

# UNITED STATES PATENT OFFICE.

NATHAN ULLMAN AND MARK D. STILES, OF NEW YORK, N. Y.

## CRAYON COMPOUND.

SPECIFICATION forming part of Letters Patent No. 223,869, dated January 27, 1880.

Application filed December 15, 1879.

*To all whom it may concern:*

Be it known that we, NATHAN ULLMAN, of the city, county, and State of New York, and MARK D. STILES, of the same place, have invented a new and Improved Crayon Sauce or Compound, for making crayon portraits and drawings, which compound, together with the mode of preparation, is fully described in the following specification.

Our invention relates to that class of crayon sauces, compounds, or materials used by crayon artists; and it consists of lamp-black, alcohol, and Siberian lead, prepared in the manner and in the proportions as hereinafter set forth.

The object of our invention is to produce a crayon compound that can readily be applied in developing a picture or drawing without injuring the surface of the paper or material on which the picture is to be produced, and which can be removed and worked upon with great facility without becoming either muddy, dirty, or blurred in appearance.

All other crayon compounds and materials now in use, when spread upon the paper or material upon which the picture or drawing is to be produced, assume a reddish tinge, which is greatly detrimental to the effect of the picture or drawing. A crayon picture or drawing produced by our compound assumes a rich gray and transparent tone, that cannot be brought about by the application of any other crayon compound or material now in use. Our compound produces all the effects requisite to make a vigorous and artistic picture.

Our crayon sauce or compound consists of a composition consisting of lamp-black, sixteen parts, by weight; alcohol, (ninety-five per

cent.,) forty-eight parts, by weight; Siberian lead or graphite, one part, by weight.

Although we have found excellent effects resulting from this formula, we do not limit ourselves to these proportions, as they may be varied to meet the individual requirements of different artists.

The process of preparing the compound is substantially as follows: After forming a paste of the lamp-black and alcohol, allow the alcohol to evaporate until the compound becomes thoroughly dry; then pulverize this to a fine powder, subsequently adding Siberian lead or graphite pulverized; mix the ingredients thoroughly and subject them to a further pulverization, which completes the process.

The Siberian lead or graphite is introduced into the compound to enrich the tone and facilitate its application and removal when applied to the picture, which forms one of the important features of our invention. We use the alcohol to remove the impurities of the lamp-black.

What we claim as our invention is—

A composition or crayon sauce consisting of a compound of lamp-black, alcohol, (ninety-five per cent.,) and Siberian lead or graphite, in the proportion and prepared substantially as and for the purpose hereinbefore set forth.

In witness whereof we have hereunto set our signatures this 12th day of December, 1879.

NATHAN ULLMAN.  
MARK D. STILES.

Witnesses:

WILLIAM H. WINSLOW,  
WILLIAM B. MAGRATH.