UNITED STATES PATENT OFFICE.

HENRY ABBOTT, OF NEWARK, NEW JERSEY, ASSIGNOR OF THREE-FOURTHS TO WINTON C. GARRISON, OF SAME PLACE, AND THE ELGIN NATIONAL WATCH COMPANY, OF CHICAGO, ILLINOIS.

ORNAMENTING ENAMELED OR GLAZED SURFACES.

SPECIFICATION forming part of Letters Patent No. 309,914, dated December 30, 1884.

Application filed January 12, 1884. (No specimens.)

To all whom it may concern:

Be it known that I, HENRY ABBOTT, of Newark, in the county of Essex, and in the State of New Jersey, have invented certain new and useful Improvements in Ornamenting Enameled or Glazed Surfaces; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention relates to the preparation of transfer-films for use in the ornamentation of glazed or enameled surfaces; and it consists in the method of filling the lines of an engraved or etched plate preparatory to the flowing thereon the liquid substance which forms the film, substantially as hereinafter specified.

In the preparation of transfer-films the desired design is engraved or etched upon a plate, preferably copper, and the lines or sunk portions of the same then filled with colored material and liquid collodion or other analogous substance flowed over the same and caused to permeate and become thoroughly incorporated with said colored material, after which said collodion is permitted to harden, and is then removed, taking with it the design in color.

Many methods have been used for filling the sunk portions of the design-plate; but none have proved as expeditious and satisfactory as the following, viz: The engraved plate is placed upon and caused to revolve slowly with a horizontal disk, and the color-paint is, by means of a brush held in contact with the surface of said plate, easily and quickly applied to each part of the engraved portion of the latter. The motion of said plate beneath said brush causes the sunk portions to be thoroughly and evenly filled, and after permitting said paint to dry such as adheres to the plain surface of said plate may be easily removed and the latter left in condition for the flowing of the liquid collodion.

Having thus fully set forth the nature and merits of my invention, what I claim as new is—

As an improvement in the production of transfer-films, the method employed for filling the lines of an engraved or etched plate with colored material by causing said plate to revolve slowly in a horizontal plane and applying to its surface a brush filled with said colored material, substantially as specified.

In testimony that I claim the foregoing I have hereunto set my hand this 19th day of December, A. D. 1883.

HENRY ABBOTT.

Witnesses:

GEO. S. PRINDLE,

L. L. WOOLLEY.