

(No Model.)

J. BRODRICK.

AUTOGRAPHIC STENCIL AND PROCESS OF PRODUCING THE SAME.

No. 345,109.

Patented July 6, 1886.

Fig. 1.

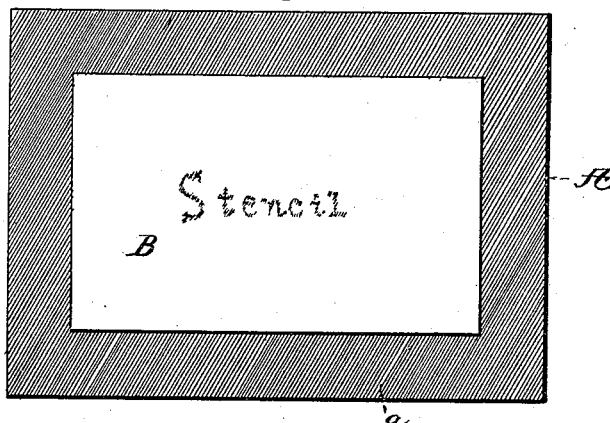


Fig. 2.

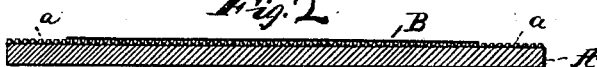


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE.

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AUTOGRAPHIC STENCIL AND PROCESS OF PRODUCING THE SAME.

SPECIFICATION forming part of Letters Patent No. 345,109, dated July 6, 1886.

Application filed September 28, 1885. Serial No. 178,423. (No model.)

To all whom it may concern:

Be it known that I, JOHN BRODRICK, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Autographic Stencils and the Process of Producing the Same, of which the following is a specification.

My invention relates to stencils, and particularly to such as are produced upon thin waxed or similarly coated or saturated paper by a blunt-pointed instrument pressed upon the stencil-sheet while the latter rests upon a hard plate suitably prepared to give the desired result in the preparation of the stencil-sheet.

The novel features for which protection is desired are set forth in the claims at the end of the specification.

In the accompanying drawings, which form part of this description, and in which like parts are indicated by like letters, Figure 1 represents a stencil-preparing plate made in accordance with my invention. Fig. 2 is a sectional elevation of the same, and Fig. 3 is a stylus which may be employed in preparing the stencil-sheet.

Referring to the drawings, the letter A indicates a plate of suitable hard substance, preferably metal, having its face covered with numerous closely-arranged parallel ridges, whereby intervening grooves, *a*, are provided. A stencil-preparing plate thus formed is to be distinguished from a plate whose operating-surface consists of sharp needle-like points, or which is covered with fine wire, as plates having the latter characteristics fail to give a clean-cut stencil-sheet, and, besides, the stencil-sheets, when prepared on such plates, are perforated, and not simply abraded, as is the object of my improvement.

In preparing my stencil-sheet, the paper, B, which is preferably thin waxed paper of sufficient strength, is laid on the stencil-preparing plate, as shown in Figs. 1 and 2, and a blunt-pointed instrument—such as shown in Fig. 4—is moved over the surface of the paper in the form of the writing, characters, or letters which it is desired to produce. This operation does not puncture or perforate the paper, but simply abrades it by the pressure of

the stylus upon the asperities of the preparing-plate, the effect of which abrasion is to produce an impression, C, on the stencil-sheet corresponding to the movements of the stylus in the formation of the characters to be impressed thereon. By this means an impromptu stencil-sheet is produced which insures a clean and strong impression, and one which will not fail to satisfactorily reproduce its characters when the stencil-sheet is used with the inking roller or pad or other suitable ink-applying device.

I do not confine myself to the style of operating-plate here shown, as other forms of plates may be used with varying degrees of success.

In order to produce the best work, the ridges or asperities of the preparing-plate must be exceeding fine and set closely together, and the stylus used should have a rounded or blunted operating end. By preference, I prepare said plate from a steel plate with a surface like a fine file (having about two hundred ridges to the inch) by planing down the same to such smoothness as not to obstruct the free passage of the point of the stylus in writing upon the superimposed stencil-sheet.

I do not here claim any of the forms of plate here indicated, because I have reserved the same for claims in contemporaneous applications. I only describe them here to make this specification practically operative without experimentation.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The method of producing a stencil, consisting in placing the sheet to be stenciled upon a suitable preparing-plate and abrading characters in said sheet with a stylus or other suitable implement, substantially as described.

2. As a new article of manufacture, a stencil-sheet having characters made by abrading, in distinction from perforating, substantially as set forth.

In witness whereof I hereunto set my hand in presence of two witnesses.

JOHN BRODRICK.

Witnesses:

K. M. SUPPLE,

WM. E. RICHARDS.