

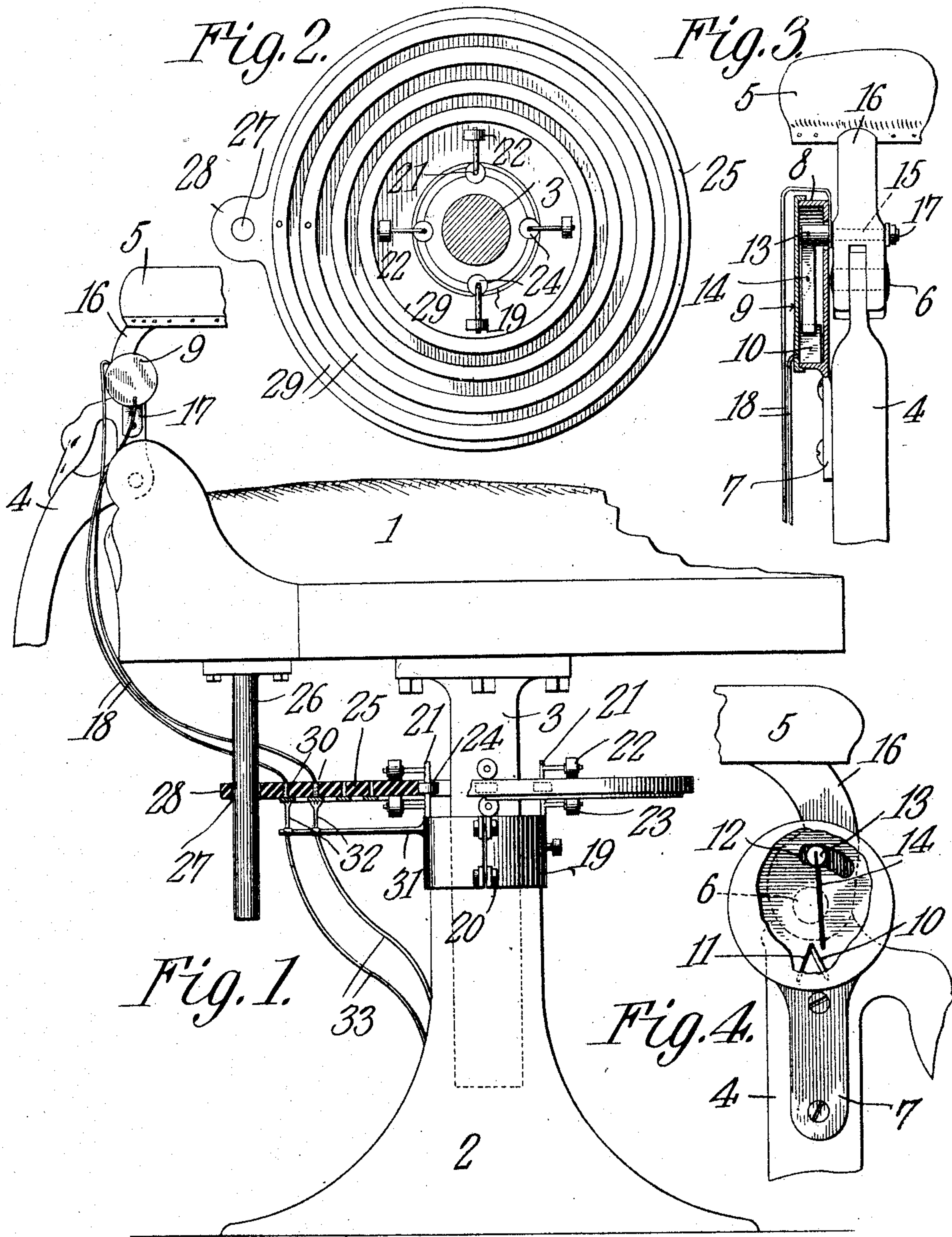
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J. W. B. FARIS.

SHAVE REGISTER OPERATING DEVICE.

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WITNESSES:

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UNITED STATES PATENT OFFICE.

JOHN W. B. FARIS, OF SKIDMORE, TEXAS.

SHAVE-REGISTER-OPERATING DEVICE.

No. 873,932.

Specification of Letters Patent.

Patented Dec. 17, 1907.

Application filed February 18, 1907. Serial No. 357,994.

To all whom it may concern:

Be it known that I, JOHN W. B. FARIS, a citizen of the United States, residing at Skidmore, in the county of Bee and State of Texas, have invented a new and useful Shave-Register-Operating Device, of which the following is a specification.

This invention has reference to improvements in registering devices for indicating successive shaves for the use of barbers and designed to be attached to a barber's chair so that every time the chair is set to accommodate a customer to be shaved a register mechanism or a signal or both will be operated and thereby a registration will be kept of the number of times the chair has been used for customers desiring to be shaved or a signal will be given to an authorized person or both operations will be performed simultaneously. When a barber's chair is adjusted for a customer desiring to be shaved the back is lowered and the foot-rest is elevated and the arms connecting these two members of the chair are also moved in conjunction with these other members.

By the present invention advantage is taken of the relative movement of the arm and foot-rest support on one side of the chair to cause during the movement a momentary closing of an electric circuit, which circuit will include a register or signal or both, while provision is made so that this closure of the circuit takes place only when the chair is moved to the approximately horizontal position. When the chair is returned to its normal or upright position the circuit is not closed and, therefore, the register or signal is not operated.

The present invention comprises two electric circuit terminals, one carried by the chair arm and the other by the foot-rest hanger or support so that while both terminals move, one terminal will move past the other and wipe over it, thus forming good momentary contact.

The invention also comprises means whereby the circuit terminals may be carried upon the body of the chair and the latter rotated about a vertical axis without in any manner interfering with the continuity of the circuit.

The invention will be fully understood from the following detailed description taken in connection with the accompanying drawings forming part of this specification, in which,—

Figure 1 is a side elevation, partly in section, of a portion of a barber's chair with the invention applied thereto; Fig. 2 is a bottom view of the circuit-maintaining device applied to the chair; Fig. 3 is an end view, partly in section, of a chair arm and foot-rest support with the circuit mechanism shown in section; and Fig. 4 is a side elevation of the structure shown in Fig. 3 with a portion of the circuit terminal inclosing case broken away to expose its interior structure.

Referring to the drawings, there is shown a seat structure 1, pedestal 2 and seat post 3 supported by said pedestal, and all of the usual structure. To the seat frame is pivoted, as shown; the foot-rest hangers of which but one, designated by 4, is shown, and to this foot-rest there is shown one of the arms 5 pivotally connected at 6, all in the usual manner, and, therefore, no detailed description of these parts or of their operation is given.

Fast to the foot-rest support 4 there is a bracket 7 having its upper end 8 in the form of a cylindrical casing open at one side and there provided with a cap plate 9. Secured in the casing 8 near the bottom thereof there is a V-shaped structure, one leg 10 of which is of metal of good electrical conductivity and the other leg 11 of which is made of a material which is a good insulator of electricity, such as hard rubber or vulcanized fiber. Near the upper portion of the back of the casing 8 there is formed an arc-shaped slot 12 through which extends a stud 13 carrying an elastic brush 14 within the casing 8 and having its free end in the path of the contact device 10—11.

The stud 13 is formed with a stem 15 passing through a bracket 16 connecting the arm 5 with the foot-rest support 4, and this stud receives a nut 17 on the end of its stem 15 by means of which the stud is securely fastened to the arm bracket 16, but it will be understood that if this arm bracket be made of metal it is advisable to introduce insulating material so that the stud is well insulated from the metallic parts of the shaft. This is, however, not strictly necessary if the contact 10 be well insulated from the metallic parts of the shaft. Leading from the stud 13 and from the contact 10 are conductors 18—18 which are included in a circuit leading to the register or signal or combined register and signal.

Neither the register nor the signal nor the two combined are shown in the drawings since these structures form no part of the present invention, in themselves, but any approved type of register or signal or both combined may be used in connection with the present invention.

Since the contact device of the present invention is mounted upon the seat portion of the chair and since in practice such chairs are arranged for the complete rotation of the seat portion, I have made provision for such rotation without in any manner breaking the continuity of the electric circuit so that the register or signal may be placed at any distant point and the contact device may be located on the rotary portion of the chair. This structure is shown in Figs. 1 and 2. Upon the pedestal 2 at the top thereof there is securely fixed a collar 19 clamped thereto by bolts 20. Rising from the upper edge of the collar 19 are brackets 21 carrying two upright spaced rollers 22—23 and an intermediate horizontal roller 24. In the drawing there are shown four of these brackets but I may use three or five or any other number desired. The brackets carry between their rollers an annular plate 25 of insulating material engaged on the top and bottom surfaces by the rollers 22 and 23 and around the inner edge of the roller 24. The annular plate or disk 25 is thus securely supported and is at the same time free to rotate about the several rollers which constitute anti-friction or roller bearings therefor.

In order that the plate or disk 25 may be rotated with the chair-seat, there is attached to the bottom of the latter a rod 26 projecting downward through a perforation 27 formed in a lug 28 on one side of the disk 25. The chair-seat may be elevated or depressed with relation to the disk 25 which has a fixed position with relation to the pedestal 2, and at the same time the disk 25, which is freely rotatable about the pedestal 2, will participate in any rotary motion imparted to the chair seat, being constrained to do so by the rod 26.

On the under side of the annular disk 25 are mounted a number of concentric metallic rings 29, and to two of these rings the conductors 18 are attached, being passed through perforations 30 in the annulus and making good electrical contact with the rings by being soldered or otherwise secured thereto. For the register-operating device forming the subject of the present invention but two of the rings are necessary, but since the barber's chair may be provided with other register-operating devices for other purposes than that of indicating the number of shaves the disk 25 may have as many pairs of rings 29 as may be necessary.

The collar 19 is provided with a laterally extending bracket or rod 31 on which are

fixed one or more pairs of brushes 32 in constant engagement with the rings 29. In the drawings but one pair of brushes 32 is shown but it will be understood that as many pairs will be provided as may be found necessary. From the brushes 32, conductors 33 lead to any distant point where the register, signal, or combined register and signal may be located.

It will be seen that the disk 25 with its conducting rings and the fixed brushes 32 constitutes a means whereby the continuity of the circuit between the rotary and fixed portions of the chair is maintained at all times. It will be understood, of course, that the conductors 18 will be sufficiently long and flexible to permit the chair seat to be elevated or depressed through its entire range of movement without bringing any strain on these conductors 18.

I claim:—

1. In a barber's chair of the reclining type, movable arm and foot-rest parts, a circuit terminal attached to a movable portion of the arm and another circuit terminal attached to a movable portion of the foot-rest and arranged in the path of the first-named terminal.

2. In a barber's chair of the reclining type, movable arm and foot-rest parts, a circuit terminal attached to a movable portion of the arm and another circuit terminal attached to a movable portion of the foot-rest and having a conducting member in the path of the first-named terminal during its movement in one direction and an insulating member in the path of the said first-named terminal during its movement in the other direction.

3. In a barber's chair of the reclining type, movable arm and foot-rest parts, a casing attached to the foot-rest part and containing an electric circuit terminal composed of a conducting member and an insulating member, and a circuit terminal carried by the movable arm and having a brush arranged to engage the conducting member of the other circuit terminal when the brush is moved in one direction and to engage the insulating member of the other circuit terminal when the brush is moved in the reverse direction.

4. A barber's chair having a seat rotatable in and movable vertically with reference to its pedestal or support, circuit terminals carried by the seat, rotatable conducting rings carried by the pedestal and connected to the circuit terminals on the seat, connections between the seat and conducting rings constraining the latter to rotate with the seat irrespective of its vertical movement and brushes carried by the pedestal in engagement with the conducting rings and included in an external circuit.

5. A barber's chair having a seat rotatable in and movable vertically with reference to

its support or pedestal, circuit terminals carried by the seat, a rotatable insulated disk carried by the pedestal, conducting rings on the disk connected to the circuit terminals on the seat, anti-friction supports for the disk, brushes carried by the pedestal in contact with the rings on the disk and included in an external circuit, and a rod on the seat passing through a perforation in the disk and constraining the latter to move rotatably with

the seat irrespective of the vertical adjustment of the said seat.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

JOHN W. B. FARIS.

Witnesses:

E. HUME TALBERT,
JAS. M. WALKER.