

Oct. 27, 1931.

C. LEWIS

1,829,228

COMB

Filed May 15, 1931

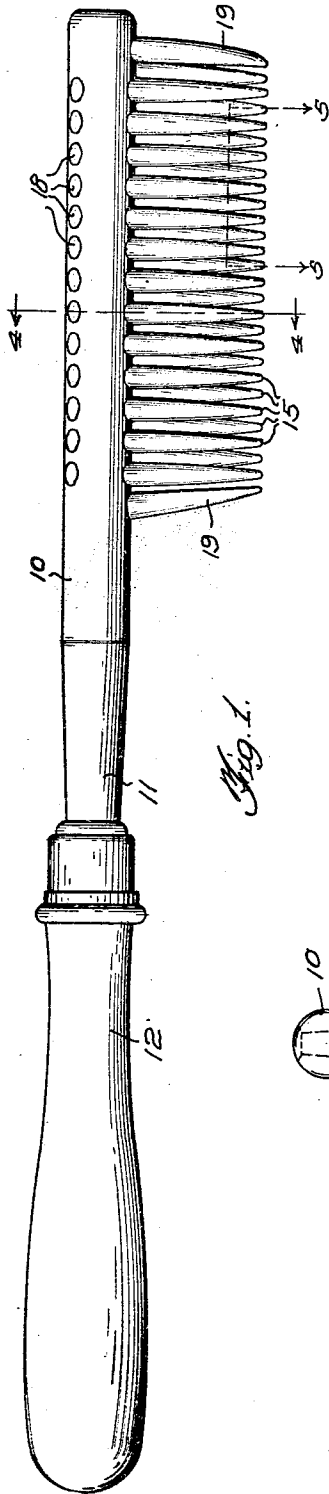


Fig. 1.

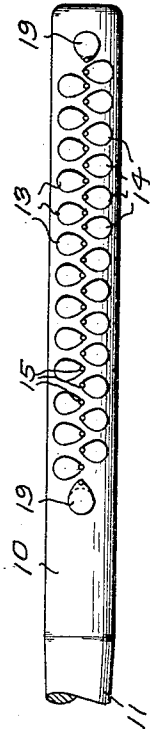


Fig. 3.

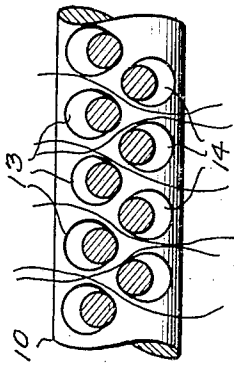


Fig. 5.

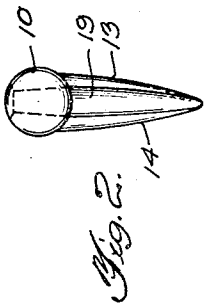


Fig. 2.

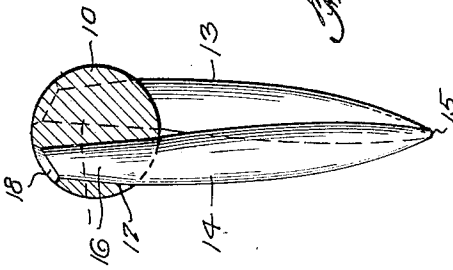


Fig. 4.

INVENTOR.  
CHARLES LEWIS,  
BY *B. P. Johnson*

ATTORNEY.

## UNITED STATES PATENT OFFICE

CHARLES LEWIS, OF NEW YORK, N. Y.

COMB

Application filed May 15, 1931. Serial No. 537,711.

My invention relates to a comb to be used in heating the hair, in drying or straightening the same.

An important object of the invention is to provide a hair comb of the above mentioned character so constructed that the maximum contact area is afforded between the hair and the teeth of the comb.

A further object of the invention is to provide a hair comb having two sets of teeth arranged in staggered relation so that the hair is caused to travel through tortuous passages between the teeth, for producing a proper pulling action upon the hair.

A further object of the invention is to provide novel means for assembling the teeth and back of the comb whereby a simplified construction is produced, and the cost of production reduced to the minimum.

Other objects and advantages of the invention will be apparent during the course of the following description.

In the accompanying drawings, forming a part of this specification, and in which like numerals are employed to designate corresponding parts throughout the same,

Figure 1 is a side elevation of a comb embodying my invention,

Figure 2 is an end elevation of the same,

Figure 3 is a bottom plan view of the same, parts broken away,

Figure 4 is a transverse section taken on line 4—4 of Figure 1, and

Figure 5 is a horizontal section taken on line 5—5 of Figure 1.

In the drawings, wherein for the purpose of illustration is shown a preferred embodiment of my invention, the numeral 10 designates the back of the comb, formed of metal, such as brass. This back is, preferably, circular in cross-section. The back is provided at its inner or rear end with a shank 11, upon which is mounted a handle 12, preferably formed of heat insulating material.

The numerals 13 and 14 designate longitudinal sets of teeth, formed of metal, such as brass. The teeth in one set are staggered with respect to the teeth in the other set, whereby the teeth in one set are arranged opposite the spaces between the teeth in the

other set, affording tortuous passages for the hair, Figure 5. Each tooth 13 and 14 is longitudinally tapered, and decreases in diameter toward its outer or free end and terminates in a blunt or rounded point 15. Each tooth is provided at its base with an inwardly tapering attaching extension 16, circular in cross-section, and adapted for insertion within a correspondingly shaped tapered opening 17, formed in the back 10. The free end of the attaching portion 16 is spread, after being inserted within the opening 17, affording a head 18, thereby locking the attaching extension within the opening 17. The heads 18 are produced by hammering the free ends of the attaching portions 16, which free ends may project slightly beyond the body portion 10, these free ends thereby being mashed or spread. The heads may then be filed or cut off flush with the periphery of the body portion 10. Each opening 17, at its upper reduced end, has a flaring portion which receives the head 18, as clearly shown in Figure 4. The sets of teeth 13 and 14, at their bases, are spaced, while such sets converge outwardly toward their free or pointed ends, such ends being positioned in substantially the same plane. By this arrangement, it is obvious that the pitch of the tortuous passages increase toward the free ends of the teeth. The numeral 19 designates end teeth, identical with the teeth 13 and 14, and secured to the back in the same manner. These teeth are spaced from the end teeth in the sets 13 and 14, and have their central longitudinal axes preferably arranged in the plane of the points of the sets of teeth 13 and 14.

In use, the comb is heated by any suitable means, and while hot, it is used to comb the hair, to dry the same, or for applying a straightening preparation. By virtue of the tortuous passages between the sets of teeth, and by virtue of the shape of the back of the comb and the teeth, the maximum contact area is effected between the heated metal and the hair, and, further, a suitable pull is placed upon the hair.

It is to be understood that the invention is not limited to the precise construction set

forth, but that it includes within its purview whatever changes fairly come within either the terms or spirit of the appended claims.

Having described my invention, what I claim is:

1. A hair heating comb, comprising a back having longitudinal sets of openings therein, the openings in one set being staggered with relation to the openings in the other set, and teeth having parts inserted within said openings.

2. A hair heating comb, comprising a back having longitudinal sets of openings therein, the openings in one set being staggered with relation to the openings in the other set, and sets of teeth having parts inserted within the sets of openings, the free ends of the teeth overlapping.

3. A hair heating comb, comprising a back having longitudinal sets of spaced transverse openings formed therein, the openings in one set being staggered with relation to the openings in the other set, and sets of teeth tapering toward their free ends and having attaching parts inserted within the openings, the teeth in one set being staggered with relation to the teeth in the other set for affording tortuous passages between the same.

4. A hair heating comb, comprising a metal back having longitudinal sets of tapered transverse openings, the openings in one set being staggered with relation to the openings in the other set, and sets of metal teeth having tapered attaching shanks inserted within the tapered openings, the ends of the attaching shank being spread to hold the shanks within the openings, the teeth in one set being staggered with relation to the teeth in the other set.

5. A hair heating comb, comprising a metal back having longitudinal sets of tapered transverse openings, the openings in one set being staggered with relation to the openings in the other set, and sets of teeth having tapered shanks inserted within the tapered openings, the ends of the shanks being spread to hold the shanks within the openings, said teeth tapering toward their free ends, the teeth in one set being staggered with relation to the teeth in the other set and converging with relation thereto toward their free ends, the free ends of both sets of teeth being arranged generally in the same plane.

In testimony whereof I affix my signature.

CHARLES LEWIS.