

# UNITED STATES PATENT OFFICE

SAMUEL W. STEELE AND JOSEPH BAYER, OF NORTHFIELD, VERMONT.

## IMPROVEMENT IN PROCESSES OF MARBLEIZING SURFACES.

Specification forming part of Letters Patent No. **167,034**, dated August 24, 1875; application filed January 14, 1874.

*To all whom it may concern:*

Be it known that we, S. W. STEELE and JOSEPH BAYER, of Northfield, in the county of Washington and State of Vermont, have invented a certain compound or compounds, and the process of applying them for marbleizing, of which the following is a specification:

In carrying out our invention, first take one gill of spirits of turpentine, one gill of boiled oil, two ounces of gunpowder, two ounces of saltpeter, one quart beef's gall; mix, and grind with one pound of any dry paint desired for the groundwork. With this mixture first paint the article to be marbleized, and let it thoroughly dry. Second, take one gill of boiled oil, one gill of spirits of turpentine, two quarts of nitric acid; mix, and grind with one-half pound of dry coloring matter of the color desired for the veins of the marbleized surface. If veins of different colors are desired, make this last mixture of two or more colors, to be applied as hereinafter described. Third, take five gallons of soft water, one pound of gum-arabic, one pound of brown sugar, four ounces neat's-foot glue, and two quarts of beef's gall; mix well together, and allow it to stand for twenty-four hours in a tank or vessel large enough to admit the surface of the article to be marbleized.

For every square foot of surface desired to be marbleized take five quarts of the second, or No. 2, mixture, and place it carefully

upon the surface of the mixture No. 3 in the large tank or vessel. Then take the article to be marbleized, after it has been painted with mixture No. 1, as hereinbefore described, and bring the surface that is required to be marbleized in contact with the two mixtures in the tank or vessel—No. 2 on the surface of No. 3. Then the article is marbleized with veins representing the kind of marble desired to be imitated.

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

1. The series of compositions for marbleizing surfaces, consisting, essentially, of the following-named ingredients, to wit: No. 1, spirits of turpentine, boiled oil, gunpowder, saltpeter, beef's gall, and coloring matter; No. 2, spirits of turpentine, boiled oil, nitric acid, and coloring matter; and, No. 3, gum-arabic, sugar, glue, beef's gall, and water, in the proportions substantially as and for the purposes set forth.

2. The process of marbleizing surfaces, consisting, essentially, of first painting the same with composition No. 1, and then dipping in composition No. 3, upon which has been floated composition No. 2, substantially in the manner and for the purpose described.

S. W. STEELE.  
JOSEPH BAYER.

Witnesses:

J. C. GALLUP,  
WM. H. HATTON.