J. S. HENDRICKS.

HAIR CLEANER.

APPLICATION FILED JUNE 22, 1916.

1,225,244. Patented May 8, 1917.

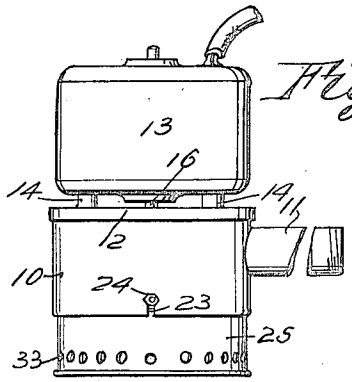


Fig. 1.

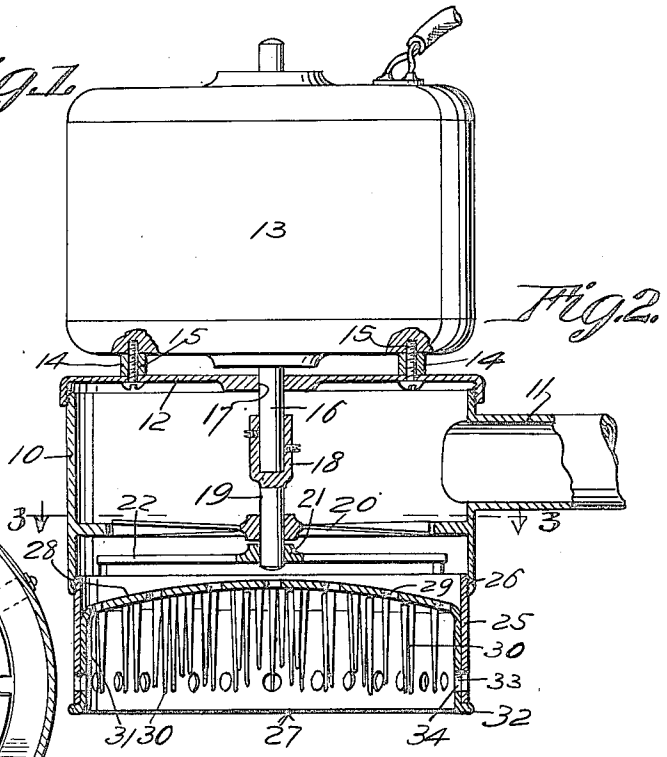


Fig. 2.

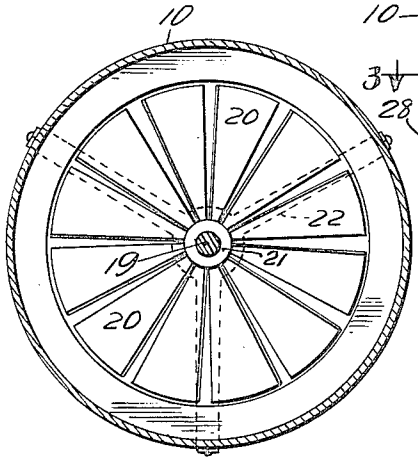


Fig. 3.

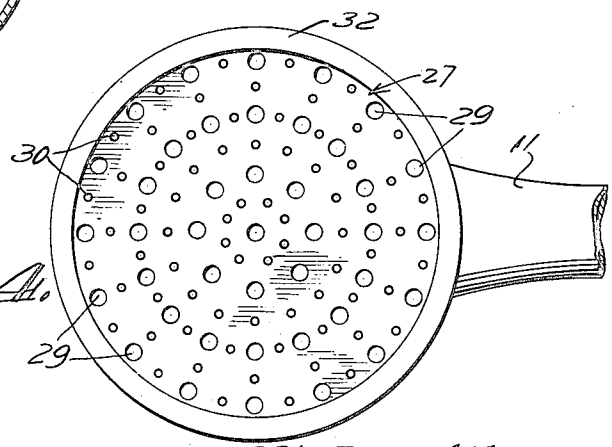


Fig. 4.

J. S. Hendricks

Witnesses

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UNITED STATES PATENT OFFICE.

JAMES S. HENDRICKS, OF COLVILLE, WASHINGTON, ASSIGNOR OF ONE-HALF TO FRANK B. GOETTER, OF COLVILLE, WASHINGTON.

HAIR-CLEANER.

1,225,244. Specification of Letters Patent. Patented May 8, 1917.

Application filed June 22, 1916. Serial No. 105,248.

To all whom it may concern:

Be it known that I, JAMES S. HENDRICKS, a citizen of the United States, residing at Colville, in the county of Stevens and State of Washington, have invented a new and useful Hair-Cleaner, of which the following is a specification.

The object of the invention is to provide a simple and comparatively inexpensive device designed primarily to be used as a means of removing loose hair, dandruff, etc., after hair has been cut, and also capable of efficient use as a hair drier after shampoo, the structure being such as to provide for ready detachment of the parts for cleaning, sterilizing, replacement or substitution, and with these objects in view the invention consists in a certain construction, combination and arrangement of parts hereinafter fully described and regarded as the preferred embodiment of the invention, it being understood that various changes in the form, proportions and details of construction may be resorted to within the scope of the claims without departing from the spirit of the invention.

In the drawings—

Figure 1 is a general side view of the apparatus.

Fig. 2 is a similar view on an enlarged scale with the cleaning and suction features shown in section.

Fig. 3 is a horizontal sectional view on the plane indicated by the line 3—3 of Fig. 2.

Fig. 4 is a bottom or reverse plan view.

Applied to a casing ring or wall 10, from which extends an outlet 11, to which a hose (not shown) may be applied, is a head or cover 12 forming a support for a motor casing 13, secured in place by screws 14 or similar means passing through spacers 15. The shaft 16 of the motor extends through a bearing 17 in the head or cover 12 and is connected by means of a coupler 18 with the vertical or axial spindle 19 of a rotary fan 20, the lower end of said fan spindle being mounted in a bearing 21 supported by the spider 22 of which the arms are detachably engaged terminally with the ring or wall 10 of said casing. This wall or ring is provided at its lower edge with slots 23 through which the extremities of the spider arms may be inserted, and the projecting extremities of said arms are engaged by nuts 24. Obviously the fan with its spindle may be readily dismounted from the casing by removing the spider after loosening the nuts by which the extremities of the arms thereof are held in place.

Detachably secured to the main casing is a comb ring 25, a threaded connection between said parts being illustrated in the drawings at 26 and said comb ring carries a comb 27 of gutta-percha or any suitable material and consisting as illustrated, of a perforated back 28 having the air openings 29, teeth 30 depending from said back, and a flange 31 also depending from the back and snugly fitting the bore of the ring 25. The lower edge of said flange may be beaded as at 32 to form a rounded bearing surface for contact with the head of the person undergoing the treatment. The teeth of the comb are terminally spaced above the plane of said bearing bead or member, so as to come into contact with and loosen the hair without coming in contact, except perhaps at the center, with the head of the person upon which the device is being used. Also air inlet openings are provided approximately in the plane of the extremities of the comb teeth, and represented by the registering apertures 33 and 34 respectively in the comb ring 25 and flange 31.

In operation the fan is motor driven to produce a suction at the mouth or open end of the comb ring, while the comb is used to loosen the hair, and this suction causes dandruff and loose hair to be carried upward through the openings in the back of the comb and discharged into the outlet 11. Obviously the same device can be used effectively as a means for drying the hair, and the construction and relation of the parts are such as to provide for the ready removal of the comb from its ring for the purpose of substituting a comb, for example, of a different type, and the comb ring is detachable from the main casing for the purpose of cleansing or sterilizing, and as heretofore explained, the fan may be detached or dismounted by the removal of the spider. The motor casing is spaced from the casing top or cover 12 to avoid excessive communication of heat from the former to the latter, while permitting the imparting of a gentle heat to the same which in practice will serve among other things as a means of preventing moisture inducted through the

comb from injuriously affecting the parts of the mechanism including the fan.

The tube constituting the outlet 11 forms a suitable and convenient handle by which the apparatus may be manipulated in passing the same over the head of the person upon which the same is being used, while the weight of the motor serves as a means of steadying and enabling the operator to apply a firm and steady pressure to insure an efficient operation of the device.

What is claimed is:—

1. An apparatus of the class described, having a casing within the mouth of which is arranged a comb, a suction fan mounted within the casing and a fan operating motor connected therewith.

2. An apparatus of the class described, having a casing, a comb arranged in the mouth of the casing, a rotary fan arranged in the casing adjacent to the plane of said comb, and a motor carried by the casing and having its shaft connected with the spindle of the fan.

3. An apparatus of the class described, having a casing, a fan arranged therein and a motor for operating said fan, a comb being fitted in the mouth of the casing and consisting of a perforated back, teeth depending from said back, and bearing elements for contact with the head of the person upon which the apparatus is being used.

4. An apparatus of the class described, having a casing, a fan mounted therein and a motor for operating said fan, and in combination therewith a comb attachment consisting of a comb ring detachably connected with said casing, a comb having a perforated back located adjacent to the plane of said fan, teeth depending from the back, and a bearing element located in a plane slightly beyond the extremities of said teeth.

5. An apparatus of the character described, having a casing, a rotary fan mounted therein, and means for operating said fan, and in combination therewith a comb attachment having a comb ring detachably secured to said casing, a comb removably fitted in said ring and having a perforated back arranged adjacent to the plane of said fan, comb teeth depending from said back and terminating short of the mouth of the comb attachment, and a bearing element arranged at the outlet of the comb attachment and arranged in a plane beyond that of the extremities of said comb teeth.

6. An apparatus of the class described having a casing comprising a wall or ring, a cap or cover detachably secured thereto, a motor carried by said cap or cover, a spider detachably secured to the casing wall or ring and provided with a bearing, a fan having a spindle mounted in said bearing and detachably connected with the shaft of said motor, and a comb attachment detachably secured to the wall of the casing adjacent to the plane of said fan.

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

JAMES S. HENDRICKS.

Witnesses:

GLADYS WINSLOW,

F. LEO. GRINSTEAD.