April 6, 1943. A. DARIANO 2,315,842

PAINT STRAINER

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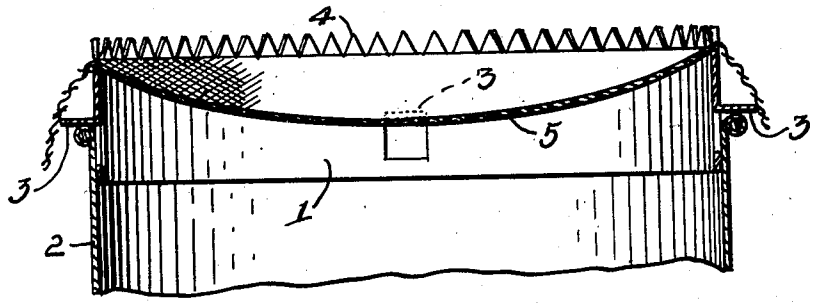


FIGURE 1

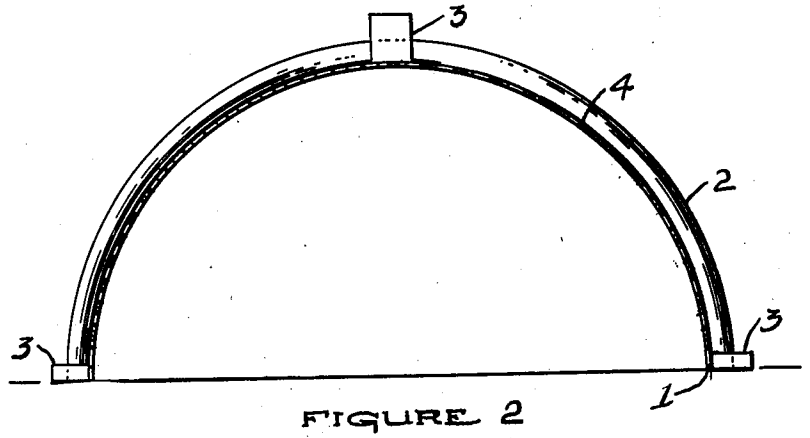


FIGURE 2

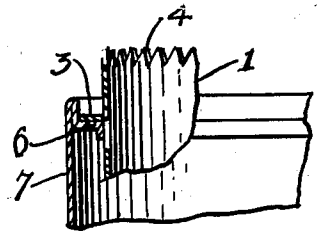


FIGURE 3

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PAINT STRAINER

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1 Claim. (Cl. 210—158)

It is quite often necessary for a painter to pass his paint through a strainer cloth to remove the non-liquid material that may have gathered there, particularly the fragments of the skin that forms on the paint and on the sides of the paint bucket when it is allowed to stand awhile, and which mixes in with the paint when it is stirred.

In applying the strainer cloth it is customary to lay it over the top of the bucket provided to receive the paint and secure it in position by passing a string or cord around the top portion of the bucket and over the cloth and then tie it tightly thereon. This method of securing the cloth in place is not at all satisfactory because the paint is very heavy, and if the string is not drawn tightly about the bucket and securely tied the weight of the paint poured onto the cloth will cause it to slide on the top edge of the bucket and allow the cloth to descend too far into the interior thereof, sometimes even drawing an edge of the cloth over the edge of the bucket and allowing paint to flow into the bucket without being strained. Furthermore, considerable time is wasted in finding a suitable string or cord and in making the proper adjustment.

It is one object of the present invention, therefore, to provide a means whereby the strainer cloth can be quickly and easily mounted over the top of a bucket, and in such a manner that it will be positively and securely held in the position in which it is placed regardless of the weight placed thereon.

It is also an object of the invention to provide a means of the character indicated that will be economical to manufacture, simple in form and construction, strong, durable, and highly efficient in its practical application.

In the drawing:

Figure 1 is a vertical transverse section through a device embodying my invention in operative position on a bucket, with a strainer cloth mounted thereon, and with a portion of the bucket broken away.

Figure 2 is a top plan view of the same with the strainer cloth removed.

Figure 3 is a detail section through another form of bucket with a device embodying my invention mounted thereon, partly broken away.

The specific form of the invention disclosed herein comprises an annulus of sheet metal 1 having an outside diameter such that it will slide easily, but closely, into the mouth of the bucket 2. Struck outwardly and upwardly from the sides of the annulus 1 are several lips as 3, these lips being just long enough to overlie and seat upon the rim of the bucket upon which the device is to be placed. The top edge of the annulus is provided with a continuous row of upstanding teeth 4.

In use it is only necessary to place the device in the position shown, and then spread the strainer cloth thereover and pull it down upon the teeth 4 so the teeth 4 will pass therethrough. The cloth 5 may, of course, be mounted on the device before it is placed in position on the bucket, but in either case the teeth 4 will hold it securely in position regardless of the weight of the liquid poured thereon.

In the embodiment shown in Figure 3 it is shown that the device may be as easily fitted to a bucket or can having an inwardly turned flange on its top edge as to the type shown in Figure 1. In this case the lips 3 may rest upon the inwardly turned flange 6 as shown on can 7, or on the top edge as shown in Figure 1.

A particular advantage of the form of the device disclosed is that it obviates the necessity of using clips, strings, or any other form of fastening means, to hold the device on the bucket or to hold the cloth on the device, yet the more weight that is placed on the cloth the tighter the device will seat on the bucket. This is because the ring is complete and consequently when an inward pull is applied to the diametrically opposite sides of its top edge a corresponding outward urge is applied to its lower edge causing the said lower edge to seat tightly against the inner surface of the bucket in Figure 1, or to swing under the flange 6 as in Figure 3. In either case the weight of the paint on the strainer 5 operates to lock the device fixedly in position.

In order to function in the manner described the annulus 1 is made of sheet metal or any suitable material having some degree of resiliency. And while the teeth 4 are shown and described as being continuous around the annulus edge, the device would function more or less perfectly if the row of teeth were broken, but experience has shown that a continuous row of teeth is the most satisfactory.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is,

A strainer-cloth holder comprising, an annulus of resilient sheet metal or the like having a diameter less than that of the bucket on which it is to be mounted, and having lips punched outwardly and upwardly therefrom intermediate its width and spaced about its periphery and adapted to seat on a bucket top to support the lower portion of the annulus within the bucket, and said annulus having strainer-cloth engaging teeth formed integrally therewith and on the top edge thereof.

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