Aug. 14, 1951 W. L. STEEN ET AL 2,563,972

STENCIL HOLDER

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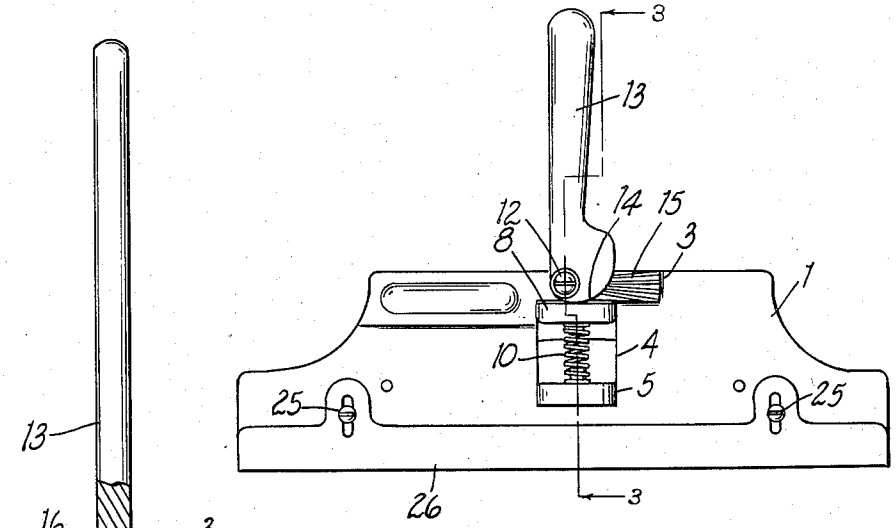


Fig. 1.

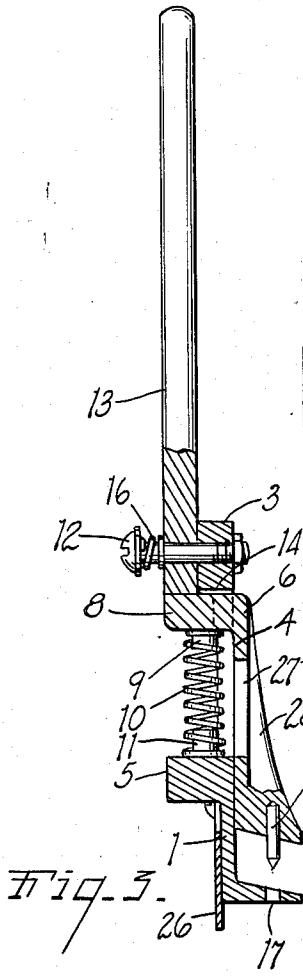


Fig. 3.

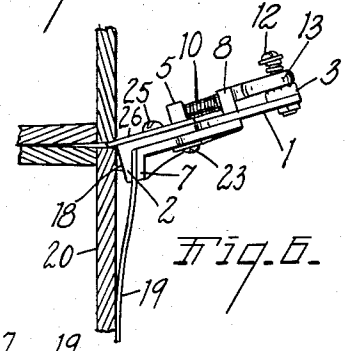


Fig. 6.

Fig. 4.

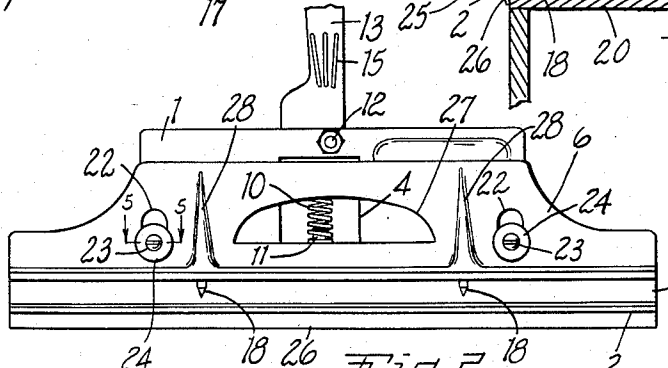


Fig. 2.

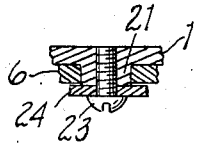


Fig. 5.

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STENCIL HOLDER

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6 Claims. (Cl. 101—114)

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This invention relates to improvements in stencil holder.

The principal objects of this invention are:

First, to provide an inexpensive compact stencil holder which is operative to positively engage and securely hold a piece of stencil board or paper while the indicia on the stencil is being applied to a carton or the like.

Second, to provide a stencil holder with a set of prongs which are operative to positively engage the stencil and also to temporarily engage the wall of a carton when applied thereto to prevent slipping of the holder and stencil during application of the stencil brush to the stencil.

Third, to provide a stencil holder having an adjustable guide edge by means of which the holder and stencil can be located relative to the edge of a carton to provide a uniform stencil marking on a series of cartons.

Fourth, to provide a stencil holder which is easily and uniformly applicable to a series of either horizontally or vertically arranged carton surfaces so that the operator's hand does not come in contact with the soiled stencil and so that the stencil indicia is clear and uniformly located on the cartons.

Other objects and advantages of the invention will appear from the description to follow. The invention is defined and pointed out in the claims.

The drawings of which there is one sheet illustrate a preferred form of the stencil holder.

Fig. 1 is a view of the under-side of the holder in open or non-clamping position.

Fig. 2 is a fragmentary plan view of the holder in open position.

Fig. 3 is a cross sectional view along the broken line 3—3 in Fig. 1.

Fig. 4 is an elevational view of the holder in operative position on the horizontal surface on a carton to be stenciled.

Fig. 5 is a fragmentary cross sectional view along the line 5—5 in Fig. 2.

Fig. 6 is a view of the holder in operative position to stencil the vertical surface of a series of stacked cartons.

The holder consists of a generally flat body member 1 having an upwardly extending flange 2 on the forward edge thereof and a downwardly extending thickened boss 3 on the rear edge thereof. The body 1 defines a transverse slot 4 and is provided with a downwardly projecting abutment 5 at the forward edge of the slot.

Mounted on the body 1 is a plate-like slide member 6 having an upwardly extending flange 7 on the forward edge thereof. The front surface

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of the flange 7 is cooperative with the rear surface of the flange 2 on the body member and these surfaces are forwardly inclined as is most clearly illustrated in Figs. 3, 4, and 6. The under surface of the slide member 6 is provided with a downwardly projecting ear 8 at its rear edge which projects through the slot 4 and is provided with a forwardly extending centering pin 9. A coil spring 10 positioned between the pin 9 and a cooperating pin 11 on the boss 5 constantly urges the slide member and flange 7 rearwardly away from the flange 2 on the body member.

The thickened portion 3 of the body member carries a pivot bolt 12 on which is rotatably mounted the clamping arm 13. The forward or inner end of the arm 13 is provided with a cam shaped nose 14 cooperative with the rear surface of the ear 8 to urge the slide member 6 forwardly when the clamp arm is swung to overlapping relationship with the rear of the body member. The mating surfaces of the thickened portion 3 and arm 13 are preferably serrated as at 15 in Figs. 1 and 2 to hold the arm in its clamped position. A spring 16 positioned between the clamp arm and the head of the bolt 12 holds the serrations firmly engaged. The flange 2 on the body member 1 defines a pair of apertures 17 (see Fig. 3) arranged to pass the locking pins 18 projecting from the flange 7 on the slide member. The pins 18 are sharply pointed so as to pierce a piece of stencil board indicated at 19 when the stencil is clamped between the flanges 2 and 7 and to project forwardly of the flange 2 for engagement with the surface of a carton to be stenciled, indicated at 20 in Figs. 4 and 6.

Movement of the slide member on the body member is guided by a pair of bosses 21 projecting upwardly from the body member through spaced parallel slots 22 in the slide member 6. Screws 23 and washers 24 are secured to the boss 21 to retain the slide member on the body member. The under surface of the body member 1 is provided with a pair of laterally spaced screws 25 for adjustably clamping a guide plate 26 to the under surface of the body member. The screws 25 extend through transverse slots in the guide plate 26 so that the guide plate may be extended and clamped to the body member to engage the edge of a carton and lock the stencil relative to the edge of the carton. This guide plate 26 can be engaged with any free edge of an individual carton or can be pressed between two stacked cartons as shown in Figs. 4 and 6 respectively so that a series of cartons can be stenciled with the stencil marking uniformly

located on each carton. When it is desired to apply the stencil to the center of a carton the guide plate can be retracted.

The semi-elliptical opening 27 in the slide member serves to lighten the holder and the tapered ribs 28 reinforce the flange 7 as well as providing stock for the formation of the holes which receive the pins 18.

We have thus described a highly practical form of our stencil holder so that others may reproduce the same with such modifications as may be desired.

Having thus described our invention what we claim as new and desire to secure by Letters Patent is:

1. A stencil holder comprising, a plate-like body member having an upwardly projecting flange on the forward edge thereof and defining a transversely extending slot toward the rear of said flange, a slide member slideable on said body member and having an upwardly projecting flange on the forward edge thereof cooperative with said flange on said body member, the opposed surfaces of said flanges being forwardly inclined, pointed locking pins projecting from said flange on said slide member, said flange on said body member defining apertures for passing said pins whereby said pins will project therebeyond, an ear on said slide member projecting through said slot, an abutment on the under side of said body member opposed to said ear, a spring positioned between said ear and said abutment and urging said slide member rearwardly, a clamp arm pivotally mounted on said body member and having a cam portion engageable with said ear to move said slide member forwardly against said flange on said body member, said arm and body member having mating serrations for holding said arm in clamped position, and a guide plate adjustably secured to the bottom of said body member to project beyond the front edge thereof.

2. A stencil holder comprising, a plate like body member having an upwardly projecting flange on the forward edge thereof and defining a transversely extending slot toward the rear of said flange, a slide member slideable on said body member and having an upwardly projecting flange on the forward edge thereof cooperative with said flange on said body member, locking pins projecting from said flange on said slide member, said flange on said body member defining apertures for passing said pins whereby said pins will project therebeyond, an ear on said slide member projecting through said slot, an abutment on the under side of said body member opposed to said ear, a spring positioned between said ear and said abutment and urging said slide member rearwardly, a clamp arm pivotally mounted on said body member and having a cam portion engageable with said ear to move said slide member forwardly against said flange on said body member, and a guide plate secured to the bottom of said body member to project beyond the front edge thereof.

3. A stencil holder comprising, a plate like body member having an upwardly projecting flange on the forward edge thereof and defining

a transversely extending slot toward the rear of said flange, a slide member slideable on said body member and having an upwardly projecting flange on the forward edge thereof cooperative with said flange on said body member, the opposed surfaces of said flanges being forwardly inclined, an ear on said slide member projecting through said slot, an abutment on the under side of said body member opposed to said ear, a spring positioned between said ear and said abutment and urging said slide member rearwardly, a clamp arm pivotally mounted on said body member and having a cam portion engageable with said ear to move said slide member forwardly against said flange on said body member, and a guide plate secured to the bottom of said body member to project beyond the front edge thereof.

4. A stencil holder comprising, a body member having a flange on the forward edge thereof, a slide member slidably mounted on said body member and having a second flange cooperative with said flange on said body member to clamp a stencil sheet therebetween, pins on said second flange adapted to pierce said stencil sheet and project beyond said first flange, a clamping arm on one of said members and having a cam surface engageable with the other of said members for holding said flanges in clamping position, and a guide plate adjustably secured to said body member to project beyond the forward edge thereof.

5. A stencil holder comprising a body member, a slide member slidably mounted on said body member, said members having opposed clamping surfaces extending at a substantial angle from the planes of said members and adapted to grip a stencil sheet, means for clamping said surfaces together, a guide member adjustably secured to said body member and adapted to project beyond the forward edge thereof, and a pin projecting from the front of one of said members and adapted to engage a carton to prevent slipping of said holder.

6. A stencil holder comprising a body member, a slide member slidably mounted on said body member, said members having opposed clamping surfaces extending at a substantial angle from the planes of said members and adapted to grip a stencil sheet, means for clamping said surfaces together, and a guide member adjustably secured to said body member and adapted to project beyond the forward edge thereof.

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