April 11, 1933. W. A. WINTHER 1,903,740

STENCIL PRINTING DEVICE

Filed Dec. 1, 1931

Fig. 1.

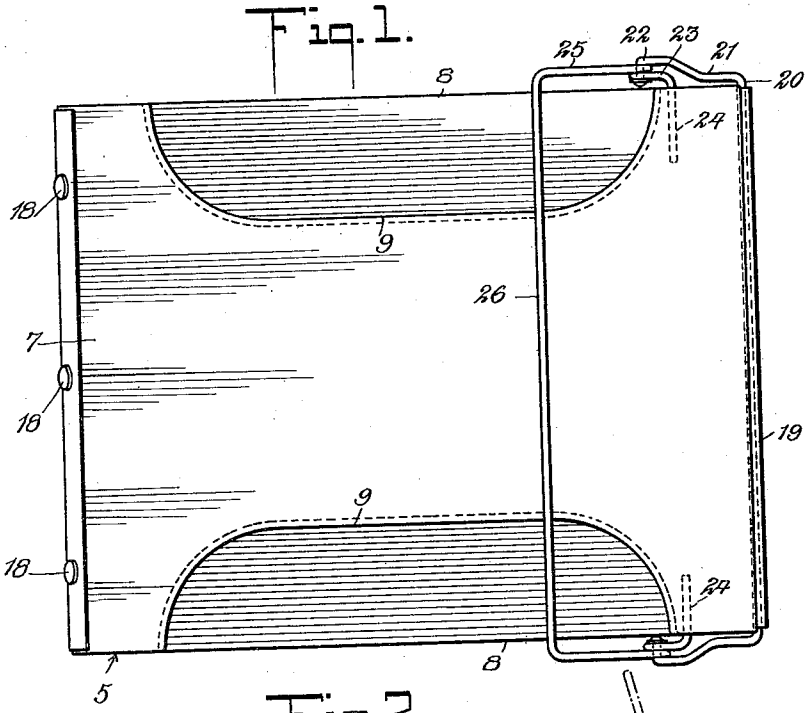


Fig. 2.

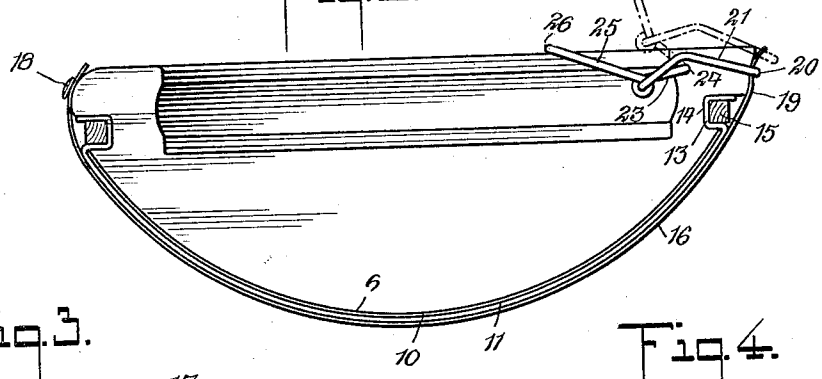


Fig. 3.

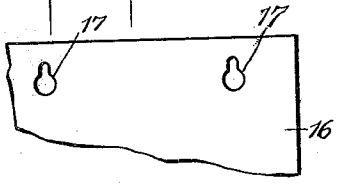
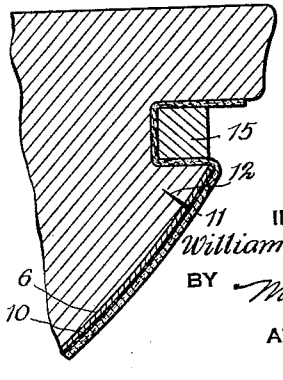


Fig. 4.



WITNESSES

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UNITED STATES PATENT OFFICE

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STENCIL PRINTING DEVICE

Application filed December 1, 1931. Serial No. 578,359.

An object of the invention is to provide a hand stenciling device which may be conveniently used and which is so constructed that the ink pad may be readily inked and a stencil may be conveniently replaced.

Another object of the invention is to construct the body of the device with a handle which not only permits the device to be readily used, but which also assists in operating a means for holding the stencil in place.

A further object of the invention is to provide a clamping means for the stencil which is secured to cranks pivoted to the body and which is operable by an operating member secured to the cranks, and which has portions extending beyond the sides of the handle permitting the convenient manipulation of the operating member.

The invention also comprehends a device of the class described having a body with the sides of its upper portion cut away to form a handle and with an inked pad disposed against the convex bottom of the body, the inked pad being secured at the convex bottom of the body, and means being disposed at one end of the body for securing an end of a stencil, the other end of the stencil being normally held by the clamping means which is secured to the cranks pivoted to the sides of the body and which is operated by an operating member secured to the cranks, the operating member normally resting at the top of the handle with its sides extending at the cut-away portions of the sides to permit of the ready and convenient manipulation of the operating member at the said cut-away sides of the body.

Additional objects of the invention will appear in the following specification in which the preferred form of the invention is described.

In the drawing similar reference characters refer to similar parts in all the views, of which

Figure 1 is a plan view of the hand stenciling device,

Figure 2 is a side view of the said device,

Figure 3 is a fragmentary view illustrating the key slots at one end of the stencil, and

Figure 4 is an enlarged fragmentary sectional view illustrating the means for holding the inked pad to the bottom of the convex body.

By referring to the drawing it will be seen that the body 5 of the device has a convex bottom 6 and is preferably provided with a flat top 7, the sides 8 of the body being cut away at 9 to form openings for the fingers of the operator, so that the operator may grip the body 5 at the said cut-away portions 9 at the sides 8 of the body to raise and operate the device as may be desired. Preferably the body 5 is made of wood, and it may be made of soft and light wood, such as pine or basswood. It will be understood that the body may be covered or painted as may be desired.

Against the convex bottom 6 there is disposed a member 10 which may be aluminum metal foil, this member 10 being provided to prevent ink from soaking into the body 5 from the ink pad 11. The aluminum metal foil member 10 may be secured against the convex bottom 5 in any suitable manner, as, for instance, by tacks 12. The ink pad 11, which may be removed independently of the aluminum metal foil member 10, has its ends 13 disposed in recesses 14 at the ends of the convex bottom of the body and the said ends 13 of the ink pad 11 are held in the said recesses 14 by wooden strips 15, the said wooden strips 15 pressing the ends 13 of the ink pad 11 against the walls of the recesses 14 to hold the ink pad in position against the convex bottom 6 of the body 5. It will be understood that this ink pad 11 may be inked in any customary manner and that, when desired, the ink pad 11 may be replaced by removing the wooden strips 15, after which a new ink pad may be disposed in position with its ends 13 held in the recesses 14 in the manner described.

Disposed against the outer side of the ink pad 11 there is a stencil 16, this stencil being prepared in the customary manner by cutting the body of the stencil with a pointed tool, or with a suitable typewriter. One end of this stencil 16 is provided with key slots 17, as best shown in Figure 3 of the drawing, the key slots 17 fitting over pins 18 with the

other end 19 engaged by a clamping member 20. This clamping member 20 extends from side to side of the body 5 and has arms 21 extending inwardly, the arms 21 being pivoted at 22 to cranks 23 which are pivoted at 24 at the sides of the body 5. There are also pivoted to the cranks 23 arms 25 of an operating member 26, the arms 25 being disposed at the sides of the body 5 with the central portion of the operating member 26 extending across the top of the body 5, so that the operating member 26 may be used to rock the cranks 24 to move the clamping member 20 from the position shown by the full lines in Figure 2 of the drawing to the position shown by the dotted lines in the said figure. It will be understood that, when the operating member 26 is moved upwardly, as shown by the dotted lines, the clamping member 20 will be moved away from the end 19 of the stencil 16 to permit the removal and replacement of the stencil, and that when the stencil which is to be used is in proper position, the operating member 26 may be pressed downwardly, as illustrated by the full lines in Figure 2, to draw the clamping member inwardly to hold the stencil in operating position. It will also be understood that this operating member 26 may be conveniently moved upwardly by the placing of the fingers in the cut-away portions 9 at the sides of the body 5, so that a grip may be taken at the underside of the operating member 26 to raise the operating member 26 upwardly or downwardly, as desired.

When the ink pad 16 has been inked and the desired stencil has been secured in place in the manner described, the device may be gripped at the cut-away portions 9 at the sides of the top of the body 5 and the device may be raised and one end pressed down against the copy which is to be printed, and by rocking the device from end to end, the printing will be effected, after which the device may be raised and the operation repeated.

What is claimed is:—

1. In a hand stenciling device, a body having sides cut away to form a handle, means to secure a stencil at one end of the body, cranks pivoted to the said sides at the other end of the body, a clamping member for securing the stencil at the said other end of the body, the clamping member being secured to the cranks, and an operating member secured to the cranks and normally disposed at the top of the body with its sides extending at the said cut-away portions of the body to permit of its convenient manipulation.

2. In a hand stenciling device, a body having sides cut away to form a handle, means to secure a stencil at one end of the body, cranks pivoted to the said sides at the other end of the body, a clamping member for securing the stencil at the other end of the body, the clamping member having arms disposed at the sides of the body and secured to the cranks, and an operating member having arms disposed at the sides of the body and secured to the cranks, the arms of the operating member being normally disposed at the cut-away portions of the sides of the body to permit the user to manipulate the operating member by engaging the latter with his fingers at the said cut-away portions of the sides of the body.

3. In a hand stenciling device, a body having a convex bottom and with its sides cut away to form a handle, means to secure a stencil at one end of the body, cranks pivoted to the said sides of the other end of the body, a clamping member for securing the stencil at the said other end of the body, the clamping member being secured to the cranks, and an operating member secured to the cranks and normally disposed at the top of the body with its sides extending at the said cut-away portions of the body to permit of its convenient manipulation.

4. In a hand stenciling device, a body having sides cut away to form a handle, means to secure a member at one end of the body, a clamping member for securing the member at the other end of the body, and means for moving the clamping member relatively to the body member including an operating member normally disposed at the top of the body with its sides extending at the said cut-away portions of the body to permit of its convenient manipulation.

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