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J. W. YOUNG.

METHOD OF DECORATING POTTERY.

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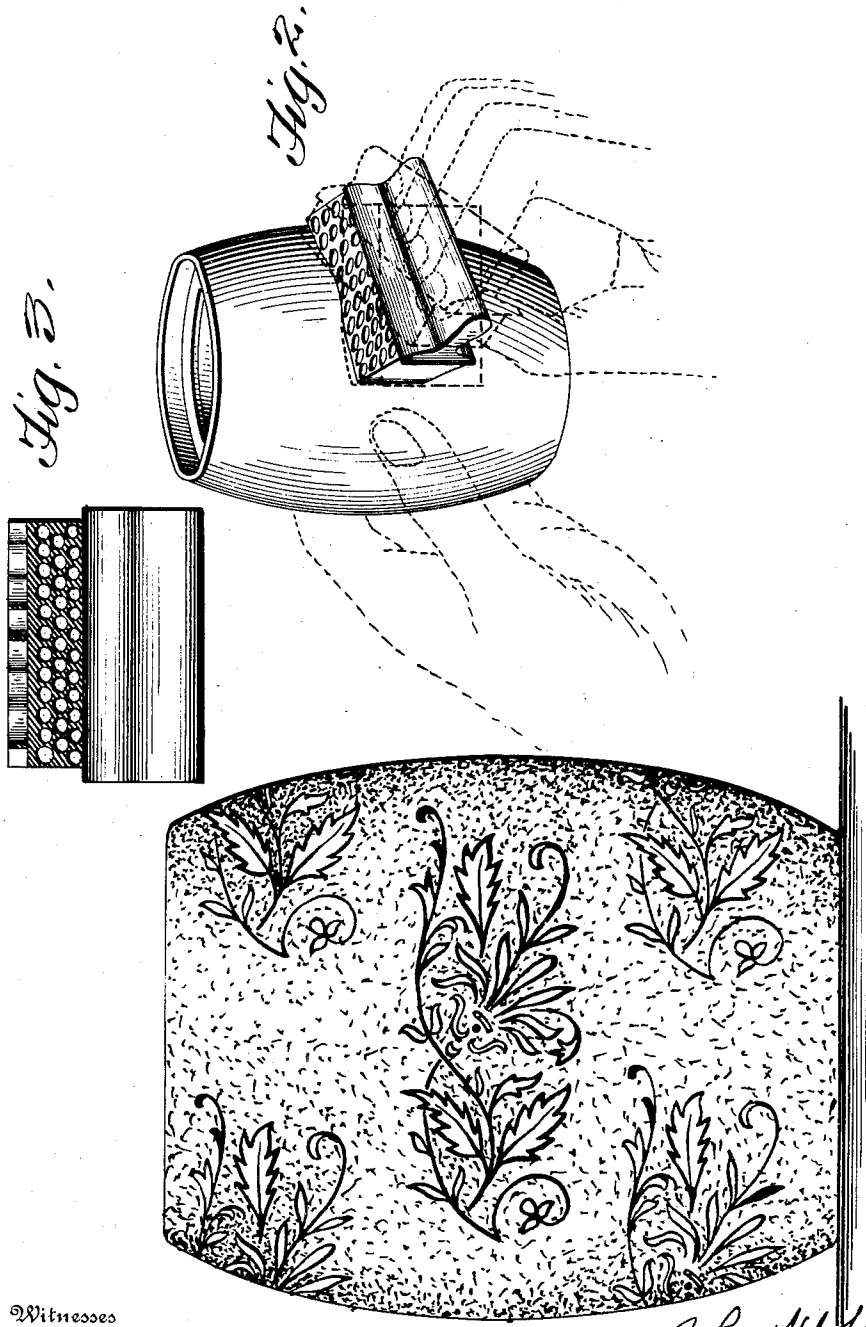


Fig. 2.

Fig. 3.

Fig. 1.

Witnesses

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METHOD OF DECORATING POTTERY.

No. 838,155. Specification of Letters Patent. Patented Dec. 11, 1906.

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To all whom it may concern:

Be it known that I, JOHN W. YOUNG, a citizen of the United States, residing at Zanesville, in the county of Muskingum and State of Ohio, have invented certain new and useful Improvements in Methods of Decorating Pottery; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to new and useful improvements in the method of decorating earthenware; and the object of the invention is to produce an ornamental ware with but a single firing of the material, thereby producing crockery having an underglazed ornamental design, comparing favorably with the ordinary twice-fired white Bristol glass or Holland ware.

In the manufacture of stone and other earthenware it has been the practice to apply the decorations by the employment of plain prints or those filled in by pencil or decalcomania prints, which are applied to the pottery after the glazing of the latter and which requires a second firing, or to apply the designs by transferring the same from a plate upon which the design is engraved or otherwise formed by filling the design with a coloring-matter which is transferred from the plate direct to the surface of the crockery, and afterward the crockery is dipped in a glaze and fired, and when it is desired to apply open-work designs or filled-in patterns to produce different colors it has been the practice to apply a portion of the design and afterward fill in by pencil parts of the design, and which necessitates also a second burning.

To obviate the expense of a second burning and to produce a result which is an advance step in the art, I have found by extensive experimenting that it is possible to apply the design to the pottery in a green state by the use of an especially-constructed stamp having the design in bold relief and very elastic, whereby the coloring material may be applied with slight pressure to the curved surface of the pottery, such as thin table or toilet ware, (which in a green state would not permit of its being decorated by the usual methods,) after which the article is dipped in a glaze and fired, thereby producing an ornamental ware at a much less expense than wares of this nature heretofore produced.

My invention is illustrated in the accompanying drawings, in which—

Figure 1 represents a piece of crockery illustrating an ornamentation which has been applied thereto while in a green state by the application of a stamp with the design in high relief, the stamp being of a flexible nature in order that the design may be applied to either convexed or concaved surfaces. Fig. 2 illustrates the manner of application of the design, and Fig. 3 is a sectional view through the stamp and cushion provided therefor.

In carrying out the steps of my method, the crockery of earthenware, and especially of the thinner goods, such as tableware, &c., is molded in the shape desired, and while in a green state the ornamentation is applied. The design to be transferred to the surface of the crockery is first formed in the shape of a rubber stamp with the outlines of the design in high relief and mounted upon a soft cushion which will allow the various parts of the design to yield when the design is applied to either a convexed or a concaved surface of the crockery. In applying the design it is very essential that these conditions obtain in order to apply the design satisfactorily, and in order to prevent the stamp from slipping a portion of the design, preferably the central part thereof, is first applied to the convexed or concaved surface of the crockery and light pressure applied to the stamp sufficient to cause the design to be transferred to the damp surface of the green crockery before being fired. By tilting the stamp back and forth upon the surface of the crockery a true design may be transferred without any slipping or crushing the green ware.

When it is desired to apply an open-work design to the surface of the crockery, the design may be filled in in different colors of material by separate stamps, thereby dispensing with the penciling in of the colors, as is commonly the practice, or by applying the design by the more expensive methods of using the transfer designs, which, as before stated, require the second firing of the crockery, and hence entailing a considerable extra expense in the manufacture of the ware.

By the method of ornamenting crockery in accordance with my invention I have

found that a very ornamental earthen crockery may be produced by a single firing, the equal of which has not been heretofore produced, and as a consequence has placed the product of my invention in great demand.

What I claim is—

1. The method of decorating pottery consisting in applying the decoration to the surface of the pottery while in a green state by means of a soft yielding stamp, and afterward immersing the decorated article in a glazing, and firing the same, as set forth.

2. The method of decorating pottery, consisting in coating the printing-surface of a soft-cushion stamp, having a design in high relief, with a suitable printing material, then causing the coated surface of the design to contact yieldingly against the curved surface of the crockery in a green state, and afterward applying a glazing and firing the same, as set forth.

3. A method of producing white Bristol decorated underglazed ware, consisting in applying the decoration to the surface of the ware while in a green state, by means of a soft yielding stamp, and afterward immersing the decorated article in a glazing and firing the same, as set forth.

4. A method of producing white Bristol decorated underglazed ware, consisting in coating the printing-surface of a soft-cushioned stamp, having a design in high relief, with a suitable printing material, then causing the coated surface of the design to contact yieldingly against the curved surface of the ware in a green state, and afterward applying a glazing and firing the ware, as set forth.

In testimony whereof I hereunto affix my signature in the presence of two witnesses.

JOHN W. YOUNG.

Witnesses:

A. L. HOUGH,

R. A. BOSWELL.