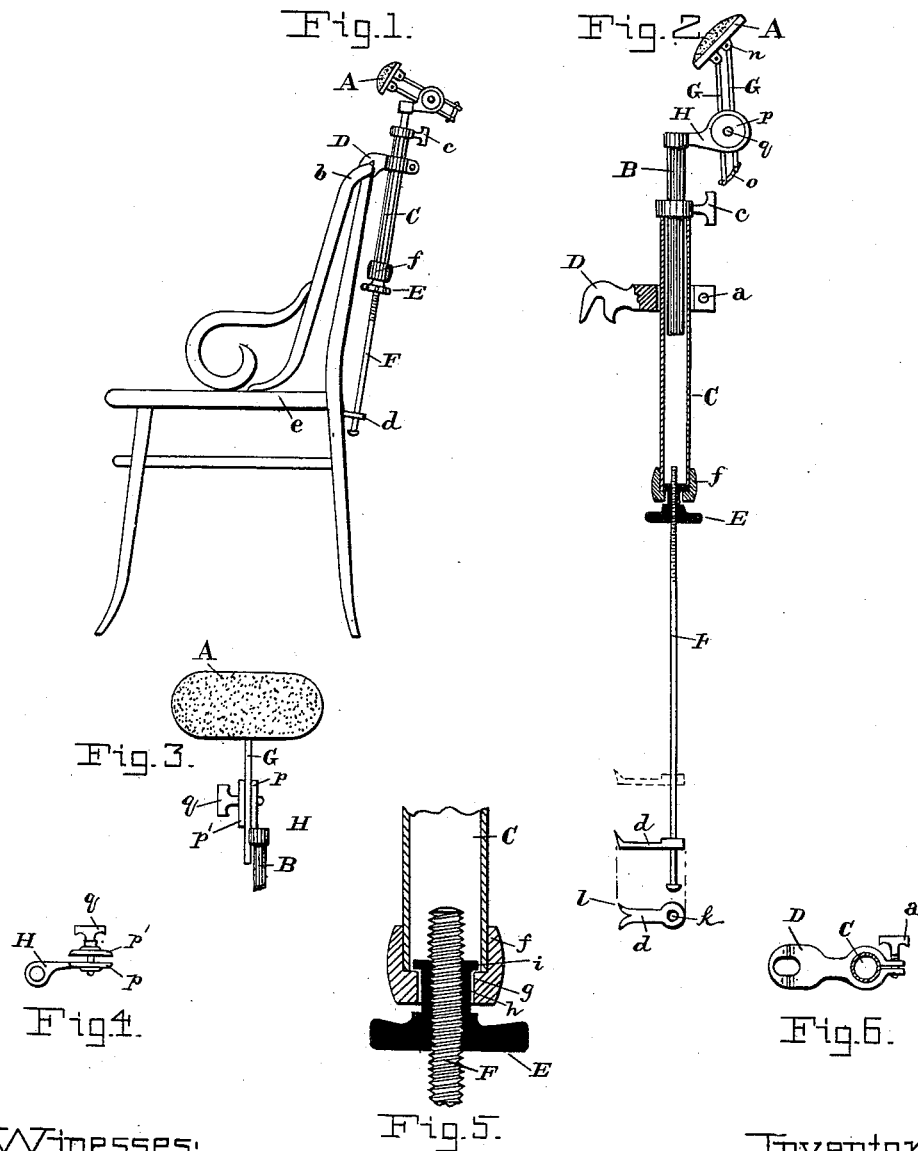


(No Model.)

T. J. CARRICK.
DENTAL HEAD REST.

No. 344,302.

Patented June 22, 1886.



Witnesses:

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UNITED STATES PATENT OFFICE,

THOMAS J. CARRICK, OF BALTIMORE, MARYLAND, ASSIGNOR TO SNOWDEN
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DENTAL HEAD-REST.

SPECIFICATION forming part of Letters Patent No. 344,302, dated June 22, 1886.

Application filed February 12, 1886. Serial No. 191,679. (No model.)

To all whom it may concern:

Be it known that I, THOMAS J. CARRICK, a citizen of the United States, residing at Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Dental Head-Rests, of which the following is a specification.

My invention relates to improvements in adjustable head-rests for chairs for dentists, one object of the invention being to provide a "portable" head-rest—that is, one suitable for attachment to the back of an ordinary chair. Another object is to provide improved means for adjusting the pad of head-rests, whereby the pad may have any one of a great variety of positions, and be held with the necessary rigidity.

The invention is illustrated in the accompanying drawings, in which Figure 1 is a side view of an ordinary chair, to the back of which the improved head-rest is attached. Fig. 2 is a side elevation, partly in section, of the head-rest. Fig. 3 is a front view of the head-rest pad and upper portion of its support. Fig. 4 is a view of the head-rest bracket and gripper. Fig. 5 is a sectional view of the combined coupling and tightening screw, by means of which the portable head-rest is clamped to the chair-back. Fig. 6 is a view of the chair-hook and clamp-screw.

The letter A designates the head-rest pad; B, a cylindrical rod, which supports the head-rest; and C, a tube having a hook, D, which fits thereon loosely, so as to slide up or down as desired. This hook has a clamp-screw, a, by which it is tightened or set on the tube. This hook is to take over the back b of a chair. The head-rest rod B fits within the upper end of the tube C, and is vertically-adjustable, and also may be rotated therein, being held at any desired position by a set-screw, c, at the upper end of the tube. By the adjustment of the rod B the pad A may be raised or lowered, and also tilted sidewise more or less. The lower end of the tube C is provided with a combined coupling and tightening screw, E, and a screw-rod, F, has its upper end grasped by the coupling and tightening screw E, and said upper end enters the lower end of the tube C. The screw-rod F has a laterally-pro-

jecting arm or hook, d, which takes under the seat e of the chair.

From the foregoing description it will be understood the hook D supports the head-rest by hanging on top of the chair-back b, and the arm or hook d takes below the chair-seat. It will now be seen that in order for these parts to grasp the chair, and thereby serve as an efficient clamp, it is necessary only to provide a device on the tube C which will draw upward on the screw-rod F. Such a device is found in the coupling and tightening screw-nut E, which will now be described, and which constitutes one feature of my invention.

To the lower end of the tube C is fixed a collar, f, having at its bottom an inward flange, g. A screw-nut, E, has an internal thread for the screw-rod F, and is provided with a hub, h, which fits and turns freely in the inward flange g on the said collar, and the end of the hub has an outward flange, i, which spreads over the inward flange on the collar. By this means the screw-nut E may turn freely in the collar f, which is fixed on the end of the tube C. When the upper end of the screw-rod F is entered in the screw-nut E, the said nut becomes at once a coupling and tightening screw, whereby the screw-rod F may be drawn upward, and thereby cause the hook D and arm d to grasp the chair.

I am aware that in portable head-rests a rod having at the lower end an arm or hook to take under the chair-seat has been used with its upper end to enter and slide loosely in the lower end of a tube on which the head-rest pad was supported, and that said tube was provided with a clamp-screw for firmly clamping the rod. It will, however, be seen that my device is different and operates differently.

So far as the above described action is concerned, the arm or hook d may be integral with the screw-rod, or it may, as shown in the drawings, be adjustable on the screw-rod. The latter is preferred. To provide an arm or hook, d, which may be quickly adjusted up and down on the screw-rod F, a round hole, k, is made in one end of the arm to receive the said rod, and the other end has one or two prongs, l, to engage with the chair-seat. The

rod F passes loosely through the hole *k* in the arm, and when the prongs of the arm are below the chair-seat and the rod F is drawn upward by turning the tightening-screw E, the effect is to slightly raise the end of the arm and cause the end to bind, and thereby become set fast in the hole *k*. This construction allows the arm *d* when it is free from the chair-seat to slide on the rod F, which is an advantage, inasmuch as the device may be readily fitted to a chair-back with but little turning of the screw-nut E.

The parts thus far described constitute improvements which may be used with head-rest pads A, mounted in any ordinary or well-known manner. A novel construction for mounting the pad is, however, here shown, and consists of two parallel rods, G, one above the other, each having one end pivoted to the pad-back, as at *n*. The other ends of the parallel rods are connected by a pivoted link, *o*. The upper end of the head-rest-supporting rod B carries a bracket H, which at one end has a nearly circular or disk-shaped plate, *p*. A separate disk, *p'*, is held adjacent to the said plate by a set-screw, *q*, which passes through it and into the said plate. Thereby the plate and disk serve as a gripper or clamp. The two parallel rods G pass between the plate and disk, and thereby when the set-screw *q* is turned the said rods are firmly gripped and the pad A held. The parallel rods, it will be seen, permit the pad A to have any position desired within an arc of a circle in a vertical plane.

Having described my invention, I claim and desire to secure by Letters Patent of the United States—

1. A portable head-rest having in combination a tube, C, provided with a chair-back hook, and having at its lower end a combined coupling and tightening screw-nut, E, provided with an internal thread, and a screw-rod, F, provided with an arm or hook, *d*, to take below the chair-seat, and having its upper end entered in and engaged with the internal thread of the said coupling and tightening screw-nut whereby, upon turning the said screw-nut, the screw-rod is drawn upward when it is desired that the device shall grasp the chair, as set forth.

2. A head-rest having in combination a pad, A, having two rods, each pivoted by one end to the pad, and one having position directly above the other, and a supporting-rod, B, having a bracket provided with a set-screw clamp which grips both rods, whereby the pad may be adjusted and held to any position within an arc of a circle in a vertical plane, as set forth.

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

THOMAS J. CARRICK.

Witnesses:

JOHN E. MORRIS,
JNO. T. MADDOX.