back frame thereon movable to positions of different inclinations with respect to the seat, arms connected to the back frame, links pivotally connected to the arms and pivotally and slidably connected to the supporting frame, means formed on the members to underlie the arms and prevent downward movement of such arms below normal arm position, stops carried by the supporting frame to underlie the members and prevent swinging movement of such members when at one limit of sliding movement to thereby prevent upward movement of the forward end of the arms, said members being free of said stops when the members are moved to the opposite limit of sliding movement, the stops when free of the links permitting the forward ends of the arms to be moved upwardly in an arcuate path to correspondingly vary the inclination of the back with respect to the seat.

HARRY A. FREEDMAN.