

UNITED STATES PATENT OFFICE.

SAMUEL HOLT SHARP, OF LEEDS, ENGLAND.

BRONZING LIQUID FOR STENCIL-PRINTERS.

SPECIFICATION forming part of Letters Patent No. 551,327, dated December 10, 1895.

Application filed February 23, 1895. Serial No. 539,475. (No specimens.) Patented in England November 9, 1894, No. 21,607; in Belgium February 18, 1895, No. 114,163, and in Austria May 24, 1895, No. 45/1,794.

To all whom it may concern:

Be it known that I, SAMUEL HOLT SHARP, a subject of the Queen of Great Britain and Ireland, residing at Leeds, in the county of York, England, have invented Improvements in the Manufacture of Bronzing Liquid for Stencil-Printing, (for which Letters Patent have been obtained in Great Britain No. 21,607, dated November 9, 1894; in Belgium No. 114,163, dated February 18, 1895, and in Austria No. 45/1,794, dated May 24, 1895,) of which the following is a specification.

My invention has reference to the manufacture of semiliquid compositions suitable for printing and embellishing, under pressure, textile, felted and other materials by the aid of metal plates, having patterns, figures or designs formed therethrough after the manner of a stencil-plate, the object being to produce compositions which when applied to material of the kind mentioned will permeate the same and unite therewith in such a way as not to be liable to be rubbed off when dry, or to disappear when the material is washed, as is usually the case with the compositions heretofore used for the purpose specified.

Semiliquid compositions for the purpose mentioned consist according to this invention of litho-varnish with gold-size, or other quick drier, mixed with metallic powder, such as bronze-powder, aluminium and aniline-bronze powder which it is desired to print upon textile and other material for the purpose of embellishing the same.

A composition having a yellow or gold color is obtained by intimately mixing together bronze-powder, litho-varnish and gold-size in or approximately in the proportions of six parts of bronze-powder, eight parts litho-varnish and eight parts of gold-size.

A composition having approximately the color of silver is obtained by intimately mix-

ing aluminium powder with litho-varnish and gold-size in or approximately in the proportions of four parts of aluminium powder, 45 eight parts of litho-varnish, and eight parts of gold-size.

Compositions having other colors can be produced by mixing aniline-bronze powder of the desired color with litho-varnish and 50 gold-size in or approximately in the proportions of six parts of aniline-bronze powder, eight parts of litho-varnish and eight parts of gold-size.

In each case the proportions mentioned are 55 by weight.

The above-described semiliquid compositions are to be applied under mechanical pressure to the material to be printed, so as to force them through the apertures of the 60 pattern or stencil plates into the body of the said material, so as to thereby produce permanent, clear and distinct impressions. In some cases the compositions are forced through the material so as to produce a pat- 65 tern on each side thereof.

The litho-varnish herein mentioned usually comprises gum-arabic, oil of linseed, oil of rosin and spirit of detrine, mixed and combined in suitable proportions. 70

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

The liquid, substantially as herein described, for printing on fabrics consisting of litho-varnish, a metallic coloring powder, and a quick drier, mixed in the proportions, sub- 75 stantially as set forth.

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

SAMUEL HOLT SHARP.

Witnesses:

ROBERT EDWIN PEACOCK CRAVEN,
DAVID EDWIN CRAVEN.