

# 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 New-  
ark, in the county of Essex, and in the State  
of New Jersey, have invented certain new  
5 and useful Improvements in Ornamenting  
Enameled or Glazed Surfaces; and I do here-  
by declare that the following is a full, clear,  
and exact description thereof.

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

In the preparation of transfer-films the de-  
sired design is engraved or etched upon a plate,  
preferably copper, and the lines or sunk por-  
20 tions of the same then filled with colored ma-  
terial 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  
25 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  
30 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 sur-  
face of said plate, easily and quickly applied  
to each part of the engraved portion of the 35  
latter. The motion of said plate beneath said  
brush causes the sunk portions to be thor-  
oughly and evenly filled, and after permitting  
said paint to dry such as adheres to the plain  
surface of said plate may be easily removed 40  
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— 45

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 re-  
volve slowly in a horizontal plane and apply- 50  
ing to its surface a brush filled with said col-  
ored 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.