No. 661,820. Patented Nov. 13, 1900.

M. SCHUPNER.

ELECTRICAL APPARATUS.

(Application filed June 16, 1900.)

(No Model.) 2 Sheets—Sheet 1.

Fig. 1

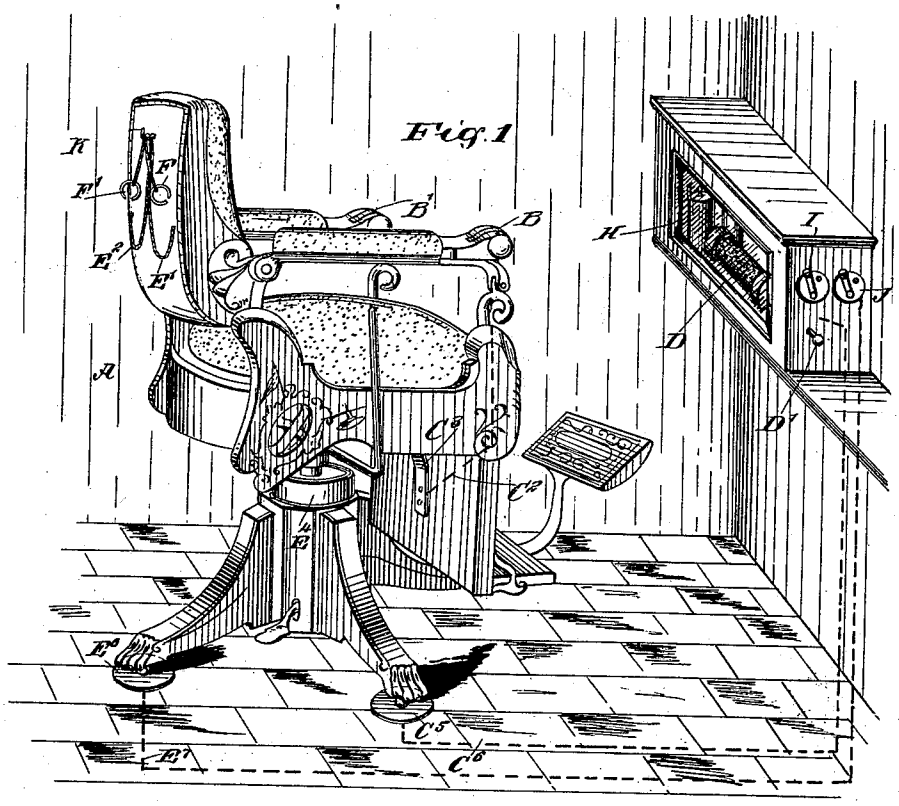


Fig. 3.

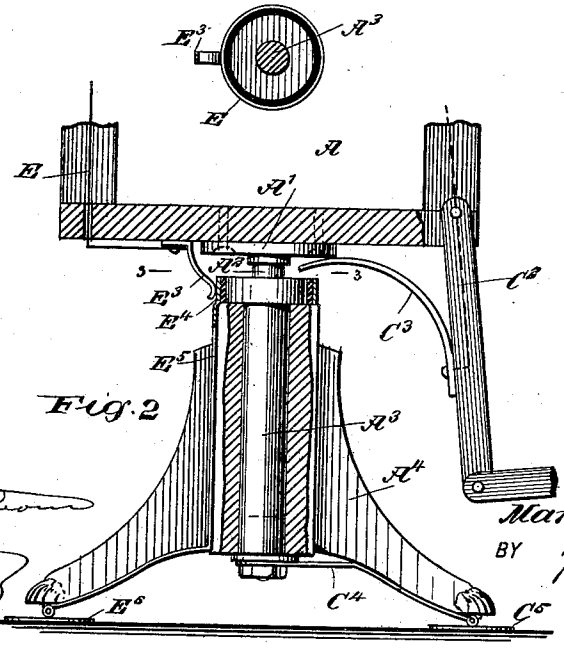


Fig. 2

WITNESSES:

John A. Bugbee

Geo. J. Boothby

INVENTOR

Martin Schupner

BY Munn & Co

ATTORNEYS

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

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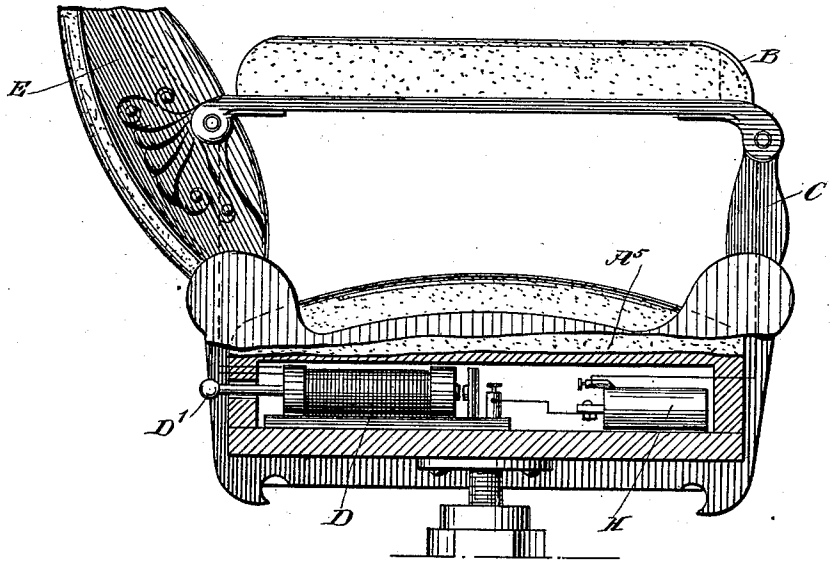


Fig. 4

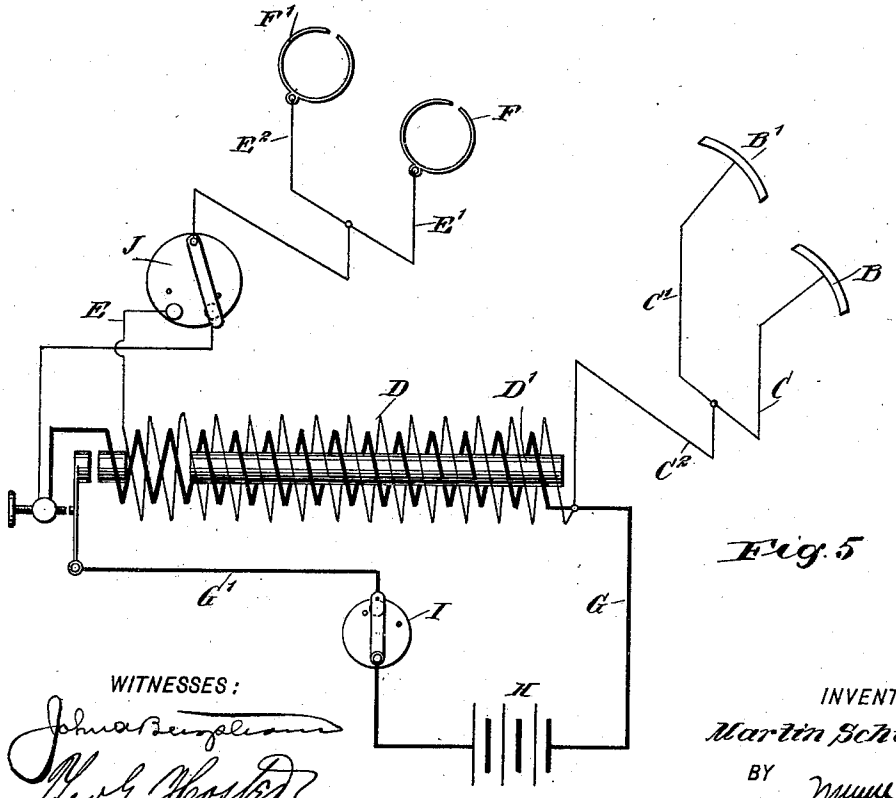


Fig. 5

WITNESSES:

Johnas Bengtsson

Rud. J. Hoover

INVENTOR

Martin Schupner

BY

Munn & Co.

ATTORNEYS

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

UNITED STATES PATENT OFFICE.

MARTIN SCHUPNER, OF NYACK, NEW YORK.

ELECTRICAL APPARATUS.

SPECIFICATION forming part of Letters Patent No. 661,820, dated November 13, 1900.

Application filed June 16, 1900. Serial No. 20,558. (No model.)

To all whom it may concern:

Be it known that I, MARTIN SCHUPNER, a citizen of the United States, and a resident of Nyack, in the county of Rockland and State of New York, have invented a new and Improved Electrical Apparatus, of which the following is a full, clear, and exact description.

The object of the invention is to provide a new and improved electrical apparatus arranged to permit a barber or other operator to apply a current of electricity of desired intensity to a human body or a portion thereof, mainly, however, for treating the scalp of a person for strengthening, drying, or assisting the growth of the hair.

The invention consists of novel features and parts and combinations of the same, as will be fully described hereinafter and then pointed out in the claims.

A practical embodiment of the invention is represented in the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the improvement as applied to a barber's chair. Fig. 2 is an enlarged sectional side elevation of part of the same. Fig. 3 is a sectional plan view of the same on the line 3 3 in Fig. 2. Fig. 4 is a sectional side elevation of a modified form of a barber's chair with the improvement applied thereto. Fig. 5 is a diagrammatic view of the improvement.

The improved apparatus is arranged in connection with a suitable support for the human body to be treated, said support consisting, preferably, of a barber's chair A of any approved construction. As illustrated in the drawings, the apparatus consists, essentially, of contact-plates B B', preferably secured to the forward ends of the side arms of the barber's chair, and said contact-plates are connected by branch wires C C' with a conductor C^2, connected with one pole of an induction-coil D, having its other pole connected with a second conductor E, from which lead flexible branch wires E' E^2 to bracelets F F', adapted to be worn by the operator, preferably on the wrist portions of the hands, so that when a person is seated in the chair and has his hands in contact with the contact-plates B B' and the operator applies his hands to the person's body then a circuit is established and the electric current is communicated to a part of the person—for instance, the scalp—to treat the same by the well-known art of applying electric currents.

The induction-coil D is connected with a source of electric supply, preferably in the form of a battery having a switch I for opening and closing the circuit. The induction-coil D is provided with the usual slidable core D' for graduating the intensity of the current in connection with a switch J, located in the conductor E and connected with the primary and secondary currents of the induction-coil.

In the arrangement shown in Fig. 1 the induction-coil D, battery H, and switches I and J are located in a closet or other support adjacent to the barber's chair A, and in order to make the necessary connections between the plates B B' and the bracelets F F' and the induction-coil D it is necessary to provide the conductor C^2 on the chair A with a spring contact-plate C^3 (see Figs. 1 and 2) in engagement with the flange A' of a spindle A^2, screwing in a sleeve A^3, carried by the leg A^4 of the barber's chair, said sleeve A^3 being connected at its lower end with a wire C^4, extending along the chair-leg A^4 to a contact-plate C^5 in the floor on which the chair is held, said contact-plate C^5 connecting by a conductor C^6 with one pole of the induction-coil D. The other conductor E leads from the back of the chair to a spring contact-plate E^3 in engagement with a ring E^4, held on the leg A^4, but insulated from the spindle A^2 and the sleeve A^3, the said ring E^4 being connected by a wire E^5 with another contact-plate E^6, from which leads a conductor E^7 to the other pole of the induction-coil D. By the contact-plates C^3 and E^3 the main conductors C^2 and E remain at all times in electrical connection with the induction-coil, even if the chair-seat is turned around or screwed up or down in the usual manner. In order, however, to simplify the arrangement, I prefer the construction shown in Fig. 4, in which the seat-frame A^5 of the barber's chair is formed with a chamber containing the battery H and the induction-coil D, the switches I and J being arranged on the back of the seat-frame, together with the sliding rod D' of the induction-coil, so that

the several parts are within convenient reach of the operator to graduate the intensity of the electric current or to shut off the current whenever desired. By this arrangement the seat of the chair can be turned, raised, or lowered or the entire chair can be moved around without disturbing the electrical connections.

The flexible branch conductors E E′ can be readily hung up on a hook K on the back of the chair when the apparatus is not in use for the purpose mentioned, so that the barber's chair can be utilized for ordinary legitimate purposes in the usual manner.

Having thus fully described my invention, I claim as new and desire to secure by Letters Patent—

1. As an apparatus for applying a current of electricity to the body, the combination of an induction-coil, a source of electrical supply and a chair having metallic plates thereon for contact with a patient, the induction-coil located between the source of supply and the chair and being connected electrically to the said plates by means of a conductor, and a conductor connected to the other pole, having bracelets thereon for engagement with the arms of an operator, whereby the circuit may be made by contact of the patient with said plates and the operator, substantially as shown and described.

2. In an electric shampooing apparatus, the combination of a source of electric supply, an induction-coil, and a chair having contact-plates thereon, and a conductor in electrical engagement with said contact-plates through the medium of one pole of the battery, and a conductor having bracelets thereon, in connection with the other pole of the battery, and an interposed switch for turning the current off and on substantially as shown and described.

3. In an electrical apparatus for applying a current of electricity to the human body, a support having contact-plates thereon, a source of electric supply, an induction-coil, a conductor connected with said contact-plates through the medium of one pole of said source of electric supply, a second conductor connected with the other pole of said source of electric supply, and means on said second conductor and arranged for attachment to an operator, to enable the latter to establish a circuit through a human body in contact with said contact-plates, as set forth.

4. In an electric shampooing apparatus, the combination with a barber's chair carrying contact-plates, of a source of electric supply arranged on said chair, an induction-coil located on said chair, a conductor on said chair and in electrical connection with said contact-plates through the medium of one pole of said source of electric supply, a second flexible conductor connected with the other pole of said source of electric supply, and means on said flexible conductor and arranged for attachment to the wrists of an operator, to enable the latter to send an electric circuit through a human body in contact with the said contact-plates, as set forth.

5. In an electric shampooing apparatus, the combination with a barber's chair having a chamber in its seat-frame and carrying electric contact-plates, of a source of electric supply arranged in said chamber, an induction-coil in said seat-frame, a conductor on the seat of the chair and in electric connection with said contact-plates through the medium of one pole of said source of electric supply, a second flexible conductor connected with the other pole of said source of electric supply, and means on said flexible conductor and arranged for attachment to the wrists of an operator, to enable the latter to send an electric current through a human body in contact with said plates, as set forth.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

MARTIN SCHUPNER.

Witnesses:
FREDERICK PERRY,
WILLIAM E. BLAURETT.