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(Model.)

E. KEGREISZ.

MANUFACTURE OF ENAMELED IRON WARE.

No. 279,094.

Patented June 5, 1883.



WITNESSES

Wm A. Skinkle
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INVENTOR

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UNITED STATES PATENT OFFICE.

EMILE KEGREISZ, OF WOOD HAVEN, ASSIGNOR TO THE LALANCE & GROSJEAN MANUFACTURING COMPANY, OF NEW YORK, N. Y.

MANUFACTURE OF ENAMELED IRON-WARE.

SPECIFICATION forming part of Letters Patent No. 279,094, dated June 5, 1883.

Application filed February 12, 1883. (Model.)

To all whom it may concern:

Be it known that I, EMILE KEGREISZ, a citizen of the United States, residing at Wood Haven, in the county of Queens and State of New York, have invented a certain new and useful Improvement in the Ornamentation of Enameled Iron-Ware, of which the following is a specification.

My invention relates to the process of enameling iron-ware; and it consists in an improved method of giving a variegated appearance to the ware after the same has been coated or enameled by the usual process.

In the manufacture of white enameled iron-ware by the usual process it frequently happens that dark spots appear upon the surface of the enameled article, which practically destroy its beauty and render it unfit for commercial purposes, although it is in no wise injured for actual use.

For the purpose of restoring the commercial value of the imperfect article by beautifying its surface, I have devised a process of recoating the same with a colored liquid, in such a manner as to give an irregularly mottled appearance to the article, which conceals the spots appearing upon the previously white surface, and produces a new article of manufacture of greatly enhanced beauty and value.

The accompanying drawing illustrates a teapot enameled in accordance with my invention, and the process by which it is coated will now be described.

The article, having been formed of iron or other metallic substance by casting or otherwise, is subjected to the well-known process of enameling for producing a white or other plain colored surface. After the ordinary process of enameling has been completed, I prepare a thin glaze composed of any coloring-matter that can be made to remain mechanically suspended a short time in water, and apply it to the article, preferably either by immersing the latter in a tank containing said glaze, or by pouring the glaze upon the article. The glaze should be made sufficiently thin to avoid being pasty, so that it will freely spread or run over the surface. After the article has been submitted to the second bath of thin glaze, the latter will be found to separate and coagulate in irregular spots upon the smooth surface formed by the first coating of glaze. These spots are composed of varying thicknesses,

causing each spot to present various shades of the coloring-matter used. By varying the thickness of the second coating of glaze its density in shade when applied to the vessel will be correspondingly varied. I have produced very fine effects with a blue glaze upon a white enameled surface; but other colors may be used, either upon a white ground or the other plain colors obtained by the ordinary process of enameling. Two or more colors may be used for the glaze, and thus a great variety of irregularly-colored surfaces be produced, according to the taste or fancy of the designer. After the application of the glaze, the article is placed in a drying-oven heated to a temperature of about 130° Fahrenheit, and is kept there until the glaze is approximately dry, when it is removed to the oven or muffle employed in the well-known enameling processes, where it is a second time fired, as in the usual process of enameling.

My invention therefore enables me to give an attractive appearance to articles which have been rendered imperfect during the ordinary process of enameling, and to produce a new article of manufacture of much greater commercial value at a small additional cost.

I claim as my invention—

1. The hereinbefore-described process of enameling and ornamenting metal ware, which consists in first covering the body of the article with a glaze of any suitable plain color, firing the same, then applying to the surface, an additional coating or partial coating of glaze of a different color from the first, the glaze constituting the second coating or partial coating being of such a consistency as to coagulate in irregular spots upon the surface, and again firing, as set forth.

2. As a new article of manufacture, an enameled vessel presenting a mottled or variegated surface of two or more colors, produced by the coagulation in irregular spots of one or more of the coatings of glaze, substantially as set forth.

In testimony whereof I have hereunto subscribed my name this 8th day of February, A. D. 1883.

EMILE KEGREISZ.

Witnesses:

JAMES COCHRAN,
LEWIS L. FOSDICK.