No. 887,267. PATENTED MAY 12, 1908.

N. PETRY.

RECLINING CHAIR.

APPLICATION FILED JUNE 14, 1907.

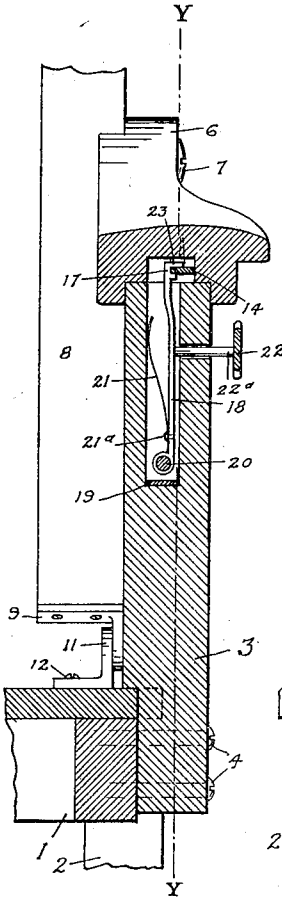


Fig. 1.

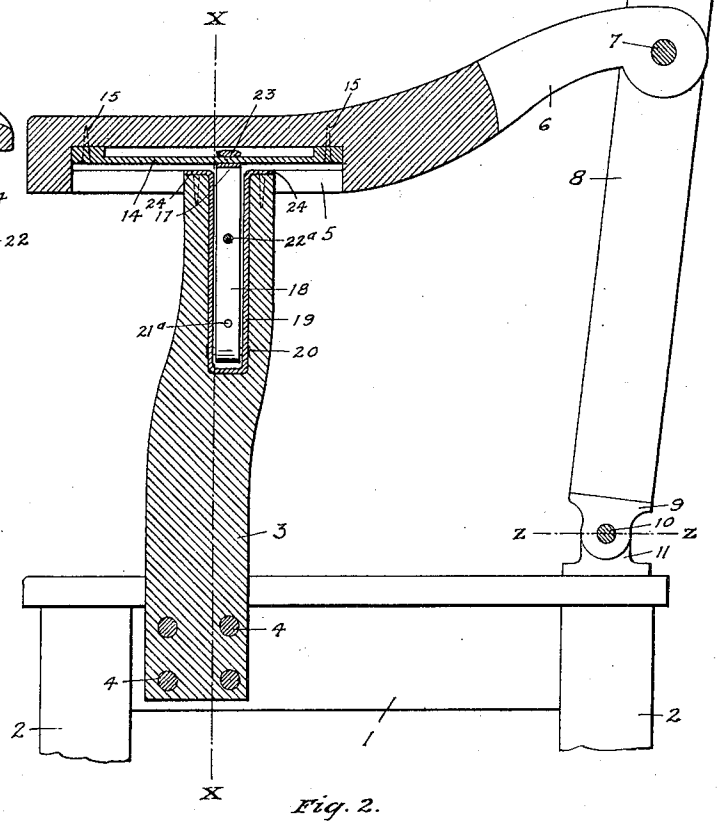


Fig. 2.

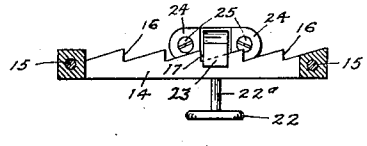


Fig. 3.

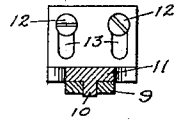


Fig. 4.

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RECLINING-CHAIR.

No. 887,267. Specification of Letters Patent. Patented May 12, 1908.

Application filed June 14, 1907. Serial No. 379,048.

To all whom it may concern:

Be it known that I, NICHOLAS PETRY, a citizen of the United States, residing at St. Joseph, in the county of Buchanan and State of Missouri, have invented certain new and useful Improvements in Reclining-Chairs, of which the following is a specification, reference being had therein to the accompanying drawing.

My invention relates to improvements in reclining chairs, and the objects of my improvements are; first, to provide a reclining chair, which can be changed with the utmost ease, speed and safety, from one angle of inclination, of the back of said chair to any other desired angle, by a person, sitting in said chair, without changing the position of said person's hands, from the position, in which said hands usually rest, upon the arm-rests of said chair; thus providing a safe and convenient chair for persons, and especially so for invalids or the indisposed; second, to provide a folding chair in which certain parts may be easily and quickly separated, for convenience in storing and shipping; third, to provide a reclining chair, in which the adjusting mechanism is hidden from view, and in which all the parts are simple, durable, neat in appearance, and cheap in cost of manufacture:—I attain these objects by the mechanism illustrated in the accompanying drawing, in which:—

Figure 1. is a transverse section, cut on the line X X, seen in Fig. 2. Fig. 2. is a longitudinal section, cut on the line Y Y, seen in Fig. 1. Fig. 3. is a top plan of the ratchet mechanism. Fig. 4. is a horizontal section of the hinge, cut on the line Z Z, seen in Fig. 2.

Referring to Figs. 1 and 2, my invention consists of the ordinary body 1, provided with the usual supporting legs 2, which may be of any form and proportion, and be finished in any manner, known to the chair maker's art. To the body 1, the arm-rest standard 3, is secured by the screws 4, and has its upper end projected into mortise 5, cut in the under side of arm-rest 6, and on which said arm-rest is slidably secured at a number of points, by parts, hereinafter described.

The rear end of arm-rest 6, is pivotally secured by the ordinary screw 7, to the back 8, the lower end of which is hinged to body 1, by hinge piece 9, and provided with an aperture, which receives stud 10, formed integral with piece 11, normally secured to body 1, by screws 12. Piece 11 is provided with the two slot shaped apertures 13, (seen in Fig. 4.) which allow said piece to be slid, (after loosening screws 12,) until stud 10 is disengaged from piece 9, thus providing means, whereby the lower end of back 8, may be separated from body 1, with the utmost speed and ease, for convenience in storing and shipping; the screws 4 and 7 are also removed from their respective parts, when desired, for the same purpose.

The front part of arm-rest 6 is slidably secured on standard 3 and adjustably secured at various points thereon, by the following parts. In the upper and smaller part of mortise 5, cut in the under side of arm-rest 6, the ratchet bar 14, is secured by screws 15, and is provided with ratchets 16, (formed on the edge thereof, as seen in Fig. 3,) which are engaged by pawl 17, for holding bar 14 at different points: pawl 17 is provided with leg 18, the lower end of which, is pivotally secured in pawl case 19, by pin 20; said leg is also provided with spring 21, secured thereon, by rivet 21^a, and which normally, elastically presses pawl 17 into engagement with one of the ratchets 16; pawl leg 18 is also provided with push-button 22, secured to said leg, by stud-pin 22^a, for releasing pawl 17 from ratchets 16. Pawl leg 18 is also provided with projection 23, which projects over the upper side of ratchet bar 14, for holding said bar and the parts thereto attached, from being raised from standard 3.

Referring to Fig. 3, pawl case 19 is provided with two projections 24, through which screws 25, are screwed into the upper end of standard 3, (as seen in Fig. 2,) which secure said case in the upper part of said standard, in a mortise, provided for the reception of said case and its attached parts.

In the assembling of the parts of my invention, the back 8, is secured to body 1, as described, after which, pawl case 19, bearing its attached parts, is secured in standard 3 as described; ratchet bar 14 is placed in the position seen in Figs. 1 and 2, after which said bar is secured in mortise 5, in arm-rest 6, by the screws 15, and said arm-rest and standard are then secured in place, as described.

It will, of course be understood that there are two of each of the described parts, one set of which is secured to each side of body 1.

In the operation of my invention, the operator, (not shown,) is seated on body 1, with the arms and hands resting on arm-

rests 6 and it will be readily understood, that while so placed, said hands are in proper position and without moving from said position easily grasp said arm-rests and with the fingers of said hands press push buttons 22, thereby releasing pawls 17 from engagement with ratchets 16, after which arm rests 6, are moved backward, by said hands, until the desired angle of inclination of back 8, is obtained; after which said push button is released and spring 21, abutted against the inside of the mortise in standard 3, presses pawl leg 18 which carries pawl 17 into engagement with the desired ratchet 16. When it is desired to bring back 8, forward to a more vertical position, the action of the parts is automatic, by reason of the sloped sides of ratchets 16, which overcome the pressure of spring 21, and force pawl 17 out of engagement with ratchet 16.

It will be seen that at no point along ratchet bar 14, can the projection 17 be disengaged, by use of the parts, and that said projection, is stopped by said bar, at each extremity, thereof; thus providing a chair which can not by accident or use gravitate to a position, which would be injurious to the occupant thereof.

I am aware that ratchet adjustments have been used for a variety of purposes, including the adjustment of reclining chairs, and therefore do not broadly claim the use of a ratchet, as a means of adjustment in my reclining chair, but I am not aware that reclining chairs have ever been constructed, in which a pawl for engaging said ratchet, is provided with a projection for holding said ratchet and ratchet bar, and its attached parts, from being raised, nor in which the ratchet mechanism is all neatly hidden from view, in suitably mortised parts, as shown and described, herein.

Therefore, what I claim as new and desire to secure by Letters Patent is:—

In a reclining chair, the combination with the arm-rest of said chair, provided with a mortise in the under side thereof, of a ratcheted bar, secured in said mortise; a pawl for engaging the ratchets of said ratcheted bar; a body for said chair; an arm-rest standard, having its lower end secured to said body and its upper end adapted to enter said mortise in said arm-rest, for supporting and guiding the front end of said arm-rest, and provided with a mortise in the upper end thereof; a pawl case, secured in said mortise in said standard; a leg for said pawl, having its lower end secured in said case; a horizontal projection, on the upper end of said pawl leg, adapted to hold said ratcheted bar from being raised; a spring for actuating said pawl leg, and a push button, for manually operating said leg, together with a back for said chair, having its lower end pivotally secured to said body, and the rear end of said arm-rest, secured to said back.

In testimony whereof I affix my signature in the presence of two witnesses.

NICHOLAS PETRY.

Witnesses:

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