

(No Model.)

S. D. McKELVEY.
HEAD REST.

No. 587,223.

Patented July 27, 1897.

Fig. 1.

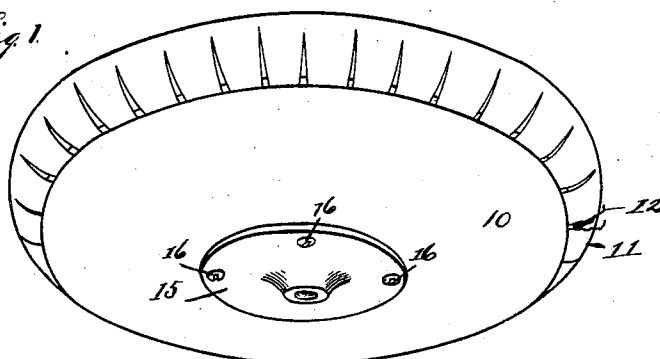


Fig. 3.

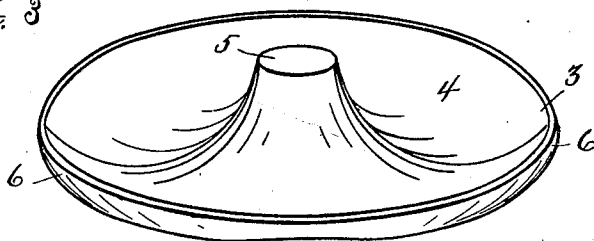


Fig. 2.

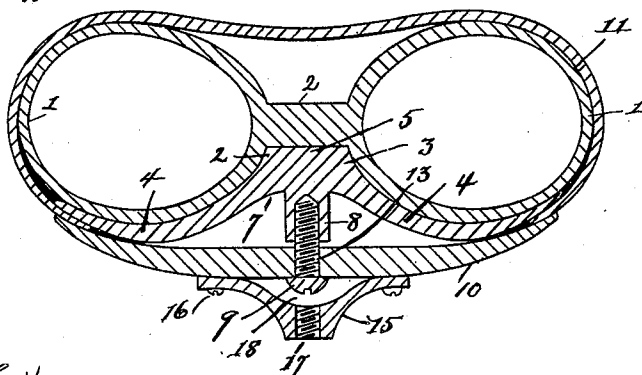
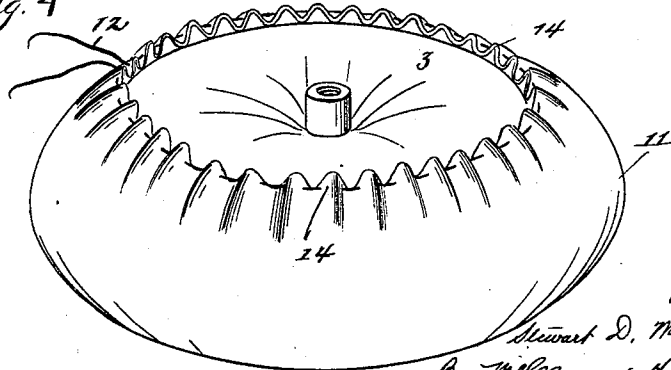


Fig. 4.



WITNESSES,

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UNITED STATES PATENT OFFICE.

STEWART D. McKELVEY, OF CANTON, OHIO, ASSIGNOR TO FRANK E. CASE,
OF SAME PLACE.

HEAD-REST.

SPECIFICATION forming part of Letters Patent No. 587,223, dated July 27, 1897.

Application filed October 1, 1894. Serial No. 524,556. (No model.)

To all whom it may concern:

Be it known that I, STEWART D. McKELVEY, a citizen of the United States, residing at Canton, in the county of Stark and State of Ohio, 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 invention, such as will enable others skilled in the art to which it appertains to make and use the same.

My invention relates to head-rests for dental chairs, and especially to that class of head-rests in which pneumatic or other forms of yielding pads are employed.

The invention consists in improved means for supporting, securing, and protecting the head-rest pads and for permitting the removal of the pad-covering when worn.

In the accompanying drawings, forming part of this specification, Figure 1 is a perspective view of a head-rest pad secured to its supporting-cup. Fig. 2 is a central vertical section of the same, taken through the length of the pad. Fig. 3 shows the pad-plate detached from the other parts of the device, and Fig. 4 illustrates the cover inclosing the pad and its plate.

The numeral 1 indicates the cushion or pad proper, which is preferably made of rubber, inflated with air, and provided with a central depression 2 on either side, as shown in Fig. 2. This form of pneumatic pad constitutes the subject-matter of separate applications for Letters Patent heretofore filed by me, and therefore no claim to said pad is herein made except as an element of the combinations defined in the appended claims.

3 indicates a supporting and reinforcing metallic plate adapted to receive the pad, as shown in Fig. 2. This plate conforms in general contour to the surface of the pad, being hollowed out or concaved on its inner side 4 and provided with a central boss or projection 5 in the form of a truncated cone to fit the depression 2 in the pad. The outer side of the plate 3 is rounded at the points 6 corresponding to the form of the pad and is provided centrally (opposite to the boss 5) with a depression 7, from which projects an internally-threaded socket 8, adapted to receive

the screw 9 of the supporting-cup 10, as will be hereinafter further explained.

The pneumatic pad and its plate 3 are provided with a covering 11 of plush, leather, or other suitable upholstering material. This cover is preferably cut round or in elliptical form and provided with an edge draw-string 12, so that by drawing the ends of the string and securing them the cover is neatly secured in place and serves to secure the pad and plate together. The pad and its plate 3, as thus covered, are then placed in the supporting-cup 10, which is of the concavo-convex form shown in Figs. 1 and 2 and provided with a central screw-opening 13, which registers with the threaded socket 8. The parts are then finally secured and clamped together by the screw 9, the edges 14 of the cover being concealed by the cup, as illustrated in Fig. 1.

The cup 10 may be provided with any suitable means for securing it upon a head-rest support. I show in the drawings a securing device consisting of a circular plate 15, adapted to be secured concentrically to the cup by screws 16 and provided centrally with a threaded opening 17 to receive a threaded supporting-arm. The inner side of the plate 15 is concaved or hollowed to form a space 18 to accommodate the head of the screw 9.

The construction thus described and illustrated not only affords a secure and firm support for the pad, but it will be apparent that by simply removing the plate 15 and screw 9 the parts may be readily disconnected to permit of the renewal of the cover 11 or any other purpose.

It will be understood that I do not limit myself to the form of pad shown in the drawings, but reserve the right to employ a pneumatic ring, a spring-pad, or any other suitable yielding cushion.

Having fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A head-rest pad, consisting of the combination with a pneumatic cushion or pad, having central depressions on either side, of a plate hollowed out to fit said pad, and provided with a central projection entering one of said

depressions, a removable cover for said pad and plate, and a supporting-cup within which said plate fits, and a securing-screw for detachably joining the plate and cup, substantially as described.

2. The combination with the elastic pad, of a reinforcing-plate conforming in contour to said pad, and provided with a central projection to engage said pad, and with an interiorly-threaded socket to receive a screw, a removable cover for said pad and plate, and a cup secured to said plate, and concealing the edges of the cover, substantially as described.

3. The combination with the pneumatic pad formed with a central depression, of a reinforcing and supporting plate hollowed out and provided on its inner side, with a central pro-

jection to enter said depression, and on its outer side with a threaded socket, a cover inclosing the pad and plate, and provided with an edge draw-string, and a supporting-cup, removably secured to the plate, substantially as described.

4. The combination with the pneumatic pad, plate, and cover of a cup secured to the plate, and a securing-plate detachably secured to said cup, and provided with a threaded central opening, and a hollowed or concaved portion 18, substantially as described.

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

STEWART D. McKELVEY.

Witnesses:

M. S. LANDIS,

F. O. McCLEARY.