Nov. 20, 1956 L. R. MOONEY 2,771,026

STENCIL ASSEMBLY

Filed Feb. 6, 1950

Fig. 1

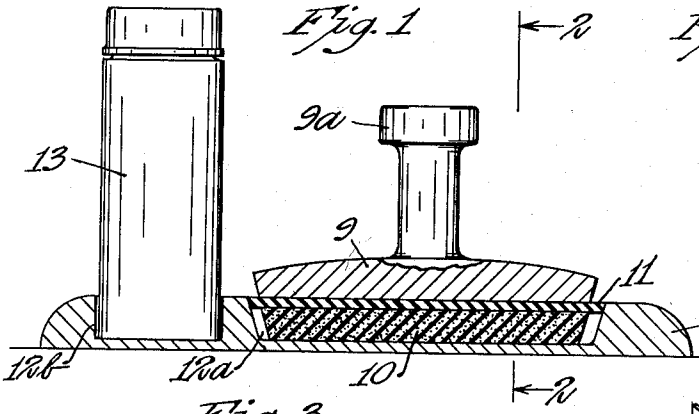


Fig. 2

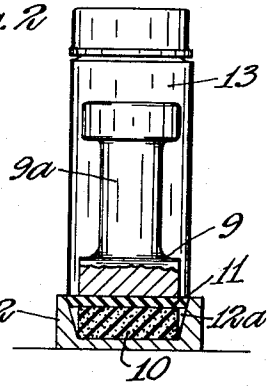


Fig. 3

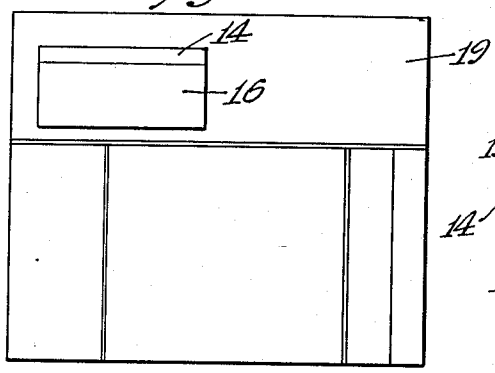


Fig. 4

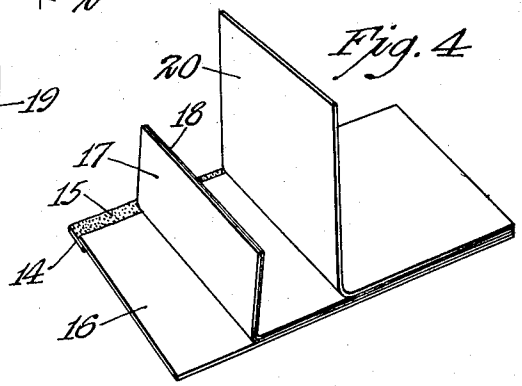
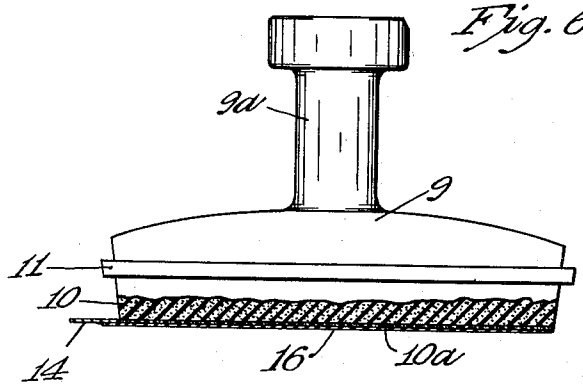


Fig. 5



Fig. 6



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STENCIL ASSEMBLY

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3 Claims. (Cl. 101—128.2)

This invention relates to a complete device for making a number of identical impressions and is a continuation in all common subject matter of my co-pending application entitled "Apparatus for and Method of Mimeographing," S. N. 728,816, filed February 15, 1947.

It is an object of my present invention to provide a device resembling a hand stamp, which is adapted to produce a number of identical impressions, and to provide a novel and improved method for producing a number of impressions.

It is a general object of my present invention to provide a stencil assembly removably attachable to a larger sheet for producing a carbon impression thereon simultaneously with the cutting of the stencil.

More specifically, it is an object to provide a stencil assembly including a stencil sheet and a carbon sheet removably adhered together along one edge portion thereof by a portion of the adhesive surface of a strip of adhesive material, said adhesive material having an exposed portion to permit the same to be removably attached to a larger sheet such as an invoice form or the like to permit cutting of the stencil simultaneously with typing of the address and other identifying information on the invoice, the adhesive being of a non-drying reusable pressure sensitive type capable of being easily removed from the invoice and subsequently adhered to other objects.

Still more specifically, it is an object to provide as an article of manufacture a stencil assembly including a stencil sheet, a carbon sheet, and a strip of adhesive material having the adhesive surface thereof provided by a non-drying re-usable pressure sensitive type of adhesive, said carbon and stencil assembly having an underlying protective sheet adhered to an exposed portion of the adhesive surface and underlying the carbon surface to protect both the adhesive and carbon surfaces after manufacture and before use on an invoice form or the like.

It is still a further object to provide a stencil constructed to prevent smudging of the carbon impression made when the stencil is initially cut.

It is still another object to provide an applicator and a well for receiving the same and for reinking the same in which the applicator forms a substantially sealed closure at the top of the well to prevent the ink from drying therein.

These and other objects and advantages of my invention will more fully appear from the following description made in connection with the accompanying drawings wherein like reference characters refer to the same or similar parts throughout the several views and in which:

Fig. 1 is a longitudinal sectional view taken through the stand for holding an applicator and an ink supply bottle with the bottle and applicator shown therein;

Fig. 2 is a transverse vertical sectional view taken substantially along the line 2—2 of Fig. 1;

Fig. 3 is a plan view showing a stencil as mounted on a conventional shipping invoice or the like;

Fig. 4 is a perspective view showing the construction of the stencil with the carbon paper and protective tissue sheet in partially removed position;

Fig. 5 is a longitudinal vertical sectional view taken through a stencil with the protective tissue sheet removed; and

Fig. 6 is a side elevation partially in section showing the applicator with the stencil adhered thereon.

As illustrated, in the accompanying drawings, I provide a complete device for producing a number of identical impressions. This complete device consists in an applicator body designated by the numeral **9**, and having a porous resilient ink retaining pad **10** mounted at the bottom thereof. A closure shield **11** is interposed between the pad **10** and the main body portion of the applicator body **9**. A suitable gripping handle **9***a* is provided at the top of the applicator. The complete applicator is shown in Figs. 1 and 2 mounted in a stand designated as an entirety by the numeral **12** and having a well **12***a* formed therein, the sides of said well being beveled as shown in Figs. 1 and 2. The stand or base **12** also in the form shown has a recess **12***b* formed therein to receive a cylindrical bottle **13** in which a supply of ink may be stored.

The stencil illustrated herein is somewhat similar to the stencil described in my above identified co-pending application, as will be brought out by the following description, but is improved considerably as will also be hereafter brought out. The stencil unit, as shown in the accompanying drawings, consists in an adhesive strip **14** having on the underside thereof an adhesive coating **15** of a pressure-sensitive re-usable type. A sheet of conventional mimeograph stencil paper **16** has the upper marginal edge portion mounted on the lower marginal edge portion of the adhesive strip **14** and a sheet of carbon paper **17** has its upper marginal edge portion adhered to the coating **15** immediately above the top edge of the stencil sheet **16** and leaving the top marginal edge portion of the adhesive surface to permit the entire stencil unit to be adhered to a larger sheet, as shown in Fig. 3. For shipping and storing the stencil units a protective tissue sheet **20** is adhered to this upper marginal portion of the adhesive strip **14**, as best shown in Fig. 4 and this serves not only to protect the adhesive surface but the carbon paper of the carbon sheet **17**. This carbon surface or coating is illustrated in Fig. 5 and is designated by the numeral **18**. The carbon coating **18** terminates at its upper edge a substantial distance below the upper extreme edge of the carbon sheet **17**, as best shown in Fig. 5. This prevents the carbon from printing when the large shipping card **19** is inserted around the roll of a typewriter. The increased thickness of the adhesive strip **14** and stencil **16** would cause sufficient pressure to be applied against the carbon surface if extended to the top of the sheet **17** to cause a smudge on the shipping card or invoice **19**. With my present structure this smudging is entirely eliminated and a neat carbon impression is produced on a sheet **19** simultaneously with the cutting of a stencil.

When my improved device for producing impressions is to be used the tissue sheet **20** is initially removed from the carbon and the adhesive strip **14** to permit the stencil with the carbon sheet to be attached by said pressure-sensitive adhesive coating **15** to a larger sheet, such as the sheet **19**, as best shown in Fig. 3. This puts the stencil sheet **16** on top and when said stencil is cut the carbon sheet **17** with the carbon coating **18** produces an identical carbon impression on the larger sheet **19**. As soon as this impression is complete the stencil is removed and the carbon sheet is separated from the stencil. The sponge pad **10** having received an ink supply from

the reservoir **12***a* is pressed against the top surface of the stencil. Most printing inks have a naturally sticky somewhat adhesive quality which is sufficient to hold the stencil onto the pad **10** for the purpose of printing mimeograph impressions. This coating of ink **10***a* on the pad **10** is shown in Fig. 6 and is the only means of holding the stencil in place thereon and simultaneously supplies ink for printing the mimeograph impressions.

A fast-drying ink is, of course, desirable and hence it is necessary to close the well or reservoir **12***a* when the device is not being used. The form of the invention illustrated shows a sealed closure shield **11** having the edges thereof beveled to conform to the bevel of the side walls of the well **12***a*. This shield is substantially rigid and is fixed to the bottom of the body **9**. Obviously it is entirely possible that the body **9** could be shaped to conform to the bevel of the well and thus eliminate the use of a separate sealing shield.

The method for producing a number of identical impressions consists in initially attaching a stencil with an underlying carbon sheet to an impression-receiving sheet, cutting the stencil and simultaneously producing a carbon impression on the impression-receiving sheet, thereafter removing the stencil and carbon sheets from the impression-receiving sheet, separating the carbon sheet from the stencil sheet and pressing an ink containing pad against said stencil sheet to permit a number of impressions to be produced therewith.

It will be seen that I have provided a stencil assembly particularly adapted for facilitating addressing operations wherein the stencil and carbon assembly is removably attached to a conventional invoice form for simultaneous cutting of the stencil while typing of the address and other specific information on the heading portion of the invoice, and thereafter permitting removal of the stencil and carbon from the invoice without damage to the invoice sheet, said re-usable adhesive permitting subsequent attachment of the prepared stencil to a carrier sheet such as the shipping copy of the invoice forms. The entire unit manufactured in accordance with my present invention provides an article of manufacture which greatly facilitates addressing of multiple packages all going to the same addressee under the same order and also provides a unit which can be conveniently stored after manufacture with an underlying protective sheet protecting not only the exposed adhesive material but also the underlying carbon surface.

It will, of course, be understood that various changes may be made in the form, details, arrangement and proportions of the parts without departing from the scope of my invention.

What I claim is:

1. A stencil assembly comprising a relatively narrow securing strip having a non-drying pressure sensitive adhesive coating of a type to permit the same to be removably adhered to another sheet, a stencil sheet affixed along one marginal edge portion to only a portion of said adhesively coated strip, a separate carbon sheet affixed along one marginal edge portion to only a part of the remaining exposed adhesive coating on the bottom side of said strip to leave a portion of the underlying coating exposed for removable attachment to a selected part of a larger sheet whereby cutting of the stencil will produce a similar carbon impression on said larger sheet and thereafter said stencil may be removed to be further used in a duplicating operation.

2. As an article of manufacture, a device for printing a number of identical impressions comprising a sheet of stencil paper, an adhesive strip having an underlying downwardly facing re-usable pressure-sensitive adhesive surface applied thereto with a portion of said surface being adhered to the marginal portion of said stencil and a portion of said adhesive surface being exposed, a carbon sheet having a downwardly facing carbon surface adhered only to a portion of the exposed adhesive surface to leave a portion thereof exposed, said carbon sheet underlying said stencil sheet, and a protective sheet removably adhered to the exposed adhesive surface of said strip and covering in underlying relation said downwardly facing carbon surface but removable from said adhesive strip to expose the adhesive surface and said carbon surface to permit attachment of the carbon sheet and stencil sheet to a larger sheet by means of the exposed adhesive surface to effect a carbon impression on a larger sheet simultaneously with the cutting of a stencil sheet and thereafter permit removal of the stencil from the larger sheet and removal of the carbon sheet from the stencil sheet.

3. As an article of manufacture, a stencil sheet, an underlying sheet of material detachably connected to said stencil sheet and having a downwardly facing impression reproducing surface of a type capable of reproducing an identical impression on an underlying sheet simultaneously with the cutting of the stencil, a re-usable pressure-sensitive adhesive material adhered along one marginal edge portion of the stencil sheet in a manner to leave a portion of the adhesive material exposed, and a protective sheet removably adhered to said adhesive material and covering said exposed portion thereof in underlying protective relation to said impression reproducing surface but removable from said adhesive surface to expose the same as well as said impression reproducing surface to permit attachment thereof to a larger sheet by means of the exposed portion of adhesive material to effect a reproduced impression on the sheet simultaneously with the cutting of the stencil after which the stencil is removed from the larger sheet for further usage of the stencil.

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