April 29, 1930. I. S. MITCHELL 1,756,756

BARBER'S CHAIR

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Fig. 1.

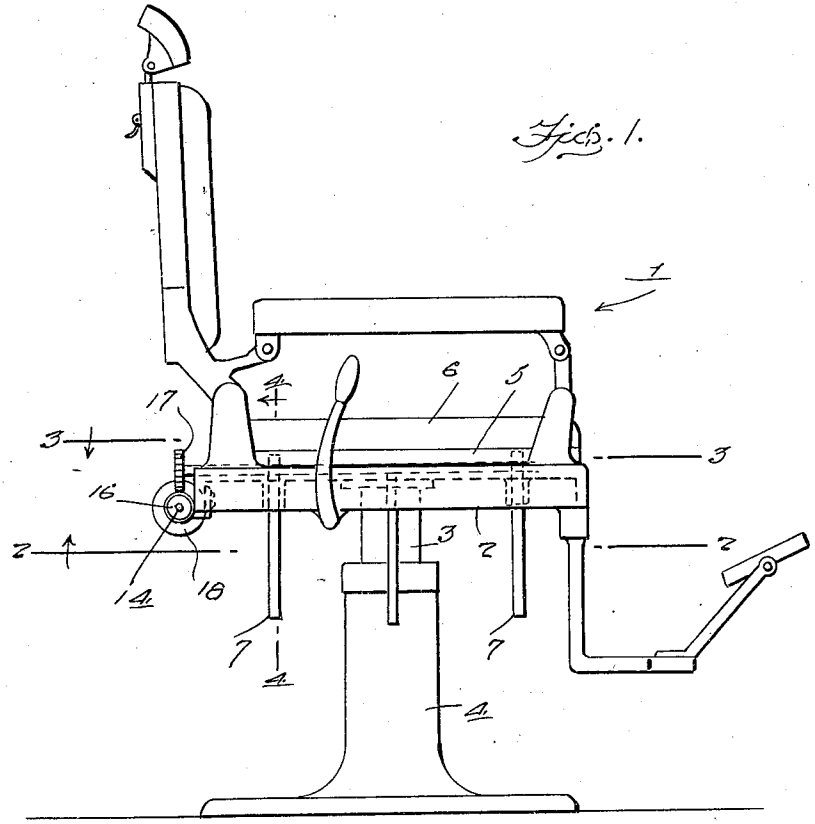
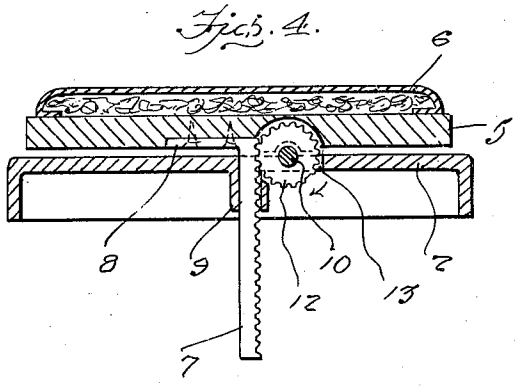


Fig. 4.



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Fig. 2.

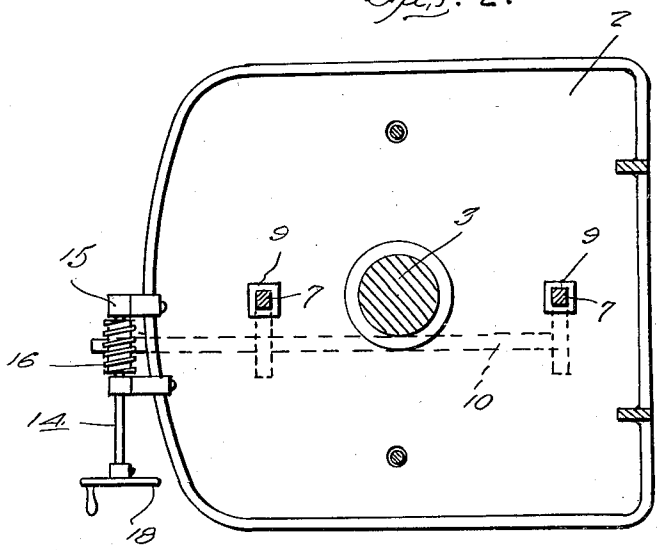
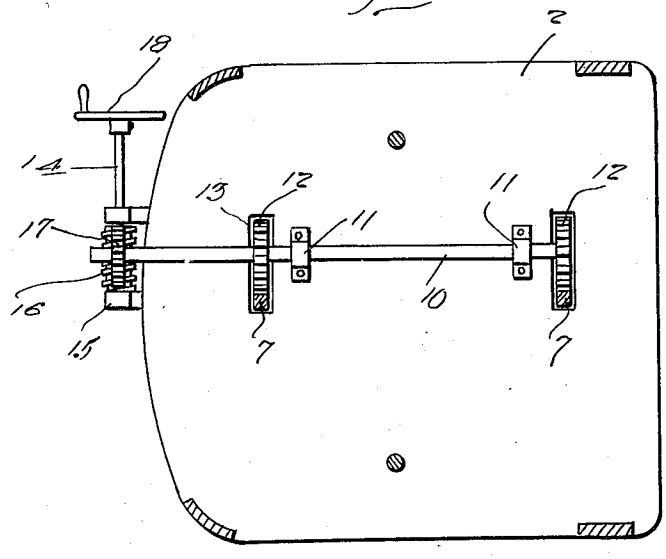


Fig. 3.



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UNITED STATES PATENT OFFICE

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BARBER'S CHAIR

Application filed November 14, 1928. Serial No. 319,307.

The present invention relates to improvements in barber's chairs and has for its principal object to provide means for raising and lowering the seat of the chair so that the use of auxiliary seating devices now generally used in barber shops for children and persons of short stature will be obviated.

One of the important objects of the present invention is to provide a barber's chair wherein the seat thereof can be raised to any desired height, the raising and lowering means being of such construction as to permit the installation of the same without necessitating any material alterations to the barber's chair.

Still a further object is to provide a seat adjusting means for a barber's chair that is simple in construction, inexpensive, strong and durable and further well adapted to the purpose for which it is designed.

Other objects and advantages of the invention will become apparent from the following description when taken in connection with the accompanying drawings.

In the accompanying drawings wherein like reference characters indicate corresponding parts throughout the several views:

Figure 1 is a side elevation of a barber's chair having embodied therein my improved seat adjusting means.

Figure 2 is a sectional view taken approximately on the line 2—2 of Figure 1, looking upwardly.

Figure 3 is a similar section taken on the line 3—3 of Figure 1, looking downwardly, and

Figure 4 is a vertical section taken approximately on the line 4—4 of Figure 1.

In the drawings wherein for the purpose of illustration is shown the preferred embodiment of my invention, the numeral 1 designates generally a conventional barber's chair, the bottom for supporting the seat structure being shown at 2. This bottom is supported on the usual standard 3 that extends upwardly from the base 4. As shown in the drawings, the usual adjusting means is provided for the bottom 1.

The seat for the chair is shown at 5, and is upholstered as indicated at 6 with reference more particularly to Figure 4.

Secured at their upper ends to the bottom of the seat 5 are the vertically disposed rack bars 7. Each rack bar is formed at its upper end with an angular attaching bracket 8 that is secured within a cavity provided therefor in the bottom face of the seat 5 as suggested very clearly in Figure 4. These rack bars extend downwardly through openings provided in the bottom 2, and through suitable guide sleeves 9 that depend from the bottom 2 around the opening.

An elongated shaft 10 is arranged longitudinally of the bottom 2 of the chair 1 and this shaft extends through suitable bearings 11 secured on the upper face of the bottom 2. The shaft extends adjacent one side of the standard 3 and the rear end of the shaft projects beyond the rear end of the bottom. Secured on the shaft 10 are the cog wheels 12 that cooperate with the respective rack bars 7. The bottom 2 is formed with the cut out portions 13 to accommodate the respective cog wheels and the seat 5 is also formed with cavities to accommodate these cog wheels. It will also be observed that one side of the tubular guides 9 are cut out so that the cog wheels will mesh with the teeth of the respective rack bars.

The actuating means for the shaft 10, comprises a transverse shaft 14 supported in suitable bearings 15 that are arranged at the rear end of the seat bottom 2. A worm 16 is carried by the inner end of the shaft 14 for cooperation with the worm wheel 17 that is carried by the rear end of the shaft 10, and a hand wheel 19 is arranged on the outer end of the shaft 14.

Normally the seat 5 is in its lowered position as shown in Figures 1 and 4. Whenever it is desired to raise the seat, the operator actuates the hand wheel 18 and the worm 17 will cooperate with the worm wheel 16 to rotate the shaft 10. The rotation of the shaft 10 will cause the rotation of the cog wheels 12 to cooperate with the rack bars 7 to adjust the seat 5 to any desired height.

This will obviate the necessity of having to employ an auxiliary seat attachment such

as is now used in barber shops to seat children, and persons of small stature in the chair, while their hair is being treated or cut.

The simplicity of my device enables the same to be readily and easily installed on a barber's chair without necessitating any material alterations and the raising and lowering mechanism will at all times be positive and efficient in its operation.

While I have shown the preferred embodiment of my invention it is to be understood that minor changes in the size, shape and arrangement of parts may be resorted to without departing from the spirit of the invention and the scope of the appended claim.

Having thus described the invention, what I claim as new and desire to secure by Letters Patent is:—

In a barber's chair of the character described provided with a bottom, an independent seat having recesses in its lower side, a pair of rack bars rigidly attached at their upper ends to the bottom of the seat adjacent the recesses therein, and extending through the bottom of the chair, guide sleeves arranged on the bottom for the depending rack bars, said guide sleeves and the chair bottom having communicating openings, an elongated shaft extending across the bottom of the chair at right angles to the rack bars, cog wheels secured on said shaft for rotation therewith in the recesses in the seat and the communicating openings in the sleeves and the chair bottom and having meshing engagement with the teeth of the respective rack bars for raising and lowering the seat, one end of the chair projecting beyond the rear end of the bottom of the chair, and means mounted on the chair and associated with the shaft for rotating the same in a manner to raise the seat.

In testimony whereof I affix my signature.

IRA S. MITCHELL.