

C. S. TANNER.  
STENCIL PRINTING MACHINE.  
APPLICATION FILED AUG. 5, 1909.

952,589.

Patented Mar. 22, 1910.

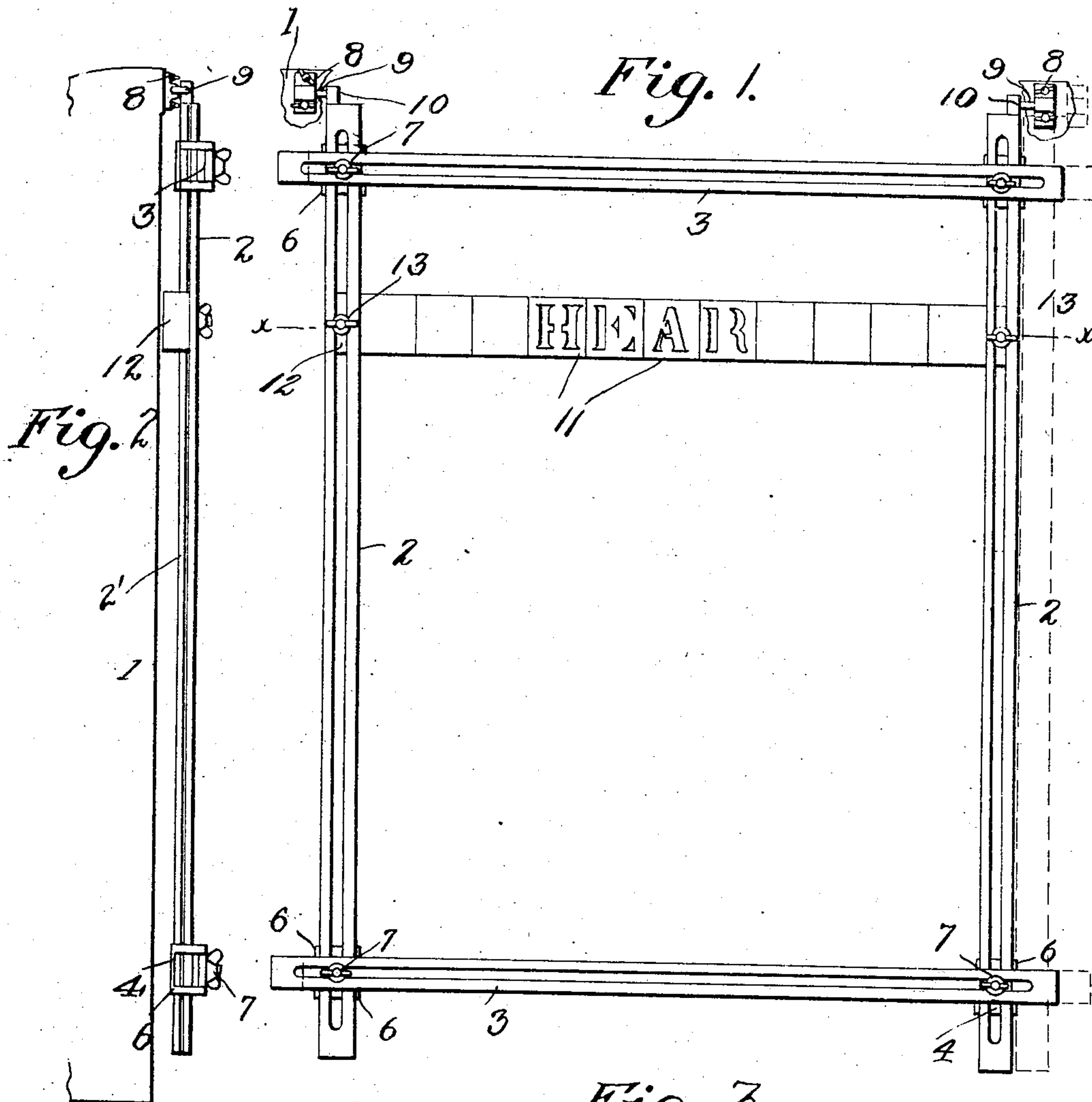


Fig. 2.

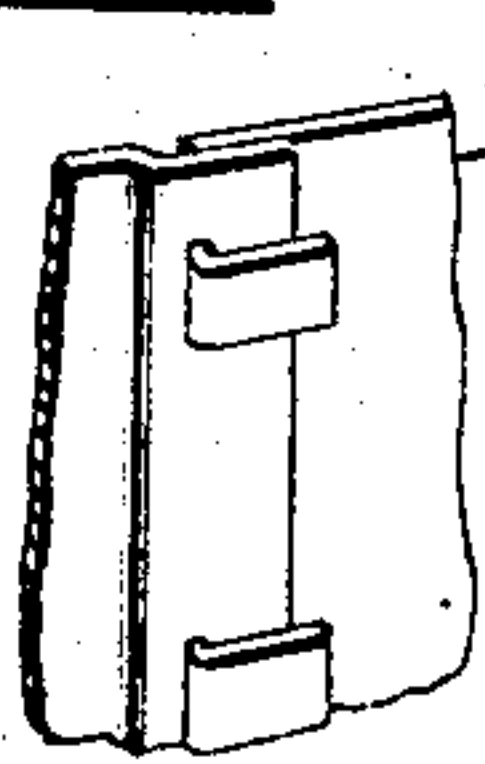


Fig. 6.

Fig. 3.

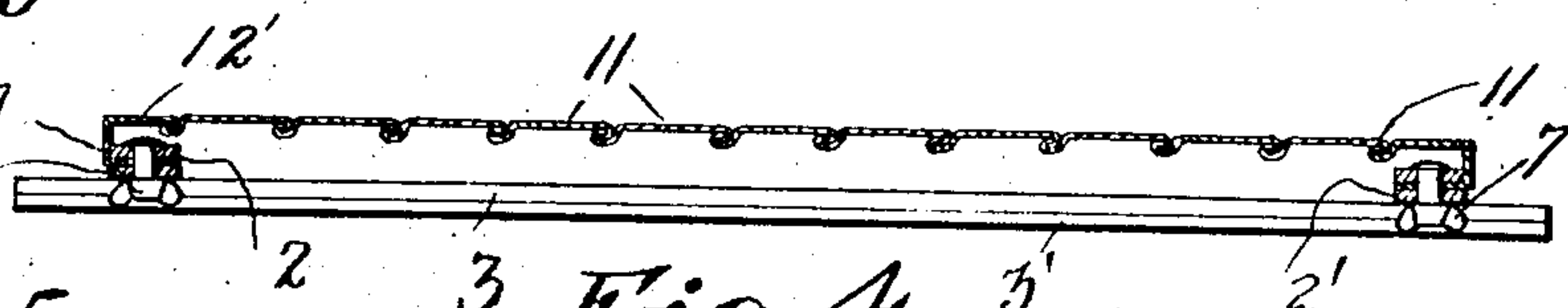


Fig. 5.

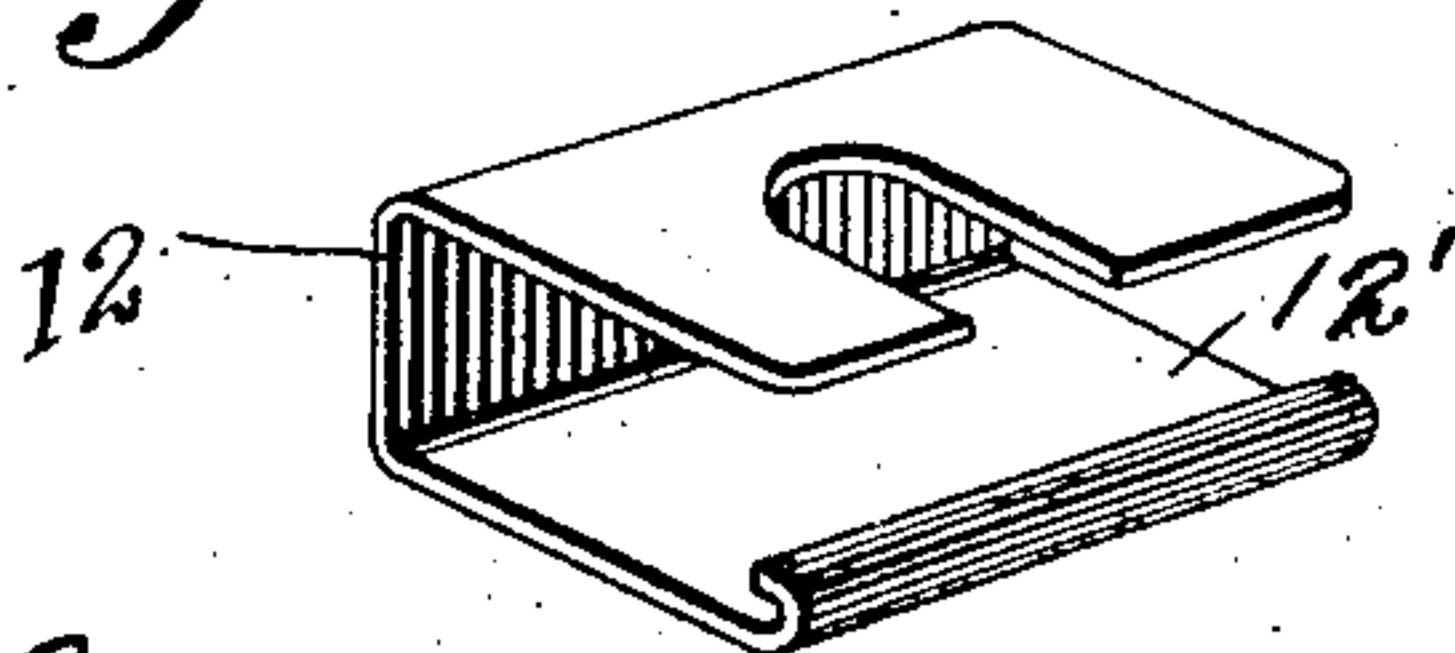
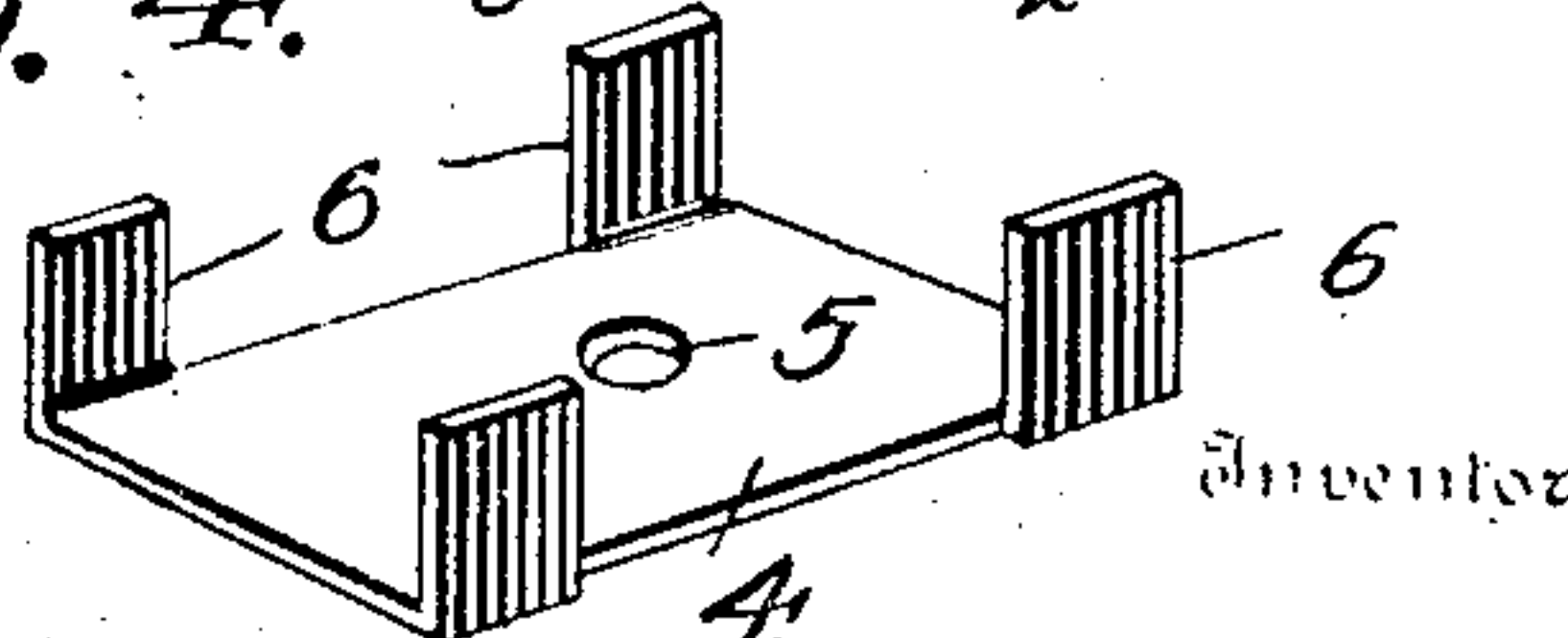


Fig. 4.



Witnesses

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# UNITED STATES PATENT OFFICE.

CURTIS S. TANNER, OF SAN FRANCISCO, CALIFORNIA.

## STENCIL-PRINTING MACHINE.

952,589.

Specification of Letters Patent. Patented Mar. 22, 1910.

Application filed August 5, 1909. Serial No. 511,306.

To all whom it may concern:

Be it known that I, CURTIS S. TANNER, a citizen of the United States, residing at San Francisco, in the county of San Francisco and State of California, have invented certain new and useful Improvements in Stencil-Printing Machines, of which the following is a specification.

This invention consists of a simple device for facilitating printing of posters, notices, dodgers, signs, and similar matter by means of stencils.

In its more specific construction the invention embodies a peculiar form of frame adjustable to permit of printing large or small printed matter, and peculiar securing means for connecting the stencils with the frame, the parts of the frame together, and the whole device to its base.

For a full comprehension of the invention including its merits and advantages reference is to be had to the following detail description, and to the accompanying drawings in which—

Figure 1 is a plan view of a device embodying the essential features of the invention; Fig. 2 is a side edge view; Fig. 3 is an inverted transverse section about on the line  $x-x$  of Fig. 1; Fig. 4 is a detail perspective view of one of the frame adjusting plates; Fig. 5 is a detail perspective view of one of the supporting plates for a line of stencils and blanks, and Fig. 6 is a perspective of a modification of the stencil construction.

Throughout the drawings and description similar reference characters refer to similar parts.

Specifically describing the invention as illustrated it will be observed that the device is mounted upon a suitable base 1 and comprises a frame composed of the opposite sides 2 and the top and bottom sides 3. The sides 2 and 3 are slotted nearly the entire length thereof and said slides are connected together by means of adjusting plates 4. The plates 4 each consist of a body portion having a central aperture 5 and outstanding corner lugs 6. Each plate 4 fits against the under side of the sides 2 of the frame, and the corner lugs 6 project outwardly so as to engage with the upper and lower edges of the sides 3 which are received between the upper and lower pairs of lugs of each plate. A suitable fastening in the form of a bolt and thumb nut passes through the

plate 4 at each corner of the frame, and also through the slots in the connected sides 2 and 3, said fastening being shown at 7 and permitting of ready adjustment of the sides of the frame to increase or decrease the size of the space in which the stencils are arranged. Suitable plates 8 having pintles 9 projecting laterally therefrom are secured to the base 1, said pintles 9 being received in sockets of plates 10 attached to the upper ends of the sides 2. In other words, the frame carrying the stencils is pivoted at one end to the base 1 and its free end may be readily raised or lowered to facilitate the removal of a printed sheet or poster from beneath the frame, the plates 8 being detachably secured to the base by thumb-screws to permit adjustment of the sides of the frame.

The stencils are shown at 11 and preferably consist of plates having flanges at their edges, preferably the side edges, the several flanges of the stencils being adapted to hook over one another in the formation of a line of stencils as shown most clearly in the drawings. Any suitable means may be used, however, for connecting the stencils together, this being immaterial within the spirit of the invention.

For mounting each line of stencils and its connected blanks on the frame it is contemplated to provide a plurality of line holding plates 12, said plates comprising an outer transversely slotted portion and an inner line supporting member 12'. An end portion of each plate 12 is bent to form the line supporting member 12' in spaced relation thereto, said line supporting member 12' having a flange on its free edge adapted to interlock or engage that of a stencil or blank connected with and forming a part of the stencil line. The line holding plates 12 are attached to the sides 2 of the frame by means of fastenings 13 which pass through the slots in the sides 2 and also through the slot in the outer body portion of the plate 12 which rests in contact with the inner face of the side 2 adjacent to which it is arranged. It will be apparent that the mounting of the plates 12 is such that they may be readily adjusted longitudinally of the sides 2 according to the number of lines of stencils to be used for printing the sheet.

The invention is very simple in construction but permits of considerable adjustment of the parts for the purposes for which it



is designed. The mounting of the frame in a pivotal manner on the base is also advantageous for obvious reasons.

The lines of stencils are spaced from the rear side of the frame by reason of the peculiar formation of the plates 12 and they will lie in close contact with the sheet when the frame is in its normal position.

The frame of the device is adapted to be extended so as to be practically double the size shown in Figs. 1 and 2 of the drawings. For the above purposes the sides 2, as well as the ends 3 are made in sections arranged one above the other and in close contact, the lowermost sections of the sides and ends being designated 2' and 3' respectively. Of course both sections of the members of the frame are provided with slots through which the fastenings 7 pass. Whenever it is desired to enlarge or decrease the size of the frame for the purpose of printing a large or small poster or notice the fastenings 7 are loosened and the sections of the sides and ends of the frame are slid longitudinally until they reach the desired positions in which they are adjusted by said fastenings 7. Furthermore the plates 8 having the bearings for the pintles 9 are secured to the base 1 by thumb-screws, whereby the location of said plates may be adjusted in order to accommodate for adjustment for the size of the frame of the device.

It may be noted that the metal line holders 12 have their outer portions received between the sections of the sides and ends of the frame, normally, which latter practically clamp the members 12 in position when the fastenings 13 are tightened. However, when the sections of the sides and ends of the frame are so adjusted as to increase the size of the frame the outer slotted portion of the members 12 are secured in contact with the inner sides of the outer sections and the outer sides of the inner sections, so that the line holder will support the lines of stencil in the same plane and for proper printing.

The modification of the invention shown in Fig. 6 illustrates one other method of connecting the stencil and blanks together at adjacent edges. In this construction the stencils are connected by means of hooks at the edge of one stencil engaging in slots or openings at the edge of the adjacent stencil. It is to be understood of course that any suitable means may be employed for connecting the stencils together.

Having thus described the invention, what is claimed as new, is:—

1. A stencil printing frame comprising a plurality of sides slotted longitudinally thereof, adjustable connecting means for said sides comprising corner plates having outwardly projecting lugs between which certain sides of the frame extend longitudinally of the plates, the opposite transversely arranged sides of the frame extending between said lugs also, stencils connected with the frame and fastening members passing through the plates and the slots of the sides of the frame to adjustably hold said parts in connection.

2. In combination, a stencil printing frame comprising a plurality of sides, adjustable connections between said sides, and supporting means for lines of stencils consisting of plates secured to the rear side of the frame and having line holding members in spaced relation thereto, said line holding members being provided with means for connecting the same with a line of stencils and blanks.

3. In combination, a stencil printing frame comprising a plurality of sides, stencils, and means for supporting the stencils in proper relation on the frame including line supporting plates, each line supporting plate comprising a slotted side, a stencil engaging side in spaced relation thereto, and a fastening passing through the slot of the slotted side and securing the plate to a side of the frame.

4. In combination, a stencil printing frame comprising a plurality of sides, each side consisting of superposed slotted sections, fastenings connecting the sides and near adjacent ends and passing through the slots to permit of adjustment of said sides and the sections thereof, a stencil supporting device for the frame comprising line supporting plates, each line supporting plate being bent to provide spaced sides, one side having a slot therein and being received between the sections of a side of the frame, and fastenings passing through the slot of the line supporting plate detachably and adjustably thereto, the other side of the line supporting plate being adapted to interlock with a stencil substantially as and for the purpose set forth.

In testimony whereof I affix my signature in presence of two witnesses.

CURTIS S. TANNER.

Witnesses:

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