

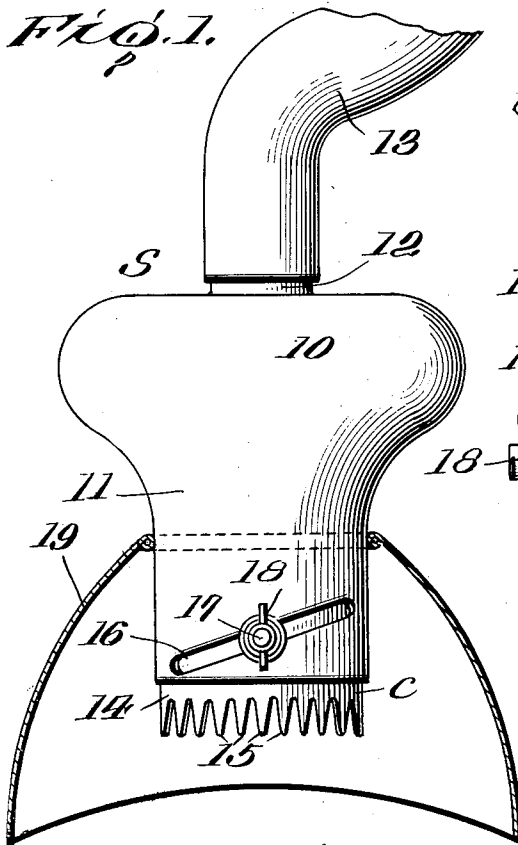
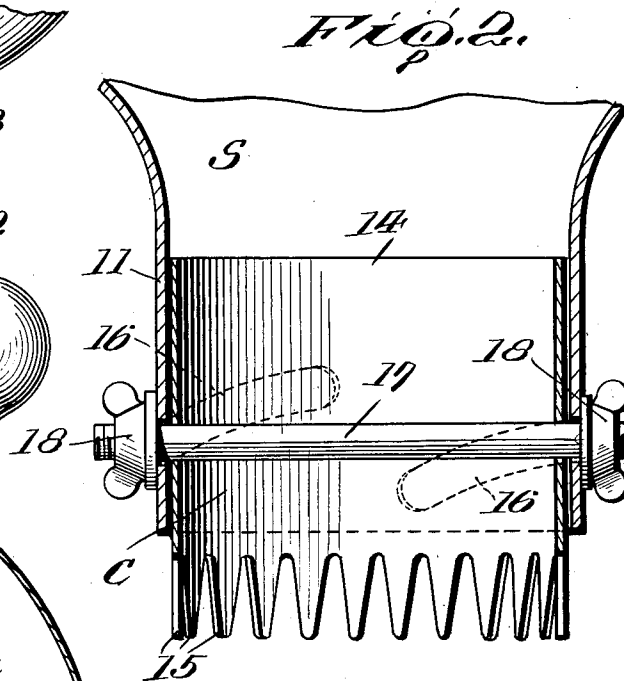
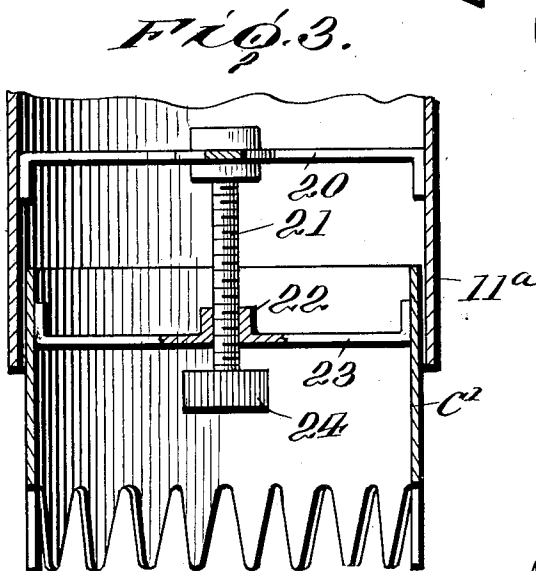
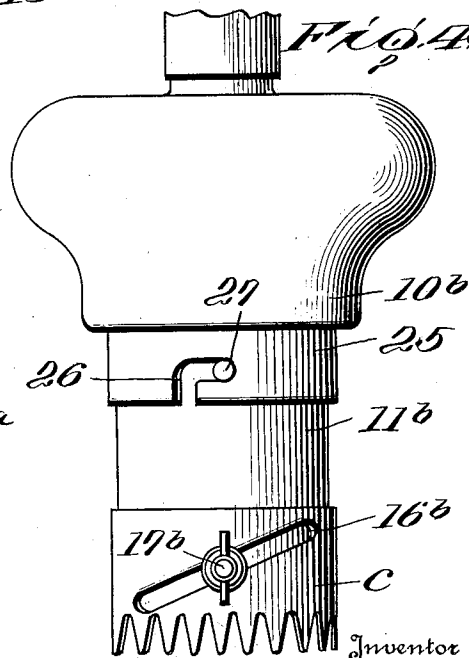
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SCALP TREATING DEVICE

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SCALP TREATING DEVICE

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8 Claims. (Cl. 128—300)

This invention is a device for treating the human scalp.

One of the objects is to provide a comb-like device capable of being passed over the human scalp for massage or shampoo purposes, and having means for conducting away loose hairs, dandruff scale, and other elements which may be loosened by its operation. A further object is to provide a device of the character mentioned equipped with means for supplementing a mechanical massage by applying a suction to the scalp, to stimulate the flow of blood in the vicinity of the area being treated. A further object is to provide a suction comb provided with means by which the degree of suction applied to the scalp may be varied.

The invention will be hereinafter fully set forth and particularly pointed out in the claims.

In the accompanying drawing:—

Figure 1 is a side elevation illustrating a suction comb constructed in accordance with the invention. Figure 2 is a detail sectional view illustrating the mounting of the comb-member. Figure 3 is a detail sectional view illustrating a slight modification. Figure 4 is a side elevation illustrating a second modification.

Referring to the drawing, S designates a suction chamber provided with an enlarged bulbous body portion 10 and a cylindrical suction inlet portion 11, open at its lower end. Said body portion 10 is provided with a suction outlet 12, located at any desired position, and connected by a conduit 13 with a suitable suction device (not shown), operating upon a principle commonly employed in connection with vacuum cleaners.

C designates a comb-member having a cylindrical body portion 14, telescoping within the cylindrical inlet portion 10, and rotatably and longitudinally adjustable therein. The lower edge of said comb member is provided with teeth 15. As shown in Figures 1 and 2, the portion 10 of the suction chamber is provided with oppositely disposed inclined slots 16, which are engaged by threaded lugs 17, extending radially from the comb member C, said lugs in the form shown in Figure 2, constituting the ends of a diametrically disposed rod 17a. The outer ends of said lugs 17 are engaged by nuts 18, adapted to engage the outer surface of said cylindrical inlet portion 10. By means of this arrangement, rotation of the comb member will adjust the same longitudinally with respect to the inlet member 11, the nuts serving to lock said comb-member in any adjusted position. By making such adjustments the mouth of the suction member 11

may be brought more or less over the openings between the teeth 15 and closer to, or further away from the scalp, to increase or diminish the degree of suction to be applied thereto.

In practice, it is preferred to employ a flexible skirt 19, the upper edge of which is secured to the suction chamber S, preferably around the portion 11. Said skirt flares outwardly so as to conform to the contour of the head, and its lower edge depends below the comb member so as to enclose it.

In lieu of employing the lug and slot engagement between the comb member and the suction chamber, as illustrated in Figures 1 and 2, the form of adjustment employed in Figure 3 may be employed. Referring to the last mentioned figure, the cylindrical inlet portion 11a is provided with a spider 20, which rotatably supports a threaded adjusting shaft 21. Said shaft engages an internally threaded sleeve 22, formed on a spider 23 carried by the comb member C'. Said shaft is provided with a milled head 24 for convenient manipulation, and it is obvious that rotations of the shaft 21 will move the comb member inwardly or outwardly, depending upon the direction of rotation.

In the form of the invention illustrated in Figure 4, the cylindrical inlet portion 11b is made separate from the suction chamber 10b. The two parts may be separably connected in any suitable manner. For instance, the chamber 10b may be constructed with a collar 25, provided with bayonet slots 26, which are engaged by lugs 27 on the member 11b, the upper end of said member extending into said collar. The comb member C² is mounted to rotate upon the exterior of the member 11b, and is provided with slots 16b, positioned to receive radial lugs 17b, carried by said member 11b.

In operation, of the respective devices above described, the comb member is adjusted so that while the device is engaged with the scalp, the desired suction will be applied to the area to be treated. The skirt is then adjusted to the head and the suction device set in operation. By then moving the device around with the comb in contact with the scalp, a very effective and beneficial massaging action is produced, which is obtained by combining the mechanical rubbing of the comb, with the suction, which tends to stimulate the local blood flow. At the same time all loose hair, dandruff scales, and the like are carried off through the suction device, leaving the scalp clean as well as invigorated.

The advantages of the invention will be readily

appreciated by those skilled in the art to which it belongs. For instance, it will be particularly noted that not only is provision made for a simultaneous rubbing and suction treatment of the scalp, but simple means are provided for adjusting the device to suit the individual needs of each person to be treated.

Having thus explained the nature of the invention and described an operative manner of constructing and using the same, although without attempting to set forth all of the forms in which it may be made, or all of the forms of its use, what is claimed is:—

1. A scalp treating device of the character described comprising a suction chamber provided with an inlet and an outlet opening, a comb-member mounted in said inlet opening, and a flared flexible scalp-engaging skirt having its upper edge engaging the interior of said skirt and depending from said suction chamber to a position below said comb-member and enclosing the same.

2. A scalp treating device of the character described comprising a suction chamber provided with a cylindrical inlet portion and a suction outlet, a movable comb-member arranged concentrically with said inlet portion and adjustably mounted therein, and a depending flexible scalp-engaging skirt having its upper edge portion engaging the exterior of said cylindrical inlet portion, the body of said skirt depending from said upper edge and enclosing said comb-member, the lower edge of said skirt being positioned below the plane of the comb member.

3. A scalp treating device comprising a casing having a cylindrical suction inlet conduit and an enlarged concentric suction chamber of bulbous form superposed upon and communicating with said conduit, a suction pipe leading from said bulbous chamber, a hollow comb member of cylindrical form telescoping with said conduit and mounted for axial and rotative movements thereon, said comb member having comb teeth on its lower edges constructed and arranged to provide air inlet spaces between them, and complemental means carried by said conduit and comb member for maintaining them in assembled relation, said last mentioned means being constructed and arranged to axially adjust the comb member and the conduit with respect to each other.

4. A scalp treating device comprising a casing having a cylindrical suction inlet conduit and an enlarged suction chamber of bulbous form superposed upon and communicating with said conduit, a suction pipe connection leading from said bulbous chamber, a hollow comb member of cylindrical form telescoping within said conduit and constructed and arranged to have axial and rotative movements therein, the said comb member having comb teeth on its lower edge providing air inlet spaces, said inlet conduit having inclined slots in its wall, lugs carried by the comb member and projected outwardly therefrom through said slots, and clamping means cooperating with said lugs to normally lock the comb against movement with respect to said conduit.

5. A scalp treating device comprising a casing including a cylindrical suction inlet conduit and a detachably connected enlarged suction chamber

of bulbous form superposed upon and communicating with said conduit, said bulbous chamber having an outlet opening, a hollow comb member of cylindrical form having telescoping engagement with said conduit and mounted for axial and rotative movements with respect to said conduit, the said comb member having comb teeth on its lower edge constructed and arranged to rest upon the surface to be operated upon and so spaced as to provide air inlet openings between them, and complemental means carried by the conduit and the comb member for maintaining them in assembled relation, said last mentioned means being constructed and arranged to effect axial and rotative adjustments of said comb member with respect to said conduit.

6. A scalp treating device comprising a casing formed of a suction inlet conduit member and an enlarged suction chamber member of bulbous form, one of said members being provided with a bayonet slot and the other with radial lugs complementary to said slot so that the members are detachably connected, said bulbous chamber having an outlet opening, a comb member of cylindrical form having telescoping engagement with said conduit and axially and rotatively movable with respect thereto, the lower edge of said comb member having spaced apart comb teeth providing air inlet spaces between them, and complemental means carried by the conduit and the comb member for maintaining them in assembled relation, said complemental means being constructed and arranged to effect axial adjustment of the comb member with respect to the conduit member.

7. A scalp treating device comprising a casing having a cylindrical suction inlet conduit provided with relatively spaced inclined slots, an enlarged suction chamber of bulbous form superposed upon and communicating with said conduit, said suction chamber having an outlet opening, a hollow comb member of cylindrical form having telescoping engagement with said conduit and mounted for axial and rotative movements therein, said comb member having comb teeth on its lower edge so arranged as to provide air inlet spaces between them, a rod extended diametrically across said comb member and having lug-like ends projected through said slots, and clamping means cooperating with said ends to normally prevent relative movement of the comb and said conduit member.

8. A scalp treating device comprising a casing having a cylindrical suction inlet conduit and an enlarged suction chamber of bulbous form superposed upon and communicating with said conduit, said chamber having an outlet opening, a hollow comb member of cylindrical form telescoping within said conduit and mounted for axial adjustment therein, said comb member having comb teeth on its lower edge constructed and arranged to provide air inlet spaces, relatively spaced spiders carried by the suction conduit and the comb member respectively, and an adjusting shaft connecting said spiders, said shaft and said spiders being so constructed and arranged that rotation of the shaft will impart axial adjustment to the comb member.

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