G. ANDERSON.

HAIR COMB.

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1,034,859. Patented Aug. 6, 1912.

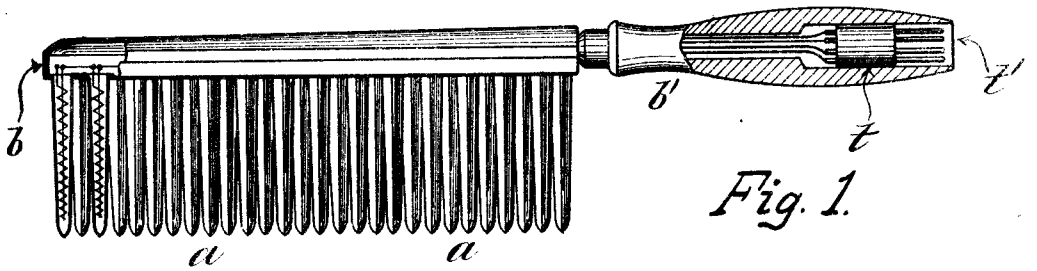


Fig. 1.

Fig. 2.

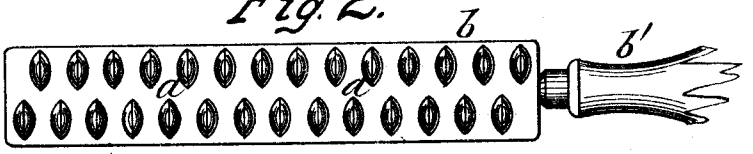


Fig. 3.

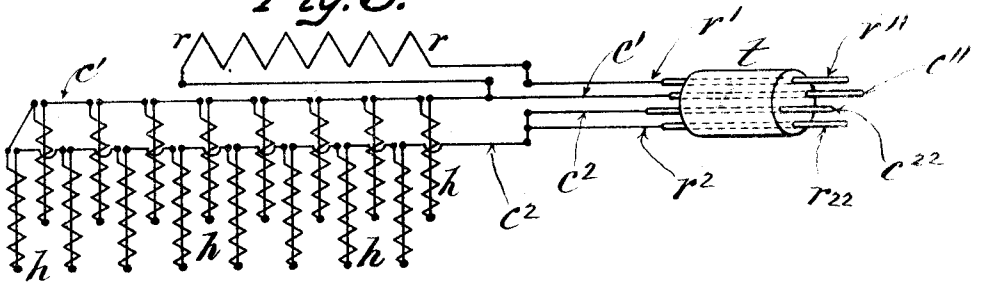
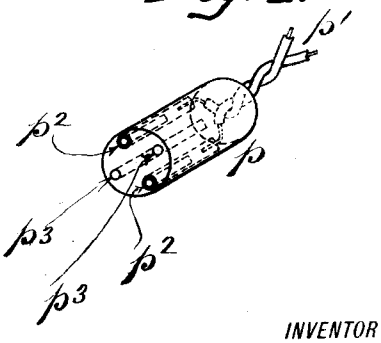


Fig. 4.



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HAIR-COMB.

1,034,859. Specification of Letters Patent. Patented Aug. 6, 1912.

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To all whom it may concern:

Be it known that I, GIDEON ANDERSON, a subject of the King of Sweden, residing in the borough of Manhattan, city, county, and State of New York, have invented certain new and useful Improvements in Hair-Combs, of which the following is a specification.

My invention is designed to afford a practical, expeditious and effective hair-drying device for use after washing, shampooing, bathing, &c., adapted especially to the requirements and convenience of persons having relatively long, thick hair liable to tangle.

I am aware that it has been proposed to use electrically heated metal combs for the purpose of drying hair, the heating element being incased in the back of the comb and the teeth being heated by conduction therefrom, but I have found this method of heating the comb unsatisfactory.

A distinguishing feature of my invention consists of the provision of hollow comb teeth each containing an individual heating coil connected in circuit with conductors extending through the back and handle of the device and adapted to be in turn connected with a service circuit through the medium of a suitable plug and flexible connections substantially as hereinafter more fully set forth. By this means I attain a positive and effective heating of all the teeth, individually and collectively, throughout the series.

Incidentally my invention includes the use of a resistance coil, and of a terminal holder and a service connection plug of peculiar construction, whereby the degree of heat imparted to the comb teeth may be varied; and also in the use of two or more rows of teeth "staggered" with relation to each other to insure close contact with the hair to be dried when the comb teeth are drawn through the same.

In the accompanying drawings, Figure 1, is a sectional elevation of my improved hair drying comb; Fig. 2, a face view of the same, the handle being broken away in part; Fig. 3, is a diagrammatic representation of the electrical circuits and connections; Fig. 4, a perspective view of the connection plug.

The back b, of the device is made hollow or recessed to contain the circuit wires c', c^2, and the resistance coil r, when the latter is included in the combination. The back b, is provided with a handle b', which is also recessed to accommodate the circuit wires c', c^2, and the terminal holder t';—the outer end of the handle being formed with the open socket t', for the reception of the service connection plug p, which by means of flexible conductors p', communicates with a suitable source of electrical supply.

Interposed in the main circuit c', c^2, are a series of heating coils h, h, one for each tooth a, a, said teeth being hollow and opening into the recess in the back b, as will be seen by reference to Fig. 1. The teeth are preferably made of metal and of approximately elliptical form in cross section; and they each also preferably taper outward to a blunt point after the manner of ordinary comb teeth.

The main circuit wires c', c^2, end in terminals c'', c^{22}, protruding through the terminal holder t, and into the socket t', for engagement with the contact tubes p^2, in the service connection plug p, when the latter is inserted in proper alinement into said socket t', in the end of the handle. The main connection and circuit thus established will obviously impart the maximum degree of heat to the teeth a, a, to effect the evaporation of the greater portion of the excess of moisture in the hair. When the hair has been partially dried it is desirable that the heat be reduced for the protection of the hair during the completion of the drying operation, and for this reason I provide the resistance coil r, adapted to reduce the heat to the requisite degree of moderation. The resistance coil r, is connected directly by the wire r', with the terminal r'', and indirectly through the main circuit c', c^2, and wire r^2, with the terminal r^{22}, both said terminals r'', r^{22}, being supported in the terminal holder t, in a common plane preferably at right angles to the plane common to the direct terminals c'', c^{22}. Dummy terminal sockets p^3, p^3, correspondingly formed and situated in the service connection plug p, admit the latter to be inserted in the socket t', with the contact tubes p^2, p^2, in engagement with either the terminals c'', c^{22}, as before stated, or with the resistance coil terminals r'', r^{22}, as desired, so that it is a simple matter to change from one prescribed degree of heat to the other.

When more than one row of teeth are provided, (and I prefer to employ two rows as shown in the drawings, although I do not limit myself in this respect) the teeth in the

adjoining rows are "staggered" in position with relation to each other, so that as the comb is drawn through the hair the latter will be deflected by and between the teeth, from side to side laterally, thereby insuring thorough and intimate contact with the heated surfaces of the teeth and also effectually smoothing out and disentangling the hair,—a function which the teeth are especially adapted to perform owing to their size and shape, and the fact that they alternate in position as above stated.

It is to be understood that the heating coils *h*, and the auxiliary resistance coil *r*, and their connections are of ordinary and well known character, adapted to the requirements of the specific purpose herein set forth, the same being represented herein symbolically for convenience of illustration.

What I claim as my invention and desire to secure by Letters Patent is,

1. In a hair drying comb of the character designated, the combination of a recessed back, a series of closed hollow teeth opening into said recessed back, an electric heating coil in each of said hollow teeth, a main electric circuit in the recessed back in which circuit the tooth heating coils are interposed, a terminal holder through which the terminals of said main circuit project, and a service connection plug formed with contact sockets for engagement with said terminals of the main circuit, for the purpose set forth.

2. In a hair drying comb of the character designated, the combination of a series of hollow teeth, electric heating coils in said hollow teeth, a main electric circuit in which said heating coils are interposed, a terminal holder through which the terminals of said main circuit project, an auxiliary circuit containing a resistance coil and having terminals projecting through said terminal holder, and a service connection plug formed with contact sockets and with dummy sockets whereby either the main circuit or the main and auxiliary circuits may be actuated electrically by means of said service connection plug, for the purpose described.

3. A hair drying comb of the character designated, comprising a recessed back, hollow teeth opening into the recess in said back, a handle connected with said back and formed with an end socket and an internal passage communicating with the recess in the back, a terminal holder in said end socket, an electric circuit in the recessed back having terminals projecting through said terminal holder and into said end socket, and heating coils situated in said hollow teeth and interposed in the electric circuit, for the purpose described.

4. A hair drying comb of the character designated, comprising a recessed back, hollow teeth opening into the recess in said back, a handle connected with said back and formed with an end socket and an internal passage communicating with the recess in the back, a terminal holder in said end socket, a main electric circuit in the recessed back having terminals projecting through said terminal holder and into said end socket, an auxiliary resistance circuit in said recessed back connected with said main circuit and having terminals projecting through said terminal holder and into said end recess, and heating coils situated in said hollow teeth and interposed in said main circuit, together with means for electrically actuating either the main circuit or the main and auxiliary circuits, for the purpose described.

5. A hair drying comb of the character designated, comprising a recessed back, hollow teeth opening into the recess in said back, a handle connected with said back and formed with an end socket and an internal passage communicating with the recess in the back, a terminal holder in said end socket, a main electric circuit in the recessed back having terminals projecting through said terminal holder and into said end socket, an auxiliary resistance circuit in said recessed back connected with said main circuit and having terminals projecting through said terminal holder and into said end recess, heating coils situated in said hollow teeth and interposed in said main circuit, and a service connection plug formed with contact sockets and dummy sockets for engagement with the terminals in the handle end socket, whereby either the main circuit or the main circuit together with the auxiliary resistance circuit may be actuated electrically, for the purpose described.

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Witnesses:
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