Nov. 29, 1927. 1,650,868

D. GESTETNER

DUPLICATING

Filed Dec. 17, 1926

Fig.1.

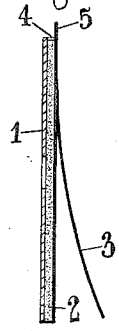


Fig.2.

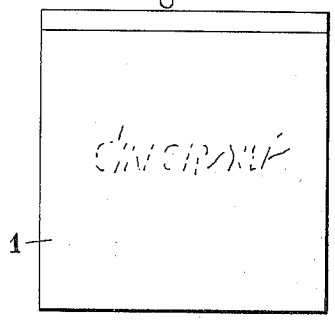
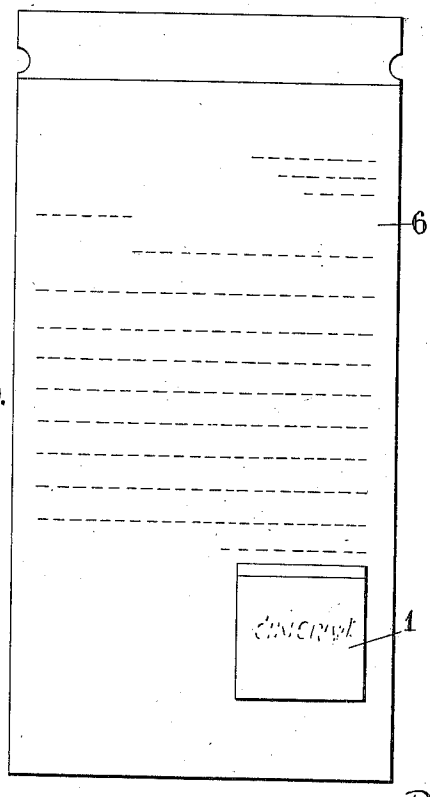


Fig.3.



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UNITED STATES PATENT OFFICE.

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DUPLICATING.

Application filed December 17, 1926, Serial No. 155,515, and in Great Britain February 16, 1926.

This invention relates to stencils for use in duplicating.

It is in some cases desired to have in a stencil reproduction a signature or other matter produced in different coloured ink from that used in forming the body of the stencil impression. To this end sometimes the matter to be reproduced in a different coloured ink is cut in the same stencil sheet as the remainder of the matter, a piece of impermeable material is secured to the back of the stencil and between it and the inking means, a quantity of ink of the desired colour being interposed between the rear face of the stencil and a portion of the ink-impermeable material secured thereto.

This arrangement necessitates lifting the stencil away from the stencil carrier when it is desired to apply more ink for use in reproducing this portion of the stencil reproduction.

The object of the present invention is to provide a device adapted to secure a similar result which will be more easily placed in position and inked.

The invention consists broadly in an attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of material adapted to be stencilized and means adapted to act as a reservoir for a small quantity of ink secured together in such manner that the sheet of material adapted to be stencilized and the ink carrier may be secured in position on a stencil of the usual character.

In accordance with the invention the reservoir for the quantity of ink to be used in forming the signature or the like matter may be constituted by a sheet of foraminous or porous material, in which case the foraminous or porous material may be interposed between the sheet of stencilizable material and an ink-impermeable backing.

Where an ink-impermeable backing is not provided, the material of the stencil sheet with which the attachment is associated may operate to prevent the ink supplied by the inking means of the duplicator becoming mixed with the ink applied to the attachment.

For securing the device in accordance with the invention to a stencil sheet of the usual character an adhesive may be used.

Where an ink-impermeable backing is provided for the material functioning as an ink reservoir the adhesive may be applied to a portion of the body of the backing or to an extension formed thereon.

Where the device comprises an ink-impermeable backing, a piece of porous or foraminous material, adapted to act as a reservoir for the ink, and a stencil sheet the whole may in effect resemble a miniature combined stencil sheet.

The material of which the stencil sheet is formed may be of any suitable character. It may, for instance, be a stencil sheet adapted to be stencilized by pressure or a stencil sheet adapted to be stencilized by the local application of a medium adapted to liquefy the ink-impermeable composition used in forming the stencil sheet.

Thus in the one case the stencil sheet may comprise a sheet of yoshino paper or similar highly porous material coated or impregnated with a shellac composition, such as is used in forming so-called "autographic" stencils by the employment of a file-plate, wheel-pen or the like.

Alternatively, the stencil sheet of the device may comprise a sheet of yoshino paper or similar highly porous material coated with wax or with gelatinized organic colloid, such for instance as gelatine, cellulose esters or cellulose derivatives with which are conveniently associated suitable tempering or softening agents.

Where the stencil sheet is to be of the character adapted to be stencilized by the local application of a material capable of liquefying or softening the ink-resisting medium, the latter may consist of shellac or other resin adapted to be liquefied or dissolved by means of alkaline bodies used as inks in forming the stencil.

Alternatively, gelatine or like gelatinizing organic colloid adapted to be liquefied by the use of suitable liquefying agents may be used.

As will be understood, in stencilizing, the brush, pen or like stencilizing means will be applied directly to the surface of the stencil sheet which when the stencil is in use will be in contact with the ink reservoir.

In some cases it may be desirable to form the stencilizing material and to employ it in the manner specified in my application for British Letters Patent No. 1900 of 1925.

A device in accordance with the invention, as will be understood, will be applied to the

face of the main stencil sheet, that is to say the face which contacts with the impression-receiving material, and when it becomes necessary to apply a further quantity of ink to this additional or subsidiary stencil the stencil sheet which it comprises may be lifted away and a small quantity of ink applied directly to the ink reservoir.

If a suitable adhesive is used this subsidiary stencil may be detached from the main stencil sheet and a different subsidiary stencil substituted and, as will be understood, in some cases a device in accordance with the invention may be of utility even in cases where the whole of the matter to be reproduced is formed in ink of a given colour.

Thus, for example, the device is of use in reproducing, for instance, form letters where a considerable proportion of the matter follows a standard form whereas other portions are changed, as will be the case where, for instance, standard openings and concluding portions of a letter or circular are employed and it is desired to include different matter of interest to different groups of customers in the intervening portion.

The essential dimensions of the device will vary according to requirements but in all cases the device will be designed to function as a subsidiary or auxiliary to the stencil which is associated with the stencil carrier of a duplicator.

One construction in accordance with the invention is illustrated by way of example in the accompanying drawings, in which

Figure 1 is a section of the auxiliary stencil.

Figure 2 is a front elevation thereof, and

Figure 3 is an elevation of a stencil of the standard size with an auxiliary stencil attached.

In the drawings, 1 is the sheet of material adapted to be stencilized, 2 is a sheet of a porous material adapted to function as an ink reservoir and 3 is an ink-impermeable backing, these three elements being secured together at 4, while a layer of adhesive is applied at 5 to the rear surface of the impermeable backing.

Referring to Figure 3 the main stencil is indicated by the reference 6, the auxiliary stencil being attached adjacent to the foot thereof.

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

1. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of material adapted to be stencilized and means adapted to act as a reservoir for a small quantity of ink secured together along one edge only in such manner that the sheet of material adapted to be stencilized and the ink carrier may be secured in position on a stencil of the usual character.

2. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a flexible structure including a sheet of material adapted to be stencilized and a sheet of foraminous or porous material adapted to act as a reservoir for a small quantity of ink secured together along one edge only in such manner that the sheet of material adapted to be stencilized and the ink carrier may be secured in position on a stencil of the usual character.

3. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of material adapted to be stencilized, means adapted to act as a reservoir for a small quantity of ink and an ink-impermeable backing connected together along one edge only in such manner that the whole may be secured in position on a stencil of the usual character.

4. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of foraminous material coated with an ink-resisting medium of a character adapted to be liquefied by the local application of a stencilizing agent and means adapted to act as a reservoir for a small quantity of ink secured together in such manner that the sheet of material adapted to be stencilized and the ink carrier may be secured in position on a stencil of the usual character.

5. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of foraminous material coated with an ink-resisting medium of a character adapted to be liquefied by the local application of a stencilizing agent and a sheet of foraminous or porous material fastened together along one edge only so that the whole may be secured to a stencil sheet of the usual character.

6. An attachment for stencils adapted to constitute a subsidiary or auxiliary stencil comprising a sheet of foraminous material coated with an ink-resisting medium of a character adapted to be liquefied by the local application of a stencilizing agent, means adapted to act as a reservoir for a small quantity of ink and an ink-impermeable backing fastened together along one edge only in such manner that the sheet of material adapted to be stencilized, the ink carrier and the ink-impermeable backing may be secured in position on a stencil of the usual character.

In testimony whereof I have signed my name to this specification.

DAVID GESTETNER.