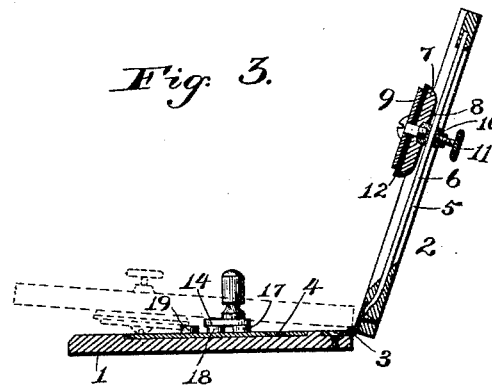
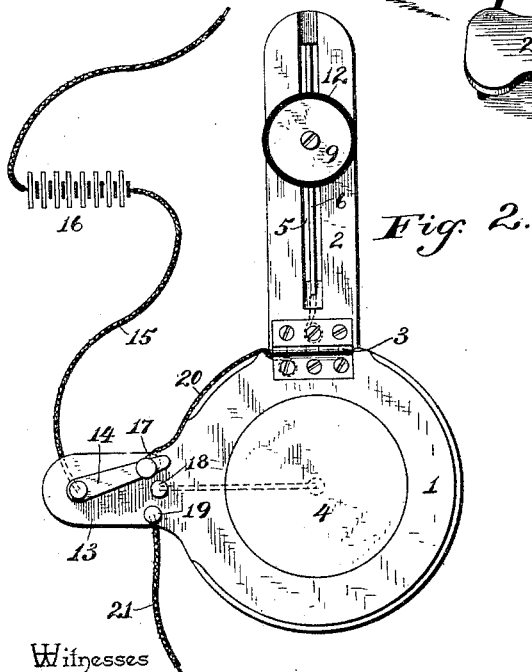
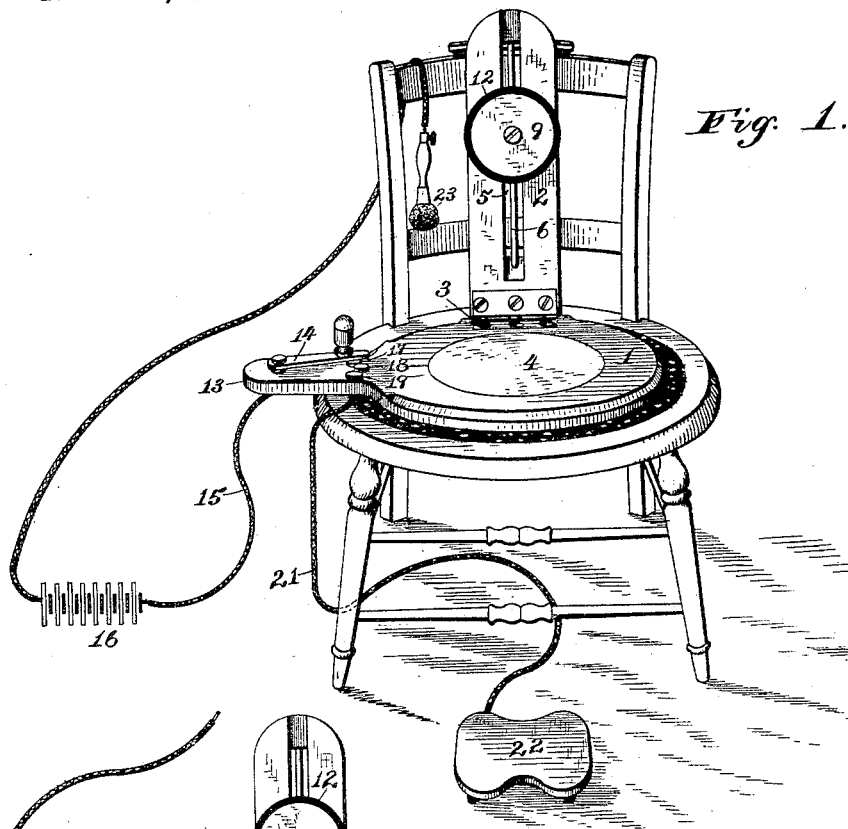


(No Model.)

G. W. OVERALL.
ELECTRODES FOR CHAIRS.

No. 459,127.

Patented Sept. 8, 1891.



Witnesses

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UNITED STATES PATENT OFFICE

GEORGE WHITFIELD OVERALL, OF MEMPHIS, TENNESSEE.

ELECTRODE FOR CHAIRS.

SPECIFICATION forming part of Letters Patent No. 459,127, dated September 8, 1891.

Application filed July 8, 1891. Serial No. 398,851. (No model.)

To all whom it may concern:

Be it known that I, GEORGE WHITFIELD OVERALL, a citizen of the United States, residing at Memphis, in the county of Shelby and State of Tennessee, have invented a new and useful Electrode for Chairs, of which the following is a specification.

This invention relates to electrodes as applied to seats for use in electro-vapor baths and for the general application of electricity to the human body; and it consists of the mechanism illustrated in the accompanying drawings, the peculiar construction, combination, and arrangement of which will be hereinafter fully described, and the specific points of novelty particularly pointed out in the claims.

Referring to the drawings, Figure 1 is a perspective view of a seat with my improved electrodes applied thereto. Fig. 2 is a plan view of the same. Fig. 3 is a vertical sectional view taken on the line *xx* of Fig. 1.

Similar numerals of reference designate corresponding parts in the several views.

My invention consists, essentially, of a seat 1 and a back 2, hinged thereto, as at 3. A metallic disk 4 is fixed in the seat at about the center thereof and forms one electrode. The back 2 is slotted longitudinally, as at 5, and a metallic conducting-rod 6 is arranged longitudinally in the slot 5 and electrically connected with the hinges 3 at its lower end.

7 designates a disk, preferably of insulating material, having a rib 8 on its rear side to fit in the slot 5 of the back, and 9 designates a disk of metal, which is somewhat smaller in diameter than the disk 7, and is arranged upon the said disk 7 concentric therewith, forming another electrode. A stud or binding-post 10 is secured electrically to the center of the disk 9 and serves to hold the two disks together and also to connect them to the conducting-rod 6, which latter passes through an aperture in the said stud, the stud and disks being free to slide along the back. A binding-screw 11 is inserted in a threaded opening in the stud 10 for the purpose of clamping the stud and disks at any desired height upon the rod. An insulation 12, of rubber or other suitable material, may be placed between the disks 7 and 9, if desirable. At one side of the seat is formed an extension

13, upon which is pivoted a switch-lever 14, which is connected by a wire or electric cord 15 with one pole of a battery 16. The said lever is arranged to make contact with three contact-buttons 17, 18, and 19, one of which 17 is connected by a wire 20 with the hinges 3, and the button 18 is connected with the disk 4, as shown in dotted lines in Fig. 2. The button 19 is connected by an electric cord 21 with a foot-electrode 22, placed upon the floor (and suitably insulated therefrom) in front of the seat. The other pole of the battery is connected with a hand-electrode 23, which may be applied to any part of the body.

In operation the seat 1 is placed upon a chair or suitable seat and the back 2 raised and supported by the back of the chair. The electrode 9 is adjusted up or down to suit circumstances, and the foot-electrode 22 placed in proper position, all about as shown in Fig. 1. If desirable to bathe the feet, a foot-tub may be placed upon the foot-electrode. The vapor-bath is applied in the usual manner. The hand-electrode 23 is placed upon the body at the point where the electricity is to be applied and the switch-lever turned to connect the other pole of the battery with either the foot-electrode, the seat, or the back, at whichever point it is desired to apply the current. When not in use, the back 2 may be folded down upon the seat 1, as shown in dotted lines in Fig. 3, making a small and convenient article for transportation or for packing away.

From the foregoing it will be seen that this device is simple and cheap in construction, easily operated, and very effective for the purpose designed.

It will be understood that I do not wish to limit myself to the precise details of construction as herein shown and described, as modifications may be made therein without departing from the spirit of the invention.

Having thus described my invention, what I claim, and desire to secure by Letters Patent, is—

1. In the herein-described device, a seat, an electrode upon said seat, a back secured to the seat, an electrode adjusted upon the back, and a switch connected with the battery, said switch having contact-points connected with the electrodes, whereby the electrodes may be

placed in electrical connection with the battery, substantially as described.

2. In the herein-described device, a seat, an electrode 4 upon said seat, a back secured to the seat, an adjustable electrode 9 upon the said back, a foot-electrode 22, and a switch connected with a battery and having contact-points connected with the electrodes, whereby the said electrodes may be placed in electrical connection with the battery, substantially as described.

3. In the herein-described device, a seat, an electrode 4 upon said seat, a back secured to the seat, an adjustable electrode 9 upon the said back, a foot-electrode 22, and a switch, in combination with a battery, one pole of which is connected to the said switch to direct the current into the electrodes and the other pole of which is connected with a hand-electrode, whereby the current may be applied to the patient, substantially as described, for the purpose specified.

4. In the herein-described device, a seat having electrodes, a switch having contact-points connected with the said electrodes, in combination with a battery, one pole of which is connected to the said switch to direct the current into the electrodes and the other pole of which is connected with a hand-electrode, whereby the current may be applied to the patient, substantially as described, for the purpose specified.

5. In the herein-described device, a seat having an electrode secured thereto, a back 2, hinged to said seat, an adjustable electrode upon the said back, and a switch connected with a battery and having contact-points connected with the said electrodes, whereby the current from the battery may be directed into the electrodes, substantially as described.

6. In the herein-described device, a seat having an electrode 4 secured thereto, a back hinged to said seat, a conducting-rod 6 upon said back, an electrode 9, having a perforated

stud through which the rod 6 passes, and means for clamping the electrode 9 to the said rod, in combination with a switch connected with a battery and having contact-points connected with the electrode 4, and the conducting-rod 6, whereby the current from the battery may be directed into the electrodes, substantially as described.

7. In the herein-described device, a seat having an electrode 4 secured thereto, a back having a slot 5 hinged to the said seat, a conducting-rod 6 within the said slot, an electrode 9, having a stud through which the rod 6 passes, and means for clamping the electrode 9 to the said rod, in combination with a switch connected with a battery and having contact-points connected with the electrode 4 and the conducting-rod 6, whereby the current from the battery may be directed into the electrodes, substantially as described.

8. In the herein-described device, a seat having an electrode 4 secured thereto, a back having a slot 5 hinged to the said seat, a conducting-rod 6 within the said slot, an electrode having a perforated stud through which the rod 6 passes, means for clamping the electrode 9 to the said rod, a foot-electrode 22, and a switch having contact-points connected with the rod 6 and the electrodes 4 and 22, in combination with a battery, one pole of which is connected to the said switch to direct the current into the electrodes and the other pole of which is connected with a hand-electrode, whereby the current may be applied to the patient, substantially as described, for the purpose specified.

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

GEORGE WHITFIELD OVERALL.

Witnesses:

K. BUTTENBERG,
L. BUTTENBERG.