

UNITED STATES PATENT OFFICE.

HENRY C. WENZLAWSKI AND ADOLPH MÜLLER, OF SYRACUSE, NEW YORK.

IMPROVEMENT IN PROCESSES OF PREPARING AND ORNAMENTING PHOTOGRAPHIC PLATES.

Specification forming part of Letters Patent No. **148,269**, dated March 3, 1874; application filed February 24, 1873.

To all whom it may concern:

Be it known that we, HENRY C. WENZLAWSKI and ADOLPH MÜLLER, of Syracuse, Onondaga county, New York, have invented an Improved Process in the Manufacture of Ornamental Plates for Photographic Printing, of which the following is a specification:

The purpose of our invention is to furnish ornamental borders and other ornamental work for framing photographs and other pictures, or for other ornamental objects, by means of photographic printing, the following being a description of our invention and its application:

First, we take a plate of glass and thoroughly clean it, and we then draw upon its surface, in india-ink, the design desired, all the irregularities of the outline being carefully corrected by erasure and etching. The demitints are then laid in with a compound of white-lead and gum-arabic, in which etching may be resorted to in part, if desired. After the design is completed the glass is again thoroughly cleaned around the design and heated to a moderate degree and varnished with a varnish hereafter described, when it is ready for printing.

A modification of this process we sometimes adopt is as follows: The glass is cleaned, as before, and then covered with a thin coat of white-lead and gum-arabic, care being taken not to use too much gum, or it will be likely to scale off. After this is dry the design is drawn on the surface. Then all the superfluous

material is removed by scraping with a wooden or other proper implement, the fine and delicate outlines and shadings being made by an etching-needle, after which the first lights are laid in with an additional coat of white-lead mixed with gum-arabic. The plate is then moderately heated and a coating of the varnish applied, and when this is dry the high lights are put in with the same composition of gum and white-lead or their equivalent, which, by means of the varnish, is bound more firmly, and the whole is finished with a final coat of varnish, and the plate is ready for printing by the ordinary photographic method, as in the former case.

The varnish we prefer to use in the above processes is composed of seven and one-half ounces of gum-sandarac; forty-five ounces of alcohol of commerce; one and one-half ounce of camphor-gum; three ounces Venice turpentine; three-fourths ounce oil of lavender. These ingredients form a clear transparent varnish adapted to our purposes above described.

Having thus fully described our process of preparing plates for photographic ornamental printing, what we claim is—

The process herein described for preparing plates for photographic printing, substantially as herein set forth.

HENRY C. WENZLAWSKI.
ADOLPH MÜLLER.

Witnesses:

J. J. GREENOUGH,
G. S. LEONARD.