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WILLIAM A. GROFF, OF PHILADELPHIA, PENNSYLVANIA.

COMPOSITION OF MATTER AND METHOD OF USING THE SAME FOR PERMANENTLY WAVING HAIR.

No Drawing.

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In the art commonly known as permanent hair waving, it is the practice in the operation of waving the same to employ substances of one kind or another in order to impart to the hair a character or quality which will cause it to retain its waved or curled condition for a considerable but more or less indefinite period of time.

In the operation of imparting permanent waves to hair, it is customary to employ strips of suitable fabric, usually cotton fabric, which are wrapped about the hair and moistened during the application of heat for the purpose of imparting or fixing a so-called permanent wave in the hair.

The general object of the present invention is to provide an improved composition of matter which is in liquid form for the treatment of fabric which is afterwards employed in the permanent waving of hair.

It is also an object of the invention to provide a composition which, when employed in the operation of permanently waving hair, imparts thereto a condition by reason of which it retains its wave or curl effect for a satisfactory period of time without however imparting to the hair a harsh and unnecessarily stiff or rigid effect.

It is also an object of the invention to provide strips of fabric previously saturated with the solution constituting the said composition which strips may be employed at any future time in the process or operation of treating the hair for forming therein a so-called permanent wave or curl.

Other objects and advantages of the invention will be pointed out in the detailed description thereof or will become apparent from the said description. In the said description I shall point out the ingredients and the proportions thereof which are to be employed but it is to be understood that obvious equivalents for the said ingredients may be employed and that reasonable changes in the proportions as set forth herein may be made in the composition without departing from the spirit and scope of the invention as the same is set forth in the claims appended hereto.

In the carrying out of my invention, I first prepare one quart of a weak solution of lime water within which six ounces of salts of tartar (potassium carbonate) and four ounces of borax (sodium borate) are dissolved. This mixture, as already indicated,

is adapted to be employed for treating strips of suitable fabric, such as cotton fabric, which are approximately one and one-half inches wide by six inches long. In the treatment of these strips, twenty-five of them are saturated with two ounces of the solution produced as above set forth. After having been thus saturated with the said solution, these strips are then placed in a chamber or receptacle and are dried at a temperature of approximately one hundred and eighty degrees Fahrenheit (180° F.). The strips of fabric having been thus treated are ready for use.

It will be understood that a greater number of strips may be treated in a single operation but in such case the quantity of the solution employed for saturating the same should be correspondingly increased.

In the use of the said strips in the operation of so-called permanent hair waving, twenty-five thereof should be placed or dipped in two and one-half ounces of clear water. The said strips become saturated with the water after which they are subjected to pressure so as to squeeze out some of the water absorbed thereby. The water thus squeezed out comprises in solution a small proportion of the ingredients of the solution with which the said strips were previously treated.

In the operation of permanently waving hair, portions thereof are wound or curled about curlers or curling rods of usual construction after which the said portions are moistened with some of the solution obtained as a result of pressing or squeezing out the said strips. Such portions having been thus moistened, they are covered by the said strips which are coiled around the same. In practice, one strip is of sufficient length and width to cover each portion of hair which is coiled or curled about a curler or curling iron. A portion of hair having been inclosed or wrapped about with one of the strips is inserted into a heating device. The application of heat effects the formation of steam which thoroughly penetrates the portion of hair wound about the curler or curling iron and impregnates the hair with the ingredients of which the composition previously referred to is composed. The application of steam to the hair and the consequent impregnation of the hair with the ingredients of the said solution imparts

to it a condition which causes it to retain what is commonly known as a permanent wave, a form of hair dressing very widely employed at present by women.

5 I have discovered that by the employment of a composition such as I have described above I am enabled to effect a condition of permanency in waved or curled hair without however producing an unpleasant and
10 unattractive stiff and harsh effect. In other words, the hair remains pliable and retains its natural appearance and effect.

Having thus described my invention, what I claim and desire to secure by Letters Patent is:

15 1. A composition of matter, comprising potassium carbonate, lime, and borax in solution in water.

2. A composition of matter, comprising potassium carbonate and borax dissolved in
20 a weak solution of lime water.

3. A composition of matter, comprising potassium carbonate and borax dissolved in one quart of a weak solution of lime water in the proportions of six ounces of the salts
25 of tartar and four ounces of the borax.

4. A composition of matter, consisting of one quart of a weak solution of lime water, six ounces of potassium carbonate, and four
30 ounces of borax.

In testimony that I claim the foregoing as my invention, I have hereunto signed my name this 24th day of September, A. D., 1924.

WILLIAM A. GROFF.