

UNITED STATES PATENT OFFICE

WILLIAM F. SPIELER, OF PHILADELPHIA, PENNSYLVANIA.

IMPROVED COMPOSITION FOR COLORING AND WATERPROOFING PHOTOGRAPHS, &c.

Specification forming part of Letters Patent No. 38,847, dated June 9, 1863.

To all whom it may concern:

Be it known that I, WILLIAM F. SPIELER, of Philadelphia, in the county of Philadelphia, in the State of Pennsylvania, have discovered a new and improved mode of painting and permanently securing and protecting photographs printed on albumenized paper or its equivalent by the use of the following-described two compound fluid materials; and I do hereby declare that the following is a full and exact description thereof.

The nature of my discovery consists in providing two compound fluid materials by the use of which a photograph printed on albumenized paper or its equivalent may be colored with the ordinary water-color paints, giving the advantage of using both transparent and body colors with great facility, and then restoring all of the original brilliancy of the albumenized surface, rendering it at the same time impervious to water, air, or grease, and perfectly free from any disagreeable prismatic effects, or have any tendency to peel off by contraction or cracking of the surface.

To enable others to make and use my discovery, I will proceed to describe its combinations and operations.

In painting photographs printed on albumenized paper or its equivalent I use as a substitute for water in mixing water-color paints for painting the first of the two compound fluid materials, which is compounded as follows: Dissolve one ounce of clarified honey

in sixteen ounces of water. This mixture is then brought to a boiling-heat over a slow fire and afterward allowed to cool. When cold it is filtered through paper, and then has ten ounces of acetic acid No. 8 added to it, which completes it.

After the photograph printed on albumenized paper or its equivalent is painted with water-color paints mixed with the aforesaid compound fluid material I use for permanently securing and protecting or rendering it impervious to water, air, or grease the second of the two compound fluid materials, which is compounded and used as follows: To twelve ounces of concentrated sulphuric acid, add twenty-two ounces of absolute alcohol, one quarter of an ounce of gum-camphor, three quarters of an ounce of gun-cotton, which compound must be filtered through cotton, and then poured over the entire surface of the photograph, which after completes the operation.

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

The use and application, for the purposes of painting and permanently securing and protecting photographs printed on albumenized paper or its equivalent, the aforesaid described two compound fluid materials.

WILLIAM F. SPIELER.

Witnesses:

AMOS I. KELLY,
CHARLES H. MASSON.