No. 745,706. PATENTED DEC. 1, 1903.

F. H. WILSDORF.

BARBER CHAIR.

APPLICATION FILED FEB. 24, 1903.

NO MODEL.

Fig. I.

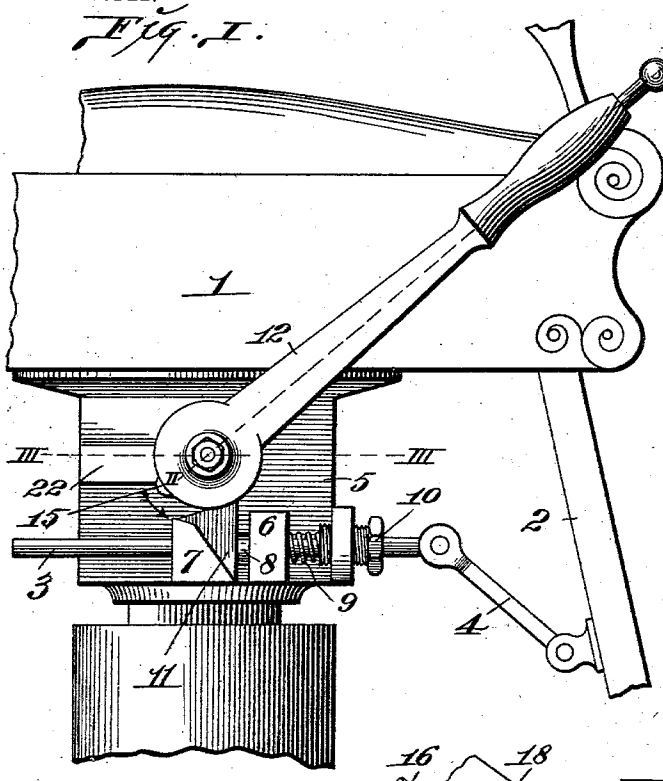


Fig. II.

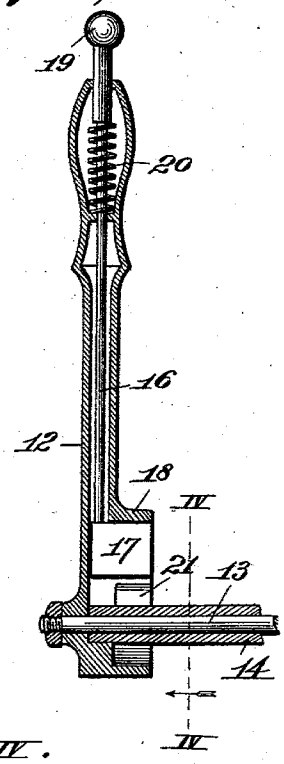


Fig. III.

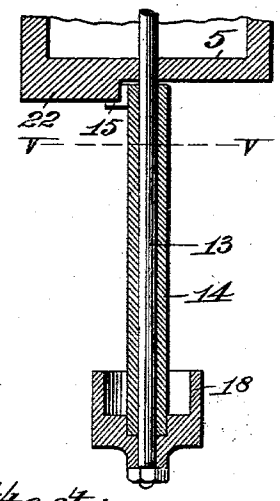


Fig. IV.

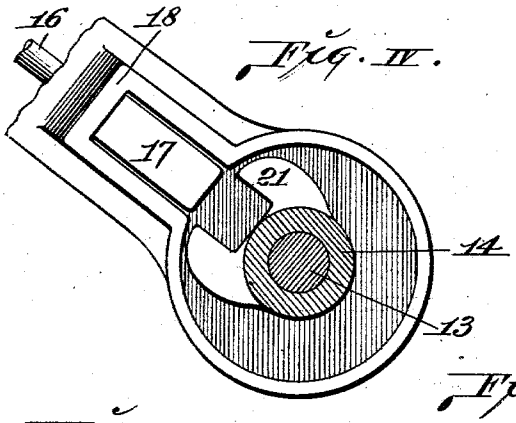


Fig. V.

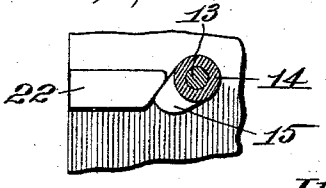
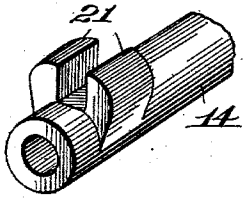


Fig. VI.



Attest:—

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THE NORRIS PETERS CO., PHOTO-LITHO., WASHINGTON, D. C.

No. 745,706. Patented December 1, 1903.

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. 745,706, dated December 1, 1903

Application filed February 24, 1903. Serial No. 144,634. (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 Barbers' 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 present invention relates to an improvement in the class of barbers' chairs shown and described in United States Letters Patent No. 683,309, issued September 24, 1901, to the August Kern Barber Supply Company as assignee of J. B. Lowry; and my present invention consists in a lever arrangement for unlocking the rod that holds the back and foot-rest in any position to which they may be adjusted.

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

Figure I is a detail side elevation illustrative of my invention. Fig. II is a longitudinal section of the lever, taken on line II II, Fig. I. Fig. III is a longitudinal section taken on line III III, Fig. I. Fig. IV is an enlarged section taken on line IV IV, Fig. II, looking in the direction of the arrow that crosses the section-line. Fig. V is a transverse section taken on line V V, Fig. III, looking toward the base of the chair. Fig. VI is a detail perspective view showing the outer end of the rocking sleeve.

1 represents the seat of the chair, 2 part of the foot-rest, 3 the locking-rod, and 4 a link by which the rod is pivotally connected to the foot-rest. The head 5 of the inside cylinder of the chair is formed with integral lugs or projections 6 and 7. Within the lug 6 fits a cone-shaped split collar or sleeve 8, which is pressed thereagainst by a spring 9, the tension of which can be regulated by a set-screw 10. When the sleeve 8 is pressed inwardly, it locks the rod 3 and holds it from movement; but when the sleeve is forced back against the pressure of the spring the rod is unlocked and free to move. This movement of the sleeve against the pressure of the spring is effected by means of a wedge 11, that rests against the inner inclined face of the lug 7.

The parts thus far mentioned form no part of my present invention inasmuch as they form the subject-matter of my application filed September 6, 1902, Serial No. 122,361.

My present invention relates to the lever mechanism whereby the wedge 11 is pressed downwardly to move the sleeve 8 and unlock the rod 3. 12 represents said lever, which is fixed to a rod 13 of the operating mechanism of the chair, this rod 13 corresponding to the rod 23 of the patent referred to. On the rod 13 is located a loose sleeve 14, that extends from the lever 12 inwardly to a position over the wedge 11. On the inner end of the sleeve 14 is located a cam 15, adapted to engage the upper end of the wedge 11 when the sleeve is turned in the direction of the arrow, Fig. I. To thus turn the sleeve, with its cam, through means of the lever 12, the lever is provided with a movable rod 16, that passes longitudinally therethrough. The inner end of the rod 16 is provided with a head 17, that fits in a slot formed in the head 18 of the lever, and the outer end of the rod is provided with a knob 19. The rod is held in its outer position by means of a coil-spring 20, located in the hollow outer end of the lever, as seen in Fig. II. The outer end of the sleeve 14 is provided with a fork 21, adapted to be engaged by the head 17 of the rod 16 when the latter is forced inwardly by pressure applied to its outer end.

The operation is as follows: When the seat of the chair is being raised and lowered through means of the handle 12, as in the patent referred to, the rod 16 is held out of engagement with the sleeve 14, so that this movement of the lever has no effect on the rod 3, which is left in its locked condition. When it is desired to unlock the rod 3, the operator presses inwardly on the rod 16, thus forcing the head 17 of the rod into engagement with the fork on the outer end of the sleeve 14, and then by pulling the lever so as to move the cam 15 in the direction of the arrow, Fig. I, he causes the wedge 11 to be forced downwardly, which presses the sleeve 8 toward the spring 9 and releases the rod 3, and when he has adjusted the back and foot-rest to the desired inclination, which is permitted by the release of the rod 3, he removes his hand

from the outer end of the rod 16, which is then automatically thrown out of engagement with the sleeve 14 by the spring 20, and the spring 9 will force the sleeve 8 inwardly again and lock the rod 3.

When in its normal position, the cam 15 rests against a lug 22, formed on the head 5 of the inner cylinder. This device for moving the wedge 11 to unlock the rod 3 is effective in its operation and there is nothing about it to get out of order.

I claim as my invention—

1. In a barber's chair, the combination with the lever for raising and lowering the chair, a foot-rest-locking rod, and means for locking said rod, of a revoluble sleeve fixed against axial movement, a cam at one end of the sleeve to engage with the foot-rest-locking means, a fork at the other end, and means carried by the lever, normally out of engagement with the cam and adapted to be thrown into engagement with the cam to move both simultaneously.

2. In a barber's chair, a lever, a foot-rest-locking rod, and a wedge for unlocking said rod, in combination with means for moving said wedge by said lever, consisting of a sleeve having a cam at one end to engage said wedge, a fork at its other end, a rod located in said lever and adapted to engage the fork, and a spring for the rod holding it normally out of engagement with said fork and permitting the lever to rotate independently of the sleeve and fork, substantially as set forth.

3. In a barber's chair, the combination of a foot-rest, a rod 3, mechanism for locking said rod, a wedge 11 forming part of said locking mechanism, a lever 12, a rod 16 located within said lever and having a knob on its outer end, and a head 17 on its inner end, a spring for holding said rod in its outer position, and a sleeve having a cam on its inner end adapted to engage said wedge and a fork on its outer end adapted to be engaged by the head on the inner end of said rod, substantially as set forth.

FRANK H. WILSDORF.

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