March 9, 1937. C. H. RASMUSSEN 2,073,379

STENCIL DEVICE

Filed Feb. 21, 1935

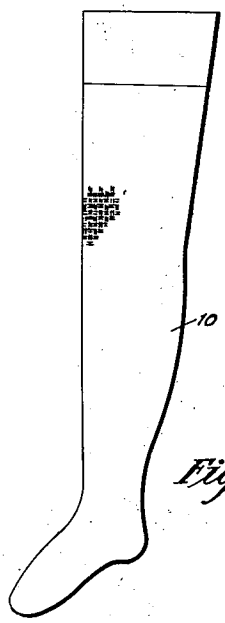


Fig. 1

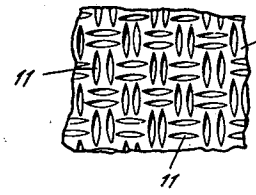


Fig. 2

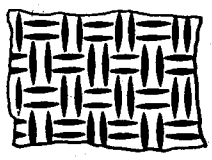


Fig. 3

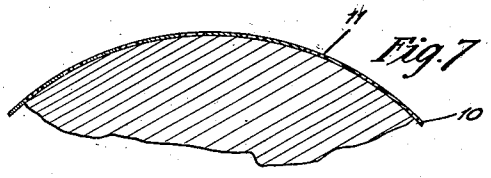


Fig. 7

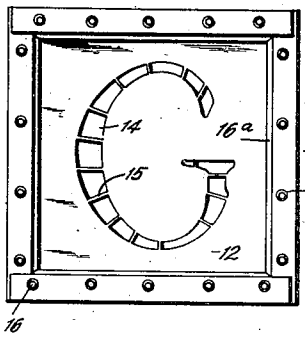


Fig. 4

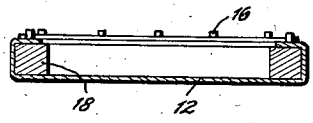


Fig. 8

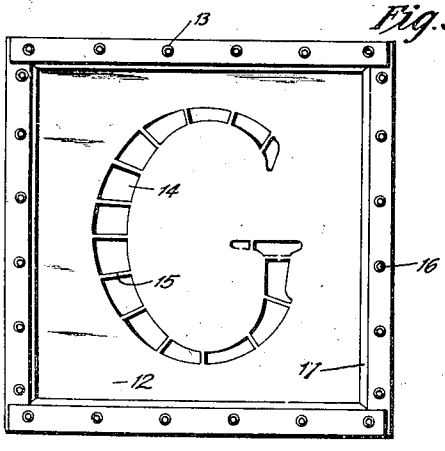


Fig. 5

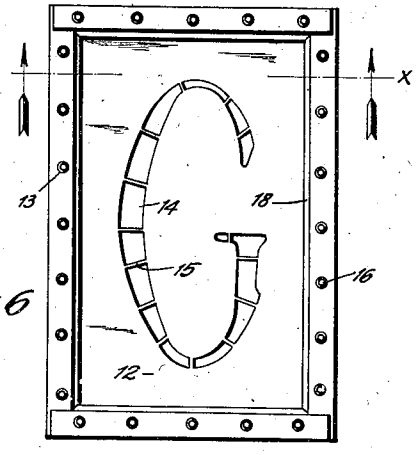


Fig. 6

Inventor

Clarence H. Rasmussen

by Orwig & Hague Attys.

Patented Mar. 9, 1937 2,073,379

UNITED STATES PATENT OFFICE

2,073,379

STENCIL DEVICE

Clarence H. Rasmussen, Des Moines, Iowa

Application February 21, 1935, Serial No. 7,523

1 Claim. (Cl. 101—127)

The objects of my invention are to provide a stencil device of simple, durable and inexpensive construction in which a stencil design, such for instance as the letter G, may, with a single stencil device, be expanded or contracted to thereby enable an operator to mark an article with a reproduction of the stencil design of any desired size and of the same pattern, or, if desired, the stenciled pattern may be elongated in one direction only to thereby alter the appearance of the stenciled design.

A further object is to provide a stencil device with which a stencil design may be applied to the entire surface of a cylindrical article of irregular shape and having portions thereof of greater diameter than other portions thereof, such for instance as a human leg, and whereby the stencil device may be utilized for applying to such article a pattern simulating in appearance an apparel stocking, or any desired pattern.

My invention consists in the construction of the stencil device, whereby the objects contemplated may be attained, as hereinafter set forth, pointed out in my claim and illustrated in the accompanying drawing in which:

Figure 1 illustrates one form of my stencil device, shaped to be applied to a human leg to apply thereto a stencil design simulating an apparel stocking.

Figure 2 shows an enlarged detail view illustrating a portion of the stencil device shown in Figure 2.

Figure 3 shows an enlarged view of a portion of the stenciled pattern as reproduced upon the object being stenciled.

Figure 4 shows a plan view of another form of my invention, intended for use in reproducing stenciled designs of different sizes and shapes.

Figure 5 shows a similar view of the same stencil device stretched in all directions to reproduce the same design in large size.

Figure 6 shows a similar view of the same stencil device stretched in one direction only to reproduce the same stenciled design of altered shape.

Figure 7 shows a detail sectional view illustrating the manner in which the stencil shown in Figure 1 closely follows the outline of the article to which it is applied; and

Figure 8 shows a sectional view on the line x—x of Figure 6.

Referring to the accompanying drawing, I shall first describe that form of my invention designed for reproducing stenciled designs upon cylindrical objects of irregular outline. The entire stencil device is formed of a single piece of thin, highly elastic and non-absorbent material, such as rubber, indicated by the reference numeral **10**. In this entire body portion, or selected parts thereof, perforations **11** are formed. These perforations are so shaped and arranged as to present the appearance of a negative reproduction of a stocking fabric, or the woven threads of a stocking, as shown in Figure 2.

In use with this form of my invention the stencil device is applied to a human leg, in the same manner as a stocking is usually put on, and due to the fact that it is made of thin, highly elastic rubber it will, when stretched to position on a human leg, firmly engage every particle of the surface of the leg and form a liquid tight contact with the leg at all points, except where the openings of the stencil design are located. Then a dye substance, preferably in liquid form, is brushed over the outer surface of the stencil. This dye will penetrate all of said openings and cover such portions of the leg as are immediately under said openings, but the dye material will not flow under such portions of the stencil device as are not formed with openings. Then the dye is permitted to dry and the stencil removed. The stenciled pattern will simulate in appearance a positive reproduction, as shown in Figure 3, of the negative pattern formed by the openings in the stencil, as shown in Figure 2. The dye may be of more or less permanent material so that the stenciled pattern may retain its true form and appearance for any desired period of time.

I have found that it is important and desirable to have the flexible body portion formed of sheet material as distinguished from woven fabric, because with a woven fabric, portions of the body portion would not contact directly with the article to be marked, hence, the dye liquid would flow under such non-contacting portions resulting in a blurred stencil design on the article.

In the form of my invention illustrated in the remaining figures of the drawing the stencil device comprises a flat sheet **12** of thin highly elastic rubber, having at its margins a series of eyelets **13** and having in its central portion one or more openings **14** shaped to simulate the pattern to be reproduced. In the present instance the pattern is the letter G. At various points throughout this opening there are various portions **15** of the rubber body extended across the opening to hold the adjacent edges of the rubber toward each other.

For supporting this rubber sheet I have pro-

vided a rectangular frame 16a having on its upper surface a series of pins 16 to enter the said eyelets.

In Figure 5 I have shown a similar frame 17 of larger size in all directions, and in Figure 6 I have shown a similar frame 18 larger in one direction only. In use with this form of my invention, the rubber sheet is extended under the frame, then upwardly at all edges, and then over the top of the frame with the eyelets in position surrounding the pins, then the stencil device is placed upon the article to be stenciled and the pattern reproduced upon the article in the ordinary way.

If it is desired to reproduce the same pattern of larger size, the rubber sheet is removed from the small frame and applied to the larger frame in the same manner, with the result that the rubber will be stretched substantially equally in all directions and the opening therein defining the pattern will be correspondingly enlarged without substantial change in design.

If it is desired to alter the design of the pattern in one direction only, the rubber sheet is applied to the frame shown in Figure 6, and when thus applied, the stencil design will be elongated in one direction but remain of the same size in the other direction.

I claim as my invention:

A stencil device in the general form of an apparel stocking, made of thin rubber of such size and degree of elasticity as to be capable of being applied to a leg and foot in the manner in which an apparel stocking is applied and when thus applied be enlarged and stretched to such an extent as to tightly fit a wearer's leg, the inner surface thereof being smooth to thereby cause the stencil to form a liquid tight connection with a wearer's leg, the stencil device being formed with openings to define a pattern and whereby the stencil device may be applied to a leg and liquid dye applied to the outer surface of the stencil to form a reproduction of the stenciling pattern on the leg.

CLARENCE H. RASMUSSEN.