May 5, 1931. F. S. HYATT 1,803,529

HOSE HOLDER

Filed June 10, 1927

Fig. 1,

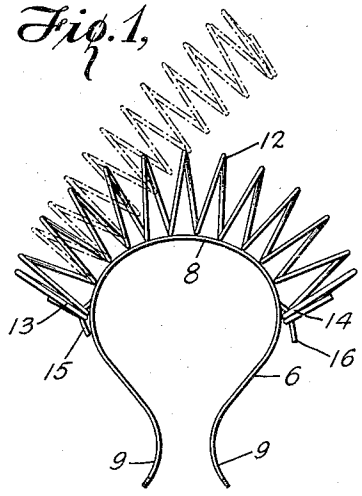


Fig. 2,

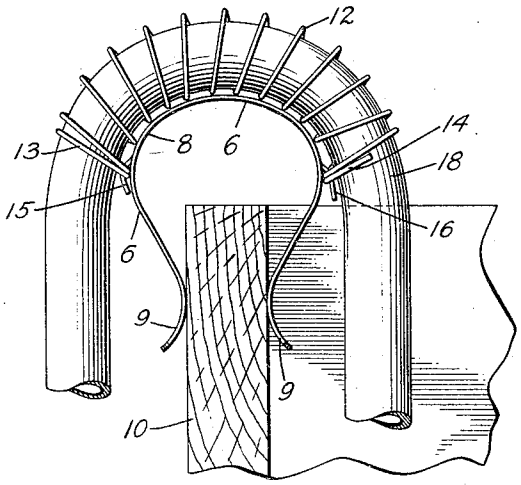


Fig. 4.

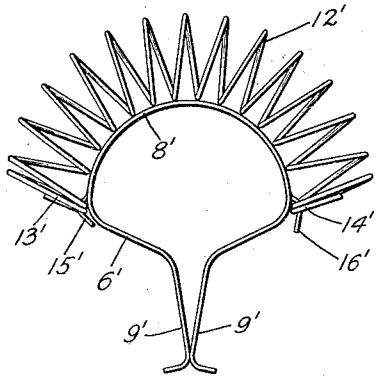
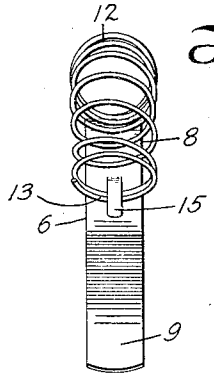


Fig. 3,



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UNITED STATES PATENT OFFICE

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HOSE HOLDER

Application filed June 10, 1927. Serial No. 197,805.

This invention relates to improvements in siphon or hose holders, whereby the siphon or hose may be attached to a suitable receptacle such as a liquid containing vat.

It is one of the primary objects of this invention to provide a device of this character which will more effectively hold the siphon with respect to the receptacle and which may be constructed in large quantities at a relatively low cost.

These and other objects will appear more fully from the following description when considered in connection with the drawings in which:

Fig. 1 is an elevational view of one form of the invention.

Fig. 2 is a similar view showing the device in use.

Fig. 3 is an elevational view taken at right-angles to Fig. 1 and

Fig. 4 is a view similar to Fig. 1 showing a slightly different form of the invention.

Referring to the details of the drawings the preferred embodiment of the hose holder is shown in Figs. 1 to 3 and comprises an arched supporting frame 6 formed as a curved yoke-shaped strip of metal having an upper portion 8 and terminal portions 9. The frame 6 is formed of any preferred resilient material such for example as brass or steel. The ends 9 are juxtaposed for engagement with a support shown as a wall 10 of a receptacle the ends 9 being spring pressed into relatively tight engagement with the receptacle wall 10.

The hose holder proper comprises the helical coil spring 12 attached to the frame 6 at spaced points thereon as shown for example in Fig. 1 the coil extending circumferentially around the frame. This attachment is accomplished by securing the end portions 13 and 14 of the coil 12 to the hooks 15 and 16, respectively, formed on the frame 6. The member 12 is formed as a substantially uniform section of a helical coil spring formed of any suitable metal the hooks 15 and 16 being engaged through a few of the end strands of the coil spring for supporting this coil upon the frame 6. If desired one of the hooks for example that indicated at 15 may be bent around the connected portion of the coil spring 12 in order to more or less permanently secure one end of the coil to the frame 6 at this point. It is preferred that one end of the coil be removable as indicated at 16.

The supporting frame may assume various forms under different conditions one modified form of this member being shown in Fig. 4 wherein the supporting frame 6′ receives and supports the helical coil spring 12′ as in the first form of the invention. The main difference in this form of the invention over that shown in Figs. 1 to 3 is that the supporting frame is formed with angular extensions 9′ engageable lengthwise with the sides of the container wall when this device is in use.

In the use of the device the frame 6 is clamped upon the supporting structure with which the device is to be used. One end portion 14 of the coil is released from its corresponding hook 16 into the dotted line position shown in Fig. 1 and the tubular member 18 shown as a section of rubber tubing is passed through the helical member 12. The free end 14 of the helical spring is then reattached to the hook 16 with the result that one end of the hose 18 extends into and the other end out of the receptacle formed in part by the wall 12.

It is to be understood that the helical spring 12 is made of a size to snugly receive the tubular member 18 with which it is to be used and that if desired different sizes of spring sections 12 may be supplied with one frame 6 in order to adapt the device for different sized tubes.

It will be evident that the bending of the spring member 12 into an arcuate shape and its extension to engage the hook 16 after the tubular member 18 has been passed through the same will cause the tubular member to be securely clamped within the coil.

Having now described my invention what I claim and desire to secure by Letters Patent is:

1. A hose holder comprising a curved frame formed with means for attachment to a support and a helical coil formed with a

hose receiving opening, said frame and coil including coacting means for attaching the latter to the former at a plurality of spaced points thereon with said coil supported throughout its length by said frame.

2. A hose holder comprising a curved frame formed with means for attachment to a support and a helical coil formed with a hose receiving opening, said frame and coil including coacting means for attaching the latter to the former at a plurality of spaced points thereon, said points being positioned substantially symmetrically with respect to the length of said frame and with a portion of said curve between said points.

3. A hose holder constructed for attachment to a support and comprising a curved frame and a flexible helical coil, means on said frame for clamping the same to said support and means for attaching said coil to said frame at circumferentially spaced points around said curved frame.

4. A hose holder comprising an arched frame formed of a single piece of metal constituting a body part and a helical coiled spring constituting a hose holder and attachment means formed at spaced points on said frame for receiving and holding spaced portions of said spring.

5. A hose holder comprising a flexible body portion formed of a single piece of metal arched to provide two juxtaposed inwardly projecting ends which coact to form a clamp, a helical coiled spring formed with a longitudinally extending opening for receiving a tubular member and with spaced attachment portions and spaced attachment means formed on said arched body portion for receiving the attachment portions of said spring for supporting said spring on said body portion with said spring in extended condition.

Signed at Brooklyn, in the county of Kings and State of New York this 9th day of June, A. D. 1927.

FRANK S. HYATT.