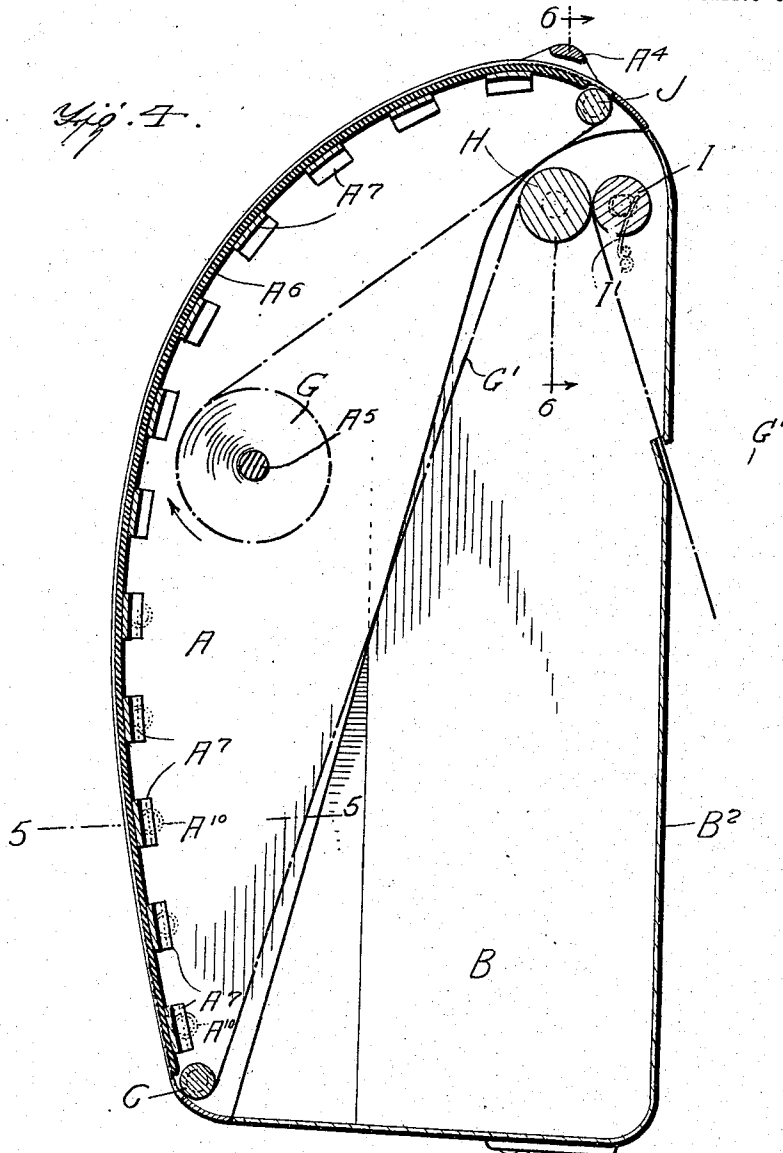
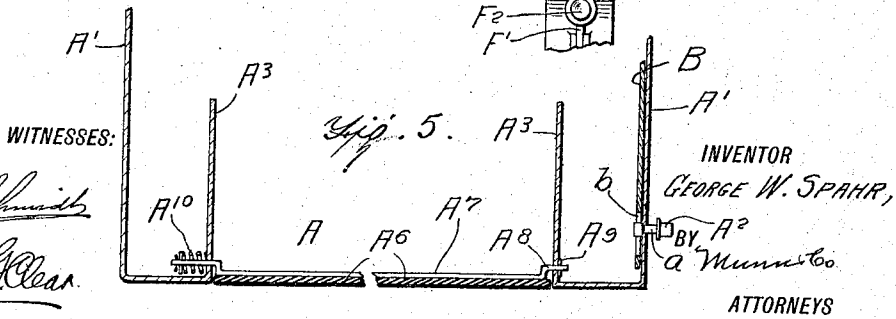


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3 SHEETS—SHEET 2.

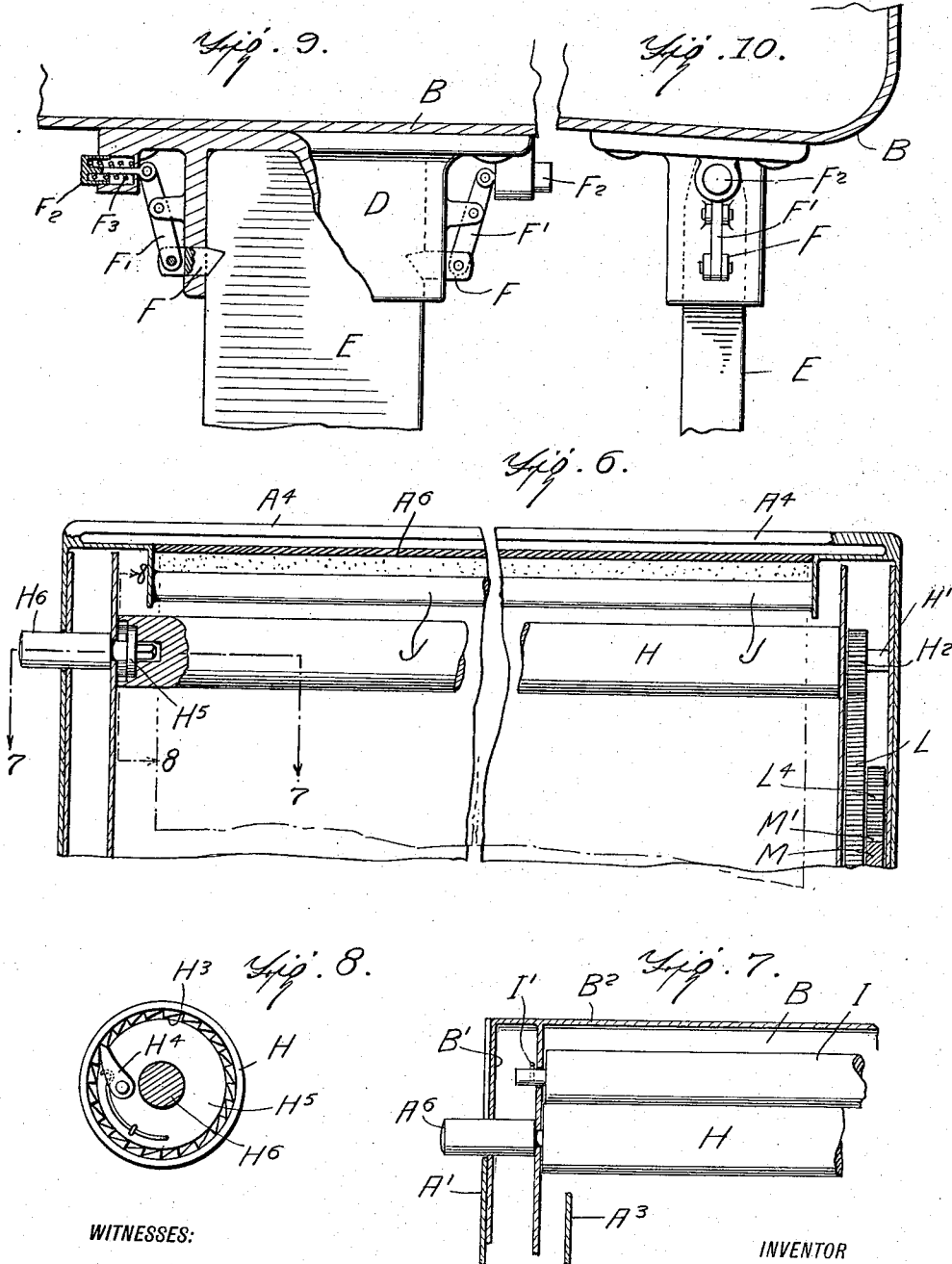


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HEAD-REST FOR BARBERS' CHAIRS.

1,217,652.

Specification of Letters Patent.

Patented Feb. 27, 1917.

Application filed December 13, 1915. Serial No. 66,497.

To all whom it may concern:

Be it known that I, GEORGE W. SPAHR, a citizen of the United States, and a resident of Sacramento, in the county of Sacramento and State of California, have invented a certain new and useful Improvement in Head-Rests for Barbers' Chairs, of which the following is a specification.

My present invention relates particularly to head-rests for barbers' chairs, and more especially to those head-rests employing sanitary means, usually paper, to cover the surface thereof, my object being in the first instance to do away with the usual waste of manual control and disposition of paper for each patron, and to regulate the same automatically.

A further object is to provide a head-rest having a quick detachable connection with its supporting stand, whereby to obviate necessity for the removal of the latter each time the headrest is removed.

A still further object is to provide a labor saving device which will be simple and strong in construction, and which will be durable and effective in use for the purposes for which it is intended.

Further objects and their resulting advantages, will better appear from the following description, in which reference is made to the accompanying drawings, forming a part of this specification, and in which—

Figure 1 is a perspective view of my improved head-rest, illustrating the front section detached at its upper portion from the rear or main section.

Fig. 2 is a vertical section through one end portion of the rear or main section of the head-piece taken substantially on the line 2—2 of Fig. 3.

Fig. 3 is a vertical transverse section taken therethrough substantially on line 3—3 of Fig. 2.

Fig. 4 is a vertical transverse section through the head-rest illustrating the parts in operative position, and taken at a point intermediate its ends.

Fig. 5 is a horizontal section taken there- through substantially on line 5—5 of Fig. 4.

Fig. 6 is a detail vertical section taken therethrough substantially on line 6—6 of Fig. 4.

Fig. 7 is a detail horizontal section taken therethrough substantially on line 7—7 of Fig. 6.

Fig. 8 is a detail section taken there- through substantially on line 8—8 of Fig. 6.

Fig. 9 is a front view, partly broken away and in section, illustrating the detachable connection between the lower portion of my improved head rest and the usual support- ing standard, and

Fig. 10 is a side view thereof.

Referring now to these figures, and particularly to Fig. 1, it will be seen that my improved head-rest consists of a front section A and a rear or main section B, these sections being hingedly connected at their lower portions upon a bolt C extending through the lapping lower portions of the end pieces A' and B' respectively, one end piece A' of the front section A having a laterally projecting stud A² provided with an intermediate reduced portion *a* by which it may be inserted within the reduced neck portion *b'* of an arcuate slot *b* in one end B' of the rear section B, and in which slot *b* stud A² is normally confined in the operation of my improved head-rest whereby to permit of limited movement of the forward section A with respect to the rear or main section B for a purpose which will be hereinafter brought out.

Referring now to Figs. 9 and 10, it will be seen that the rear or main section B is provided with a depending socket member D adapted to receive the upper end of the usual supporting standard E, by which the head-rest is maintained upon and in connection with a barber's chair, the side walls of the socket member D being provided with apertures, and the upper end of the said standard E being, in accordance with my invention, provided with recesses adapted to aline with these openings for the reception of the inner ends of laterally movable locking pins F pivotally connected to the lower ends of intermediately fulcrumed levers F', the upper ends of which are pivotally connected to push buttons F², the locking pins F being normally held in their inner engaged positions, as particularly shown in Fig. 9, through the action of springs F³ operating against the push buttons F² before mentioned. Thus it is simply necessary

for the operator to press inwardly upon the push buttons F^2 in order to release the entire head-rest from its supporting standard E, permitting removal of the head-rest whenever necessary or desired, without necessitating the removal of the standard E from the chair. This is particularly convenient when a patron is in the barber's chair, inasmuch as it avoids the necessity of his moving forward in the chair, as when the usual head-rest secured to the standard E, is to be removed.

The front section A consists of two end pieces each of which end pieces includes an outer end wall A' previously mentioned, and an inner wall A^3 , as best seen in Fig. 5, the upper ends of these end pieces just mentioned being connected by a rigid cross bar A^4 , and the lower ends thereof being connected by the cross rods C before mentioned, constituting the fulcrum upon which the front section A is movable, normally within the limit of slot b, with respect to the rear or main section B.

The front section A supports an intermediate cross rod A^5 constituting a roll holder for holding a roll of paper indicated at G in Fig. 4, the paper strip G' from which passes rearwardly and upwardly over a guide roller J and outwardly above the upper end of the front section A below its upper cross bar A^4 , and then downwardly over the head-supporting flexible surface of the front section A, and inwardly and upwardly around the cross rod C before mentioned. Within the head rest again, the strip G' passes over a feed roller H and downwardly between the same and a pressure roller I and from thence outwardly through a slot in the rear wall B^2 of the rear section B, all as best seen in Fig. 4.

The flexible head supporting surface of the front section A, which extends between its end pieces, consists of a flexible covering A^6 of suitable material, such as leather, supported upon a plurality of cross strips A^7 having their offset end portions A^8 extended through apertures in the inner walls A^3 of the end pieces, each of these cross strips having one end A^8 secured by a cross pin A^9 as clearly seen in Fig. 5 and having its opposite end movably held by a spring A^{10} . These cross strips A^7 are themselves flexible, and are movably held by the springs A^{10} , and support the flexible covering A^6 in such manner as to afford a comfortable rest for the head, and a rest over which the sanitary paper strip G' is extended.

Referring now to Figs. 6, 7, and 8, it will be seen that the pressure roll I before mentioned is urged against the feed roll H by means of springs I' and that the said feed roll H is provided at one end with an extended shaft H' having a gear wheel H^2 secured thereon, the opposite end of said

feed roll having an internal ratchet H^3 engaged by a pawl H^4 , this pawl being secured to a disk H^5 in turn connected to a finger-piece H^6 extending out through the adjacent end walls of the rear section B as particularly shown in Fig. 6, so that the operator may manually control the feed roll to feed paper from the paper roll G when necessary.

Ordinarily, however, the paper is fed by automatic actuation of the feed roll H controlled by the movement of the front section A with respect to the rear section B.

To the end that this automatic action may take place as desired, the gear wheel H^2 of the feed roll before mentioned, is in mesh through an idler H^7 with a gear wheel L loose upon a shaft L' as seen in Figs. 2 and 3 in particular, and having a pawl L^2 in engagement with a ratchet wheel L^3 to which is secured a gear L^4 in mesh with the upper rack M' of a reciprocating actuating bar M having horizontal movement within the rear or main section B upon guide-pins M^2 extending through its longitudinal slot M^3 .

In its forward position, this actuating bar M is to be engaged and moved rearwardly by the adjacent end piece of the front section A of the head rest, a spring M^4 engaging the rear end thereof to urge the same forwardly when pressure is removed from the front section A, in order to rotate the feed roll H and feed a portion of the strip G' upwardly from the paper roll G.

It will be noted from Fig. 3 that the lower edge of the actuating bar M is provided with ratchet teeth M^5 inclined forwardly and to be engaged by the rear spur N' of a locking dog N intermediately fulcrumed and having its forwardly extending tail portion engaged by the upper end of an intermediately fulcrumed controlling rod O at the lower end of which is a counterweight O' . The spur end N' of the locking dog N is engaged by a spring N^2 normally tending to hold the same in engagement with the teeth M^5 .

Thus when a patron is seated in the barber's chair and places his head against the rest of the front section A, the latter is forced rearwardly, pressing the actuating bar M rearwardly to locked position as shown in Fig. 3. Then, when the chair is tilted back the locking dog N engages the ratchet M^5 , relieving the front section of the pressure of spring M^4 . When the barber's chair is again straightened to upright position, and the patron raises his head from the front section of the head-rest, weight O' swings the rod O whereby to rock the locking dog N on its fulcrum and withdraw its spur end N' from the ratchet teeth M^5 . The actuating bar M being thus released, is forced forwardly by the action of spring M^4 , thus rotating the gear L^4 , ratchet wheel L^3 , and gear L, and through this latter gear,

rotating gear H^2 of the feed roll H. The feed roll H being thus rotated feeds the paper strip G' forwardly in proper lengths to provide a clean section over the intermediate flexible surface A^6 of the front section A, so that it is simply necessary for the operator to grasp the end of the paper strip projecting rearwardly through the rear wall B^2 of the rear or main section B in order to break off the used section thereof.

It will be noted, however, that this action does not take place until the occupant of the chair raises his head from the head rest, when the chair is in a vertical position, and that the mechanism is such that when the occupant of the chair places his head upon the head-rest with its clean section of paper thereover, there is no danger of the paper becoming broken as the paper roll G is free to turn, so that if the occupant slides downwardly, as is the case in a great many instances, the paper is free, although under slight tension, to follow such movement.

It is also to be noted that in the event of the strip being broken due to carelessness on the part of the operator, he is free to withdraw a new and clean section thereof, by manual actuation of the feed roll H through its finger piece H^6 , without going through the automatic action.

It is also to be noted that the mechanism provided is simple, comparatively inexpensive, and well adapted to serve the purposes for which it is intended, and that as a result of its action, a considerable saving of labor is effected as well as a considerable economy in paper, the latter being due to the fact that a measured length of paper is fed during each automatic action, whereas with the usual paper roll mounted at the rear of a head-rest, the paper strip from which extends freely over the front of the head-rest and is drawn off manually by the operator, great quantities of paper are pulled off and wasted in the haste of the operator during busy moments.

I claim:—

1. A head-rest for barbers' chairs including front and rear sections, the former of which is movable with respect to the latter, a paper roll holder, a paper feed roller, and spring actuated means for rotating said feed roller in one direction to feed paper from the roll holder, said spring actuated means being movable in one direction to place the same under tension by movement of the front section toward the rear section, and releasable for actuation upon movement of the front section away from the rear section.

2. A head-rest for barbers' chairs including front and rear sections, the former of which is movable with respect to the latter, a paper roll holder, a paper feed roller, and

spring actuated means for rotating said feed roller in one direction to feed paper from the roll holder, said spring actuated means being movable in one direction to place the same under tension by movement of the front section toward the rear section, and releasable for actuation upon movement of the front section away from the rear section, and means to check release and movement of said spring actuated means when the head-rest is in a rearwardly inclined position.

3. A head-rest for barbers' chairs, including front and rear sections, the former of which is movable with respect to the latter, a paper roll holder, a paper feed roller, and spring actuated means for rotating said feed roller in one direction to feed paper from the roll holder, including an element arranged in the path of movement of said front section toward the rear section, said element having a ratchet connection with the said feed roller.

4. A head-rest for barbers' chairs including front and rear sections, the former of which is movable with respect to the latter, a paper roll, and automatic means for feeding measured lengths of paper from said roll downwardly over the front section, said means being controlled by movement of said front section with respect to the rear section.

5. A head-rest for barbers' chairs including front and rear sections, the former of which is movable with respect to the latter, a paper roll, and automatic means for feeding measured lengths of paper from said roll over the front section, including an actuating member movable in one direction by movement of the front section toward the rear section, and a spring for moving the said member in the opposite direction when the front section moves away from the rear section.

6. A head-rest for barbers' chairs, including front and rear sections, the former of which is movable with respect to the latter, a paper roll, a feed roll, means for automatically rotating said feed roll, including a horizontally movable actuating member having operative connection therewith, and movable in one direction by movement of the front section toward the rear section, and a spring for holding said member in the opposite direction when the front section moves away from the rear section.

7. A head-rest for barbers' chairs including front and rear sections, the former of which carries a head-supporting surface and has limited movement with respect to the latter, a paper roll therein, a feed roll over which the paper strip from said paper roll is extended, having an extending finger piece provided with a ratchet connection at

one end thereof whereby the said feed roll may be manually rotated, and means for automatically rotating said feed roll including a movable actuating member having operative connection, including a ratchet, with the opposite end of the said feed roll, said member being movable in one direction by the front section of the head-piece, and a spring for moving said member in the opposite direction.

GEORGE WASHINGTON SPAHR.

Witnessed by—

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Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."