

UNITED STATES PATENT OFFICE.

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THIN LEAF OR FABRIC AND METHOD OF MAKING THE SAME.

No. 828,781.

Specification of Letters Patent.

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To all whom it may concern:

Be it known that I, HENRY R. GREGORY, a citizen of the United States, and a resident of the borough of Brooklyn, in the city and State of New York, have invented a new and useful Thin Leaf or Fabric and the Method of Making the Same, of which the following is a specification.

My invention consists in the method of forming a thin leaf or fabric which is made to imitate metal leaf—such, for instance, as gold-leaf, silver-leaf, and the like—which leaf is suitable for use in embossing and decorative purposes generally, the leaf being extremely tenacious and capable of being more easily handled than the gold or other metal leaf itself.

In carrying out my method I combine a volatile solvent, a fiber which acts as a binder, and a coloring-matter and form a leaf therefrom by pouring the same onto a liquid heavier than the volatile solvent and permitting 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 one-quarter of a pound of what is commonly known in the art as "soluble cotton" 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 then 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 poured onto water confined in a vessel. A thin leaf or fabric is rapidly formed on the surface of the water by the evaporation of the amyl-oil, thus leaving the cotton fiber impregnated with the coloring-matter. This 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 water and cut up into the desired sizes.

What I claim is—

1. The method of forming a thin leaf or

fabric comprising the following steps: combining a volatile solvent, a binder and a coloring-matter and pouring the same onto a liquid heavier than the volatile solvent.

2. The method of forming a thin leaf or fabric comprising the following steps: combining a volatile oil, a binder and a coloring-matter and pouring the same onto a liquid heavier than the oil.

3. The method of forming a thin leaf or fabric comprising the following steps: combining a volatile solvent, soluble cotton and a coloring-matter and pouring the same onto a liquid heavier than the volatile solvent.

4. The method of forming a thin leaf or fabric comprising the following steps: dissolving soluble cotton in a volatile oil, adding a coloring-matter thereto and pouring the same onto a liquid heavier than the oil.

5. The method of forming a thin leaf or fabric comprising the following steps: dissolving soluble cotton in amyl oil, adding a coloring-matter thereto and pouring the same onto a liquid heavier than the oil.

6. The method of forming a thin leaf or fabric comprising the following steps: dissolving soluble cotton in amyl-oil, adding bronze thereto and pouring the same onto a liquid heavier than the oil.

7. The method of forming a thin leaf or fabric comprising the following steps: dissolving soluble cotton in amyl-oil in substantially the following proportions; one-quarter pound of soluble cotton to one gallon of amyl-oil and combining therewith a coloring-matter in the proportions of one part of coloring-matter to four parts of the solution and pouring the same onto a liquid heavier than the oil.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of two witnesses, this 30th day of January, 1906.

HENRY R. GREGORY.

Witnesses:

HENRY THIEME,
F. GEORGE BARRY.