

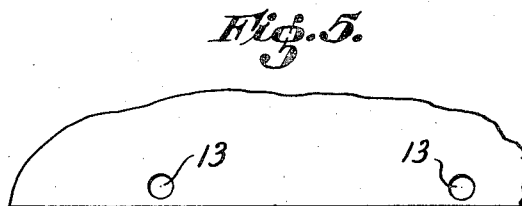
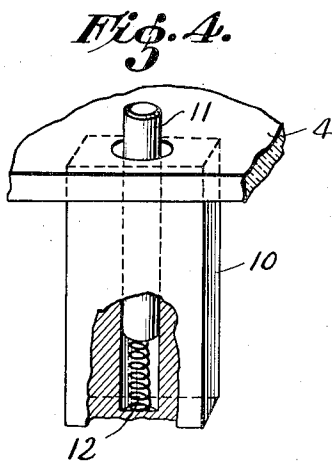
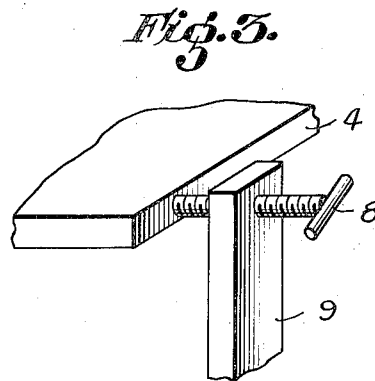
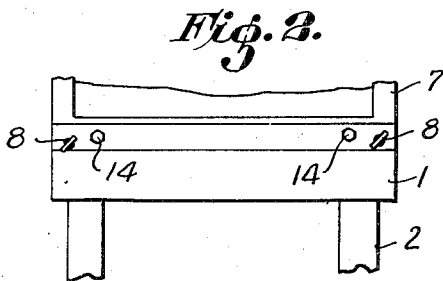
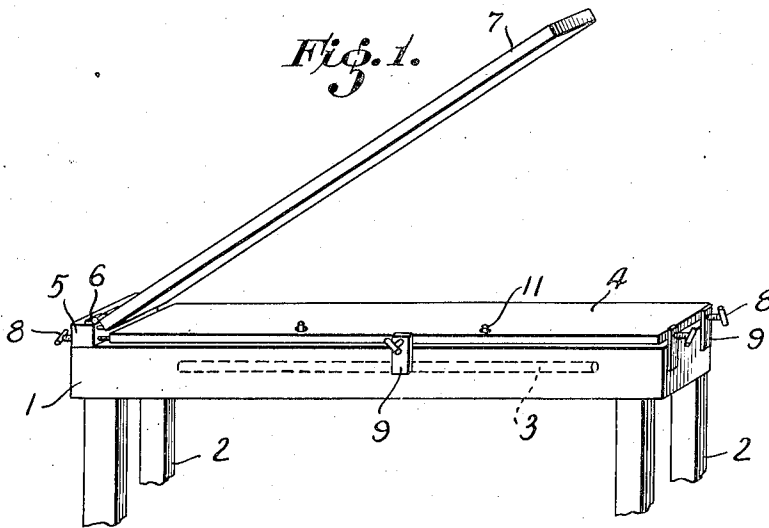
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COLOR PROCESS REGISTRATION TABLE

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COLOR PROCESS REGISTRATION TABLE

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1 Claim. (Cl. 101-126)

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The invention relates to a color process registration table.

The table to which the invention has particular application is of the type wherein a silk screen or stencil, previously treated to produce a stencil of a given pattern, is imposed upon a work sheet which is carried by a transparent bed supported by the table and patterned to form a blank for the reception of color impressions imprinted thereon through the screen thereabove.

The invention has for an object to provide a color process table capable of supporting the screen and work sheet in precise registration relative to each other and to thus maintain the work throughout multiple successive printings of the sheets.

Another object is to provide a table of the character described in which registration of screen and work sheet may be readily effected.

A further object is to provide a table for the purpose intended which may be readily and economically manufactured.

According to the invention, the table has a transparent bed for the support of a blank work sheet, and a stencil screen frame having a hingeable connection with the table, with means carried by the table and engageable with the screen frame whereby to tighten the hingeable connection to remove loose play therefrom; adjusting means applicable to the work bed to shift the bed in relation to the screen, and a light source comprising continuous, elongated lamps positioned below the work bed to project a uniform illumination upwardly therethrough.

The invention is embodied in a color process registration table exemplified in the accompanying drawings, in which the views are as follows:

Fig. 1, a perspective of the table with the screen frame pivoted upwardly from the work sheet;

Fig. 2, a partial end elevation of the table taken from the left as viewed in Fig. 1;

Fig. 3, a detail in perspective of one of the bed adjusting screws;

Fig. 4, a detail in perspective of one of the guide peg assemblies; and

Fig. 5, a fragmentary plan of a work sheet showing the perforations engageable by the guide pegs to effect the positioning of the sheet relative to the work bed.

The color process registration table has a rectangular main frame 1, which may be of wood or other suitable material, and is supported at a convenient working height by legs 2 arranged under the corners of the frame.

Arranged within the frame 1, is a light source

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comprising a plurality of elongated, continuously formed lamps 3, nested in laterally spaced relation and extending longitudinally of the frame for the purpose of directing an even and uniform illumination toward the work thereabove.

The lamps 3 may be secured in any convenient manner to the inner faces of the frame 1 and equipped with the required brackets and electrical connections by means conventional in the art (not shown).

The frame 1 has arranged thereon a work sheet supporting bed 4 of glass or like transparent material.

Fastened to the frame at one end thereof is a rectangular hinge block 5, to which is pivoted, as by hinges 6, a screen supporting frame 7, adapted for vertical pivotal movement in relation to the work bed 4.

The frame 1 has arranged about the outer faces thereof a plurality of spaced apart adjusting screws 8 which are threaded into brackets 9 secured to the frame and projecting thereabove to bring the screws 8 into horizontal alinement with the work bed 4. The screws 8 are engageable with the bed 4 whereby to adjustably position the bed in relation to the frame 1 and the structure thereabove, in a manner which will be readily understood.

The bed 4 has secured to the underside thereof, a plurality of guide peg blocks 10, each of which is recessed along its vertical axis to receive a guide peg 11 urged normally upward by a coil spring 12 arranged therebelow. The guide pegs are adapted for engagement with corresponding perforations 13 slotted in the work sheet whereby to position the sheet in predetermined relation to the work bed 4 thereunder. Thus, when the work bed is shifted as required for registration, the guide pegs are integrally shiftable therewith.

The hinge block 5 is provided with a pair of screen adjusting screws 14 passed transversely therethrough and adapted to engage the contiguous face of the screen frame 7.

The adjusting screws 14 have for their function to urge the screen frame 7 away from the hinge block 5 to tighten the hinges 6 for the removal therefrom of loose play developed from continued movement of the screen frame, thus facilitating the registration of the patterns of the screen and work sheet. The screen frame adjusting screws 14 thus serve to supplement the primary function of the bed adjusting screws 8 in effecting the precise registration of the patterns.

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In practice, a work sheet bearing a blank pattern and perforated for engagement by the guide pegs, is applied to the transparent work bed 4. The screen frame, bearing a screen or stencil, is pivoted downwardly to superpose the work sheet and the screws 14 are manipulated to tighten the hinges so as to insure the return of the screen frame to operative position upon the work sheet in precise predetermined registration with the patterns thereon. The bed adjusting screws may then be operated to shift the bed 4 and work sheet thereon into the required position to maintain the registration of the patterns throughout successive printings of the sheets.

The arrangement of the light source in continuous and elongated lamps provides an even and uniform illumination to facilitate observation of the patterns in stencil and work sheet, minimizing the occurrence of light and dark areas in the field of view.

It will be seen that the invention provides a color process registration table of the character described which may be readily and economically fabricated and assembled and in which the precise registration of the patterns in work sheet and stencil screen may be readily effected and maintained.

Of course, the invention is susceptible of various modifications without departing from the scope thereof, as hereinafter claimed.

I claim:

A color process registration table, comprising in combination, a rectangular main frame, a transparent work bed carried thereby and shiftable horizontally thereon and adapted to sup-

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port a work sheet having multiple perforations at predetermined spacings, a plurality of guide pegs carried by said work bed and shiftable therewith, said pegs projecting upwardly from said bed to engage said perforations to position said sheet in relation to said bed, a hinge block formed on said main frame at one end thereof, a screen frame overlying said work sheet and having a hingeable connection with said hinge block, threaded adjustment members carried by said hinge block and engageable with said screen frame to urge said screen frame away from said block to tighten said hingeable connection for the removal of loose play therefrom, a plurality of continuous and elongated lamps nested within said main frame below said work bed and longitudinally thereof, a plurality of bed adjusting members carried by said main frame and engageable with said bed to effect the horizontal adjustment thereof in relation to said screen frame.

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