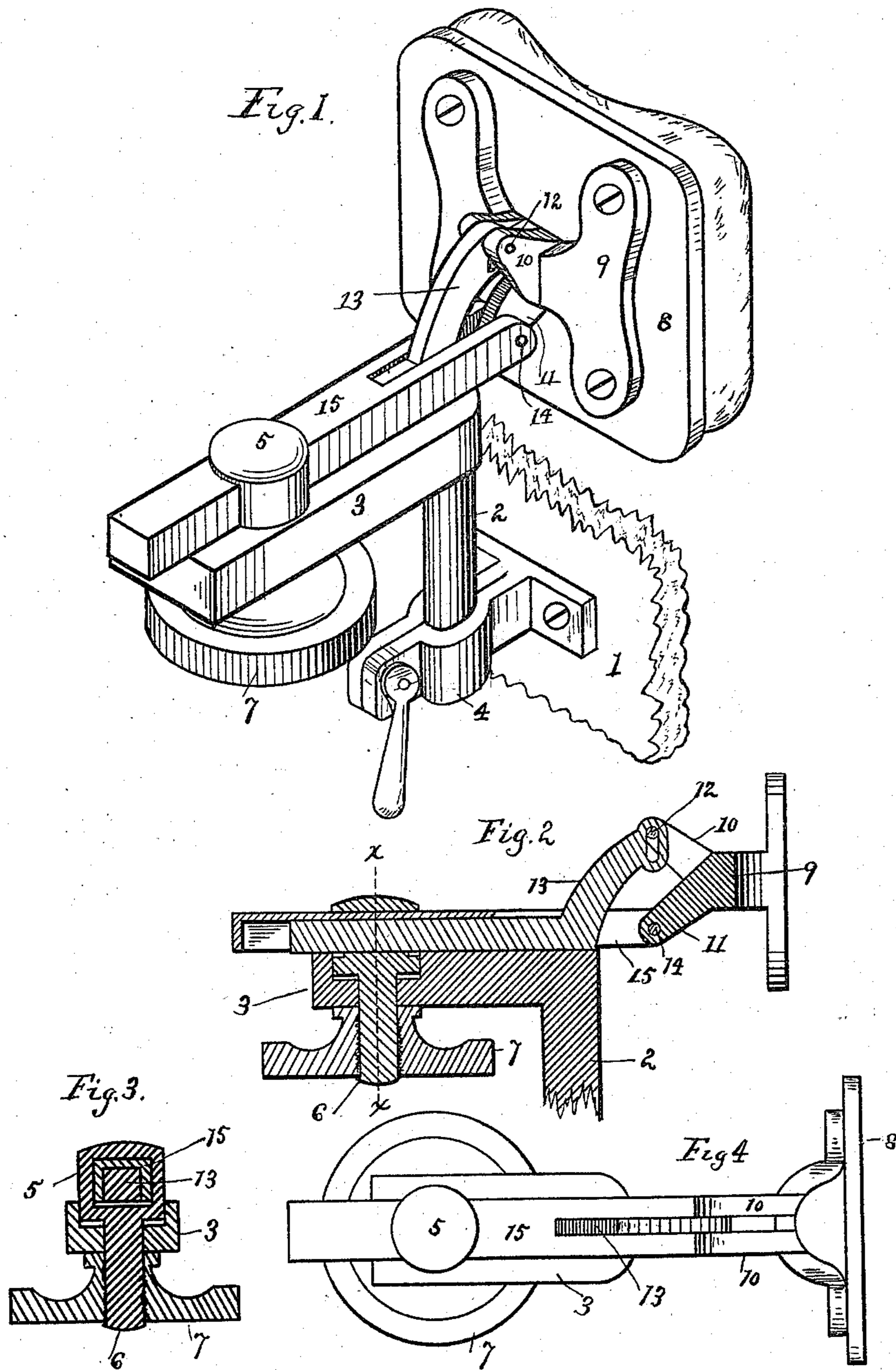


(No Model.)

G. W. ARCHER.  
HEAD REST.

No. 535,783.

Patented Mar. 12, 1895.



WITNESSES:

Frederic S. Church  
Thomas Durant.

INVENTOR,

George W. Archer  
BY  
Church & Church  
his ATTORNEYS

# UNITED STATES PATENT OFFICE.

GEORGE W. ARCHER, OF ROCHESTER, NEW YORK.

## HEAD-REST.

SPECIFICATION forming part of Letters Patent No. 535,783, dated March 12, 1895.

Original application filed January 11, 1890, Serial No. 336,667. Divided and this application filed December 26, 1890.  
Serial No. 375,888. (No model.)

*To all whom it may concern:*

Be it known that I, GEORGE W. ARCHER, of Rochester, in the county of Monroe and State of New York, have invented certain new and useful Improvements in Head-Rests; and I do hereby declare the following to be a full, clear, and exact description of the same, reference being had to the accompanying drawings, forming a part of this specification, and to the figures of reference marked thereon.

This application is a division of my original application, Serial No. 336,667, filed January 11, 1890.

My present invention has for its objects to provide an improved head rest adapted to be used on dental and similar chairs which shall be simple and cheap in construction and will enable the rest to be securely held in any desired position of adjustment the parts being released and again secured after being adjusted by a single operation and it consists in certain novelties of construction and combinations of parts all as will be hereinafter described and the novel features pointed out particularly in the claims at the end of this specification.

In the drawings: Figure 1 is a perspective view of a head rest constructed in accordance with my invention; Fig. 2, a sectional view of the same, and Fig. 3 a cross sectional view on the line  $x x$  of Fig. 2, and Fig. 4, a plan view of the head rest.

Similar figures of reference indicate similar parts.

The figure 1 indicates a chair back of the ordinary or preferred construction and 2 an arm or head rest support consisting of a bar bent at right angles, forming an extension 3, secured thereto in any desired manner preferably by means of a split clamp 4 on the chair back, arranged to grasp and hold said arm in any desired position of adjustment. The rearward extension 3 of the support is provided with a vertical perforation through which extends a clamping bolt 5 having an aperture or eye therein and a threaded shank 6 to which is applied a hand nut 7 co-operating with the under side of arm 3.

The head rest consists of a block 8 properly cushioned, to the rear side of which is secured a bracket casting 9 having two arms 10 and

11, the upper bifurcated and connected by a pin 12 passing through said arm with the slotted end of a stem or plate 13 resting on the arm 3, while the lower arm 11 is connected by a pivotal pin 14 with the bifurcated end of a stem or plate 15, said plate resting upon plate 13 and having the depending flanges at the sides covering the same, while the upwardly projecting end of plate 13 projects between the arms on the end of plate 15, as shown. Both of the plates or bars 13 and 15 extend through the eye of clamping bolt 5, the latter plate resting on the arm 3, so that by screwing the nut 7 up tightly, they will be clamped together and to said arm. By loosening this nut the rest can be tilted forward and backward (the plates sliding upon each other and permitting this) or the whole rest can be moved bodily forward or backward on the arm 3 and again secured by tightening the nut.

By rotating the bar 2 in its socket on the chair back and rotating the bolt 5 in the bar an infinite number of adjustments of the rest, as a whole, can be made.

This form of head rest is very simple and any desired position of adjustment can be had without the employment of a great number of parts or securing or adjusting screws, so that it can be manufactured cheaply.

Instead of employing the form of arm 2, shown, any other form of support could as well be used capable of other adjustments than those here shown, and instead of providing the upper plate or stem with flanges for covering the lower one these could be dispensed with. However, I prefer to employ them as they seem to give a better finish to the parts.

Other means of positively and yet adjustably connecting the stem and rest could be employed instead of the slot and pin connection shown, but I prefer this on account of its cheapness and simplicity.

I do not claim broadly a head-rest with two stems connected thereto and sliding upon each other combined with a single clamp for locking them together and to a support, as the same is not of my invention.

I claim as my invention—

1. The combination with the head rest support, of the head rest, the two arms thereon,

the plate having the bifurcated end, pivoted to one of the arms on the rest and another plate extending between the arms of the last mentioned one and pivoted to the other arm  
5 on the rest, substantially as described.

2. The combination with the head rest support, of the head rest, the two supporting plates in contact with each other one pivoted directly to the rest and the other connected  
10 thereto by a flexible adjustable connection and a clamping device arranged to lock the plates together, substantially as described.

3. The combination with the head rest support, of the head rest, the two supporting  
15 plates, one pivoted directly to the rest and the other connected thereto by a flexible adjustable connection and a clamping device arranged to lock the plates to each other and to the rest support, substantially as described.

20 4. The combination with the head rest support of the head rest, the two superposed supporting plates therefor, each independently connected to the head rest and arranged in the same plane, a clamping bolt having an eye  
25 through which said plates pass and passing through the head rest support and a nut on the bolt for clamping said plates to each other and to the support, substantially as described.

30 5. The combination with the head rest support of the head rest, the two supporting plates

or stems therefor, one pivoted directly to the rest and the other connected thereto by a slot and pin connection, both plates being arranged in the same plane, and a clamping device for securing them to each other and to  
35 the support, substantially as described.

6. The combination with the head rest support, of the head rest, the two supporting plates therefor, one arranged upon the other  
40 and one pivoted directly to the head rest, and the other by a slot and pin connection, a clamping bolt having an eye through which said plates pass and passing through the head rest support and a nut on the bolt for clamping  
45 said plates to each other, substantially as described.

7. In a head rest, the combination with a suitable support and a head rest cushion, of a two part stem connecting the head rest cushion with the support, one of the parts of the  
50 two part stem being pivoted directly to the cushion frame and the other connected therewith by a flexible adjustable connection, and a clamping device to lock the parts of the stem  
55 together and to the support, substantially as described.

GEORGE W. ARCHER.

Witnesses:

WALTER S. HUBBELL,  
FRED F. CHURCH.