

(Model.)

M. W. STINES.

STENCIL.

No. 338,621.

Patented Mar. 23, 1886.

Fig. 1

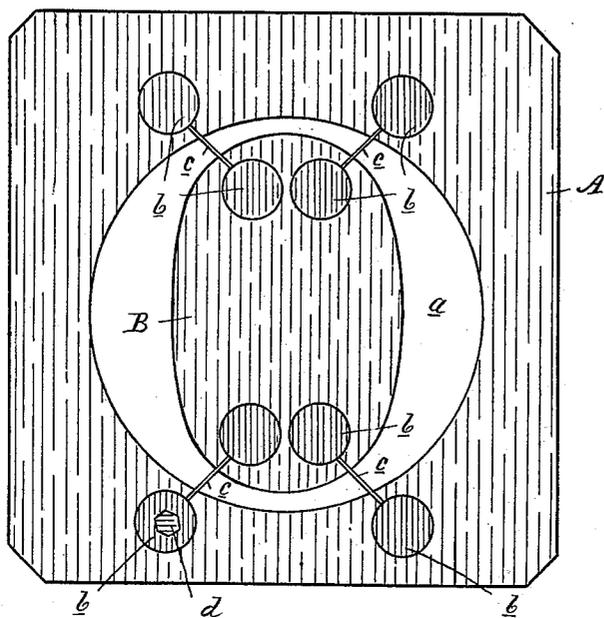


Fig. 2

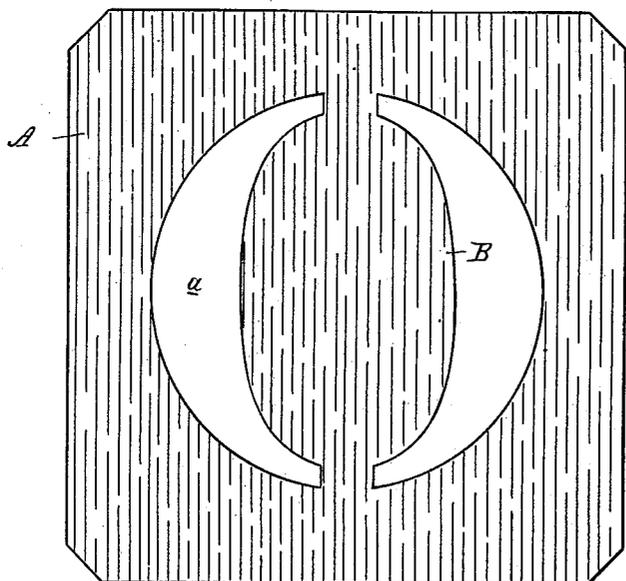
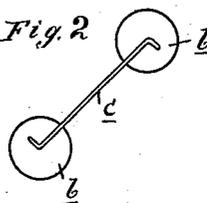


Fig. 3

Attest:

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UNITED STATES PATENT OFFICE.

MICHAEL W. STINES, OF DAYTON, OHIO.

STENCIL.

SPECIFICATION forming part of Letters Patent No. 338,621, dated March 23, 1886.

Application filed December 3, 1885. Serial No. 184,564. (Model.)

To all whom it may concern:

Be it known that I, MICHAEL W. STINES, of Dayton, in the county of Montgomery and State of Ohio, have invented new and useful
5 Improvements in Stencil-Plates; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

10 This invention relates to certain new and useful improvements in means for securing two or more edges of paper or other material in parallel or curved lines, or such lines as occur in making stencil patterns or plates for letters,
15 numbers, ornamental decorations, or other similar purposes. Such stencils like O B P Q U have a blank space within them, and the parts of the plates that form these spaces in the letters are usually secured to the plate by tie-straps left in the plate, as shown in the
20 illustrative figure in the drawings. When such plates are used, the result is unfinished letters, which to complete must be touched up by the brush of the operator.

25 It is the object of my invention to make a stencil-plate wherein these center blanks are held in position, so that when the plate is used in the ordinary way the result will be a finished letter.

30 The invention consists in the peculiar manner in which the center blanks are secured in place, as more fully hereinafter described, and as illustrated in the accompanying drawings.

35 Figure 1 is a plan view of a stencil-plate made for the letter O by my improved method. Fig. 2 is a plan view of one of the connections reversed, to show the manner of forming the same. Fig. 3 is an illustrative one,
40 showing the ordinary manner of making a stencil-plate of the letter O.

In the accompanying drawings, A represents a plate, of paper or other suitable material for making stencil-plates, in which a circular hole, *a*, is cut, giving the outline of the
45 letter O. Now, if this is used, the imprint would simply be a representation of a solid sphere. To obtain the perfect letter, it becomes necessary to secure the center blank, B, in the center of the hole *a*. In order to do this,
50 I employ in pairs the paper disks *b*—one pair to

each of the connecting-wires *c*. These wires, having been cut of a suitable length, have their ends bent, as shown in Fig. 2. These ends are then embodied in the disks until the wires are flush, or nearly so, with the face of the
55 disks. These disks are then secured by any suitable adhesive material, one to the plate itself outside the cut and the other to the center blank, B, in such manner as to allow the wire to form the connection between the two,
60 stretching across the space between them for that purpose. As many of these connections are employed as may be necessary to hold the center blank in place, and as the wires are small they do not obstruct the brush from coming
65 in contact with the entire exposed surface upon which the stencil-plate is being employed, while their bent and embedded ends prevent the wires from being displaced. In very large stencil-plates it may be found necessary
70 to employ a metallic tag, *d*, to hold the disks and plates together, in addition to the adhesive material described.

While I have shown my improvement as applied to a stencil-plate, I do not intend to
75 limit myself to such use, as it is evident that the same may be used for securing the edges of paper or other material for ornamental decorations or other purposes.

I am aware that it has been heretofore proposed to provide a stencil-plate with wires
80 spanning the apertures of the letters or design, said wires being soldered or otherwise permanently secured to the plate and forming a part thereof, and extending at right angles to the
85 body of the plate, and this I disclaim. This construction is objectionable, for the reason that the wires, projecting as they do from the body of the plate, are easily broken off or bent,
90 and, furthermore, they cannot be used with different plates. My invention differs from this, in that the wires lie flat on the paper or other material, and are not liable to be broken, and are removable and separate from
95 said material, whereby they may be used first with one letter and then with another. In this lies the gist of my invention.

What I claim as my invention is—

1. A wire or wires the ends of which are bent and embedded in the faces of paper or
100

wood disks, said disks being provided with suitable adhesive substances and constructed to secure together in parallel or curved lines two or more edges of paper or other materials, substantially as described.

2. A stencil-plate wherein the necessary blanks in the letters or figures are held in place by wires and disks, substantially as specified.

3. The combination, in a stencil-plate and with said plate, of the center blank, the re- 10 movable wires, the disks, and the metallic tags or clips, substantially as set forth.

MICHAEL W. STINES.

Witnesses:

OSCAR F. DAVISSON,
I. HOTSAPILLAR.