Oct. 13, 1964 C. E. CARLSEN 3,152,541

STENCIL STRETCHING AND CLAMPING MEANS FOR INK HAND STAMPS

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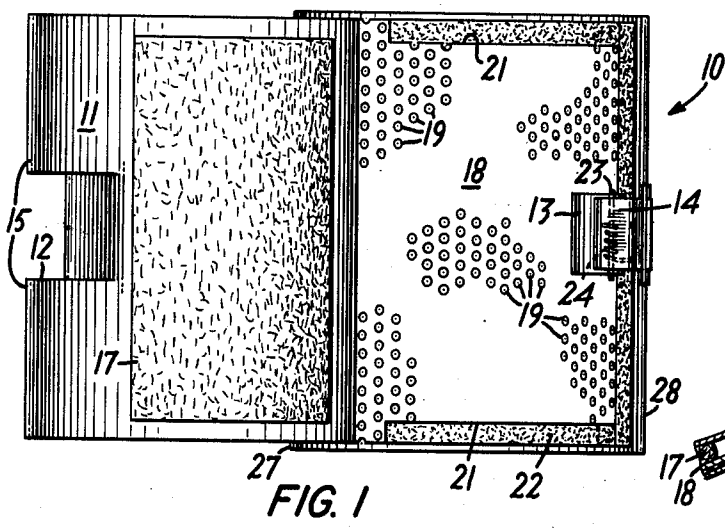


FIG. 1

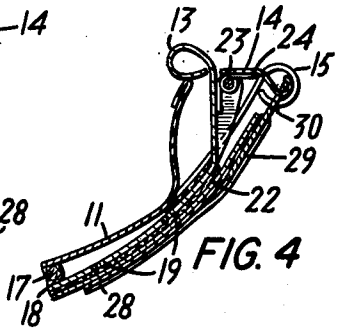


FIG. 4

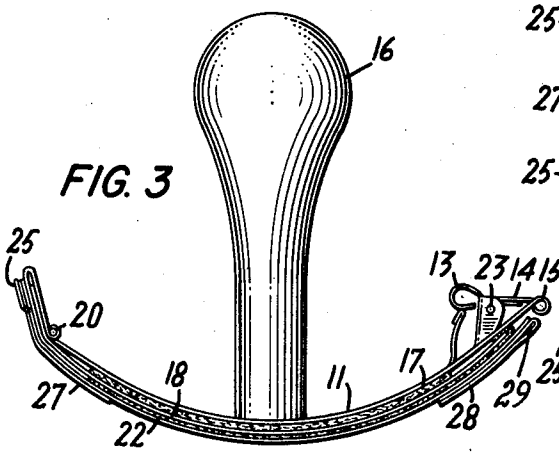
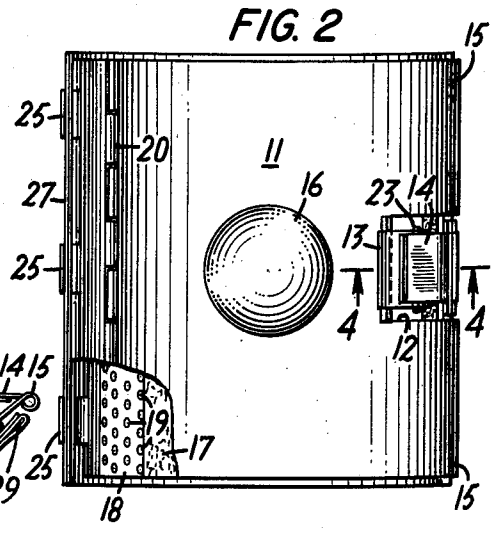


FIG. 3

FIG. 2



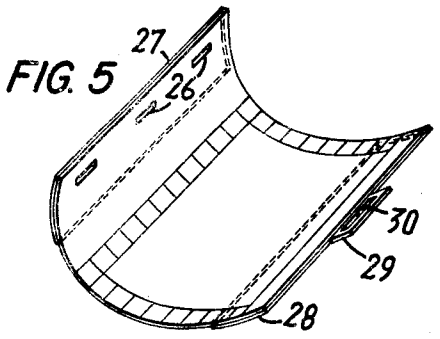


FIG. 5

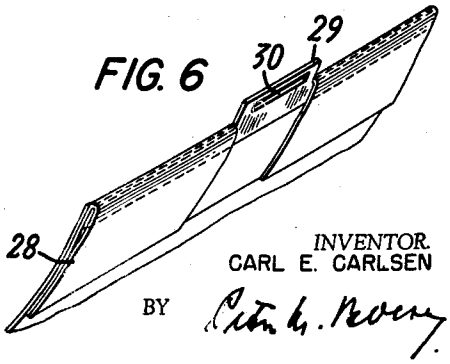


FIG. 6

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STENCIL STRETCHING AND CLAMPING MEANS FOR INK HAND STAMPS

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7 Claims. (Cl. 101—125)

This invention constitutes a continuation in part of my pending applications for patents, Ser. Nos. 72,667, now Patent Number 3,101,048 and 92,716, now abandoned, and it has for its object, among other things, the adding of a new feature, whereby to open a stamp in order to facilitate re-inking of same without disturbing the stencil, besides having all of the features described in my aforesaid pending applications combined, such as applying a pull to the stencil, whereby to prevent it from making wrinkles, and also using two semi-cylinders, of which one, the printing cylinder is perforated, using two pads, one of which is the regular printing pad, and the other an absorbing storage pad.

In this application, in which similar characters of reference indicate corresponding parts:

FIGURE 1 is a top plan view of a stamp in open position.

FIGURE 2 is a top plan view of the stamp in closed position, with part broken off.

FIGURE 3 is an end elevational view of said stamp.

FIGURE 4 is a detail sectional view showing part of a lock, with a stencil stretching mechanism.

FIGURE 5 is a prospective view of the stencil; while FIGURE 6 is a detail view of the stencil, in part, showing a metal piece inserted into a loop of the latter.

The invention comprises two semi-cylinders hingedly connected.

A handle is attached to the upper semi-cylinder, this upper semi-cylinder is formed with a cut-off portion adapted to accommodate a stencil stretching and locking mechanism of the lower semi-cylinder.

The upper semi-cylinder is on each side of the cut-off portion formed with projecting edge portions, which serve as a protection in preventing the stencil from being disturbed.

A lower perforated printing semi-cylinder, which is hingedly attached to the upper semi-cylinder, is formed with reduced portions on each side, whereby to permit the ink pads to extend over the edges of the printing semi-cylinder, so as to prevent the latter from damaging the stencil.

Inside the upper semi-cylinder is arranged an ink storage pad, which in opening the stamp, exposes the perforated printing semi-cylinder to be inked, and when the two semi-cylinders are subsequently brought together, said storage pad will now absorb part of the ink applied to said printing semi-cylinder, while by exerting a pressure upon said semi-cylinders the supply of ink will be forced into the printing pad.

The lock for securing the two semi-cylinders together is made to permit a flexible movement of the outer printing semi-cylinder relative to the inner semi-cylinder, thus permitting the storage pad to be squeezed between said two semi-cylinders, and at the same time exerting a pressure, whereby to convey ink to the printing pad and paper.

The stencil is re-enforced at both ends to add strength to the latter, and on that side is touching the paper to be printed, to prevent stencil smutching.

The said stencil is at one end securely attached to the starting side of the stamp and has at the opposite end a loop to receive a metal piece formed with an eyelet so that a springy member attached to the printing semi-cylinder will engage said eyelet and apply a pull to the stencil.

Referring more particularly to the drawing, the numeral **10** indicates the stamp. The numeral **11** indicates the top or upper part of the stamp, which is formed with a cut-away portion **12** adapted to accommodate a lock and a stencil stretching mechanism **14**.

Flanges, or edge portions, **15** on both sides of the cut-away portion **12** of the upper semi-cylinder **11** are extended at their outer ends and adapted to touch the paper and thereby serving as a guard to the stencil **27** from being disturbed.

A handle **16** is attached to the upper semi-cylinder **11**; while an ink storage pad **17** is secured to the inside of said upper semi-cylinder.

The lower semi-cylinder **18** is made with perforations **19** and is hingedly attached to the upper semi-cylinder **11** as at **20**.

The lower printing semi-cylinder **18** is formed with a cut-away portion **21** to permit the printing pad and the ink storage pad **17** to cover the edge of said printing semi-cylinder **18**, thereby preventing the latter from touching the stencil.

The printing pad **22** is secured to the outer side of the perforated semi-cylinder.

A lock **13** is attached to, or may be part of, the lower printing semi-cylinder; and locks by extending over the upper semi-cylinder, at the same time part of the lock **13** forms a bearing for said stencil stretching mechanism **14** attached to the latter by a pin **23**, which also secures a spring **24** that actuates the stencil stretching mechanism **14**.

One end of the stencil is provided with openings **26** which are adapted to fit prongs **25** on the starting side of the stamp. On the opposite end of the stencil the re-enforcing paper is folded over to form a loop **28** adapted to receive a metal strip **29** made with an eyelet **30** that engages a hook part of the stencil stretching mechanism.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent of the United States, is:

1. A stamp comprising an upper semi-cylinder and a lower perforated printing semi-cylinder hingedly connected and permitting opening of said stamp for application of ink to the latter, a handle attached to one side of the upper semi-cylinder and an ink absorbing storage pad secured to the opposite side thereof, leaving, when said stamp is opened, said ink absorbing storage pad and the upper side of the perforated printing semi-cylinder fully exposed for inking, the upper semi-cylinder terminating in extended edges and being formed with a cut-away portion, a lock and stencil stretching mechanism arranged upon the lower printing semi-cylinder and adapted to be received by said cut-away portion in the extended edges of the upper semi-cylinder, a stencil and a pad mounted upon the lower printing semi-cylinder, said stencil being re-enforced at both ends, whereby to prevent it from smutching a paper as the stamp is being placed upon and removed from the latter, the lower printing semi-cylinder being formed with perforations and being of a smaller dimension than said pads, whereby to permit the latter to extend over and cover the edges of said lower printing semi-cylinder preventing the latter from touching the stencil.

2. In an invention, as claimed in claim 1, a printing semi-cylinder in which said stencil being at one end securely attached to the starting side of the stamp, a re-enforced paper secured to said stencil and having at one end a loop, a metal piece formed wtih an eyelet and engaging said loop, a springy member attached to the printing semi-cylinder and adapted to engage said eyelet, whereby to apply a pull to the stencil.

3. In an invention, as claimed in claim 1, edge portions

on both sides of the cut-away portion in the upper semi-cylinder being adapted to touch a paper and serving as a guard to prevent the stencil from being disturbed as the stamp is removed from said paper, simultaneously stopping the squeezing of the ink pads and the flow of ink as soon as the actual printing has been done by rolling the stamp on to said edges.

4. In an invention, as claimed in claim 1, and wherein a lock is attached to the lower printing semi-cylinder locking this together with the upper semi-cylinder by extending over the latter, part of said lock forming a bearing for a stencil stretching mechanism, a pin securing the latter to said lock, and a spring for actuating the stencil stretching mechanism.

5. In an invention, as claimed in claim 1, wherein one side of said stamp being formed with prongs, one end of the stencil being provided with opening adapted to engage said prongs, said stencil being made with a re-enforced paper folded at one end of said stencil to form a loop, a metal strip having an eyelet adapted to engage said loop, and a hook-part of the stencil stretching mechanism made to engage said eyelet.

6. In an invention, as claimed in claim 1, a lock for securing the two semi-cylinders together obtaining a flexible movement of the printing semi-cylinder relative to the upper semi-cylinder, whereby to permit the storage pad to be squeezed between said two semi-cylinders and exerting a pressure adapted to convey ink to the printing pad and paper.

7. An invention, as claimed in claim 1, and wherein one end of the stencil being springingly attached, whereby to apply pull to said stencil.

References Cited in the file of this patent

UNITED STATES PATENTS

1,113,634	Hopwood	Oct. 13, 1914
1,347,743	Hidalgo	July 27, 1920
1,789,464	Harts	Jan. 20, 1931
1,903,740	Winther	Apr. 11, 1933

FOREIGN PATENTS

493,192	Great Britain	Oct. 4, 1938
763,211	France	Apr. 26, 1934