

No. 833,713.

PATENTED OCT. 16, 1906.

J. GESTETNER.

STENCIL PRINTING MACHINE AND STENCIL SHEET TO BE USED THEREWITH.

APPLICATION FILED MAY 7, 1906.

Fig:1.

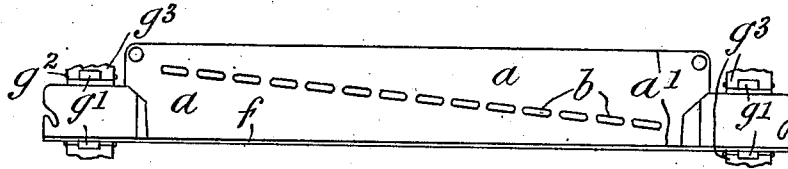


Fig:2.

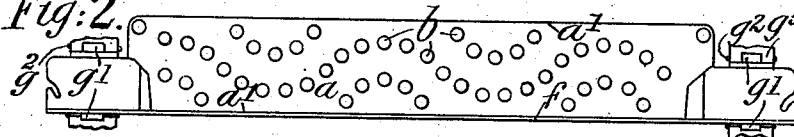


Fig:3.

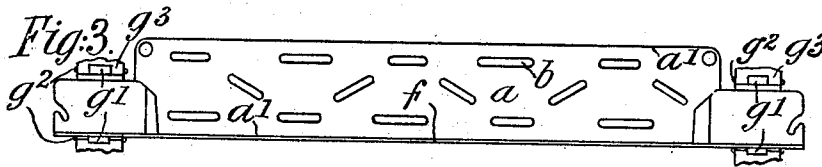


Fig:4.



Fig:5.

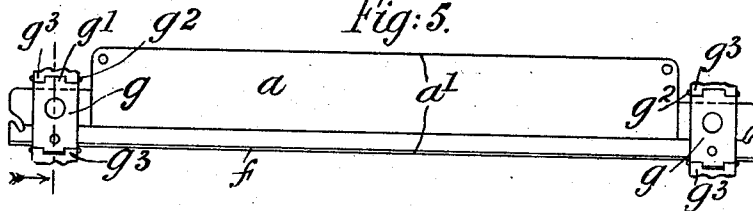
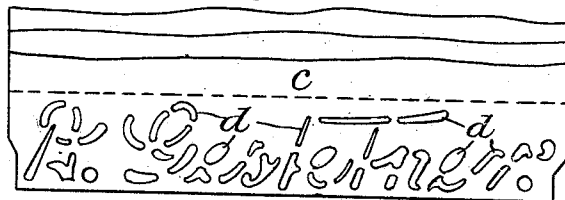


Fig:6.



Fig:7.



Witnesses:
R. A. Smith.
E. L. Erickson.

Inventor:
Jacob. Gestetner.
By: [Signature]
[Signature]

UNITED STATES PATENT OFFICE.

JACOB GESTETNER, OF LONDON, ENGLAND.

STENCIL-PRINTING MACHINE AND STENCIL-SHEET TO BE USED THEREWITH.

No. 833,713.

Specification of Letters Patent.

Patented Oct. 16, 1906.

Application filed May 7, 1906. Serial No. 315,588.

To all whom it may concern:

Be it known that I, JACOB GESTETNER, a subject of the King of Great Britain, residing at London, England, have invented new and useful Improvements in or Connected with Stencil-Printing Machines and in Stencil-Sheets to be Used Therewith, of which the following is a specification.

The object of the invention is to secure the correct fixing in position of the stencil on a stencil-printing machine to distribute the strain to which the top or fixing portion of the stencil is subjected over a larger area of the stencil-paper and to gain a better register than can be obtained by the means hitherto adopted.

Hitherto stencil-sheets, with their protecting and backing sheets, have been provided with three or four key-shaped holes or round holes and the stencil-printing machine has been provided with a corresponding number of studs arranged in a right line across the machine and parallel with its axis. This arrangement does not, however, sufficiently secure the correct placing and retaining of the stencil in position on the machine, as the studs or projections are a loose fit in the holes in the stencil, and the tearing away partially or entirely of the stencil sometimes takes place, as the holding means are not spread over a sufficiently large area of the stencil. According to my invention I overcome this difficulty.

I will describe my invention by the aid of the accompanying drawings, in which—

Figures 1, 2, 3, and 4 are front views of the part of the stencil-printing machine to which the stencil is fixed, showing, as examples, several forms in which the studs or projections may be arranged thereon. Fig. 5 is a back view, and Fig. 6 a cross-section of Fig. 5, and Fig. 7 is a plan of part of the stencil-sheet and its accompanying backing and protecting sheets with perforations exactly corresponding with and fitting the projections shown at Fig. 4.

a is a plate or bar to take the place of the bar or other part usually employed in stencil-printing machines to which the stencil has in some cases hitherto been secured by a straight line of studs on said bar and keyhole-slots in the stencil. The plate or bar *a* is according to my invention provided with a series of studs or projections *b* of greater number than those formerly employed and in other than a right line parallel with the axis of the machine.

In Fig. 1 these studs or projections *b* are of an elongated shape, and they are arranged in a line diagonal to the axis of the machine, which is not shown, but, as is well known, is parallel with the upper and lower edges *a'* of the bar *a*. In Fig. 2 the studs or projections *b* are of circular shape and arranged in lines of varying shape, which extend over the greater portion of the width of the bar. In Fig. 3 the studs or projections *b* are of elongated form, like those of Fig. 1, and extend over the greater portion of the width of the bar *a*, and in Fig. 4 the studs or projections *b* are of such shape and arrangement as to form a copy of a written signature occupying the greater portion of the width of the bar *a*.

The stencil-sheet *c* and its protecting-sheets previous to being placed on the studs or projections *b* are punched or perforated at one end with slots or holes *d* of the same shape, size, and arrangement as those of the studs or projections *b* of the bar *a*.

It is evident that the studs or projections *b* may be of such shape and be arranged in such manner as to form either a signature, trademark, or other desired indication or device.

The plate or bar *a* is also provided with end guides *e* and a side guide *f*, and the stencil-sheet is formed to fit such guides to guide the stencil-sheet into position to enable the perforations and intermediate parts thereof to fall correctly and easily over and into the corresponding projections and depressions forming the signature or other device to serve as the holding means. This plate or bar *a* may be fixed to the machine in any way suitable for the machine to which it is to be applied. In the drawings I have shown it provided with plates *g*, formed with a hinge-knuckle *g'* at each end to enable it to be fixed by means of pins *g''* to interfitting knuckles *g'''* on the chains or bands described in the specification of D. Gestetner No. 700,031, dated May 13, 1902.

By the arrangement heretofore in use for fixing the stencil to the machine care had to be taken to pull the stencil in the proper direction to obtain a parallel seating and if the stencil when fixed were not pulled home squarely it was liable to be moved during printing by the pressure-roller working unduly on one side thereof. By my present invention the stencil *c* cannot be laid otherwise than absolutely square and accurately on its holding plate or bar *a*, while greater strength is obtained by its being held by a much

larger number of points extending over a much larger area than heretofore. My invention also provides means whereby security is afforded that the stencil-sheet supplied by a dealer for use with a certain machine is the genuine manufacture of the maker of such machine.

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

1. In stencil-printing machines and in stencil-sheets to be used therewith the combination with a suitable support of a large number of projections arranged thereon in other than a line parallel with the axis of the machine and a stencil-sheet having openings punched therein at one end of the same shape and arrangement as the aforesaid projections and accurately fitting the same, substantially as herein set forth.

2. In stencil-printing machines and in stencil-sheets to be used therewith the combination with a suitable support of a large number of projections arranged thereon so as

to occupy a considerable area of the support and form a copy of a signature, trade-mark or other indication or device, and a stencil-sheet provided with openings punched therein of similar arrangement to and closely fitting the said projections, substantially as herein set forth.

3. In stencil-printing machines and in stencil-sheets to be used therewith the combination with a suitable support of a large number of projections extending over a considerable area of the support, guides on said support and a stencil-sheet of shape to fit such guides and provided with openings punched therein of similar arrangement to and closely fitting the said projections, substantially as herein set forth.

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

JACOB GESTETNER.

Witnesses:

WM. GIRLING,
H. D. JAMESON.