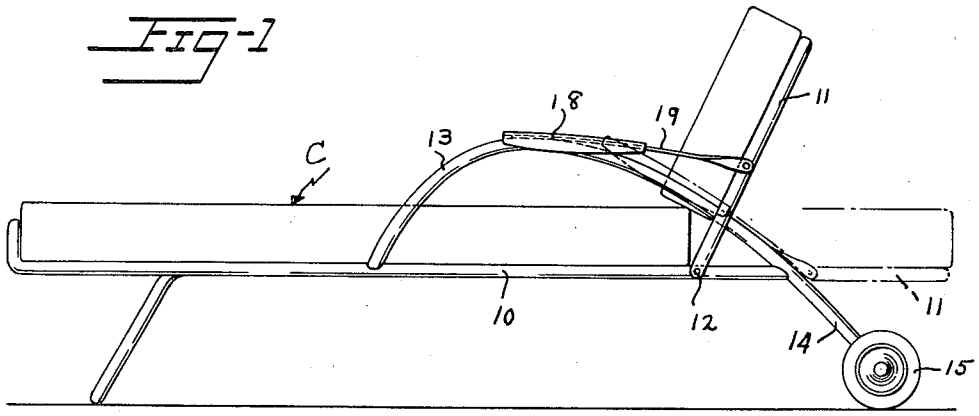
Oct. 5, 1954 H. C. PEDERSON ET AL 2,690,793

RECLINING BACK CONTROL FOR CHAIRS

Filed Dec. 4, 1952

Fig-1



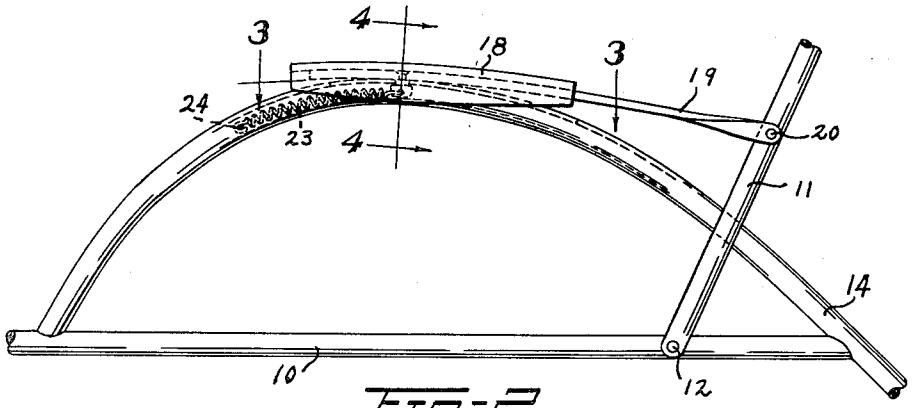


Fig-2

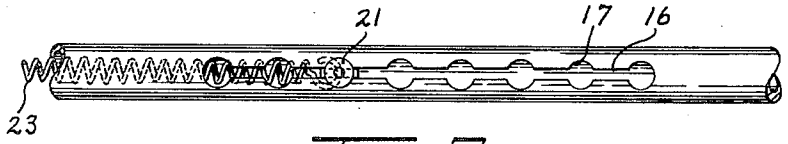


Fig-3

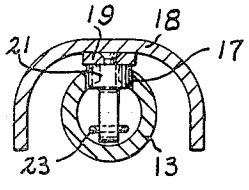


Fig-4

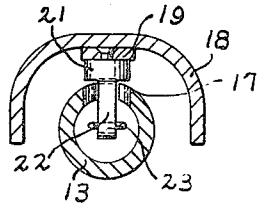


Fig-5

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RECLINING BACK CONTROL FOR CHAIRS

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Application December 4, 1952, Serial No. 324,032

3 Claims. (Cl. 155—159)

1

This invention relates to arm chairs or lounges of the type in which the inclination of the back can be adjusted by sliding the arm rests supported on the side frames of the chair, and an object is to improve the mechanism or device for making such sliding movement possible and locking or securing the arm rest and the back frame in the position of adjustment.

Other objects and advantages of the invention will hereinafter appear, and for purpose of illustration but not of limitation, an embodiment of the invention is shown on the accompanying drawings in which

Figure 1 is a side elevation of a chaise lounge constructed in accordance with this invention;

Figure 2 is an enlarged side elevation with some parts broken away, showing the arm rest and associated adjusting parts for varying the inclination of the back frame;

Figure 3 is an enlarged view substantially on the line 3—3 of Figure 2 with the elements 18 and 19 removed for purposes of illustration;

Figure 4 is an enlarged transverse sectional view on the line 4—4 of Figure 2; and

Figure 5 is a view similar to Figure 4, but showing the arm rest raised to effect the adjusting movement.

The illustrated embodiment of the invention comprises a chaise lounge C which has a seat frame 10 of metal tubular structure and a back frame 11 which is pivotally connected to opposite sides of the seat frame by pivots 12. As shown, suitable cushions are mounted on the seat and back frames, as is customary in this connection.

On opposite sides of the seat frame 10 are upwardly extending arched side frames 13 of metal tubes which are suitably welded to the seat frame as will be readily understood. An extension 14 of each side frame 13 projects downwardly and rearwardly, and provides a support for rubber-tired supporting wheels 15. Formed in the top face of each of the arched side frame members 13 is an elongate slot 16 in which are formed at equidistantly spaced intervals a series of round holes 17, each hole being split in the center by the elongate slot, as is best shown on Figure 3.

Fitting rather loosely over the upper portion of each of the arched frames 13 is an arm rest 18 of channel form and suitably fixed by welding or riveting to the under side of each arm rest is a band iron arm 19 which extends rearwardly and is pivoted to the adjacent side of the back frame 11 by a pivot 20. Fixed to the under side of the arm 19 substantially midway between the ends of each arm rest 18 is a stud rivet 21 as shown in Figures 4 and 5. The body of the stud rivet 21

2

is round and of a size to fit readily in any one of the holes 17. Integral with the stud rivet 21 and depending therefrom is an extension 22 formed so as to slide freely in the elongate slot 16. An elongate helical coil spring 23 has one end anchored to the lower or apertured end of the stud extension 22 and the opposite end attached to an anchor rivet 24. As shown, the spring 23 lies within the tubular frame part 13.

It will be understood that although only one side of the frame has been described, that this is duplicated on the opposite side. However, it is believed that the structure will be entirely clear since such an arrangement is conventional with furniture of this character.

In use, it will be understood that by lifting up on the arm rest 18, the round stud portion 21 can be lifted clear of the hole 17 in which it rested, and then the arm rest can be moved forwardly or rearwardly in accordance with the inclination desired of the back frame 11, the extension 22 sliding in the slot 16 freely. When the desired position has been selected, then each arm rest is pushed downwardly to force the round stud portion 21 into the adjacent hole 17 whereby it is locked in position. The coil spring 23 aids in the raising of the back frame 11 so that when it is desired to have the back frame more erect, the coil spring will assist substantially in that connection. It will, of course, be recognized that when the back frame 11 is swung rearwardly toward its horizontal position, the coil spring 23 is placed under tension so that it is capable of assisting in the raising of the back frame, as will be readily recognized.

It is to be understood that numerous changes in details of construction, arrangement and operation may be effected without departing from the spirit of the invention especially as defined in the appended claims.

What we claim is:

1. In a reclining chair or the like, the combination of a seat frame, a back frame hinged to the seat frame, a side frame of tubular construction affixed to the seat frame, said side frame having an elongate slot and a series of holes intersecting said slot, an arm rest disposed over a portion of said side frame and articulated to the back frame, a stud rigidly depending from said arm rest and shaped to conform to said holes for selective engagement therewith, said holes being larger than said stud and an extension depending from said stud on the side thereof opposite said arm rest and shaped to slide through said slot when the arm rest is sufficiently raised to remove the stud from the respective hole.

2. In a reclining chair or the like, the combination of a seat frame, a back frame hinged to the seat frame, a side frame of tubular construction affixed to the seat frame, said side frame having an elongate slot and a series of holes intersecting said slot, an arm rest disposed over a portion of said side frame and articulated to the back frame, a stud rigidly depending from said arm rest and shaped to conform to said holes for selective engagement therewith, said holes being larger than said stud an extension depending from said stud on the side thereof opposite said arm rest and shaped to slide through said slot when the arm rest is sufficiently raised to remove the stud from the respective hole, and a spring engaged between said side frame and said stud adapted to be tensioned when the back is swung rearwardly toward horizontal position thereby to assist in swinging same toward upright position.

3. In a reclining chair or the like, the combination of a seat frame, a back frame hinged to the seat frame, a side frame of tubular construction affixed to the seat frame, said side frame having an elongate slot and a series of holes intersecting said slot, an arm rest disposed over a portion of said side frame and articulated to the back frame, a stud rigidly depending from said arm rest and shaped to conform to said holes for selective engagement therewith, said holes being larger than said stud an extension depending from said stud on the side thereof opposite said arm rest and shaped to slide through said slot when the arm rest is sufficiently raised to remove the stud from the respective hole, and a spring adapted to be tensioned when the back is swung rearwardly toward horizontal position thereby to assist in swinging same toward upright position, said spring disposed within the tubular side frame and anchored at one end to said depending stud extension, and means to anchor the opposite end of said spring.

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