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HOSE HOLDER

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Fig. 1.

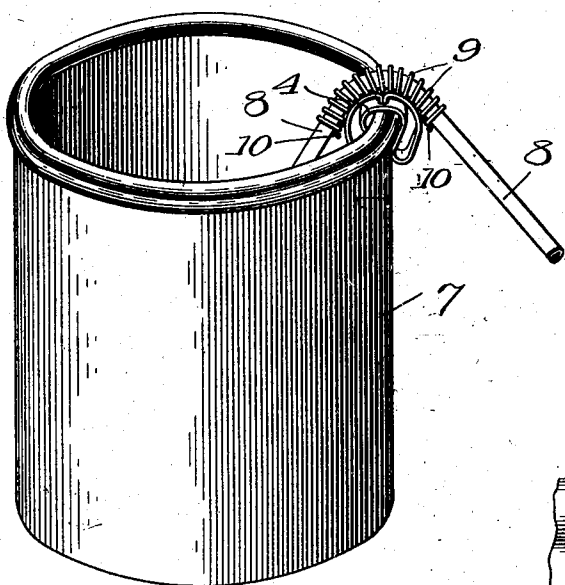


Fig. 3.

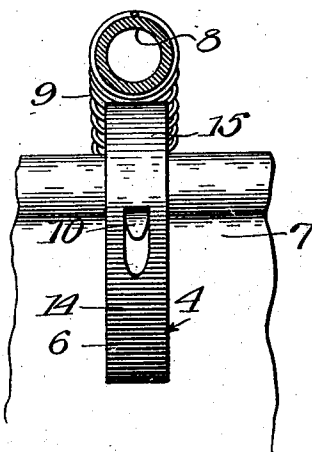
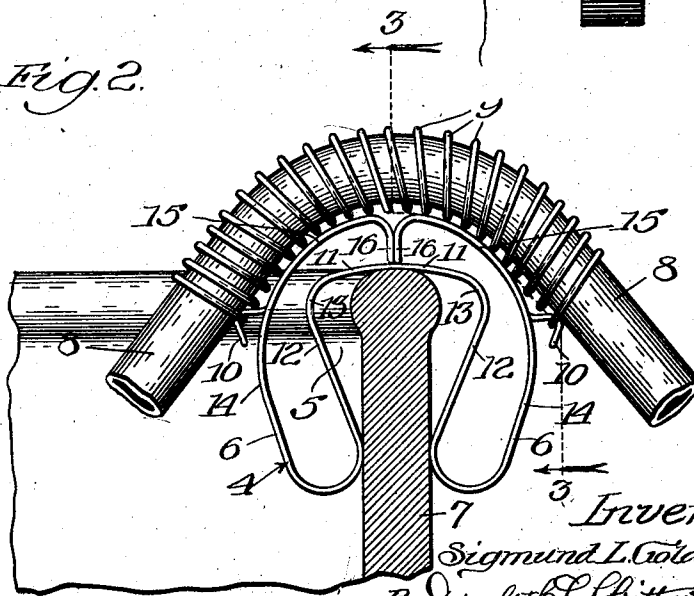


Fig. 2.



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UNITED STATES PATENT OFFICE

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HOSE HOLDER

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My invention relates to devices for supporting hoses, particularly between their ends, at the upper edges of containers, such as crocks, for use more particularly in the siphoning off of the contents of the containers.

My primary object is to provide a novel, simple and inexpensive construction of holder which may be applied securely in straddling position to the upper edges of the walls of containers of varying thicknesses with the maximum ease and without danger of damaging the holder or scratching, or otherwise marring, the container, and which may, with equal ease, be removed from the container; and other objects as will be manifest from the following description.

Referring to the accompanying drawings:

Figure 1 is a perspective view of a container, such as a crock, showing associated therewith a pipe opening at one end into the container and supported on the latter by a device constructed in accordance with my invention. Figure 2 is a view in sectional elevation of the upper edge portion of the container, the view being taken adjacent the hose holder and showing the latter, with the hose therein, but with the ends of the latter broken away, in side elevation; and Figure 3, a broken section taken at the irregular line 3—3 on Fig. 2 and viewed in the direction of the arrows.

My improved hose holder comprises a spring member represented generally at 4 provided with a downwardly opening recess portion 5 formed of spring loops represented at 6 at which the device is adapted to be applied, in straddling position, to the upper edge of the side wall of the crock represented at 7 to position it thereon as shown in the drawing, the member 6 being extended upwardly to provide support for the hose represented at 8, the hose being confined in a flexible wire coil 9 extending over the upper end of the member 6 and secured thereto in the bowed condition represented by interlocking the end convolutions of the coil 9 with hooks 10 on the member 4.

The member 4 is preferably formed from a strip of any suitable spring metal which, in accordance with the preferred illustrated

embodiment of my invention, is bent between its ends to form the loop portions 6 integrally connected at their upper, inner, ends by a cross-bar-forming portion of the strip, the inner portions 12 of the loops diverging upwardly, with the strip so bent as to present the bow portions 13 at the juncture of the portions 12 with the cross-bar-forming portion 11. The upper ends of the outer portions 14 of the loops 6 are curved upwardly and inwardly as represented at 15 to provide the hereinbefore mentioned support for the hose and against which the coil 9 bears in tensioned condition lengthwise thereof, the extremities of the strip from which the member 4 is formed and represented at 16 terminating adjacent the median line of the member 4 and deflected downwardly as shown. The lugs 10 are shown as formed by cutting tongues from the legs 14 of the loops 6 and deflecting them to form hooks.

To assemble the hose with the device, the coil 9 is first disengaged from at least one of the hooks 10 or, if desired, and preferably, from both thereof as by forcing the coil laterally from its seat, whereby the coil assumes straight condition permitting the hose to be readily inserted therethrough to protrude the desired distance. The coil 9 is then deformed about the upper end of the member 4 and rehooked thereto to cause the coil and pipe to extend in the position shown in the drawings.

To secure the device to the upper edge of the wall 7 of the container the operator applies the device to the straddling position shown in the drawings. The member 4 is so formed that in normal, unapplied, condition the space between the lower ends of the loops 6 is considerably less than the thickness of the wall of the container to which the device is to be applied, and the portions 16 flatwise engage with each other and bear at their lower edges against the cross-portion 11. Thus in applying the device to the container the loop portions 6 spread apart against the spring tension not only of the portions 13, but also of the lower portions of the loops 6 and the outer members 14 which extend upwardly therefrom, thereby causing the device

to firmly grip the opposite surfaces of the wall 7, with the cross-bar portion 11 preferably resting upon the extreme surface of the wall 7 as shown.

5 A holder made in accordance with my invention may be applied to the container with great ease and without danger of scratching, or otherwise marring, the surface thereof, and when applied exerts, by reason of the
10 provision of the loops 6, a gripping action on the wall of the container sufficient to maintain the holder from canting, or otherwise becoming displaced from the desired position.

15 Furthermore, the loop-portions may be spread into relatively widely spaced-apart relation, as in the applying of the holder to a container having a thick wall, without danger of impairing the holder.

20 While I have illustrated and described a particular construction embodying my invention, I do not wish to be understood as intending to limit it thereto as the same may be variously modified and altered without departing from the spirit of my invention.

What I regard as new, and desire to secure by Letters Patent, is:

30 1. A hose-holder for straddling engagement with the upper edge of a container comprising a member having a recess-forming spring portion presenting legs and at which the holder is adapted to straddle and grip said edge and portions extending upwardly from
35 said legs at opposite sides of said member and forming a support, means restraining movement of said upwardly extending portions toward each other in the movement of said legs away from each other for compelling flexing of said upwardly extending portions,
40 and hose-holding means for holding a hose in position along said support.

2. A hose-holder for straddling engagement with the upper edge of a container comprising a spring member presenting a downwardly-opening recess the walls of which are formed of spring loops, the inner, upper, ends of said loops being united, and the outer, upper, ends of said loops forming a support,
50 means restraining movement of the upper ends of the outer portions of said loops toward each other in the movement of said loops away from each other for compelling flexing of the outer portions of said loops, and hose-holding means for holding a hose in position
55 along said support.

3. A hose-holder for straddling engagement with the upper edge of a container comprising a spring member presenting a
60 downwardly opening recess the walls of which are formed of spring loops, the inner upper ends of said loops being united and the outer upper ends of said loops being extended upwardly over the inner upper ends of said
65 loops into endwise-abutting relation and

forming a support, and means connected with said spring member for holding a hose in position along said support.

4. A hose-holder for straddling engagement with the upper edge of a container comprising a spring member presenting a downwardly opening recess the walls of which are formed of spring-loops, the inner upper ends of said loops being united and the outer upper ends of said loops being extended upwardly into endwise-abutting relation and in position to engage a wall portion of said recess upon spreading said walls, said outer ends of said loops forming a support, and means connected with said spring member for
70 holding a hose in position along said support.

5. A hose-holder for straddling engagement with the upper edge of a container comprising a member of springy material having a recess-forming portion comprising upwardly-divergent legs united by an upper cross-member portion, said member having outer portions at opposite sides of, and spaced from, said recess-forming portion with their lower ends connected with the lower ends of said legs by loop portions, the upper ends of said outer portions forming a seat, means restraining movement of the upper ends of said outer portions toward each other in the movement of said legs away from each other for compelling flexing of said outer portions and hose-holding means for holding a hose in position along said seat.

6. A hose-holder for straddling engagement with the upper edge of a container formed of a strip of metal bent between its ends to form a cross-piece portion and depending converging leg-portions, and bent at the lower ends of said legs into loop form to present upwardly extending legs forming a curved seat at the top of the holder, and a hose-retaining member connected with said upwardly extending legs and conformingly seated on said curved seat.

7. A hose-holder for straddling engagement with the upper edge of a container comprising a spring member presenting a downwardly opening recess the walls of which are formed of spring loops, the inner upper ends of said loops being united and the outer upper ends of said loops being extended upwardly and forming a support, and hose-holding means engaging said support, the upper outer ends of said loops extending between said hose-holding means and the inner upper ends of said loops.

8. A hose-holder for straddling engagement with the upper edge of a container formed of a strip of spring-metal bent between its ends to form a cross-piece portion and depending leg portions and bent at the lower ends of said legs to form support-forming portions which extend upwardly a substantial distance along said leg portions, said
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legs and said upwardly extending portions
being connected at their lower ends by bowed
portions, and hose-holding means engaging
said support-forming portions, said support-
forming portions extending between said
5 hose-holding means and said leg portions.

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