

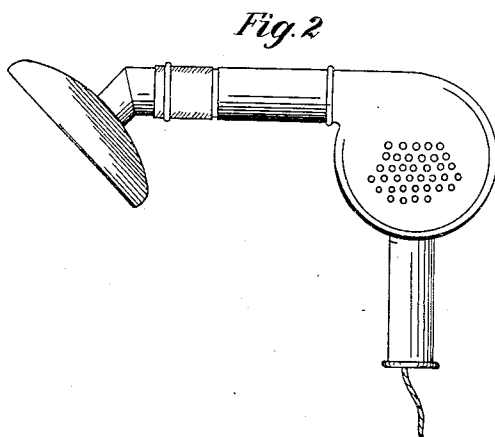
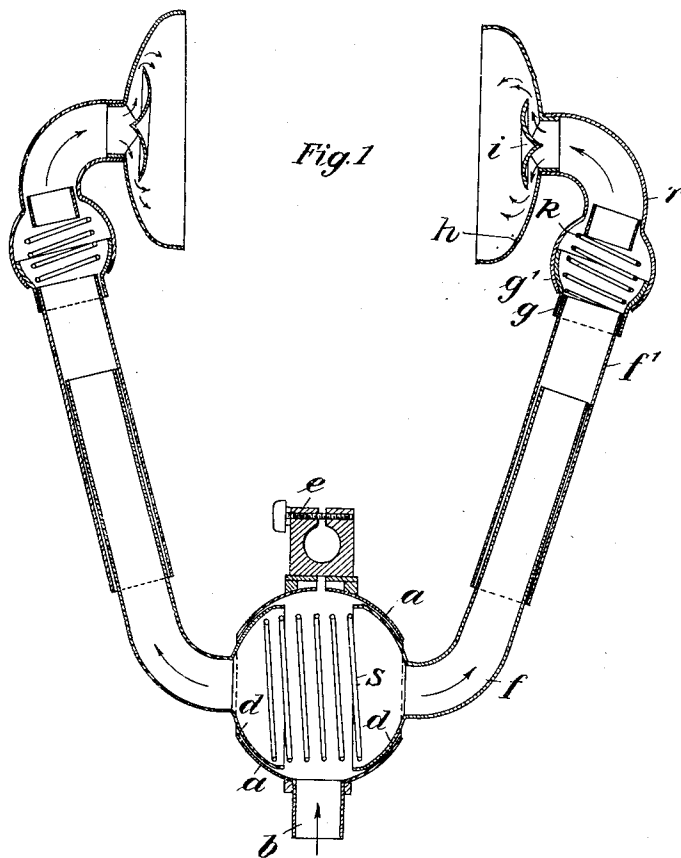
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HAIR DRYING APPARATUS

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UNITED STATES PATENT OFFICE.

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HAIR-DRYING APPARATUS.

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My invention relates to an improved device or apparatus for drying the human hair by means of a heating operation and the object of my invention is to provide an apparatus for the stated purpose, which allows of being adjusted to conform to the shape and size of the head of a person and which will act to distribute or spread the current of hot air employed as a heating agent, and to reduce or weaken the same so that the head of the person will be surrounded as it were, by a zone of hot dry air, whereas in all of the hair driers hitherto suggested or practised the hot air is ejected in the form of a more or less powerful current, acting to always strike a limited part or spot of the head only. My improved apparatus, therefore, is particularly adapted for use in drying hair which has been curled to form permanent waves, for the reason that the waves are not injured by the mild drying operation but will stay and keep in shape.

With the above recited and other objects in view the invention resides in the novel construction set forth in the following specification and illustrated in the accompanying drawing forming a part of this specification and showing for purposes of exemplification, a preferred form and manner in which my invention may be embodied and practised.

The Figure 1 of the drawing is a sectional view of the new drying apparatus. Figure 2 is a view of a further modification. It comprises from a general aspect, a globular air conduction head *a* with a tubular inlet *b* for the attachment of a conduit connected with any suitable source of hot air supply, and with a clamping device *c* for connection with any appropriate stand or holder. Fitted to the sides of the head *a* in the manner of a ball and socket joint are two tubular arms which are similar in construction and operation so that it will be sufficient to give a detailed description of one arm only.

The arm comprises two telescopically united parts *f* and *f'*, the part *f* being bent or curved at the one end and shaped to form a spherical shell *d* engaging in the head *a* so as to constitute, in co-operation with the latter, a kind of a ball and socket joint, the two shells *d* being held in permanent contact with the respective counter-faces of the head by means of a coiled spring *s* interposed therebetween, as will be readily understood on an inspection of the drawing.

The arms thus have an extension freedom

of movement with relation to the head, the more so since the circular openings in the wall of the head, through which the arms project from the latter, have a somewhat greater diameter than the arm portions *f*.

The outer end of the part *f'* of the arm is connected with a hot air shell or cup *h* by means of a coupling similar to that hereinbefore described. To this end the part *f'* is provided with a spherical shell *g* engaging in a globular shell *g'* connected to the cup *h* by means of a short curved tube *r*, the two shells *g* and *g'* being kept in the required distance apart from each other by means of a coiled spring *k* so that there is extension freedom for the cup *h* to turn about the joint. Mounted in the cup *h* is an inverted conical body *i* which has an enlarged base portion for distributing purposes as will be explained hereinafter.

The operation of the apparatus is as follows:

Upon having adjusted the apparatus on the stand not shown by means of the clamp and screw *e* and in accordance with the stature of the person, the inlet socket *b* is to be connected with the hot air conduit, not shown. The hot air then flows in the form of a current through the head *a*, the tubular arms *f*, *f'* and the curved tubes *r* into the two cups *h*. The discharge of the hot air currents from the two cups *h*, however, does not take place in a linear path or in the form of a current, but the shape of the cups and the configuration of the conical bodies therein have the effect of distributing or spreading the hot air current over a large area, whereby the energy or impact of the rushing hot air is reduced and the hair in its totality or the head of the person, is uniformly enfolded in a comparatively calm zone of drying hot air. In this manner the hair is dried without the necessity of employing protecting nets and without any liability of deranging or impairing dressed hair and particularly hair curled to form permanent waves.

From the foregoing it will be seen that the invention affords a means for adjusting the apparatus to the stature and size of the head of any person and for drying the hair in a more reasonable manner than hitherto practised. It goes without saying that in some cases it will be advisable to use more than two arms and cups or it may be sufficient to use only a single arm and a single spreading cup either by taking off the one arm, when re-

quired, or by constructing and arranging the apparatus with a single arm only. The connection of the spreading cup *h* to the head or the arm or the arms supplying the hot air may
 5 be varied or simplified, by using an ordinary clamping device only. For while I have shown my invention embodied in a certain apparatus, it is not to be inferred that such apparatus represents the only form in which
 10 my invention may be embodied but is illustrated and described as illustration of a form now preferred by me and to make clear the principle and method of application of my invention. I therefore do not wish to be
 15 limited to the exact details of construction and arrangement shown and described, as modifications are no doubt possible, which would still come within the scope of the invention and the claims appended hereto.

20 What I claim is:

1. An apparatus for drying the human hair by means of hot air, comprising a head adapted to be attached to a hot air conduit, spreading cups, and telescopically composed
 25 tubes pivotally attached to the said head and to the said cups, respectively.

2. The spreading cup having a conical spreading body attached to its inner surface substantially as shown, for the purpose specified.
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3. An apparatus for drying the human hair by means of hot air, comprising a head adapted to be attached to a hot air conduit, spread-

ing cups, telescopic tubes, a spherical socket joint at the one end of each tube for the connection with the said head, and a spherical
 35 socket joint at the other end of each tube for the connection with the two spreading cups, respectively, substantially as and for the purpose set forth.

4. An apparatus for drying human hair by means of hot air comprising a supply head to be attached to a hot air conduit, mouthpieces, distributing cones within the same, telescopically composed connecting tubes, and a spherical
 45 joint at one end of each tube for connection with the mouthpieces.

5. An apparatus for drying human hair by means of hot air comprising a supply head to be attached to a hot air conduit, mouthpieces, distributing cones within the mouthpieces, telescopic connecting tubes, and spherical
 50 joints at both ends of the tubes for connection with the supply head and the mouthpieces.

6. An apparatus for drying human hair by means of hot air comprising a supply head to be attached to a hot air conduit, mouthpieces, distributing cones within the latter, telescopically composed connecting tubes and spherical
 60 joints, consisting of tubular shells with coiled springs interposed therebetween, at both ends of the tubes for connection with the supply head and the mouthpieces.

In testimony whereof I affix my signature.

ERDMANN VOSS.