

UNITED STATES PATENT OFFICE.

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METHOD OF MAKING AND SIZING AN IMITATION-METAL LEAF.

1,011,443.

Specification of Letters Patent.

Patented Dec. 12, 1911.

No Drawing.

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To all whom it may concern:

Be it known that I, WALTER A. KER, a citizen of the United States, and resident of the borough of Brooklyn, in the city and State of New York, have invented a new and useful Method of Making and Sizing an Imitation-Metal Leaf, of which the following is a specification.

My invention consists in the method of forming an imitation metal leaf and applying the coating of size thereto.

The object of my invention is to provide an imitation metal leaf with a coating of size upon one of its sides so as to permit the ready application and adherence of the leaf to the article which is to be embossed or decorated thereby obviating the necessity of a subsequent application of a coat of size to the imitation metal leaf or the application of a coating of size to the article to be embossed or decorated before the imitation metal leaf is applied thereto.

In the formation and coating of the leaf, I combine a volatile solvent with a fiber which acts as a binder and with a coloring matter and pour the same onto a size containing liquid heavier than the volatile solvent, and permit the volatile solvent to evaporate. The substances which I have found suitable for use and the proportions of the same are substantially as follows. I dissolve in about one hundred and fifty gallons of water, two pounds of egg albumen and two pounds of hide glue, which solution is confined in a suitable vessel of the desired size and shape. I combine one quarter of a pound of what is commonly known in the art as soluble cotton, in liquid form, in one gallon of what is commonly known in the art as amyl oil. To this solution I add a coloring matter, such, for instance, as bronze if it is desired to form an imitation gold leaf, and thoroughly mix the same, the proportions being substantially four parts of the solution of cotton and amyl oil to one part of the bronze. This mixture is then poured on to the size containing water confined in the vessel above referred to. A thin leaf is rapidly formed on the surface of the size containing water by evaporation of the amyl oil. The formation of the leaf occurs in a very short time, viz: within a few minutes. The leaf may then be removed from the surface of the size containing water and its side which was in contact with the size contain-

ing water will be found to have a coating of size.

While I have set forth herein certain ingredients and proportions of ingredients for producing a sized imitation metal leaf, still I do not wish to limit myself to the exact ingredients stated, nor to the proportions as set forth herein. For instance, I may use another kind of size than that herein described and yet produce good results.

What I claim is:

1. The method for the manufacture of imitation metal leaf and the application of a coating of size to one side thereof, consisting in spreading an imitation metal leaf solution upon the surface of a size containing liquid to form a thin leaf and removing the leaf from the surface of the size containing liquid.

2. The method for the manufacture of imitation metal leaf and the application of a coating of size to one side thereof, consisting in combining a volatile solvent, a fiber which acts as a binder, and a coloring matter, and spreading the same upon the surface of a size containing liquid to form a thin leaf and removing the leaf from the surface of the size containing liquid.

3. The method for the manufacture of imitation metal leaf and the application of a coating of size to one side thereof, consisting in combining soluble cotton, a volatile solvent and a coloring matter and spreading the same upon the surface of a size containing liquid to form a thin leaf and removing the leaf from the surface of the size containing liquid.

4. The method for the manufacture of imitation metal leaf and the application of a coating of size to one side thereof, consisting in combining soluble cotton, amyl oil, and a coloring matter, spreading the same upon the surface of a size containing liquid to form a thin leaf and removing the leaf from the surface of the size containing liquid.

In testimony, that I claim the foregoing as my invention, I have signed my name in presence of two witnesses, this twenty-sixth day of September 1910.

WALTER A. KER.

Witnesses:

F. GEORGE BARRY,
HENRY C. THIEME.