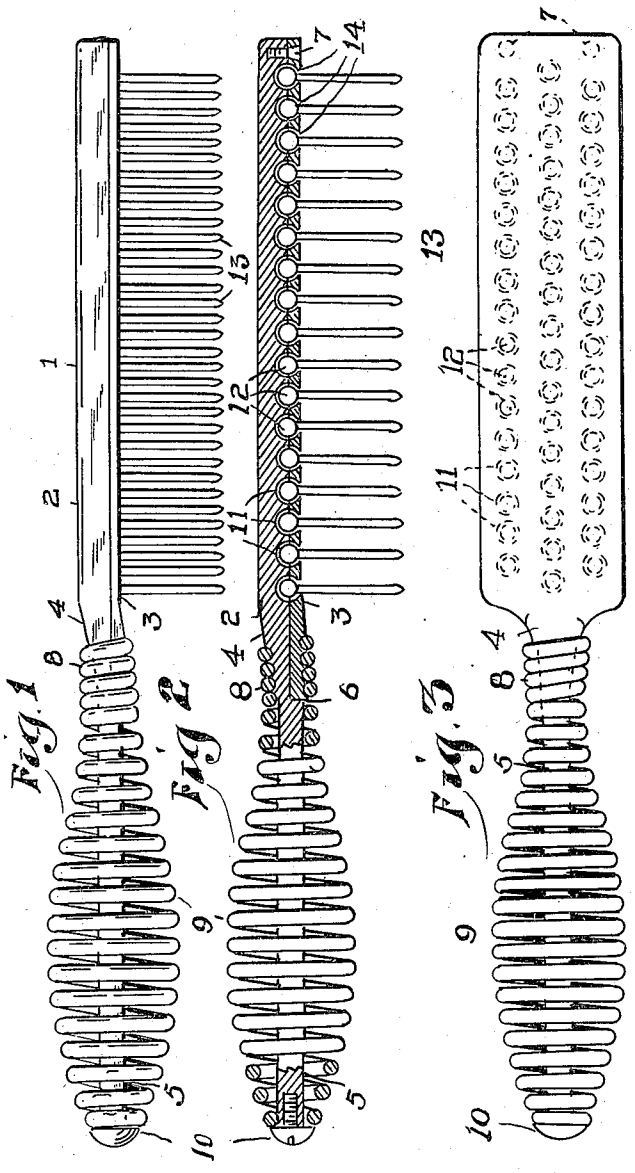
Oct. 23, 1923. 1,471,527

J. M. PROCTOR

HAIR STRAIGHTENING BRUSH

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WITNESS
T. F. Dilworth

INVENTOR.
Jennie M. Proctor
BY Jas R. Snyder
ATTORNEY

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UNITED STATES PATENT OFFICE.

JENNIE M. PROCTOR, OF PITTSBURGH, PENNSYLVANIA.

HAIR-STRAIGHTENING BRUSH.

Application filed December 6, 1922. Serial No. 605,242.

To all whom it may concern:

Be it known that I, JENNIE M. PROCTOR, a citizen of the United States, residing at Pittsburgh, in the county of Allegheny and State of Pennsylvania, have invented certain new and useful Improvements in Hair-Straightening Brushes, of which the following is a specification.

My invention relates to metal hair brushes primarily designed and adapted, when heated, for straightening frizzly, kinky or curly hair, but it will be obvious that the device may be used for any purposes wherein it is found to be applicable.

Important objects of this invention are to provide a metal hair brush of the type and for the purpose stated, in a manner as hereinafter set forth, having inflexible, rigid teeth mounted for universal movement allowing the teeth to incline in a direction opposite from the direction that the brush is drawn over the hair thereby preventing injury to the hair and scalp; which further includes a tooth construction having an enlarged head adapted for the retention and transmission of heat to the teeth; which may be readily taken apart to facilitate the cleaning of the brush and the replacement of the teeth, which permits of its use in connection with any kind of hair dressing without damage thereto, and which may be heated in any manner without danger from fire or overheating.

Further objects of the invention are to provide a device of the character described which is simple in its construction and arrangement, strong, durable and efficient in its use, sanitary, attractive in appearance, and comparatively inexpensive to manufacture.

With the foregoing and other objects in view, which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes, variations and modifications in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

In the drawing forming a portion of this specification and wherein like numerals of reference designate corresponding parts throughout the several views:—

Figure 1 is a side view of a hair straightening brush in accordance with this invention.

Figure 2 is a similar view with portions thereof shown in cross section.

Figure 3 is a top plan view of the device.

Referring in detail to the drawing 1 denotes the body portion of the brush consisting of the top member 2 and the bottom plate 3. The bottom plate 3 is positioned flatly against the under face of the top member 2.

The body portion 1 is preferably elongated and rectangular in contour and is formed at its rear end with a tapering neck 4. A handle support 5 is integrally formed with the neck portion of the top member 2, and extends rearwardly in alignment relatively to body portion 1. The forward end of the handle support 5 overlaps the rear edge of the neck portion of the plate 3, as clearly shown and indicated at 6, in Figure 2 of the drawing.

The plate 3 is secured at its forward end to the top member 2 by means of the screws 7, which extend through the perforations provided therefor in the plate 3 and engage in the threaded apertures formed in the under face of the top member 2 at its forward end. The rear end of the plate 3 is secured against the top member 2 by the engagement of the tapering neck 5 of the body portion 1 with the contracted forward end 8 of the coil wire handle 9, which latter is mounted on the handle support 5 and secured thereon by the screw 10 in threaded engagement in the rear end of the handle support 5 when in position on the support 5. The coil wire handle exerts a spring pressure against its contracted forward end 8 which latter in turn secures the plate 3 against the top member 2 by the engagement of their neck portions therewith.

The adjoining faces of the top member 2 and the plate 3 are each formed with a plurality of recesses, each of the recesses of the plate 3 registers with a corresponding recess formed in the top member 2 and form in combination with each other a round socket 11 in which the round heads 12 of the teeth 13 are mounted. Each of the recesses

formed in the plate 3 is provided with an aperture 12 to permit of the projection of a tooth 13 therethrough. The apertures 14 are of a greater diameter than the diameter of the teeth 13, thereby allowing universal movement of the teeth 13 on the well known ball and socket principle. The universal movement of the teeth 13 however is limited and controlled by the peripheries of the apertures 14.

The teeth 13 are inserted through the apertures 14 of the plate 3 before the latter is attached to the top member 2, and are preferably formed with rounded free ends so as not to injure the scalp of the user.

The device as shown in the drawing illustrates the teeth 13 arranged in three longitudinal rows, the teeth of each row being staggered relatively to the teeth of an adjacent row.

It will be obvious that the configuration of the body portion 1, the arrangement of the teeth therein, and the length and contour of the latter may be varied to best meet conditions found in practice.

In practice the body portion 1 of the brush is heated by positioning the top member 2 in direct contact with a heating element. Such heating element may consist of an electric or gas heating unit embodied in the top member itself, providing a constant heat, or of a separate heater on which the top of the body portion is temporarily positioned until properly heated, and requiring reheating to maintain the brush at a suitable operating temperature. The top member 2 is constructed of comparatively thick metal and will therefore absorb and retain a large amount of heat. The heads 12 of the teeth 13 being large and in contact with the top member 2 a certain amount of heat will be absorbed and maintained by the heads 2 and transmitted from the latter to the teeth at the proper operating temperature.

The brush may be readily taken apart for cleaning or for any other purpose by removing the handle 9 and screws 7 thereby releasing the plate 3 from the top member 2 and permitting of the removal of the teeth 13.

From the foregoing description taken in connection with the accompanying drawing, the advantages of the construction and the method of operation will be readily apparent to those skilled in that art to which the invention appertains and while describing the principle of operation of the invention together with the device which is now considered to be the best embodiment thereof, it is to be understood that the device shown is merely illustrative and that various changes in the form, proportion and the minor details of construction may be resorted to without departing from the principle or sacrificing any of the advantages of the invention as defined in the appended claims.

What I claim is:—

1. In a hair straightening brush comprising a body portion provided with a handle and a plurality of teeth having a ball and socket connection with said body portion.

2. A hair straightening brush comprising a body portion adapted to be heated and provided with a handle, a plurality of teeth having a ball and socket connection with said body portion, said teeth arranged in rows in said body portion and the teeth of one row being staggered relatively to the teeth of an adjacent row.

3. A hair straightening brush comprising a body portion consisting of a top member and a bottom plate, said top member adapted to be heated and provided with a handle support, a handle mounted on said support, said top member and bottom plate provided with registering recesses forming a plurality of sockets, and a tooth having a rounded head shiftably mounted in each of said sockets and extending through said bottom plate, said rounded head adapted to transmit the heat from said body portion to said teeth.

4. A device for the purpose set forth comprising a body portion consisting of a top member and bottom plate, a plurality of inflexible teeth shiftably mounted in said body portion and secured therein by said bottom plate, and means for detachably attaching said bottom plate to said top member.

5. A hair straightening brush comprising a body portion consisting of a top member and a bottom plate, said top member adapted to be heated and provided with a rearwardly aligned handle support overlapping said rear edge of said bottom plate, the rear ends of said top member and bottom plate formed to provide a tapering neck, a wire coil handle mounted on said support and having a contracted forward end adapted to engage said tapering neck for detachably securing said plate to said top member, recesses formed in said top member and in said plate providing in combination a plurality of sockets, each of said recesses in said plate having an aperture extending through said plate, and an inflexible tooth formed with a rounded head mounted for universal movement in each of said sockets and extending through said aperture, said rounded head adapted for transmitting heat from said body portion to said teeth, substantially as described and for the purpose set forth.

In testimony whereof I affix my signature.

JENNIE M. PROCTOR.