

(No Model.)

T. J. CARRICK.  
HEAD REST FOR CHAIRS.

No. 408,823.

Patented Aug. 13, 1889.

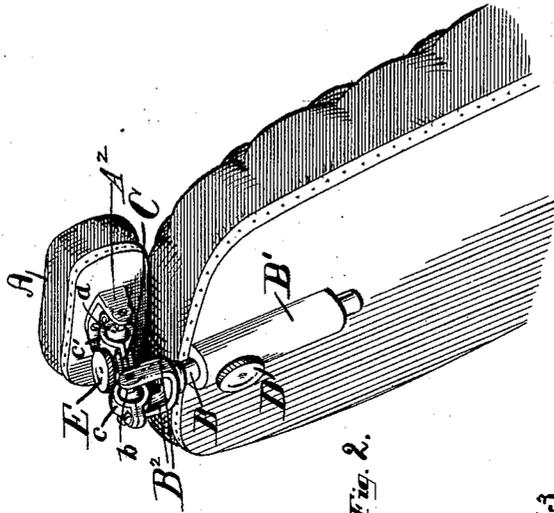


Fig. 2.

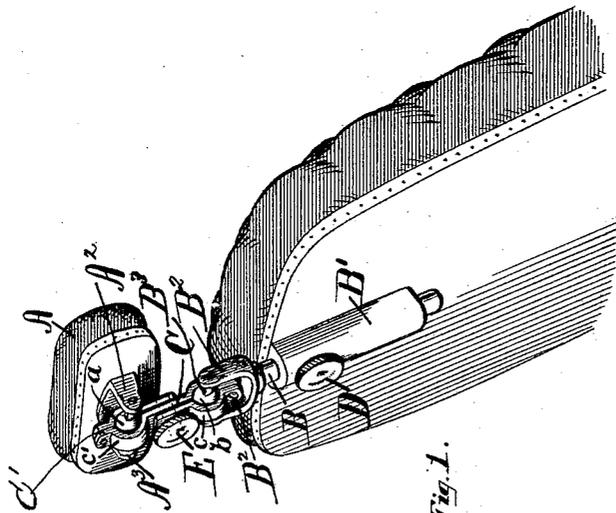


Fig. 1.

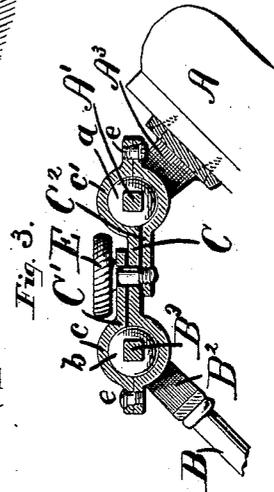


Fig. 3.

WITNESSES:

Edw. P. Simpson, Jr.  
Arthur C. Clarke.

INVENTOR

Thomas J. Carrick  
By *[Signature]*

# UNITED STATES PATENT OFFICE.

THOMAS J. CARRICK, OF BALTIMORE, MARYLAND, ASSIGNOR TO THE S. S. WHITE DENTAL MANUFACTURING COMPANY, OF PHILADELPHIA, PENNSYLVANIA.

## HEAD-REST FOR CHAIRS.

SPECIFICATION forming part of Letters Patent No. 408,823, dated August 13, 1889.

Application filed May 2, 1889. Serial No. 309,363. (No model.)

*To all whom it may concern:*

Be it known that I, THOMAS J. CARRICK, of Baltimore, in the State of Maryland, have invented certain new and useful Improvements in Head-Rests for Chairs, of which the following is a specification.

My invention relates to improvements in adjustable head-rests for chairs, particularly designed for use upon dentists' chairs; and my object is to provide means, of simple inexpensive construction, whereby head-rests may be quickly adjusted and readily and firmly secured in any desired position.

The subject-matter deemed novel will hereinafter be designated by the claims, after first fully describing that organization of parts in accordance with my invention which I deem preferable, but to all the details of construction and arrangement of which I do not wish to be understood as confining myself, as variations may be made therefrom without departure from essential features of my invention.

Figure 1 is a view in perspective showing my improvements as applied to a chair. Fig. 2 is a similar view with the head-rest in a different position from that in which it is represented in Fig. 1; and Fig. 3 is a view on an enlarged scale, partly in section, showing the head-rest and its adjusting and supporting devices detached from the chair.

The head-rest A is connected with the upper end of a supporting-rod B, which is vertically adjustable in a bearing B', secured to the back of a chair. A clamp-screw D serves to secure the supporting-rod at the desired elevation in its bearing. The connection of the head-rest with its supporting-rod is by way of an intermediate clamp-link, (shown as formed in three sections,) consisting of the main piece or body C and end pieces C' C<sup>2</sup>, connected with the opposite ends of the clamp-link body. At its opposite ends the clamp-link is provided with corresponding ball bearings or sockets c c', formed partly in the body section and partly in the end pieces, to receive balls a b, respectively carried by and fixedly connected with the head-rest and the supporting-rod.

To facilitate the fitting and securing of the balls in their sockets in the clamp-link, as well as provide for their removal, the end pieces C' C<sup>2</sup> have detachable jointed connection with the clamp-link body by way of screws e e, engaging the outer ends of the end pieces with the opposite ends of the body. At their inner or free ends the end pieces extend the one beyond the other on opposite sides of the body of the clamp-link, in order that a single clamp may be employed in adjusting and securing the balls in their sockets. As shown, a clamping-screw E, passing through the link-body and the lapping inner ends of the end pieces of the link, serves as the clamp. The ends C' C<sup>2</sup> are so jointed to the body as to allow them to move slightly toward and from the body in tightening and loosening the clamp.

The ball a of the head-rest is secured upon a rod A', fixed at its ends in bracket-lugs A<sup>2</sup> A<sup>3</sup> on the back of the head-rest, and the ball b of the supporting-rod B is secured between lugs B<sup>2</sup> B<sup>3</sup> at the upper end thereof by a cross-bar B<sup>3</sup>, fixed at its ends in these lugs.

From the above description it will be seen that the head-rest has a wide range of movement and great variety of adjustments, as by loosening the clamp D a direct vertical adjustment, as well as a horizontal turning movement, may be given it, and by loosening the clamp E the clamp-link, and with it the head-rest, may be rocked in all directions about the supporting-rod by way of the ball-and-socket joint c b, and the head-rest be adjusted in all directions by rocking it about the clamp-link by way of the ball-and-socket joint a c', and that when the head-rest is suitably adjusted it may be quickly and securely clamped in place. Further, it will be seen that by constructing the clamp-link in sections provision is made for facilitating the formation of the sockets and fitting the balls therein. Obviously, after the fitting of the balls to their sockets, the sections may be permanently connected or rigidly united, thus practically making the body and its ends constitute but one piece, instead of being jointed together; but I prefer the jointed connection, which permits of separation of the parts and

facilitates repairs and renewal of worn parts, as well as provides for quickly and tightly clamping the balls in their sockets by the play allowed the ends about their jointed connections with the body, instead of depending for clamping the balls upon springing the link-body or its ends at the sockets, as would be necessary were the clamp-link body and ends made in one piece or of rigidly-connected parts.

10 I claim as my invention—

1. The combination of the head-rest, the supporting-rod, the balls carried, respectively, by the head-rest and the supporting-rod, the clamp-link provided with the end sockets  
15 and having the inwardly-projecting ends, and

the clamp acting on the inwardly-projecting ends of the clamp-link between its sockets, substantially as set forth.

2. The combination, with the clamp-link consisting of the body and the end pieces 20 jointed thereto and having the sockets at its opposite ends, of the clamp acting upon the inwardly-projecting ends of the end pieces, substantially as set forth.

In testimony whereof I have hereunto sub- 25 scribed my name.

THOMAS J. CARRICK.

Witnesses:

MURRAY HANSON,

WILLIAM H. BERRY.