

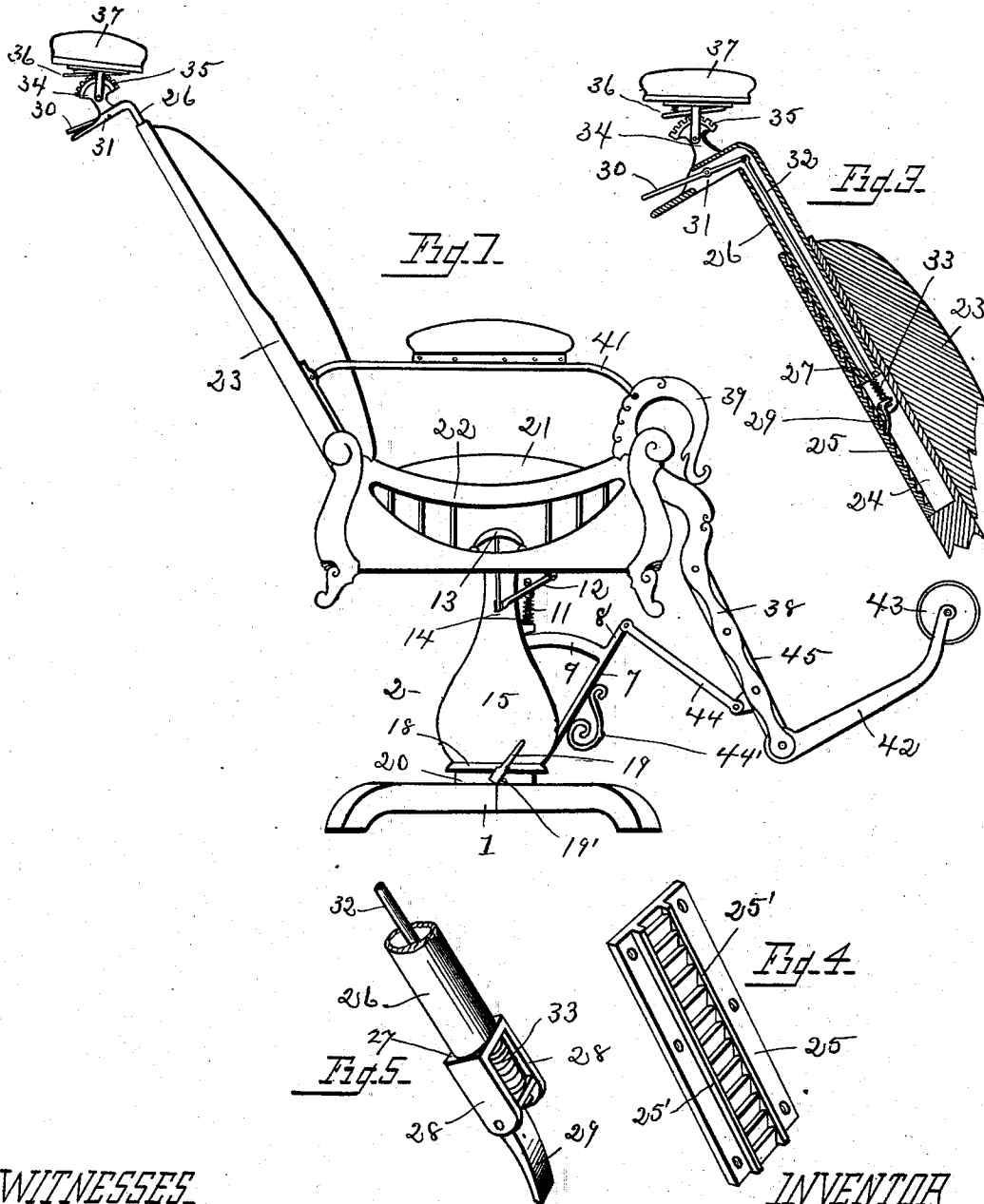
(No Model.)

2 Sheets—Sheet 1.

W. G. HULLHORST.
BARBER'S CHAIR.

No. 524,853.

Patented Aug. 21, 1894.



WITNESSES

Carroll J. Webster
J. R. Webster

INVENTOR

William G. Hullhorst
By William Webster
att'y

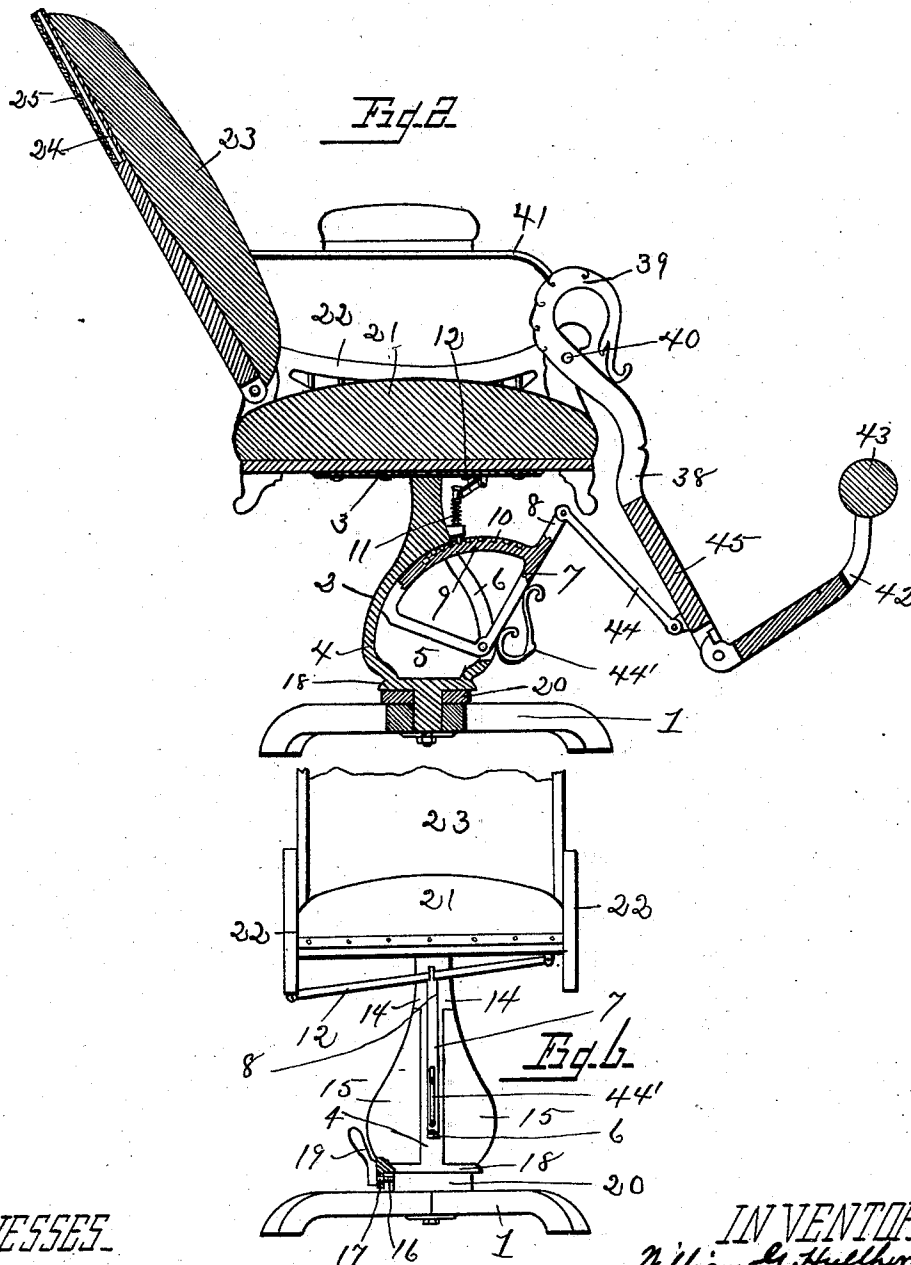
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UNITED STATES PATENT OFFICE.

WILLIAM G. HULLHORST, OF TOLEDO, OHIO, ASSIGNOR TO THE RANSOM & RANDOLPH COMPANY, OF SAME PLACE.

BARBER'S CHAIR.

SPECIFICATION forming part of Letters Patent No. 524,853, dated August 21, 1894.

Application filed July 21, 1893. Serial No. 481,141. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM G. HULLHORST, of Toledo, county of Lucas, and State of Ohio, have invented certain new and useful Improvements in Barbers' Chairs; and I do hereby declare that the following is a full, clear, and exact description of the invention, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form part of this specification.

My invention relates to a barber's chair, and has for its object to simplify the construction, cheapen the product, and produce a chair of greater convenience of manipulation than heretofore.

The invention consists in the parts and combination of parts hereinafter described, and pointed out in the claims.

In the drawings: Figure 1 is a side elevation of a complete chair. Fig. 2, Sheet 2, is a longitudinal vertical section through the center of the chair. Fig. 3 is a detail view of a section of the chair, showing the automatic catch for supporting the head rest in adjusted position. Fig. 4 is a perspective view of the ratchet bar, showing the ratchet teeth and side flanges. Fig. 5 is a perspective of a section of the head rest, slide and pawl, showing the side plates which contact with the flanges. Fig. 6 is a detail front view of the chair showing the central slot in the standard, and the wood filling pieces.

1 designates the base, into which a standard 2 is journaled, the upper portion of the standard being secured to a plate 3 in a manner to revolve with the plate.

Standard 2 comprises a plate 4, with a solid upper and lower end, and for lightness preferably having an opening 5 transversely of the plate, and of a thickness to allow of forming a recess 6 extending through the front portion to receive a quadrant shaped segment 7 which is pivotally secured therein, there being an upwardly projecting arm 8, the curved bar 9 of the segment having a plurality of marginal holes 10 to receive a catch 11, secured in a bar 12 pivotally attached to plate 3, and actuated by means of a hand lift 13 within convenient reach of the operator.

The standard is formed with shoulder 14 above the plate 4, and with a base plate 18 below the same, and between the shoulder and base plate wood filling pieces 15 are secured to each side of the plate 4, as clearly shown in Fig. 6.

The standard may be locked from revolution as desired by means of a screw bolt 16 run into a threaded aperture 17 in a plate 18, and advanced by means of the depression of a foot lever 19, whereby the bolt impinges against the collar 20 which is secured to the base.

21 designates the seat secured upon plate 3 having sides 22 of any preferred ornamentation, and a back 23 pivotally connected with the sides to allow the back to swing from a vertical to an inclined position.

Centrally of the width of the back there is formed a longitudinal recess 24 having a ratchet bar 25 with inwardly projecting teeth, the inclination of which is upwardly, and preferably formed with side flanges 25' to guide the telescopic pawl holder movable therein.

Telescopically arranged within the recess 24 is a tubular head rest slide 26, angled at the upper end and formed near the lower end with a transverse web 27 perforated centrally, and slotted at the extreme end to form side plates 28 of a width to slide closely between the flanges of the ratchet bar and between which is an angular pawl 29, pivoted to the plates at the angle, in a position to rock thereon, when a pull is made upon the upper end and withdraw the pawl end from the teeth upon bar 25.

Pawl 29 is actuated by means of a lever 30 pivoted in the angled end 31 of the head rest slide 26, the inner end being connected with a rod 32 which passes through web 27 and is connected with the upper end of pawl 29, whereby when the outer end of the lever 30 is depressed, the pawl is rocked upon its pivot, and the pawl end is withdrawn from engagement with the ratchet bar, and when pressure upon lever 30 is withdrawn, the pawl is urged into engagement with the ratchet bar by means of a spring 33 coiled around the rod, with its upper end bearing against the web, and the lower end against the upper end of

the angular pawl. It will be seen that by this arrangement it is only necessary for the operator to use one hand in raising or lowering the head rest, as the act of grasping the angular end 31 of the headrest slide, depresses the end of lever 30, and the end 31 serves as a means for raising or lowering the slide.

Upon the upper end of slide 26 there is formed a segmental plate 34 having a plurality of notches or recesses 35 upon its edge to receive a catch upon a spring bar 36 secured upon a head rest 37 pivotally secured upon plate 34, whereby the head rest may be adjusted in any desired position by raising the spring bar and withdrawing the catch from plate 34.

Pivotally secured upon sides 22 of the seat are the side bars 38 of the foot rest, preferably formed with an ornamental upper end 39, which projects above the pivot 40, and is connected upon each side with the back by means of a bar 41, pivotally secured to the back and side bar, and serving not only as an arm rest when properly upholstered, but to cause the side bars to move in unison with the back as it is moved from a vertical to any desired inclination with relation to the seat.

Secured upon the lower ends of the side bars are bars 42 of the foot rest, having a roller 43 journaled between the same, and articulated to fold inwardly for the purpose of transportation or cleaning around the chair.

The back and foot rest are locked in any desired adjustment by the engagement of catch 11 with segment 7 through the medium of the rod 44 connecting the arm 8 of the segment and the cross bars 45 secured between the side bars of the foot rest.

In operation, to revolve the chair, the operator throws lever 19 toward the back of the chair, the lower end contacting with a pin 19' to limit its movement, and the bolt 16 is retracted from the collar, allowing the same to turn in the base. When the chair has been revolved the proper distance, the operator throws the lever 19 forward (which may be done with the foot) and the bolt 16 is advanced to engage with the collar 20. The back and foot rest are adjusted in any desired adjustment by pulling upon hand lift 13, and withdrawing catch 11 from engagement with the segment 7, when, upon moving the back, a corresponding movement is

given to the foot rest, whereby the back may be readily moved to a vertical position, thereby throwing the foot rest to its lowest point to render it convenient for a person to enter the chair (rod 44 contacting with a projection 44' to limit the movement) and when seated, a pull upon the back to a desired inclination will adjust the foot rest accordingly, the hand lift being released, catch 11 engages with the teeth of segment 7, locking the back and foot rest in position, and since the weight of the person is borne upon the seat, this operation is accomplished without the necessity of carrying the weight of the occupant, and consequently without the necessity of exerting great force.

What I claim is—

1. In a chair, a base, a standard revolubly mounted thereon, a seat carried by the standard, a foot rest pivoted to the frame work of the seat arm rests pivotally connecting the back and an upper extension of the foot rest, a longitudinal slot in the standard, a toothed segment pivoted therein at the lower end, a rod pivotally connecting the segment to the foot rest a lug upon the standard above the segment, a catch for engagement with the segment secured in the lug, and a rod pivoted to the seat at one side and to a vertical hand-grip at the opposite side of the seat, said rod being connected to and operating the catch.

2. In a chair, a back formed with a central recess, and having a ratchet faced bar having flanges upon each side of the ratchet, in combination with a tubular slide carrying a head rest and having an upper right angled end, and a lower squared end a pawl pivoted to the slide at the lower end of the same, a lever pivoted in the right angled end of the slide, and a rod connecting the pawl and lever and a spring upon the rod bearing against the end of the slide and one end of the pawl, whereby the slide may be raised or lowered by grasping the right angled end of the slide and depressing the lever.

In testimony that I claim the foregoing as my own I hereby affix my signature in presence of two witnesses.

WILLIAM G. HULLHORST.

Witnesses:

WILLIAM WEBSTER,
T. R. WEBSTER.