

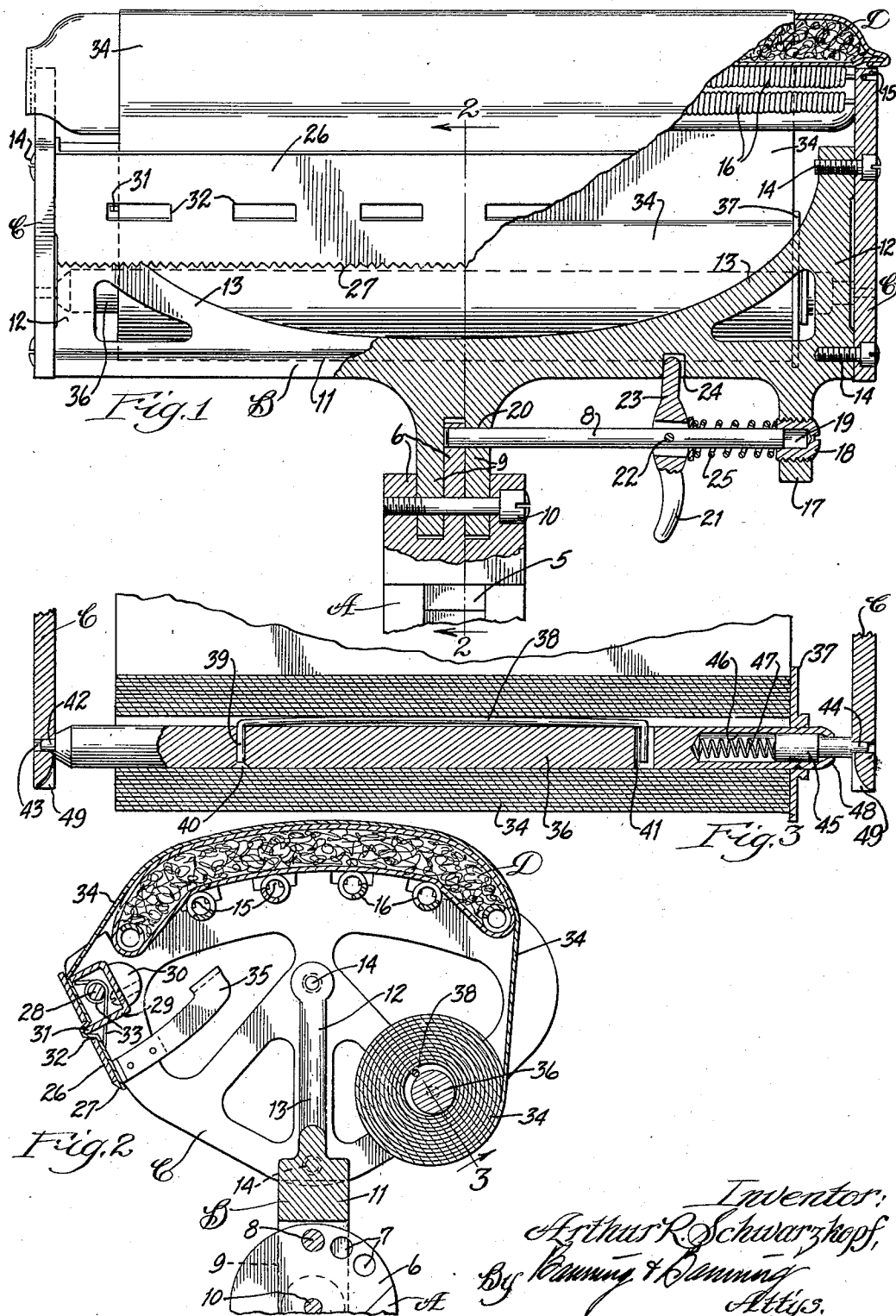
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ADJUSTABLE HEADREST

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## UNITED STATES PATENT OFFICE

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## ADJUSTABLE HEADREST

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This invention, which relates to certain improvements in an adjustable head rest for barber chairs and the like, is concerned more particularly with the frame construction thereof and with an associated locking bolt for locking the head rest in a predetermined rotative position upon the hub of a slide bar with which the head rest is ordinarily equipped. A suggestive embodiment of my invention is illustrated in the accompanying drawings in the manner following:

Figure 1 is a rear view partly in elevation and partly in section;

Fig. 2 is a view in transverse section taken on line 2—2 of Fig. 1; and

Fig. 3 is a sectional view, taken as indicated by line 3—3 of Fig. 2.

The illustrated head rest which is pivotally supported on the upper end of a slide bar A includes a bracket bar B extending between end plates C which furnish support for a pad D. The slide bar may be provided with a rack 5 for locking the head rest in a vertically adjusted position relative to the back of a chair, and, as shown, is provided at its upper end with a hub 6 having a series of circumferentially arranged holes 7 through which a locking bolt 8 may be projected for releasably locking the head rest in a desired rotative adjusted position. The bracket bar is equipped with a pair of depending lugs 9 one lying upon either end of the hub to which a pivotal connection is made by a pin 10. The bracket bar is in the form of an inverted arch having a horizontal portion 11 and upstanding end portions or brackets 12 which may be reinforced by braces 13. The end plates C are attached to the end portions as by screws 14.

It will be noted that the bracket bar and the end plates form the skeleton or frame of the head rest, and it is not necessary to connect the end plates near their upper edges by tie rods to furnish adequate support. This eliminates the use of any rigid connecting members directly below the pad D which is accordingly free to flex downwardly, as desired. The end plates may be provided with hooks 15 on their upper edges to hold

the opposite ends of coil springs 16 which support the pad D.

As shown in Fig. 1, I provide the bracket bar with a depending lug 17 formed with a threaded opening into which is secured a bushing 18 having a central bore 19 adapted to furnish a bearing for one end of the locking bolt 8. The other end of the locking bolt is supported in an aligned opening 20 in the proximate lug 9. A finger piece 21 is transversely apertured to receive the locking bar to which it is pivotally connected by a pin 22. The upper end 23 of the finger piece extends into a socket 24 in the bracket bar so as to have a fulcrum mounting therein. Extending between the finger piece and the bushing is a compression spring 25 surrounding the locking bolt and exerting a thrust on the finger piece which tends to hold the locking bolt within one of the holes 7 of the hub 6. By this construction the locking bar terminates short of the end plate so as to avoid contact with the garment of the operator.

Mounted to the rear of the head rest, and between the end plates, is a tear-off plate 26 having one edge serrated as at 27. The tear-off bar is connected at its ends to a hinge pin 28 whose ends are fitted in suitable openings in the end plates (not shown). A clamping bar 29 which extends between the end plates is secured thereto by screws which enter lugs 30 extending inwardly from the end plates. The clamping bar 29 is provided with spaced elongated teeth 31 which are in alignment with openings 32 in the tear-off bar. A spring 33 holds the tear-off bar against the clamping bar to hold the paper 34 in place on the pad. A suitable handle 35 may extend from the tear-off bar for releasing it from engagement with the clamping bar.

The paper 34 is supplied from a roll which may be supported on a metallic spool 36 having a flange 37 secured near one end thereof. Carried by the spool is a wire spring 38 having its opposite ends transversely bent in the same direction. One spring end 39 is fitted snugly within an opening extending transversely through the bar, the protruding spring extremity 40 being then flattened or

peened to lock the end of the spring in place. A second transverse opening 41 is provided in the spool for loosely receiving the opposite or free bent end of the spring which tends to bow outwardly from the spool so as to engage with pressure a roll of paper mounted thereon. The spool is further provided at one end with a fixed trunnion pin 42, adapted to enter a bearing opening 43 in the proximate end plate. The opposite end of the spool is provided with a spring-pressed trunnion 44 having an enlarged head 45 slidably fitted in a bore 46 in the spool. A coil spring 47 bears against the end of the trunnion to force it outwardly. The trunnion is held in the spool by an inward crimping, as at 48, of the edge adjacent its end.

To remove the roll of paper, the operator grasps the roll and presses to the right, as viewed in Fig. 3, whereupon the roll bears against the flange 37 which is rigidly attached to the spool, moving the same against the spring 47, and disengaging the trunnion 42. The spool is then pressed downwardly and moved to the left so as to disengage the other trunnion 44. Replacement of the roll requires merely a reverse operation in which one or both trunnions may be slid along cam surfaces 49 preliminary to entering the holes in which they are journaled. By means of these cam surfaces, the trunnions, or spool, are shifted endwise as required to take up positions within the bearings provided therefor, in consequence of which no special care need be exercised in the handling of the roll during such a replacement operation.

It will be seen that the present device is made extremely rigid by virtue of the one-piece bracket bar which is constructed to support and brace the end plates. It will be further noted that the bracket bar does not interfere in any way with flexing of the pad. The parts are, furthermore, so constructed and arranged as to be assembled and operated with the greatest ease.

I claim:

1. In combination with an adjustable head rest, an arched bracket bar having depending lugs with aligned openings therein, an adjustable bearing bushing in one of the openings, a locking bar fitted in the bearing bushing and remaining aligned opening, a finger piece fulcrumed on said bracket bar and attached to the locking bar for operating the same, and a spring surrounding the locking bar between the finger piece and bearing bushing to urge the locking bolt to locked position.

2. In a head rest, the combination of means upon which a pad is carried, a support pivotally connected to said means, spaced bearings depending from said means, a locking bar movable in the bearings parallel to the pivotal connection for said means, one of the bearings including a bushing adjustably carried by said means, a finger piece ful-

crumed to said means and pivotally joined to the locking bar for operating the same, and a spring exerting opposite thrusts on the finger piece and bearing bushing adapted to urge the locking bolt in one direction.

3. In a head rest, the combination of a bar having arched braces connecting upstanding brackets at the ends of the bar and means for adjustably connecting the bar to a support, and pad carrying end plates secured adjacent their lower extremities to the ends of said bar and adjacent their upper extremities to said brackets, whereby to support and laterally brace said plates from said bar in parallel spaced relation.

4. A head rest comprising a rigid bar having means for adjustably connecting it to a support, bracket means upstanding from the ends of the bar and having lateral bracing means connecting the brackets to the bar, whereby to provide an unobstructed space between the bracket means above the bar, and a resilient pad connected at its ends to the upper ends of said bracket means and adapted to flex into the unobstructed space above the bar.

In testimony whereof, I have hereunto set my hand this 10th day of March, 1930.

ARTHUR R. SCHWARZKOPF.