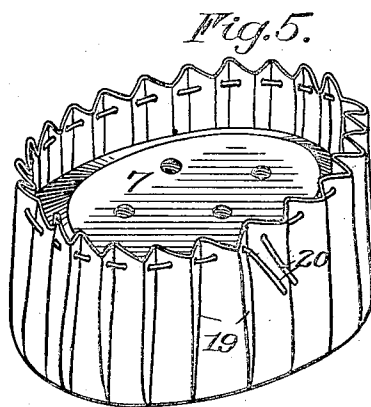
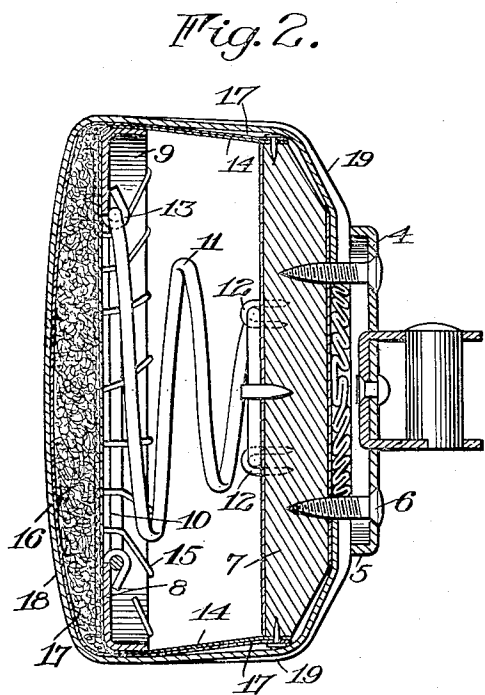
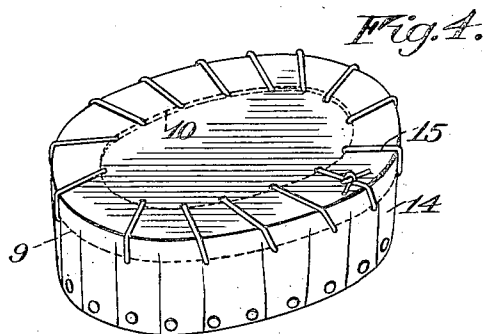
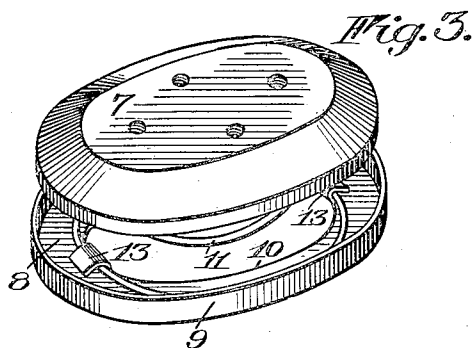
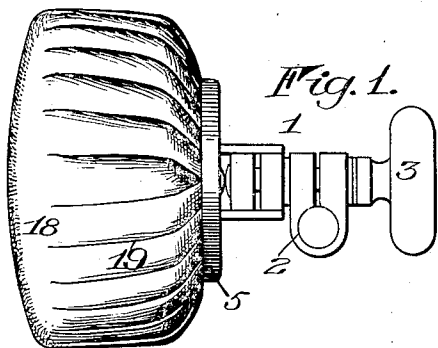


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HEAD REST.

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1,054,033.

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UNITED STATES PATENT OFFICE.

FRANK RITTER, OF ROCHESTER, NEW YORK.

HEAD-REST.

1,054,033.

Specification of Letters Patent.

Patented Feb. 25, 1913.

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To all whom it may concern:

Be it known that I, FRANK RITTER, 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 reference-numerals marked thereon.

My present invention relates to furniture and more particularly to chairs and other articles thereof which employ head rests, either fixed or detachable, and it has for its object to provide a head rest which will be particularly adapted for use in connection with barbers' or dentists' chairs.

The improvements are directed in part toward producing a rest that will be simply constructed, reducing the cost of production, yet durable and which will be comfortable in use, readily accommodating itself to both the pressure exerted by and the position of the occupant's head.

To these and other ends the invention consists in certain improvements and combinations of parts all as will be hereinafter more fully described, the novel features being pointed out in the claim at the end of the specification.

In the drawings: Figure 1 is a top plan view of a head rest constructed in accordance with and illustrating one embodiment of my invention, the attachment being shown by means of which it is in the present instance adjustably connected to the chair or other support; Fig. 2 is a central horizontal section therethrough; Fig. 3 is a detail perspective view of the base or body block and the head supporting frame with their means of connection; Fig. 4 is a perspective view of the same parts with the inner covering in place and showing the means of attaching the latter to the frame, and Fig. 5 is a perspective view illustrating the manner in which the partially completed rest of Fig. 4 is inclosed within the outer covering.

Similar reference numerals throughout the several figures indicate the same parts.

In addition to the head rest proper, as illustrated in the present instance, the jointed connection indicated generally by 1 and embodying the attaching clamp 2 to receive the supporting rod on the chair back

against which latter it is tightened by the hand wheel 3 is also shown, and comprises a plate 4 that is screwed or otherwise suitably fastened at 6 to a body block or member 7 forming the base of the head rest proper.

Arranged opposite the body member 7 is a head supporting frame 8 that is preferably of approximately the same shape, though slightly greater in size. I prefer to construct it of sheet metal with a rearwardly turned marginal flange 9 and a relatively large concentrically arranged opening 10. Interposed between the frame and body member is a single helical spiral spring 11, the smaller end of which is secured at 12 to the forward face of the body member while the larger end rests against the frame 8 to encircle the opening 10 therein and as a convenient means of securing it in such position I provide attached lugs or ears 13 on the frame made up from portions of the sheet material displaced in the formation of the central opening 10. The axis of generation of the spring is concentric with reference to the opening. It will be noted that by this construction the relative movement of the frame and body member is rendered practically universal within certain limits, that is the member 7 being considered stationary, the head supporting frame can tilt at any angle when pressure is applied at any point about its rim while the resilient quality of the support it offers is not in any way impaired. The spring is preferably normally held under compression and the general disposition of the parts just described is maintained by an inner covering 14 of flexible material, such as cotton sheeting, that is stretched across the opening 10 and has its free ends or marginal portions suitably secured to the body member 7, as clearly shown in Fig. 4. A cord 15 wound spirally about the frame and passed through the cover 14 binds the latter to the frame which is thus in a measure held in place in alinement with the body member against tendencies toward lateral displacement. In addition to this, this fastening holds the material of the covering stretched across the opening 10 to form a soft and yielding backing for the padded cushion, to be later referred to, and prevents the covering from drawing back and forth about the frame to any considerable extent when the spring is compressed and the frame moved against the body member. There is considerable differ-

ence between securing the inner covering by an anchor cord and connecting, or riveting it, or otherwise rigidly connecting said covering to the head rest frame, as the cord permits a limited movement of the fabric relatively to the edge of the frame, in one direction when the spring is compressed and in the other direction as it expands. During the compression of the spring the fabric moves slightly into the central depression of the frame to add to the elasticity of the pad as a whole. When the frame is in its normal position the fabric is stretched tight over the frame aperture to restore the pad to its normal rounded condition. The inner covering is held in this position by reason of the tension of the spring which is normally attempting to move the head rest frame away from the body block, and consequently stretches the side or edge portions 14 causing them to be drawn tight.

A hair or other suitably padded cushion 16 is superposed upon the frame 8 to extend across the opening 10, being supported and held in place by the inner covering 14 and an outer covering 17, substantially like the inner one and preferably secured in the same manner. Still another outer covering 18, preferably of leather or some similar material of good appearance and calculated to properly withstand the wear is provided, which follows, in extent, the other coverings but also hides the rear face of the body member 7. To this end it is preferably formed as shown in Fig. 5 with crimps or plaits 19 through which are passed a restricting cord 20 in the manner of an opera bag so that the rest can be inserted therein, as shown, and the opening through which it was introduced drawn together or puckered after which the plate 4 is applied and the puckered portion clamped beneath it, as shown in Fig. 2. The flange 5 of the said plate forms a recess therein to readily accommodate these raw edges in their bunched condition.

Attention is called to the fact that by vir-

tue of the construction shown and described the cushion 16 is backed up to form a soft support by the material of the cover 14 stretched across the opening 10 while the whole frame in turn is supported by the spring, and as the latter surrounds but does not extend across the opening it can in no event project therethrough nor come in contact with the cushion should the latter sag through the opening a trifle. A further advantage attributed to the arrangement of the outer covering lies in the fact that its edges are adjustable in rear of the body member by means of the shirring string which permits the cover to be drawn more or less tightly to compress the spring or yielding support of the outer or head member thereby fixing or determining the hardness or flexibility of the head rest as a whole. It will also be noticed that the screws or securing devices 6 pass through the edges of the outer covering, outside of the shirring string, and assist the flange 5 to firmly secure the edges of the covering and prevent their accidental withdrawal.

I claim as my invention:

In a head rest, the combination with a body block, a head supporting frame located in front of the body block having a central opening and a helical spring interposed between said members, of a flexible cover stretched across the opening in the frame and over the side edges thereof and attached to the body member, an anchor cord movably holding the cover in position with reference to the frame permitting it to slip inwardly over the edge of the frame to allow its center portion to yield when pressure is applied thereto, said anchor cord also permitting the material to be drawn across the frame to flatten its central portion when the spring is released and moves the frame away from the body block.

FRANK RITTER.

Witnesses:

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