April 6, 1937. J. N. HALSTED 2,076,024

SIGN PROCESS TABLE

Filed Jan. 28, 1935 2 Sheets-Sheet 1

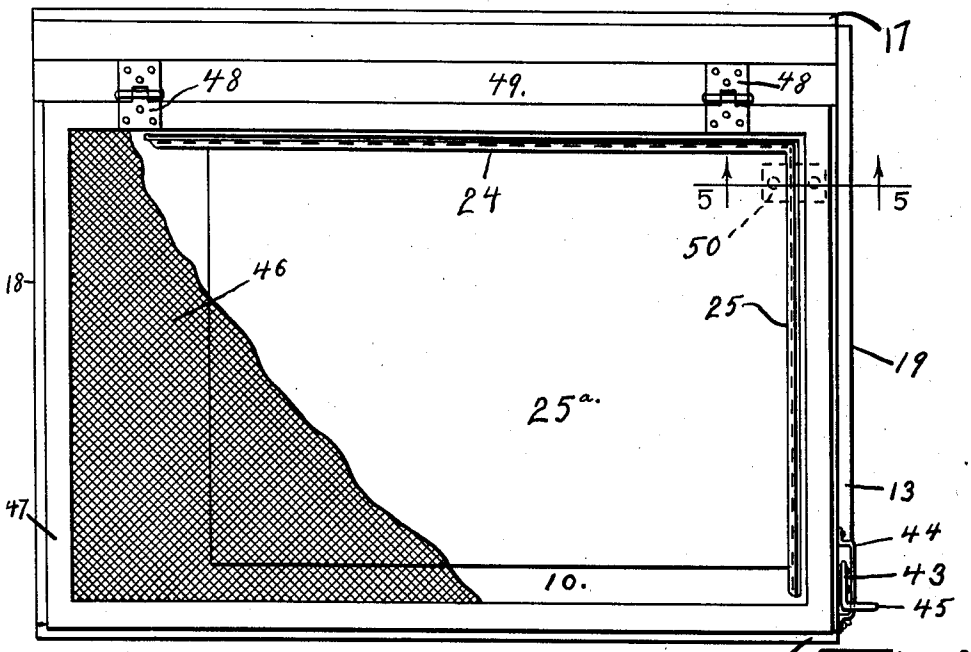


Fig. 1.

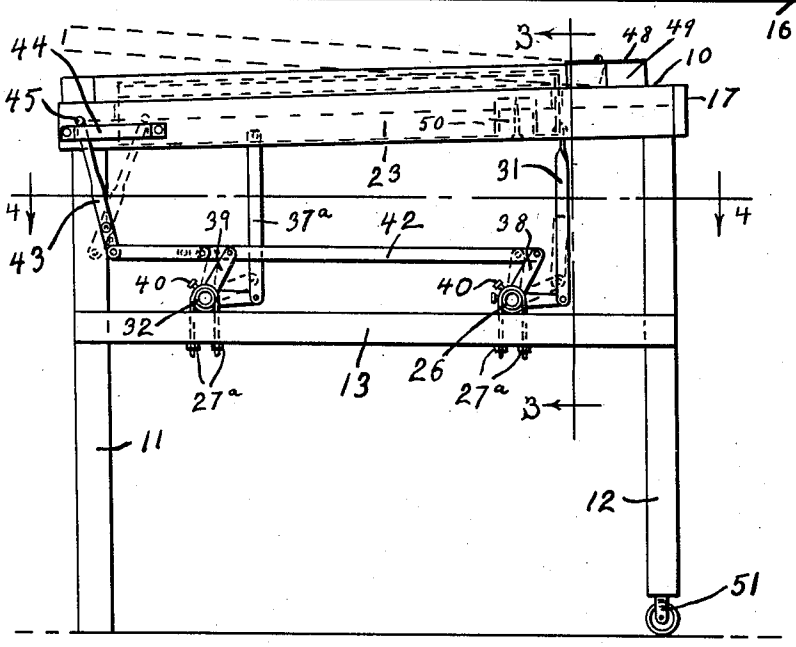


Fig. 2.

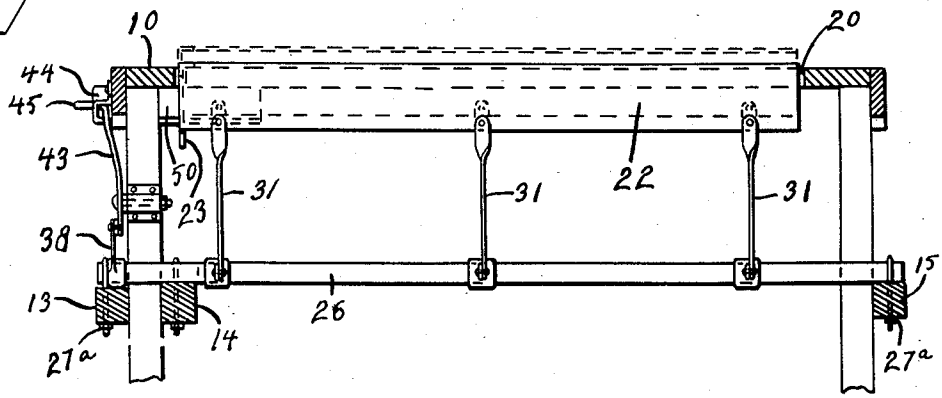
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SIGN PROCESS TABLE

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Fig. 3.



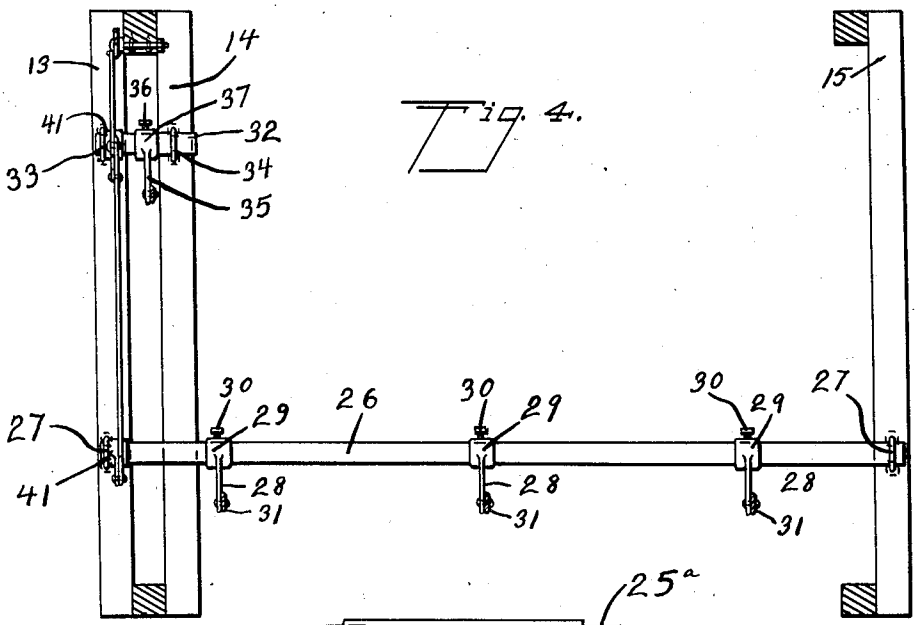


Fig. 4.

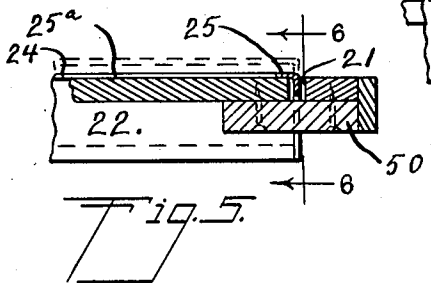


Fig. 5.

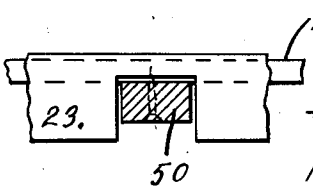


Fig. 6.

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UNITED STATES PATENT OFFICE

2,076,024

SIGN PROCESS TABLE

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Application January 28, 1935, Serial No. 3,872

3 Claims. (Cl. 101—126)

This invention has to do with the art of sign process tables for holding cards and the like for stenciling in the making of signs and of tables of said character generally.

In the process of making signs and posters and the like cards are placed on a flat surface and covered with a transparent screen or stencil. Color is then applied to the cards through the stencil. For signs and the like having several colors several stencils are used and it is essential that the cards and stencils be in register in order to avoid overlapping of the different colors. In the process, as at present practiced, a card or the like is placed on a flat surface such as a table top and the stencil or screen adjusted over it. Due to the difficulty in adjusting and holding the card and stencil in register the process is relatively slow and signs are easily spoiled, particularly when the card becomes warped or bowed as often occurs from changes in atmospheric conditions.

It is therefore the object of my invention to provide a sign process table for use in painting signs in the stencil type of process sign painting whereby cards may be quickly and easily secured to the table top to register with a stencil or screen and from which said cards may be as easily and quickly released and removed.

Another object of the invention is to provide a table of the character mentioned that will securely hold a card on the top thereof and prevent said card from adhering to the stencil when said stencil is raised.

Another object is to provide a table of the character mentioned adapted to hold circular cards and cards of irregular shape as well as regular square or rectangular cards.

A further object is to provide a table of said character that will hold cloth upon which signs are to be painted and which will even hold framed cards.

A still further object is to provide a table whereby warped or bowed cards may be handled as accurately and satisfactorily, in the process of sign painting mentioned, as normal unbowed or unwarped cards.

Another object is to provide a table of the character mentioned that may be easily moved around and which will be stable when in use.

Other objects of the invention will appear in the following detailed description taken in connection with the accompanying drawings wherein:

Figure 1 is a plan view of the invention with a stencil on the top thereof, said stencil being partly cut away.

Figure 2 is a side view of the same.

Figure 3 is a partial section taken on line 3—3 of Figure 2.

Figure 4 is a sectional view taken on line 4—4 of Figure 2.

Figure 5 is a partial section taken on line 5—5 of Figure 1.

Figure 6 is a partial section taken on line 6—6 of Figure 5.

Referring more particularly to the drawings the reference numeral 10 indicates a table top supported at the front corners by legs 11 and at the rear corners by legs 12. The legs at one side are connected by horizontal braces 13 and 14 spaced below the top 10 and secured at their ends to the outer and inner sides respectively of said legs. The top 10 is reinforced at its edges by downwardly extending members 16, 17, 18 and 19 secured to the front, rear and sides respectively. An angular, vertical slot is provided in the top, the rear portion 20 thereof being adjacent the rear edge of the top and parallel thereto, and the side portion 21 being adjacent the right hand edge of said top and parallel thereto. The slot is adapted to slidably receive an angular clamp member provided with a rear portion 22 and a side portion 23 for the rear and side slot portions respectively. The clamp member comprises a single extended piece of metal or the like and is provided adjacent its upper end with an inturned flange, a portion 24 of which is provided on the rear portion 22 of the clamp member and a portion 25 being provided on the side portion 23 of said clamp member. Said flange portions 24 and 25 are normally spaced above the upper surface of the top 10 which is horizontal and are adapted to be moved into clamping engagement with the top, said top serving as the stationary jaw of a complete clamp adapted to clamp or grip the edges of a card 25a and secure same to the top.

The operating mechanism to operate the clamp member comprises a shaft 26 operatively mounted on the braces 13 and 15 by means of U-shaped bars 27 mounted in the braces 13 and 15 and secured therein by nuts 27a threadably received on the ends of said bars 27. A plurality of levers 28, having collars 29, are secured on the shaft 26 by means of set screws 30 in said collars 29 which are received on the shaft 26. The levers 28 extend rearwardly of the shaft and are spaced longitudinally thereon. The rearward ends of said levers are operatively connected to the rear

portion 22 of the clamp member by links 31. A short shaft 32 is operatively secured to the top side of the braces 13 and 14 by U-shaped bars 33 and 34 bolted to the respective braces. A rearwardly extending lever 35 is mounted on the shaft 32 intermediately of its ends between the braces 13 and 14 and secured to said shaft 32 by a set screw 36 in collar 37 of said lever. The rearward end of lever 35 is operatively connected with the side portion 23 of the clamp member by a link 37a. Upwardly extending levers 38 and 39 are mounted on the shafts 26 and 32 respectively and secured to said shafts by set screws 40 in collars 41 of said levers. The upwardly extending ends of the levers 38 and 39 are operatively connected with a horizontal operating bar 42, the front end of said bar being operatively connected with the lower end of a lever 43 by a link 42a. Lever 43 is intermediately pivoted to the adjacent front leg 11. The upper end of lever 43 is slidably received in a guide 44 secured to downwardly extending member 19 and said upper end of lever 43 is provided with an outwardly extending handle 45. The normal position of the upper end of the lever is rearwardly, in which position the flange of the clamp member is raised above the top of the table.

A forward pull on the handle 45 operates the mechanism intermediate of lever 43 and the clamp member which moves the clamp member downward and brings the flange portions of said clamp member into clamping association with the top of the table.

A transparent screen or stencil 46, mounted in a frame 47 hinged by means of hinges 48 to a cleat 49 secured to the top, is adapted to be swingingly lowered onto and raised from the top 10 in registered relation to the card 25a clamped to said top by the flange portions of the clamp member.

A block 50 is screwed to the under side of the top 10 across slot 21 adjacent the rear of said slot to reinforce the top, and the side portion 23 is notched to receive said block 50. The legs 12 at the rear of the table are provided with castors 51 to provide means for rolling the table from one place to another when the front legs 11 are raised from the floor. When the legs 11 are on the floor the table is stable for working thereon and will not roll or slide readily.

In carrying out the process of painting signs with stencils on my table a card is placed on the top with its rear edge abutting against the rear portion of the clamp member and its right edge abutting against the side portion of the clamp member. Lever 43, normally in its rear position when the clamp member is raised, is pulled forwardly thereby operating the intermediate mechanism and lowering the clamp member thus bringing the flange portions into clamping engagement with the edges of the card and securing same to the top. The card is therefore always held in a position on the top to register with the stencil which is lowered onto said card and the paint applied therethrough. The stencil is raised after the application of paint to the card, the clamp holding the card securely to the table and preventing same from raising with the stencil.

As the clamp member is a continuous piece with continuous flanges thereon it is adapted to grip or clamp the edges of circular cards of various sizes or cards of irregular shape as well as rectangular or square cards. Warped or bowed cards can be easily pressed down on the top and inserted under the flanges and clamped securely. The device will also handle pieces of cloth upon which signs are to be painted. The clamp is also adapted to secure framed cards to the top.

Cards are always held in exact register with the stencil and the painting process may be carried out at a greatly increased speed compared to the methods now employed.

Having thus described my invention what I claim is:

1. In a sign process table, the combination, a top having slots adjacent two sides thereof, said slots being at substantially right angles to each other and meeting at their adjacent ends, a continuous angular clamp member received in said slots, said clamp member having a continuous inturned flange, said clamp member being slidable in the slot with the flange normally spaced above the upper surface above said top, and means for bringing the flange into clamping engagement with the top of the table.

2. In a device of the class described, the combination, a top having an angular slot therein, means adjacent the angle of the slot supportably connecting the portions of the top on each side of the slot, a continuous angular clamp member in said slots, said clamp member having a continuous inturned flange, said clamp member being slidable in the slot, and means for elevating and lowering the clamp member in the slot.

3. In a sign process table, the combination, a top having an angular slot therein, a continuous angular clamp member having a continuous inturned flange, said clamp member being slidable in the slot with the flange normally spaced above the upper surface of said top, and means for slidably operating the clamp member to bring the flange into clamping engagement with the top of the table for clamping a card on a plurality of sides to said top.

JESSE N. HALSTED.