No. 778,526. PATENTED DEC. 27, 1904.

C. H. BENNETT.

RECLINING CHAIR.

APPLICATION FILED APR. 24, 1903.

Fig. 1.

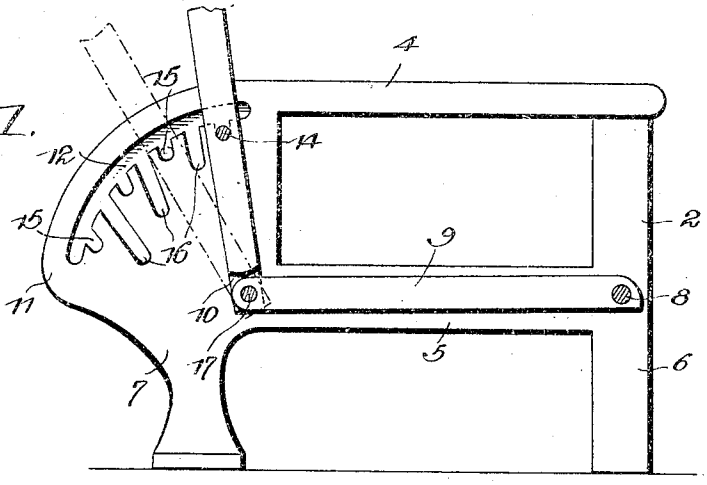


Fig. 2.

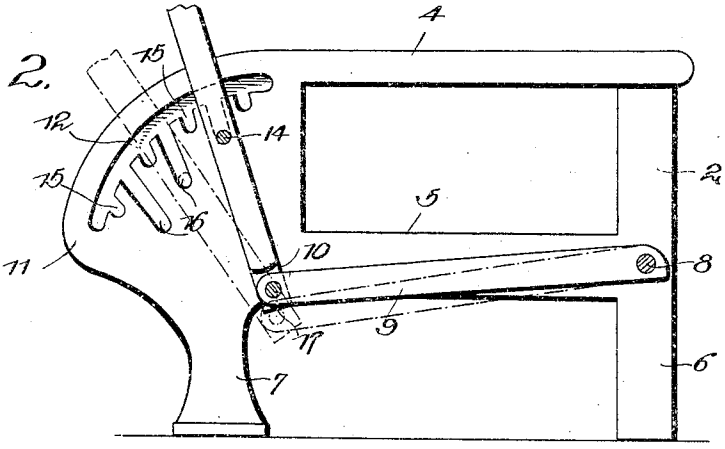


Fig. 3.

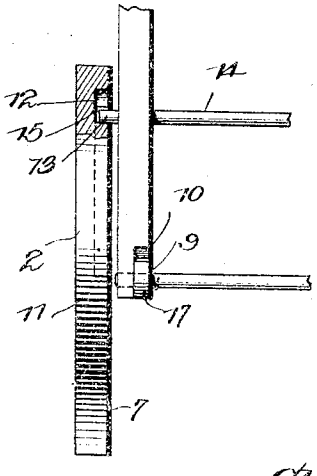
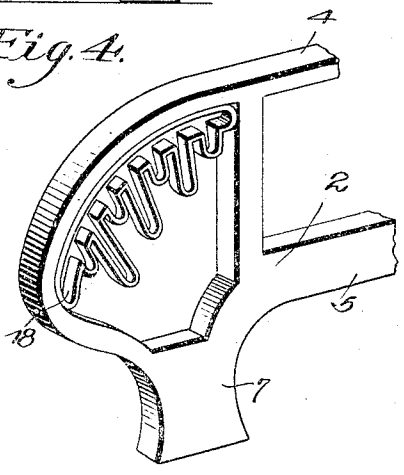


Fig. 4.



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No. 778,526. Patented December 27, 1904.

UNITED STATES PATENT OFFICE.

CLARK HEALD BENNETT, OF CHICAGO, ILLINOIS.

RECLINING-CHAIR.

SPECIFICATION forming part of Letters Patent No. 778,526, dated December 27, 1904.

Application filed April 24, 1903. Serial No. 154,135.

To all whom it may concern:

Be it known that I, CLARK HEALD BENNETT, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented a new and useful Reclining-Chair, of which the following is a specification.

This invention relates to an improved adjustable chair, and has for its object to provide a simple, inexpensive, and efficient chair in which the chair back and seat may be easily and readily adjusted at any desired angle with respect to the frame and to each other.

A further object of the invention is to provide means for adjusting the back independently of the seat, and at the same time to permit the seat to be raised or lowered and arranged at any angle with relation to the back, thereby preventing any tendency to slide forward in the seat and insuring perfect comfort to the occupant.

The invention consists in the construction and novel combination and arrangement of parts hereinafter fully described, illustrated in the accompanying drawings, and pointed out in the claims hereto appended, it being understood that various changes in form, proportion, and minor details of construction may be resorted to without departing from the spirit or sacrificing any of the advantages of this invention.

In the accompanying drawings, Figure 1 is a longitudinal sectional view of a chair provided with an adjustable support constructed in accordance with my invention. Fig. 2 is a similar view showing in detail the back and seat in the adjusted position. Fig. 3 is a rear elevation, and Fig. 4 is a perspective view, of a modified form of the invention.

Similar numerals of reference indicate corresponding parts in all the figures of the drawings.

The body or frame of the chair, which may be of the ordinary form and construction, consists of the side pieces 2, formed of wood or other suitable material, and each including an arm-rest 4 and a side rail 5, connecting the front and rear supporting-legs 6 and 7. Pivotally supported between the side rails 5 at the front of the frame, by means of pins or a rod 8, are the side bars 9 of the seat-frame, the opposite ends of said bars being rabbeted, as shown, and pivoted in any suitable manner to the correspondingly-rabbeted ends of the side rails 10 of the back. The rear ends 11 of the side pieces 2 are curved, as shown, and extend some distance beyond the rear supporting-legs 7, and formed in said side pieces are segmental grooves or channels 12, adapted to receive the projecting ends 13 of an adjusting-rod 14, passing through suitable openings in the side rails 10 of the pivoted back. The lower wall of the groove or channel 12 is provided with a number of radiating notches or pockets 15, adapted to receive the projecting end 13 of the rod 14, and by means of which the pivoted back is adjusted independently of the seat at any desired angle or inclination with respect to the frame, while the seat remains in the same, or substantially the same, horizontal plane. Arranged at intervals between the notches or pockets 15 and communicating with the segmental groove or channel 12 are converging slots 16, gradually increasing in depth from the top of the groove or channel to the bottom thereof, and by means of which the seat-frame may be raised or lowered and adjusted at any angle with relation to the back.

In operation when it is desired to adjust the pivoted back the end thereof is lifted upwardly until the projecting end 13 of the adjusting-rod clears the notches or pockets 15, when said back may be swung upwardly or downwardly, as the case may be, in the groove or channel 12, using the pivotal pin 17 as a center, and locked at the desired angle by causing the end of the adjusting-rod to engage the corresponding notch or pocket. The rear end of the seat-frame may be lowered when desired and arranged at any angle with respect to the back, by lifting the projecting end 13 of the adjusting-rod out of engagement with the notches or pockets, and adjusting the back until the end of the rod 14 is brought into alinement with any one of the converging slots 16, when the seat-frame may be swung downwardly on the rod or pin 8

until the end of the adjusting-rod engages the bottom of the slot, thereby locking the seat in its adjusted position.

The adjusting-recesses may be lined with metal or other suitable material to prevent wearing of the same, or, if desired, instead of forming said recesses in the frame of the chair a metal plate or casting 18, having said grooves or recesses formed therein, may be secured in any suitable manner to the inner sides of the frame, as clearly shown in Fig. 4 of the drawings.

If desired, instead of using the rods or pins 8 and 17 for pivotally supporting the back and seat, ordinary or specially-constructed hinges may be employed, and in some cases the segmental slots, as well as the radiating pockets and grooves, may extend entirely through the frame or casting, the end of the rod 14 likewise extending through the frame and engaging said adjusting-recesses.

From the foregoing description it will be seen that I have provided an extremely simple, inexpensive, and efficient adjustable support for chairs by means of which the back may be adjusted at any angle or inclination independently of the seat, while the seat may be raised or lowered at will to suit the occupant.

Having thus described the invention, what I claim, and desire to secure by Letters Patent, is—

1. An adjustable chair comprising a frame, a seat pivoted to the front of the frame, a swinging back pivoted to the rear end of the seat, a rod carried by the back, a segmental groove or channel formed in the frame and provided with a plurality of converging slots or pockets communicating with the groove or channel and varying in depth from the top of the groove to the bottom thereof, said slots or pockets being adapted to receive the rod.

2. An adjustable chair comprising a frame, a seat pivoted to the frame, a swinging back pivoted to the seat, a rod or pin carried by the back, a member provided with a segmental groove or recess and having a number of converging slots or pockets of varying depth communicating therewith, the lower wall of the groove or channel being provided with recesses of uniform depth adapted to receive the pin or rod.

3. An adjustable chair comprising a frame, a seat pivoted to the frame, a swinging back pivoted to the seat, a rod or pin carried by the back, and a member provided with a segmental groove or recess and having a number of converging slots or pockets of varying depth communicating therewith.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in the presence of two witnesses.

CLARK HEALD BENNETT.

Witnesses:

JAMES A. MASON,

ANNA DUBOFF.