

# UNITED STATES PATENT OFFICE.

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## GILDING PROCESS.

SPECIFICATION forming part of Letters Patent No. 229,427, dated June 29, 1880.

Application filed February 14, 1880.

*To all whom it may concern:*

Be it known that we, NICHOLAS C. N. LAURENSE and ERNEST G. MATZKA, of Detroit, Wayne county, and State of Michigan, have  
5 invented a new and Improved Gilding Process, of which the following is a specification.

The object of this invention is to apply gilding and bronzing powders of all kinds to moldings and other objects in a more expeditious,  
10 economical, and effective manner than is now practiced.

The invention consists in mixing the gilding or bronzing powders with a solution of chlorine, alcohol, turpentine, diluted acetic acid,  
15 or any liquid or liquid compound with which the powders can be incorporated, so that they can be applied to the moldings or other objects with a brush, and when dry can be burnished, the liquid compound being made adhesive by  
20 the addition of a small quantity of glue, isinglass, gelatine, flour, or any other soluble sticky or adhesive substance that will readily dissolve in said compound and not impair its burnishing quality.

25 In the ordinary process of gilding or bronzing with powders it is necessary to give the whitened surface of the molding or other object one or more coats of gold-size, and after that is dry to apply a coat of starch or other  
30 size, and before this last is dry the dry powder is applied and then rubbed down, and must stand some time before burnishing. In this process much of the light dry powder floats in the air and is inhaled, to the injury of those  
35 handling it; and besides this, much of the powder is lost.

In the new process, herein described, the moldings or other objects are coated with whiting. The gilding or bronzing material, in  
40 liquid form, is then applied with a brush, and when dry is burnished when and where desirable, and, finally, if desired, a gold lacquer is applied to give it a finish.

The advantages of this process over others  
45 are that the object to be gilded does not require any preparation, as the liquid gilding or bronzing compound may be applied directly to the whitened surface of the molding or other object.

50 This process requires no more labor than would be required in using ordinary paint,

whereas in other processes the services of expert operators are necessary.

The covering formed by the gilding or bronzing powders applied in this manner is more  
55 durable than that formed by powders applied in the usual manner, and more durable even than the covering of gold or silver leaf, because the liquid evaporates, leaving a firm hard surface of metal that is not easily marred  
60 or susceptible to atmospheric changes.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

1. The within-described process of applying  
65 gilding or bronzing powders to moldings, which process consists in first mixing the gilding or bronzing powder with a solution of chlorine, alcohol, turpentine, diluted acetic acid, or any liquid or liquid compound with which  
70 the powder can be incorporated, in then adding thereto glue, isinglass, gelatine, or other soluble adhesive substance, and in then applying the mixture with a brush, substantially as herein described.

2. The within-described process of gilding,  
75 which process consists in applying with a brush to the whitened surface of the object to be gilded or bronzed the bronzing or gilding powder incorporated with chlorine, alcohol, turpentine, diluted acetic acid, or liquid or liquid  
80 compound to which glue, isinglass, gelatine, or other soluble adhesive substance has been added, and burnishing the said gilt or bronze when dry, substantially as herein specified.

3. The within-described process of gilding,  
85 which process consists in applying with a brush to the whitened surface of the object to be gilded or bronzed the bronzing or gilding powder incorporated with chlorine, alcohol, turpentine, diluted acetic acid, or other liquid or liquid  
90 compound to which glue, isinglass, gelatine, or other soluble adhesive substance has been added, and in burnishing the said gilt or bronze when dry, and then applying a gold  
95 lacquer, substantially as herein described.

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Witnesses:

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ALEXANDER S. GRAY.