

UNITED STATES PATENT OFFICE.

V. M. GRISWOLD, OF LANCASTER, OHIO.

BITUMINOUS GROUND FOR PHOTOGRAPHIC PICTURES.

Specification forming part of Letters Patent No. **15,924**, dated October 21, 1856.

To all whom it may concern:

Be it known that I, VICTOR M. GRISWOLD, of Lancaster, in the county of Fairfield, State of Ohio, have invented a new and valuable Process for Sensitizing Bitumen for Taking Photogenic Pictures on Paper or other Material; and I do hereby declare that the following is a full and exact description thereof.

The nature of my improvement consists in the preparation of bitumen by the following processes: Dilute asphaltum - varnish (which has been prepared by boiling one-half gallon linseed-oil, one pint Japan varnish, and five or six ounces asphaltum to such a consistency that it will, when cool, roll into a hard ball) to a proper consistency with spirits of turpentine. Add to eight ounces turpentine one-half ounce bromine and one ounce iodine—a small quantity at a time—as they unite with great heat and must be managed with care. When thoroughly united this is bromiodized turpentine, which, added to a half-gallon bath of the prepared bitumen, forms what I call “bromiodized bitumen;” or I take finely-pulverized bromide of potassium one hundred and fifty grains, to which add one hundred and fifty grains crystallized nitrate of silver dissolved in four ounces distilled or pure soft

water; wash the precipitate through nine or ten changes of water, filter dry in a dark place, put the dry powder (bromide of silver) into a long eight-ounce vial containing four to six ounces turpentine, and add to it one and a half ounce iodide potassium very finely pulverized. This will form the bromiodide of potassium and silver in turpentine, which add to the half-gallon of bitumen prepared as above.

Bitumen sensitized as above will give impressions without the aid of collodion, and renders a collodion film more sensitive, and gives a more sharply-defined image than by any other process, and may be used for taking pictures on paper or any other smooth hard substance.

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

A sensitized bitumen for taking photogenic pictures on paper or other substance prepared by the above-described or other similar process substantially the same, and producing the desired effect.

V. M. GRISWOLD.

Witnesses:

P. B. EWING,
G. STEINMAN.