No. 722,439. PATENTED MAR. 10, 1903.

F. H. WILSDORF.

BARBER CHAIR.

APPLICATION FILED SEPT. 6, 1902.

NO MODEL.

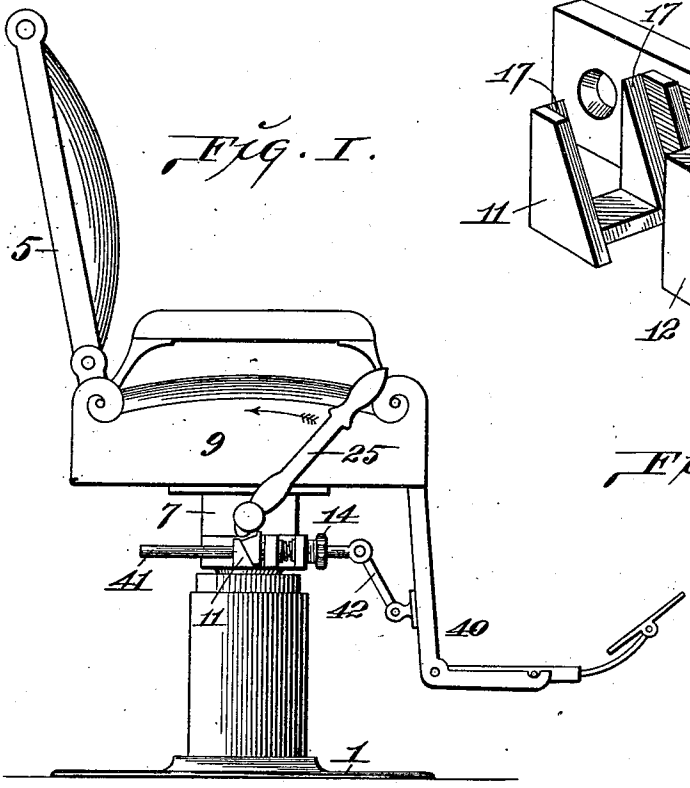


Fig. I.

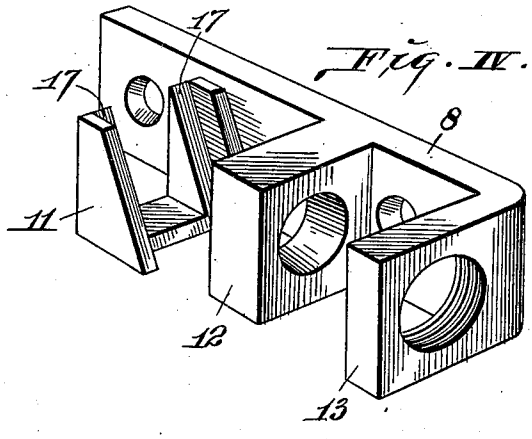


Fig. IV.

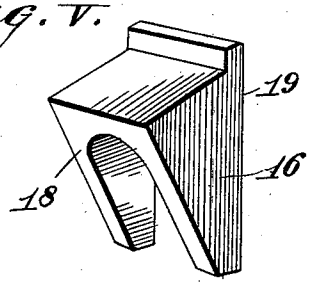


Fig. V.

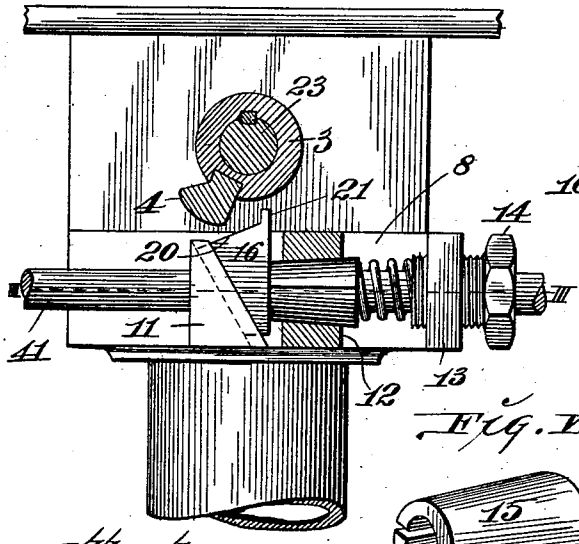


Fig. II.

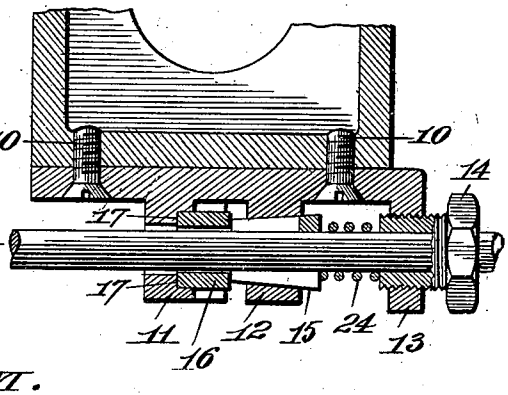
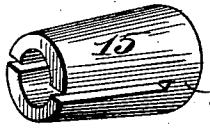


Fig. III.

Fig. VI.



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UNITED STATES PATENT OFFICE.

FRANK H. WILSDORF, OF ST. LOUIS, MISSOURI, ASSIGNOR TO AUGUST KERN BARBER SUPPLY COMPANY, OF ST. LOUIS, MISSOURI, A CORPORATION.

BARBER-CHAIR.

SPECIFICATION forming part of Letters Patent No. 722,439, dated March 10, 1903.

Application filed September 6, 1902. Serial No. 122,361. (No model.)

To all whom it may concern:

Be it known that I, FRANK H. WILSDORF, a citizen of the United States, residing in the city of St. Louis, in the State of Missouri, have invented certain new and useful Improvements in Barber-Chairs, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, forming part of this specification.

My invention relates to a device for holding the back and foot rests of a barber-chair in any position to which they may be adjusted, and is well adapted for use in connection with such a chair as is shown and described in Letters Patent of the United States No. 683,309, issued September 24, 1901, to the August Kern Barber Supply Company as assignee of John B. Lowry. My invention, however, is capable of being used in connection with other styles of barber-chairs.

The invention consists in features of novelty hereinafter fully described, and pointed out in the claims.

Figure I is a side view of a barber-chair such as is shown in the patent referred to and in connection with which my invention is shown. Fig. II is an enlarged detail view, part in elevation and part in vertical section. Fig. III is a horizontal section taken on line III III, Fig. II. Fig. IV is a perspective view of the locking-plate of my attachment. Fig. V is a perspective view of the locking-wedge. Fig. VI is a perspective view of the locking-collar.

It is of vital importance for a barber-chair to have a simple and effective means for holding the back and foot rests in any position to which they may be adjusted. Many barbers do not care especially for, and many of them do not even use, the locking mechanism provided to prevent the horizontal rotation of the chair when it has been adjusted or turned to a particular position; but they all want a secure lock to hold the back and foot rests to their adjusted positions, inasmuch as any movement of the occupant causes, in the absence of a lock, a change in the adjustment of these parts; and it is the object of my invention to supply a simple and effective lock for this purpose.

Referring to the drawings, 1 represents the base of the chair; 40, the foot-rest; 9, the seat; 41, the locking rod or stem; 42, the link that connects the stem to the foot-rest, and 25 the operating-lever, secured to a rock-shaft 23. All of these parts are shown and described in the patent referred to, where they are designated by the same numerals as herein used.

To the shaft 23 is keyed a collar 3, provided with a cam 4.

5 represents the back of the chair, pivoted to the seat, to which the foot-rest is also pivoted. The back and foot rests are connected to each other by the arm-rests in the usual manner.

The seat 9 rests upon the upper end of the inside cylinder 7 of the patent referred to, and to the upper end of this cylinder is secured a locking-plate 8 by means of screws 10 or otherwise. Projecting outwardly from this plate are three fixed lugs or projections 11, 12, and 13, through which the locking rod or stem passes. Surrounding the locking rod or stem at the lug 13 is a set-screw or nut 14, that has threaded connection with the lug. Surrounding the locking stem or rod at the lug 12 is a cone-shaped split collar 15, and straddling the locking rod or stem at the lug 11 is a wedge 16. The lug 11 has inclined shoulders 17, against which the inclined face 18 of the wedge bears, and the straight face 19 of the wedge bears against the inner and smaller end of the locking-collar 15, as shown in Figs. II and III. The upper end of the wedge 16 is formed on an inclination, as shown at 20, and its forward upper corner is provided with a stop-lug 21. One side of the locking-collar 15 is slit throughout its length, while the other side has an uncut portion 22, so that the two parts of the collar are held united. Between the outer and larger end of the locking-collar and the inner end of the adjusting-nut 14 there is located a spring 24, the tendency of which is to force the locking-wedge inwardly, and the tension of the spring (which may be regulated by the set-screw 14) is sufficient to cause the locking-collar to clamp the rod or stem 41 with sufficient force to hold the back and foot rests of the chair in any position to which they may be adjusted. The cam 4 is located over the upper inclined end of the

wedge 16, and when it is desired to loosen the rod 41 to change the position of the back and foot rests the operating-lever 25 is moved in the direction of the arrow in Fig. I, thereby causing the cam 4 to press downwardly on the wedge 16, the effect of which is to move the locking-collar 15 outwardly in the lug 12 against the pressure of the spring 24. When the collar is thus moved, the rod or stem 41 is released and the back and foot rests of the chair can be changed to the desired position, and when the lever 25 is thrown forward again the spring 24 will act automatically to force the collar 15 inwardly, the wedge rising automatically under the pressure of the spring when the cam 4 leaves it.

The device provides a simple, inexpensive, durable, and effective lock for holding the back and foot rests to any desired adjustment, and there is little or nothing about the device that is liable to get out of order.

I claim as my invention—

1. In a lock for barber-chairs, the combination of the foot-rest a rod or stem connected to the foot-rest, a fixed plate having lugs through which said rod passes, a split cone-shaped locking-collar surrounding said rod and fitting within one of said lugs, a spring adapted to force said collar forward and clamp it to said rod, a wedge fitted in another of said lugs, and means for moving the wedge to move said collar against the pressure of said spring to release said rod, substantially as set forth.

2. In a lock for barber-chairs, the combination of the foot-rest a rod or stem connected to the foot-rest, a fixed plate having lugs through which said rod passes, a split cone-shaped locking-collar surrounding said rod and fitting in one of said lugs, an adjusting-nut surrounding the rod and tapped within another of said lugs, a spring located between said nut and collar, a wedge straddling said rod and bearing against another of said lugs, and means for moving said wedge, all substantially as and for the purpose set forth.

3. In a lock for barber-chairs, the combination of the foot-rest a rod or stem connected to the foot-rest, a fixed plate having lugs through which said rod passes, a split cone-shaped locking-collar surrounding said rod and fitting within one of said lugs, an adjusting-nut surrounding said rod and fitting within another of said lugs, a spring located between said nut and collar, a wedge fitted against another of said lugs and adapted to bear against the smaller end of said collar, and a rock-shaft provided with a cam and lever for moving said wedge, all substantially as and for the purpose set forth.

4. In a lock for barber-chairs, the combination of the foot-rest a rod or stem connected to the foot-rest, a fixed plate having lugs through which said rod passes, a split cone-shaped locking-collar surrounding said rod, and fitting within one of said lugs, an adjustment-nut surrounding said rod and tapped into another of said lugs, a spring located between said nut and collar, a wedge straddling said rod and having a straight forward face bearing against the end of said collar, an inclined top and an inclined back face bearing against inclined shoulders on another of said lugs, and a rock-shaft provided with an operating-handle and with a cam adapted to bear against the upper inclined edge of the wedge, all substantially as and for the purpose set forth.

5. In a lock for barber-chairs, the combination of the foot-rest, a rod or stem connected to the foot-rest, a spring-pressed, cone-shaped, locking-collar surrounding said rod, a wedge straddling said rod and adapted to force said collar in the opposite direction to that in which it is forced by the spring, means for supporting said collar and wedge and coöperating with said parts to obtain a locking and a releasing effect, and means for moving said wedge, substantially as set forth.

6. In a lock for barber-chairs, the combination of the foot-rest, a rod or stem connected thereto, a cone-shaped locking-collar surrounding the same, a spring bearing against the same, an adjustment-nut for the spring, a wedge fitting over said rod, means for supporting said nut, spring, collar and wedge, and means for moving said wedge, all substantially as and for the purpose set forth.

FRANK H. WILSDORF.

In presence of—
E. S. KNIGHT,
M. P. SMITH.