

UNITED STATES PATENT OFFICE.

ERNEST MEILL, OF HAWTHORNE, NEW JERSEY, ASSIGNOR TO WEIDMANN SILK DYEING CO., OF PATERSON, NEW JERSEY, A CORPORATION OF NEW JERSEY.

PROCESS OF PRESERVING TIN-WEIGHTED SILK.

1,050,157.

Specification of Letters Patent.

Patented Jan. 14, 1913.

No Drawing.

Application filed May 18, 1911. Serial No. 627,996.

To all whom it may concern:

Be it known that I, ERNEST MEILL, a citizen of the United States, residing at Hawthorne, in the county of Passaic and State of New Jersey, have invented a certain new and useful Process of Preserving Tin-Weighted Silk, of which the following is a specification.

In the weighting of silk by methods involving the use of tin solutions it is found that the silk sooner or later loses its strength, which undesirable result is more especially likely to follow if the silk is exposed to light and air.

The object of my present invention is to prevent the weakening of the silk weighted in this way, and I have ascertained that by following the method now to be described this may be effectually accomplished, the silk being preserved so that its strength remains substantially unimpaired by the weighting process.

A one (1) per cent. solution of a hydrazin salt, preferably hydrazin acetate, is first prepared. With this solution the silk, already weighted and dyed, or at least weighted, is treated, being thoroughly impregnated with the same. The silk is then dried by "whizzing" it in a centrifugal

machine or "whiz," or otherwise, whereupon it will be found not only to possess substantially its original strength but to retain it, so that after a sufficient time shall have passed to bring about the decay of silk untreated by my method the silk so treated will be substantially as strong as it was when it emerged from the treatment.

Having thus fully described my invention what I claim is:

1. The herein described method of preserving tin weighted silk which consists in treating the same with a solution of a member of the hydrazin group, substantially as described.

2. The herein described method of preserving tin weighted silk which consists in treating the same with a solution of hydrazin salt, substantially as described.

3. The herein described method of preserving tin weighted silk which consists in treating the same with a solution of hydrazin acetate, substantially as described.

In testimony whereof I affix my signature in presence of two witnesses.

ERNEST MEILL.

Witnesses:

JOHN W. STEWARD,
WM. D. BELL.

Copies of this patent may be obtained for five cent. each, by addressing the "Commissioner of Patents, Washington, D. C."