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. 309,913, 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 ornamenting of enameled or glazed surfaces by means of a transparent film upon or within which is a design in color; and it consists in the method of applying a transfer-film to a watch-dial or other like article without liability to injury from the adhesive liquid employed, substantially as hereinafter specified.

In the use of a transfer-film of collodion, I take the same, backed by wet paper, and apply it to the surface to be ornamented, which surface has previously been coated with an adhesive preparation or varnish that is soluble in water, but not in alcohol or ether. Pressure is now applied to the paper backing for the purpose of forcing said film into intimate contact with the varnished surface and to expel all air from between the same, during which operation the surplus varnish is pressed outward, and by capillary attraction is liable to be drawn upward between said film and its paper backing, in which event it will prevent the subsequent dissolution of such portions of the film as it covers exteriorly by shielding the same from contact with the solvent employed for such purpose. To prevent such movement of the varnish, I place beneath the dial or other like article being ornamented a sheet of absorbent paper, and cause the latter to extend outward beyond the edges of the former, by which means all of the surplus varnish forced outward will be absorbed by said underlying paper, leaving none to be drawn over the transfer-film. After use said paper will usually be partly or entirely saturated from its edges to its center, and it will be readily seen that the harmless disposition of such surplus varnish is an important feature in the process of transferring designs.

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

The method of securing transfer-films upon watch-dials or other like articles, consisting, first, in placing beneath such article a sheet of absorbent paper, then coating the upper surface of said article with an adhesive liquid, then applying thereon the transfer-film backed with paper, and, lastly, applying pressure to the back of said film to expel the surplus adhesive solution and produce close contact between said film and the underlying surface, substantially as specified.

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

HENRY ABBOTT.

Witnesses:

GEO. S. PRINDLE,

L. L. WOOLLEY.