

# UNITED STATES PATENT OFFICE.

WILLIAM H. WILKINSON AND GEORGE WILKINSON, OF BIRMINGHAM,  
ENGLAND.

COLORS ORNAMENTATION OF ELECTROPLATED AND OTHER GOODS.

SPECIFICATION forming part of Letters Patent No. 228,150, dated May 25, 1880.

Application filed April 3, 1880. (No model.) Patented in England October 11, 1879.

*To all whom it may concern:*

Be it known that we, WILLIAM HENRY WILKINSON and GEORGE WILKINSON, of Birmingham, England, (trading as J. WILKINSON & SON, electroplate-manufacturers,) have invented certain new and useful Improvements in the Colored Ornamentation of Electroplated and other such like Goods; and we hereby declare the same to be fully, clearly, and exactly described as follows:

Our invention has reference to colored ornamentation of electroplated and other such like goods, such as wares and jewelry, and for rendering them untarnishable, and is applicable to articles manufactured in the usual way from either German silver, (otherwise called "nickel silver," ) sterling silver, britannia metal, brass, or any other similar alloy or suitable material.

According to our invention, the article is first electroplated with nickel or other metal or gilt, or partially electroplated and partially gilt, either bright, in the usual way, and burnished or frosted white, which will depend upon the design intended to be produced upon the article; or, in the case of such material as may not previously require electroplating or gilding, the surface of the article must be suitably prepared by polishing or other such means to produce a clean surface.

Immediately the electroplating, gilding, or other process is completed, we flood the article all over with a strong coat of varnish, generally made from gums and oils, or other suitable varnish. We then place the article thus varnished in an oven heated to, say, a temperature of 200° Fahrenheit, which varies according to the kind of varnish used; but the varnish must be baked on perfectly hard. We then rub it down with fine rotten-stone or pumice-stone until the surface is perfectly smooth, when it is ready to receive the ornamentation, which we apply by hand. Painting or coloring or printing, or any such like known means, may be used for producing any desired effect or design. The article is then again

passed into an oven, and the coloring and ornamentation burned in until it becomes perfectly hard and secure. It may then be carefully smoothed over with pumice-stone or other similar substance, or other processes may be resorted to, in order to remove any irregularities from the surface, and may then be revarnished, and again exposed to heat in a suitable oven, until the whole surface is perfectly fixed, after which it should be burnished or polished all over with very smooth fine pumice or rotten stone, to give the desired gloss or glaze.

By these means we are able to produce such articles, either illuminated in color and glazed all over, or only glazed over the illuminated part; or, when preferred plain, we accomplish the glazing without the ornamentation; but in articles which are glazed all over the glazing has the effect of rendering them perfectly untarnishable.

Thus we can supply most beautifully-ornamented articles at a cheap rate, which will be enduring in their pleasing appearance without the endless cleaning usually required for such goods.

Articles glazed and ornamented as before described we propose calling "Pellican Ware."

Having now described the nature of our said invention, and the manner of carrying the same into practice, we would have it understood that we claim—

The process herein described of ornamenting metallic or electroplated ware, consisting in varnishing the same, decorating by hand painting, printing, or coloring in any desired design, burning in the design so formed, and revarnishing and finishing, as set forth.

In testimony that we claim the foregoing as our own we affix our signatures in the presence of two witnesses.

WILLIAM HENRY WILKINSON.  
GEORGE WILKINSON.

Witnesses:

GEORGE BARKER,  
GEORGE PRICE.