

UNITED STATES PATENT OFFICE.

JOACHIM STEIN, OF NEW YORK, N. Y.

PROCESS OF BLEACHING HAIR.

SPECIFICATION forming part of Letters Patent No. 261,270, dated July 18, 1882.

Application filed May 20, 1882. (No specimens.)

To all whom it may concern:

Be it known that I, JOACHIM STEIN, a citizen of Bohemia, Austria, residing at New York, in the county and State of New York, have invented a new and useful Process for Bleaching Hair, of which the following is a complete, full, and exact specification.

My invention relates to an improved process for bleaching first-class human hair in such a manner that the resultant color shall be white instead of blonde or yellow, which is the color produced by the use of the many processes for bleaching hair now known.

My process of bleaching is composed of two steps. In the first place, for every pound of hair I employ one pound of the peroxide of hydrogen, which is mixed well with one-sixteenth part of ammonia. After this solution is made the next step is to take one-quarter of a pound of the peroxide of hydrogen and mix it with one ounce of the cream of tartar dissolved in one ounce of soda. This forms the second solution. These two solutions are then mixed, and the hair is thoroughly saturated with the mixture and allowed to remain in it three hours. Then the hair is removed and washed in clean water with what is commonly known as "soapine," in a bath made of pottery or clay. When the hair is thoroughly dried, this process is repeated for fifteen or sixteen

times, but after the twelfth process, and with each succeeding process thereafter, the hair must be thoroughly mixed and shaken up. When the hair has been subjected to this process for sixteen times it is then drawn through a solution of blue aniline and alcohol.

By means of this process and these mixtures the hair is made white instead of yellow. The addition of cream of tartar preserves the natural softness of the hair and prevents it from becoming stiff or from breaking.

What I claim, and desire to secure by Letters Patent, is—

1. The herein-described process of bleaching hair, which consists, first, in saturating it with a mixture composed of two solutions, one of peroxide of hydrogen and ammonia and the other of peroxide of hydrogen and cream of tartar, in the proportions indicated, and then in passing it through a solution of blue aniline and alcohol, in the manner and for the purposes described.

2. The composition consisting of peroxide of hydrogen and cream of tartar, as and for the purposes described.

JOACHIM STEIN.

Witnesses:

REGINALD HART,
F. H. ANGIER.