

UNITED STATES PATENT OFFICE

JAY J. HARTMAN, OF CINCINNATI, OHIO.

IMPROVEMENT IN THE PROCESSES OF MOUNTING PHOTOGRAPHIC PICTURES.

Specification forming part of Letters Patent No. **187,134**, dated February 6, 1877; application filed November 21, 1876.

To all whom it may concern:

Be it known that I, JAY J. HARTMAN, of Cincinnati, in the county of Hamilton and State of Ohio, have made a new and useful invention, being an Improvement in the art of Photography, of which the following is a specification:

This invention relates to a new mode of transferring the face of photographs, taken in the ordinary manner, to the surface of glass plates, and there fixing the impression so as to make a picture of great durability and perfection of finish.

In working my invention I mount the photograph on the face of a glass plate by means of a paste made of common starch and salt dissolved in cold water so that the paste shall have the consistency of jelly, the paste being applied to the face of the glass and also to the photograph. The latter may be mounted either below or above water, care being taken that there shall be a perfect union of the two surfaces. When the photograph has been thus mounted the paper may be dissolved and washed away by means of a damp sponge carefully applied, so as to leave the albumen of the face of the photograph adhering to the face of the glass plates. The paper must be washed away entirely, as the subsequent treatment is applied to the albumen surface remaining on the glass, and not to a film of paper. Then smooth down the albumen on the face of the glass plate with a cloth dipped in very fine pumice-stone dust to give to the picture clearness and brilliancy.

When the plate has been thus prepared it should be dipped in a hot mixture of two parts, by weight, of spermaceti, and one and one-

fourth parts of paraffine. The mixture should be as hot as the glass plates will bear without cracking. The exposure of the plates to this bath for, say three seconds, will fix the photographic impression on the face of the glass, so as to give it great durability and clearness. The picture may then be finished by coloring, for which purpose the necessary variety of colors should be of the best quality.

In mounting old photographs which are on thin rotten paper, and require especial care in handling, they should be mounted under water. New photographs may be mounted without immersion.

What I claim as my invention, and desire to secure by Letters Patent, is—

1. The mode of transferring photographic impressions from paper to glass, and fixing the same, by mounting and entirely removing the paper, and then finishing and fixing by polishing and immersing in a hot bath of spermaceti and paraffine, substantially as set forth.

2. The mode of mounting photographs on glass, substantially as set forth, consisting of the following operations: first, coating the surface with paste, then mounting carefully under or above water, then dissolving and washing away the paper entirely, and finally polishing the albumen coating transferred to the glass with pumice-stone dust.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JAY J. HARTMAN.

Witnesses:

R. MASON,
D. L. HOLLOWAY.