No. 649,336. Patented May 8, 1900.

J. W. McCONNELL.

DENTAL CHAIR.

(Application filed Feb. 6, 1900.)

(No Model.)

Fig. 1.

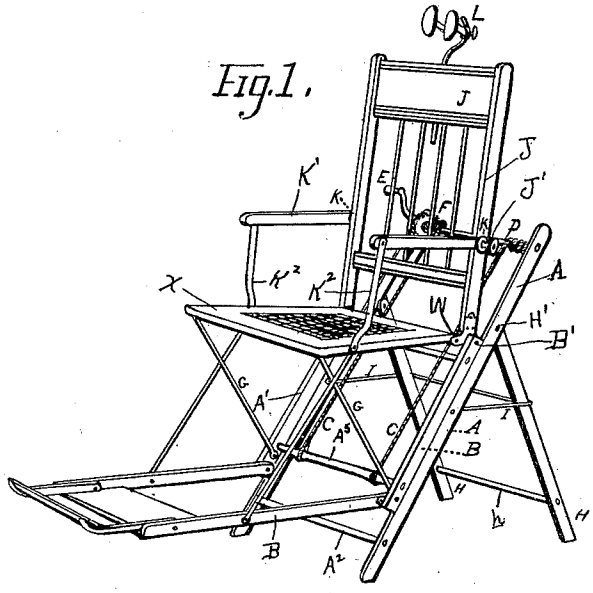


Fig. 4.

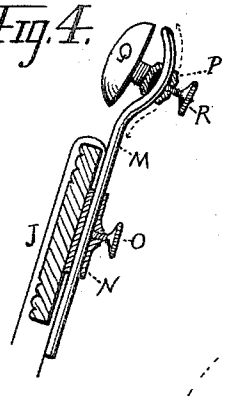
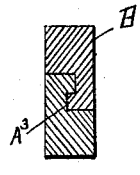


Fig. 2.

Fig. 3.



Witnesses.

Chas. W. Stanclaugh

R. A. Gibbs.

Inventor.

Jesse W. McConnell.

THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

UNITED STATES PATENT OFFICE.

JESSE W. McCONNELL, OF CORNELIA, GEORGIA.

DENTAL CHAIR.

SPECIFICATION forming part of Letters Patent No. 649,336, dated May 8, 1900.

Application filed February 6, 1900. Serial No. 4,216. (No model.)

To all whom it may concern:

Be it known that I, JESSE W. McCONNELL, a citizen of the United States, residing at Cornelia, in the county of Habersham and State of Georgia, have invented certain new and useful Improvements in Dental Chairs; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

This invention relates to new and useful improvements in dental chairs, and particularly to a chair in which the seat is adjustable on an inclined support, being adapted to be raised or lowered and held at different heights, means being provided to raise and lower the chair-seat and the foot-rest moving therewith, said means comprising a windlass about which ropes are wound, which ropes are secured to a round carried by a sliding rack which travels on an inclined support, said rack having pivoted thereto the chair-seat and the foot-rest.

To these ends and to such others as the invention may pertain the same consists, further, in the novel construction, combination, and adaptation of parts, as will be hereinafter more fully described and then specifically defined in the appended claims.

My invention is clearly illustrated in the accompanying drawings, which, with the letters of reference marked thereon, form part of this application, and in which—

Figure 1 is a perspective view of my improved chair. Fig. 2 is a side elevation, and Fig. 3 is a cross-sectional view on line *x x* of Fig. 2. Fig. 4 is a sectional view through a portion of the back of the chair, showing the adjustable head-rest.

Reference now being had to the details of the drawings by letter, A designates the support, comprising two longitudinal strips A′, secured together by means of rounds A^2, said strips being supported by the pivoted legs H, which are pivoted at H′ by suitable pins and held by means of braces I, carried by the strips A′ and engaging the legs H to hold the inclined strips at the desired angle. Suitable rounds *h* extend between the legs H, and when it is desired to fold the legs against the inclined support said braces may be disengaged from the legs. The upper edges of the inclined supports A′ are grooved, as shown at A^3 in Fig. 3 of the drawings, and the sliding rack B, which is connected together by means of rounds A^5, has its lower longitudinal edges grooved, as shown in Fig. 3 of the drawings, said groove being of a similar shape to the grooves in the upper edges of the strips A′, so that the two may interlock and said rack B be guided in its longitudinal movements upon the support. Pivoted to the lower ends of the longitudinal strips is the foot-rest B′, which has pivoted thereto the braces G, which braces are pivoted at their upper ends to the under surface of the seat X. The rear corners of the seat are pivoted to the plates W, which in turn are pivoted to the upper ends of the strips of the rack B by means of the pivotal pins B′, and the longitudinal strips of the back J are secured to the plates W. The arms K′ of the chair are pivoted at K to the longitudinal strips of the back, and an adjusting thumb-screw J′ is provided to hold said arms in a fixed position. The forward ends of the arms K′ are pivoted to arm-supports K^2, which latter are pivoted at their lower ends to the opposite edges of the seat. Mounted in a socket member N, carried on the rear face of the back J, is a rod M, which is held at different heights by means of the thumb-screw O, carried by said member N. Near the upper end of said rod M is carried the head-rest comprising the two pads Q, which are mounted on the apertured socket member P, fitted over the curved end of said rod and held in place thereon by means of the thumb-screw R, as shown clearly in Fig. 4 of the drawings.

Mounted between the upper ends of the inclined strips A of the chair-support is a windlass D, to which are fastened the ropes C and upon which windlass the ropes are adapted to wind. The lower ends of the ropes are attached to the round A^5, as shown clearly in Fig. 1 of the drawings. At the end of the windlass is keyed a crank E, also a ratchet-wheel F, which latter is adapted to be engaged by a pawl in order to hold the chair at a certain height.

From the foregoing it will be noted that a chair made in accordance with my invention may be readily raised or lowered by means of the windlass and may be adjusted to be held at any given height, and when not in use the various parts may be folded into a compact form.

What I claim to be new, and desire to secure by Letters Patent, is—

1. The combination with the inclined support having folded legs pivoted thereto, the rack, the angled plates pivoted to the upper ends thereof, the seat pivoted to said plates and the chair-back fastened to the plates, the foot-rest pivoted to the lower end of the rack, pivotal braces between the seat and the foot-rest, the pivotal arms and braces connecting their outer ends with the seat, and the thumb-screw for locking the arm-rest to the back, as shown and described.

2. In combination with the inclined support having folding legs pivoted thereto, a rack having a grooved edge interlocking with a grooved edge of said inclined support, a windlass and connections between same and the rack for raising and lowering the latter, the angle-plates pivoted to the upper ends of the rack, the seat pivoted to said plates and the chair-back fastened to the plates, the foot-rest pivoted to the lower end of the rack, pivotal braces between the seat and foot-rest, and pivotal arms and braces connecting their outer ends with the seat, as shown and described.

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

JESSE W. McCONNELL.

Witnesses:
D. N. BALING,
J. A. ARIAIL.