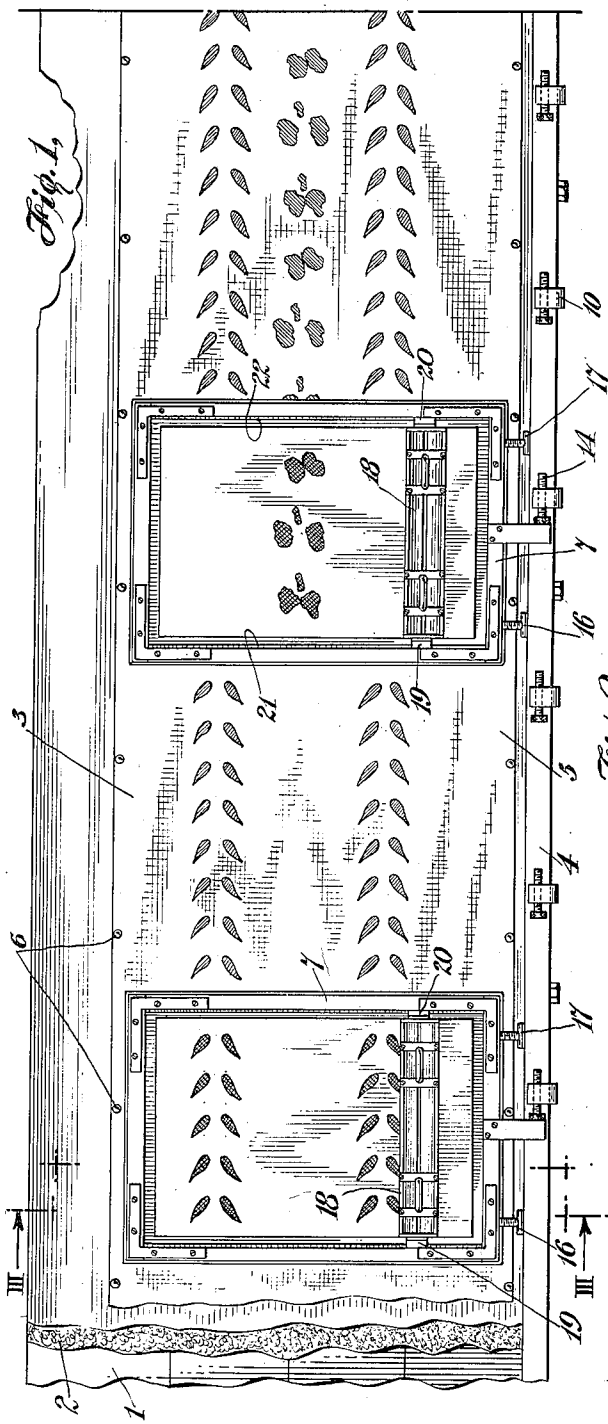
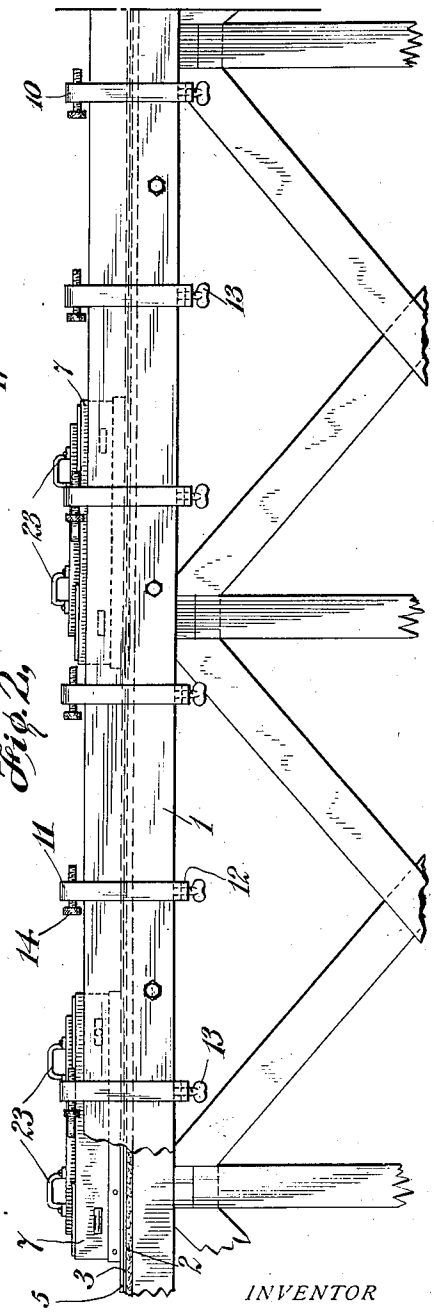
May 20, 1924. 1,494,798

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STENCIL APPARATUS

Filed Feb. 17, 1922 2 Sheets-Sheet 1




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STENCIL APPARATUS

Filed Feb. 17, 1922 2 Sheets-Sheet 2

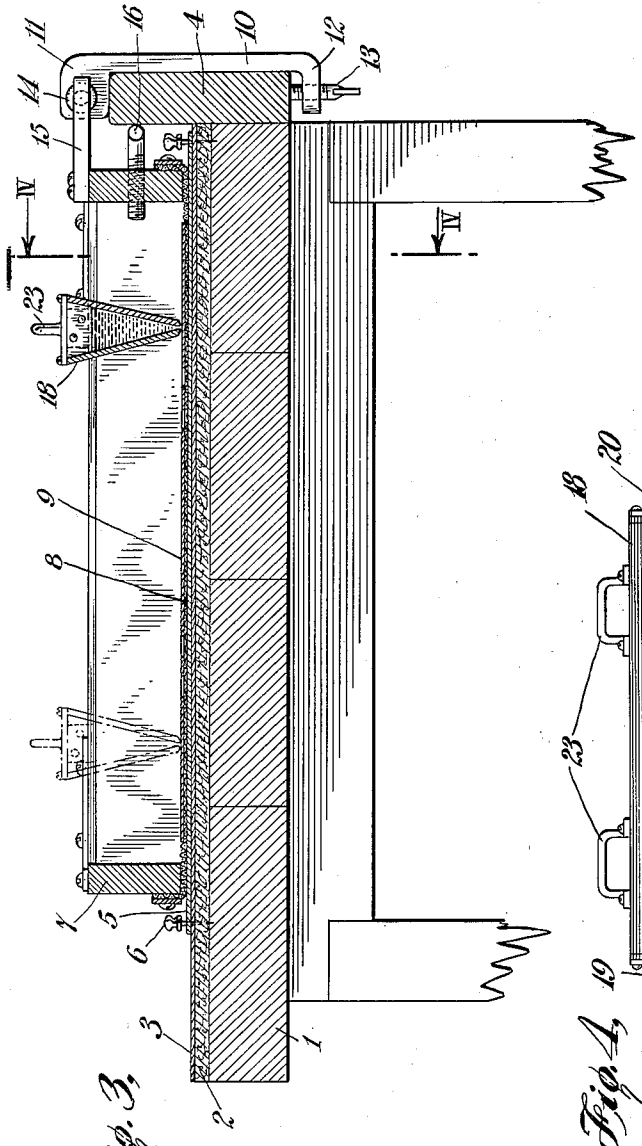



Fig. 3.

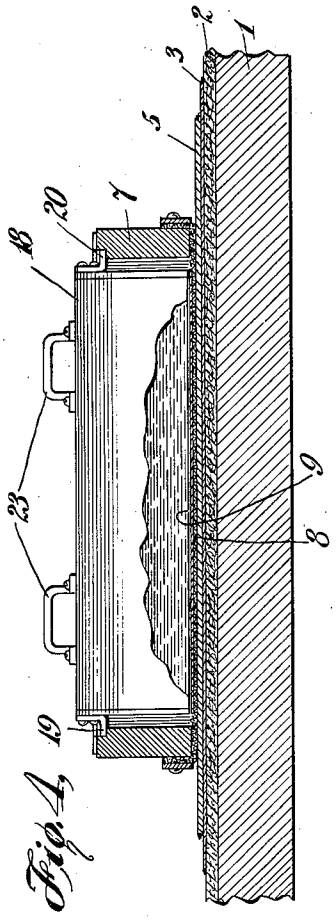



Fig. 4.

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# UNITED STATES PATENT OFFICE.

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## STENCIL APPARATUS.

Application filed February 17, 1922. Serial No. 537,236.

*To all whom it may concern:*

Be it known that I, JOSEPH J. ODAJIAN, a citizen of the United States, and resident of the borough of Manhattan, in the city and State of New York, have invented a new and useful Improvement in Stencil Apparatus, of which the following is a specification.

The object of my invention is to provide a novel apparatus whereby designs either in single or multicolor may be applied to smooth or rough surfaces by hand, means being employed for ensuring accuracy in the application of the design and repeats thereof along the said surface.

My invention includes certain improvements in the construction, form and arrangement of the several parts of the apparatus, whereby the above object may be effectively carried out.

A practical embodiment of my invention is represented in the accompanying drawings, in which—

Fig. 1 represents in top plan the apparatus in use.

Fig. 2 represents a side view of the same.

Fig. 3 represents an enlarged detail section taken in the plane of the line III—III of Fig. 1.

Fig. 4 represents a detail section taken in the plane of the line IV—IV of Fig. 3.

The table 1 of the apparatus may have a covering of felt 2, over which an oilcloth or other impervious material 3 is stretched. A side guide 4 extends along one edge of the table. The sheet material 5 to be stenciled may be a fabric, such for instance as a plain or pile fabric, and it is smoothly stretched on the table parallel to the side guide 4, and it may be temporarily fastened in position along its side edges by pins 6, the felt covering 2 on the table serving to provide a slightly yielding support for the sheet material which is to be stenciled, either in single or multicolor.

A separate stenciling frame 7 may be provided for each design and color, which frame is preferably rectangular and is of the desired size.

The bottom of the frame is herein shown as comprising an open fine mesh fabric; such for instance as bolting cloth, forming a stencil sheet 8, provided with a border 9 of firmer and stronger material, such as oilcloth, by means of which the stencil sheet may be tightly stretched and firmly secured to the frame.

The stencil sheet may have the desired design placed thereon either by sketching the design directly onto the stencil sheet or by placing the sheet over a previously prepared design and then tracing the same onto the stencil sheet. The portion or portions of the design to be painted or stenciled onto the sheet material 5 is left open and the balance of the surface of the stencil sheet is coated with a material impervious to the paint to be used in stenciling the surface of the said sheet material.

To ensure the utmost accuracy in the positioning of the frame on the sheet material to be stenciled, I provide coacting adjusting means between the frame and the side guide 4 of the table as follows:

A plurality of adjustable stops 10 are secured in suitable spaced relationship along the side guide 4, corresponding to the repeats of the design, each stop having upper and lower branches 11 and 12 overlapping the top and bottom of the side guide 4. A set screw 13 passes through the lower branch 12 into engagement with the bottom of the side guide for clamping the stop in its adjusted position thereon. A longitudinally disposed adjusting screw 14 is threaded into the upper branch 11 of the stop. The stencil frame is provided with a positioning arm 15, arranged to engage the head of the screw 14 to properly position the frame longitudinally with respect to the material to be stenciled.

Two laterally arranged adjusting screws 16 and 17 are threaded into the stencil frame adjacent the side guide 4, the heads of which screws are arranged to engage the side guide for positioning the stencil frame laterally with respect to the material to be stenciled.

By turning the screw 14, the longitudinal position of the stencil frame can be adjusted

to the finest degree and by turning the screws 16 and 17, the lateral position of the frame can also be adjusted to the finest degree. This is very important as it ensures the utmost accuracy in the painting of the design on the material being stenciled.

The means for applying the paint onto the material through the open design in the stencil sheet comprises a fountain 18 supported by and slidable along the stencil frame with the discharge slit in the bottom of the fountain in contact with or close proximity to the stencil sheet, thus permitting the deposit of the paint through the open design in the stencil sheet onto the surface being stenciled, as the fountain is moved back and forth along the frame.

In the present instance the ends of the fountain are provided with arms 19 and 20 which rest in grooves 21 and 22 forming tracks along the frame. Suitable handles 23 may be provided for manipulating the fountain. The length of the discharge slit in the bottom of the fountain is preferably the width of the stencil sheet so as to take care of any design formed therein. It will be noted that this fountain is readily removable when so desired.

In the use of my invention, the sheet material to be stenciled is stretched and temporarily secured on the table and the stencil frame is placed on the table with the stencil sheet resting upon the material to be stenciled, the arm 15 of the frame being brought into engagement with the head of the screw 14 of the stop 10 and the heads of the screws 16, 17, brought into engagement with the side guide 4 of the table. The said screws 14, 16 and 17 may then be manipulated to accurately position the frame with respect to the material to be stenciled. The fountain 18 is then manipulated to apply the paint to the material through the open design in the stencil sheet. As soon as the design has been stenciled onto the material, the frame is moved along until it is properly placed in its next position for repeating the stenciling of the design.

In color work it will be understood that any number of these stencil frames may be used, one following the other in the stenciling of the design or designs until the work is completed.

It is evident that various changes may be made in the construction, form and arrangement of the several parts without departing from the spirit and scope of my invention; hence, I do not wish to limit myself to the particular embodiment herein shown and described, but

What I claim is:

1. In an apparatus of the character described, a table on which the material to be stenciled is temporarily secured, a stencil sheet carrying frame adapted to be placed on the material, a paint applying device carried by the frame and movable back and forth along the stencil sheet, means for positioning the frame with respect to the material for original and repeat operations, and means for accurately adjusting the frame longitudinally and laterally.

2. In an apparatus of the character described, a table on which the material to be stenciled is temporarily secured, a stencil sheet carrying frame adapted to be placed on the material, a paint applying device carried by the frame and movable back and forth across the stencil sheet, and means for positioning the frame with respect to the material for original and repeat operations, comprising a side guide and coacting devices on the frame and side guide, said coacting devices being adjustable, one with respect to the other for adjusting the frame longitudinally and laterally.

3. In an apparatus of the character described, a table on which the material to be stenciled is temporarily secured, a stencil sheet carrying frame adapted to be placed on the material, a paint applying device carried by the frame and movable back and forth across the stencil sheet, a side-guide, stops placed along the side-guide and devices carried by the frame for coaction with the side guide, and stops for positioning the frame with respect to the material to be stenciled, said stops being adjustable along the side-guide to correspond to the design repeats.

4. In an apparatus of the character described, a table on which the material to be stenciled is temporarily secured, a stencil sheet carrying frame adapted to be placed on the material, a paint applying device carried by the frame and movable back and forth across the stencil sheet, a side guide, stops spaced along the side guide, adjustable screws carried by the frame for engagement with the side guide for adjusting the frame laterally with respect to the material, an arm carried by the frame and an adjustable screw carried by the stop, engaging said arm for adjusting the frame longitudinally with respect to the material.

5. In an apparatus of the character described, a table having a yielding surface on which the material to be stenciled is temporarily secured, a stencil sheet carrying frame adapted to be placed on the material, a paint applying device carried by the frame and movable back and forth across the stencil sheet, a side guide, stops spaced along the side guide, adjustable screws carried by the frame for engagement with the side guide for adjusting the frame laterally with respect to the material, an arm carried by the frame and an adjustable screw carried by the stop, engaging said arm for adjusting

the frame longitudinally with respect to the material.

6. In an apparatus of the character described, a frame, a stencil sheet of woven fabric having a border of another material attached to the frame, said stencil sheet being coated to leave an open design or designs, and a paint applying device carried by the frame and movable back and forth across the stencil sheet.

In testimony, that I claim the foregoing as my invention, I have signed my name this 14th day of February, 1922.

JOSEPH J. ODAJIAN.