W. SZLÁNYI.

HAIR WAVING PROCESS AND DEVICE.

APPLICATION FILED JUNE 2, 1920.

1,400,637. Patented Dec. 20, 1921.

2 SHEETS—SHEET 1.

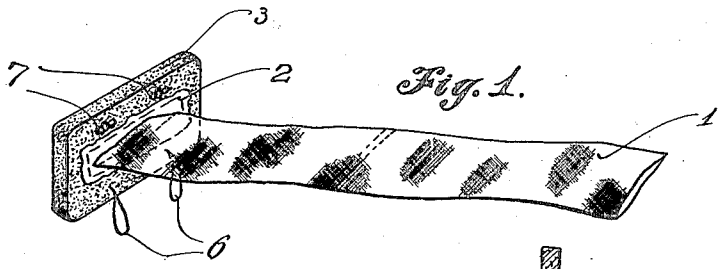


Fig. 1.

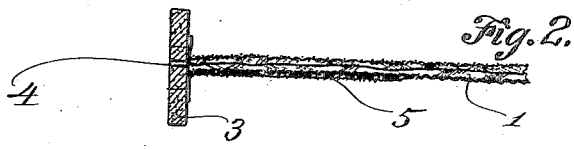


Fig. 2.

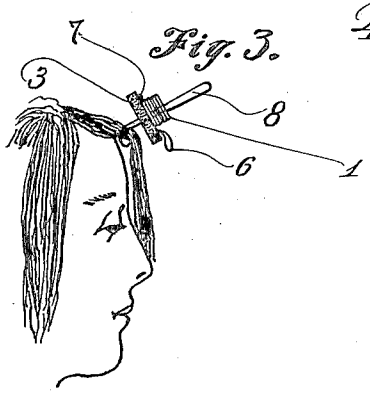


Fig. 3.

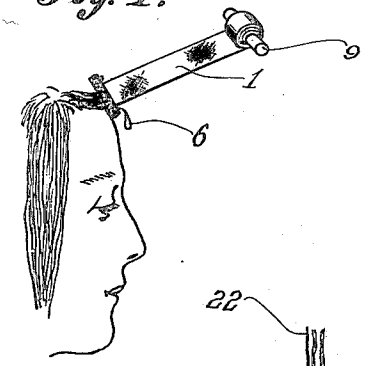


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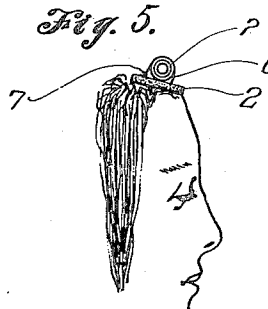


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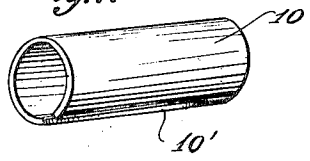


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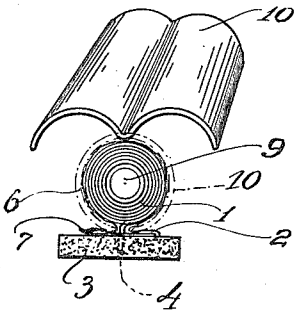


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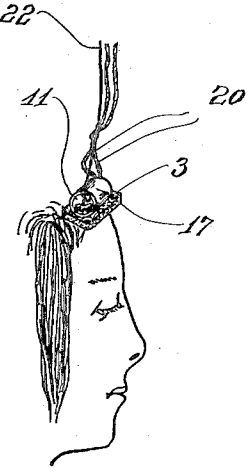


Fig. 8.

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2 SHEETS—SHEET 2.

Fig. 9.

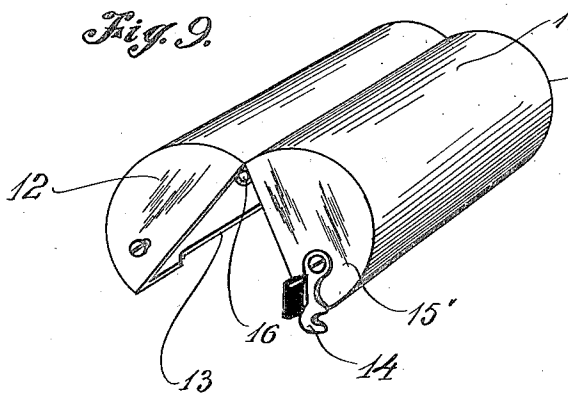


Fig. 10.

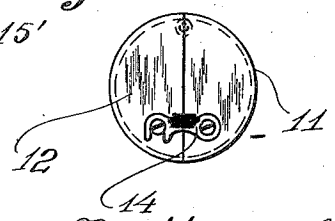


Fig. 11.

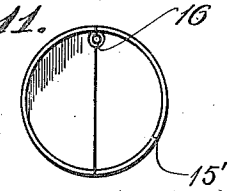


Fig. 13.

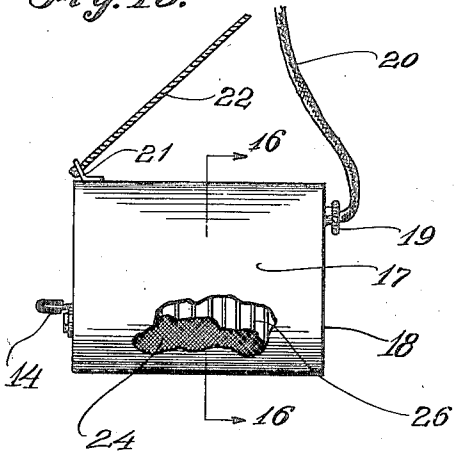


Fig. 12.

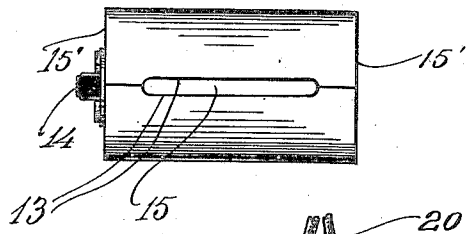


Fig. 14.

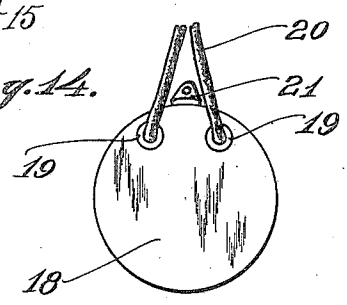


Fig. 15.

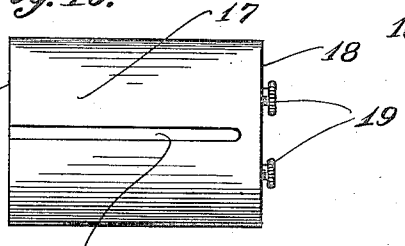
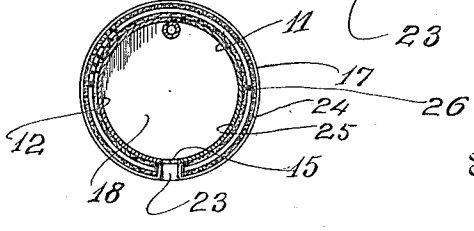


Fig. 16.



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UNITED STATES PATENT OFFICE.

WILLIAM SZLÁNYI, OF NEW YORK, N. Y., ASSIGNOR OF ONE-HALF TO CARSTEN H. KUEHL, OF HOBOKEN, NEW JERSEY.

HAIR-WAVING PROCESS AND DEVICE.

1,400,637. Specification of Letters Patent. Patented Dec. 20, 1921.

Application filed June 2, 1920. Serial No. 385,981.

To all whom it may concern:

Be it known that I, WILLIAM SZLÁNYI, a subject of Hungary, and resident of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Hair-Waving Processes and Devices, of which the following is a specification.

This invention relates to the process of permanently waving hair and a device adapted to accomplish the desired results.

The primary object of my invention is the process or method whereby permanent artificial waves of natural appearance are imparted to the hair.

Heretofore when waving hair, it was rolled in strands around a core, one twist next to the other, thus producing waves of equal length starting at the head and continuing throughout the length of the hair. Such waves look unnatural and have the tendency of twisting when the hair is released.

Through my improved method hair waves are produced which increase progressively in length, being shorter at the free end of the hair and becoming longer the nearer they are to the scalp, which makes the hair appear naturally waved. This is accomplished by rolling up the hair in spiral form.

Another object of my invention is the method of permanently waving hair in the manner described without injury to the hair.

Still another object of my invention is the method of artificially waving hair within flexible, temporary hair receivers facilitating the rolling up and waving of individual hair strands and preventing loose hair parts from interfering with the waving process, or from not being subjected thereto, or from being damaged by direct exposure to heat.

A further object of my invention is the process of artificially and permanently waving hair in progressive wave-lengths under influence of heat, for the proper length of time, without badly affecting or annoying the user by the heat.

A still further object of my invention is the method of treating hair to be progressively waved by a combination of borax vapors and steam, or vapors of other suitable media adapted to impart permanency to the waved hair.

Still other objects of the present invention are devices and the combination of devices facilitating the accomplishing of the objects of the above method.

The foregoing and still further objects will be more fully apparent from the following description and the accompanying drawing, forming part of this specification, in which:

Figure 1 represents a flexible temporary hair strand receiver.

Fig. 2 is a transversal section therethrough.

Fig. 3 illustrates the manner in which a strand of hair is passed through a collapsed receiver.

Fig. 4 illustrates the manner of rolling up a hair strand placed in a receiver.

Fig. 5 shows the rolled up strand.

Fig. 6 represents an absorbent cover to be placed around a rolled up hair strand.

Fig. 7 is a modified form of an absorbent cover.

Fig. 8 illustrates a hair strand ready for heat treatment.

Fig. 9 is a perspective view of a jacket open and ready for receiving a rolled up hair strand.

Fig. 10 is one end view of same in closed position.

Fig. 11 is the other end view thereof.

Fig. 12 is the bottom view of the closed jacket.

Fig. 13 is a side elevation of a heater partially in section slipped over the jacket.

Fig. 14 is an end view thereof.

Fig. 15 is a bottom view of the heater without the jacket.

Fig. 16 is a cross sectional view of the heater with a jacket therein taken on line 16—16 of Fig. 13.

In order to explain my improved method of permanently waving hair and giving it the appearance of a naturally waved hair I have illustrated a number of articles facilitating the accomplishing of the desired results. Be it understood however that the illustrated devices serve in the first place for explanatory purposes and since I believe

them to be original and most suited for this use, I endeavor also to claim the same as part of my invention.

Referring to the drawings, the numeral 1 indicates a hose-like flexible receiver preferably made of porous fabric and flattened so as to form a hollow band open at both ends. One end is fastened at 2 in any convenient manner to a heat insulating pad 3 having a slot 4 corresponding in length to the width of the fabric band. At one of the broad sides of the receiver, say at its bottom, a flat bag 5 is provided containing borax in powder form, or other suitable evaporative media and adapted to cover the receiver when rolled up to a coil.

For convenience sake a pair of loops 6 and hooks 7 are provided at the insulation pad 3 for keeping the rolled up receiver in its position.

The treatment of the hair takes place within receiver 1. In order to insert a hair strand, a hook-like instrument 8 is passed in the receiver and through the slot 4 of the insulation pad, the receiver fabric is folded, a strand of hair is engaged by the hook and pulled through the pad and the fabric receiver. The pad then rests upon the head. Thereafter the receiver is stretched again to its normal form and the hair is flattened out therein.

Then the thus formed band of hair within the receiver is rolled up toward the head in the longitudinal direction of the band by way of roller 9 to position indicated at Fig. 5. The roller 9 forms the core for the hair roll, which is held in place by looped cords 6 passed over the roll and fastened to hooks 7.

The borax filled bag-like bottom 5 of the rolled up receiver now covers the hair completely. An absorbent cover 10 made either in the manner illustrated in Fig. 6 or forming a cylindrical container open at one end as shown in Fig. 7, in which case a slot 10′ is provided for facilitating its being slipped sidewise over the hair roll, is soaked previously in water and placed around the hair. (see lower portion of Fig. 6). Thus provided with the damp cover a metal jacket, illustrated in Fig. 9, is placed over the roll.

This jacket is preferably made of two hinged semi-cylindrical shells 11 and 12 having recessed portions 13 at their abutting ends, forming, when closed by hook 14, a slot 15 adapted to receive the end of the hair receiver attached to the heat insulating pad.

The jacket when closed forms a container having an open end at 15′ and a bottom 15″ where hook 14 is attached. It incloses the roll completely except at the open end 15′. As may be noted, the hinge 16 of the jacket is placed within so as not to interfere with the following operation of sliding over the jacket a rheostat heater 17. This heater is a cylindrical device open at one end 17′ and having a bottom 18 provided with sockets 19 for receiving cables 20. At the open end a bracket 21 is provided to which a supporting or balancing cord 22 may be attached, by means of which the weight of the device is taken off the head of the user.

A slot 23 serves for the same purpose as do slots 10′ and 15 of the absorbent cover and the jacket respectively, namely, to receive the attached end of the flexible hair receiver.

The internal arrangement of the heater consists of a double sheeting of insulation 24 and 25 between which a resistance wire coil 26 is placed. When electric current is passed through the coil enough heat is created to vaporize the water contained in the absorbent cover and the borax enveloping the hair container.

When slipping the heater over the jacket the closed end of the latter remains at the outside while its open end is covered by the closed end of the heater. In this way the created steam and borax vapor or vapors of other suitable media adapted to impart permanency to the waved hair are forced to pass alongside the entire length of the apparatus before being allowed to escape. Depending upon the length of the hair the treatment by steam and vapor lasts from five to fifteen minutes, whereafter the apparatus is removed and the hair released from the flexible hair receiver.

From the foregoing my improved way of hair waving becomes clear. This method presents an entire new departure from the heretofore used ways of waving hair and the results obtained are natural looking waves decreasing in length toward the free end of the hair.

The devices employed are useful implements facilitating my method, their construction, however, may vary to suit different conditions or they may be displaced by any other devices accomplishing the desired results.

Having thus described my invention, I claim:

1. The process of waving hair, which comprises flattening out a hair strand within a flexible hair receiver, rolling up the flattened hair by starting at its free end and continuing in the lengthwise direction toward the head, thus forming a roll of flattened hair, covering the roll with a layer of evaporating media, surrounding the thus covered roll with a wetted cover, inclosing the roll within a receiver and heating the latter, thus creating vapor of the evaporative media and water vapor, and treating the hair roll to the desired degree.

2. The process of permanently waving hair, which comprises covering a strand of hair with a flexible fabric, forming within

the fabric a band of hair, rolling it up in longitudinal direction starting from the free hair end and forming a spiral, covering the hair spiral with borax, placing around it a damp cover, inclosing the thus covered hair roll, and heating it for the desired length of time.

3. The process of permanently artificially waving hair which comprises forming a band of hair, rolling it up in a spiral toward the head without disturbing its band-like flat form, and treating the rolled up hair band by water vapor and vapors of media adapted to impart permanency to the rolled up hair.

Signed at New York, in the county of New York and State of New York, this 20th day of May, A. D. 1920.

WILLIAM SZLÁNYI.