Feb. 14, 1933. R. HETHERINGTON 1,897,578

CLAMPING BRACKET

Filed Dec. 23, 1930

Fig. 1.

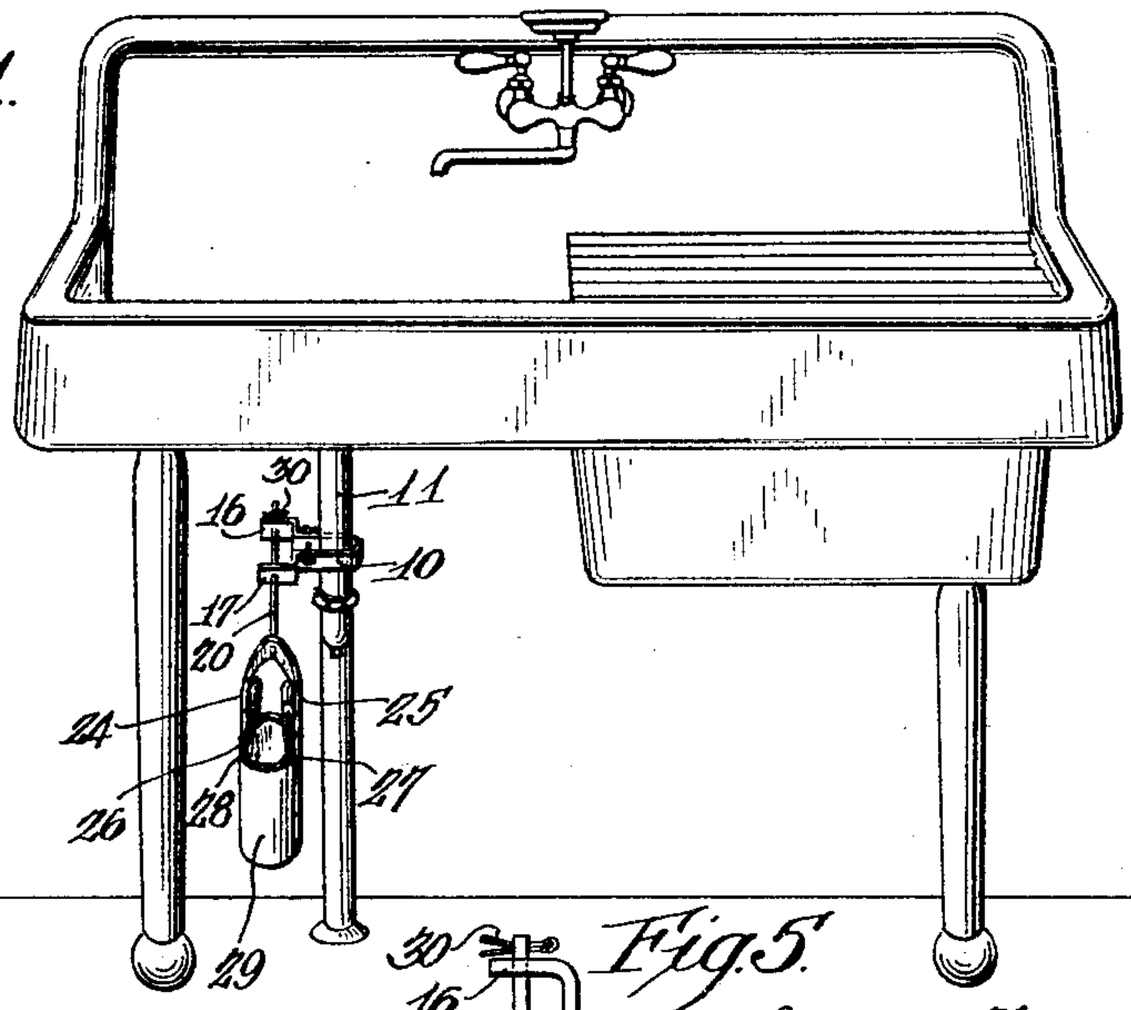


Fig. 5.

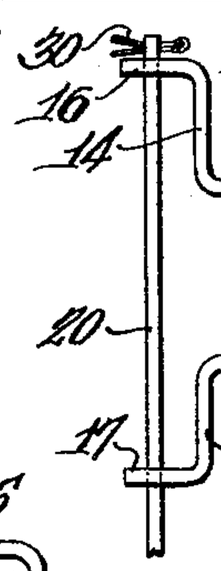


Fig. 6.

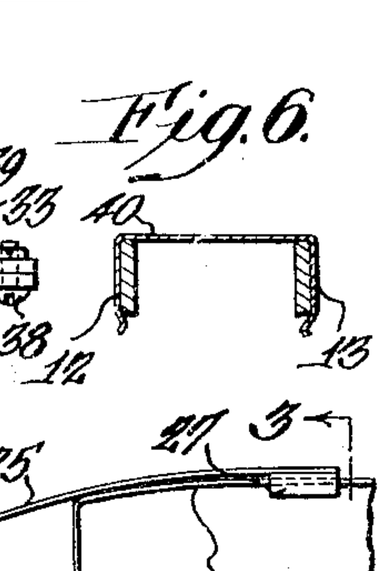


Fig. 2.

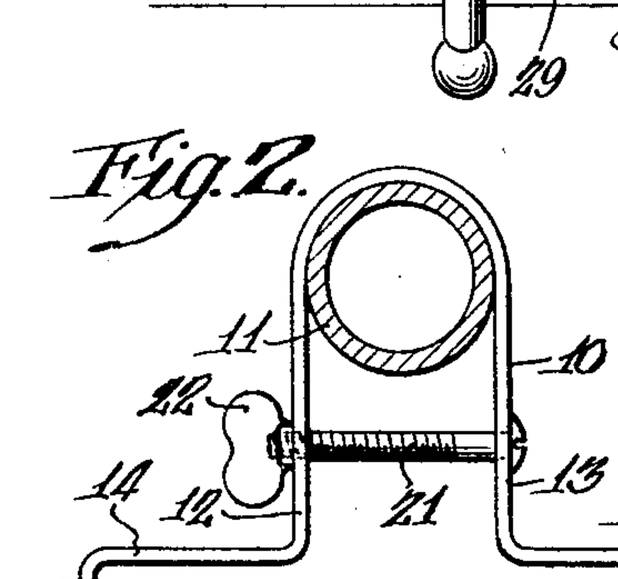


Fig. 3.

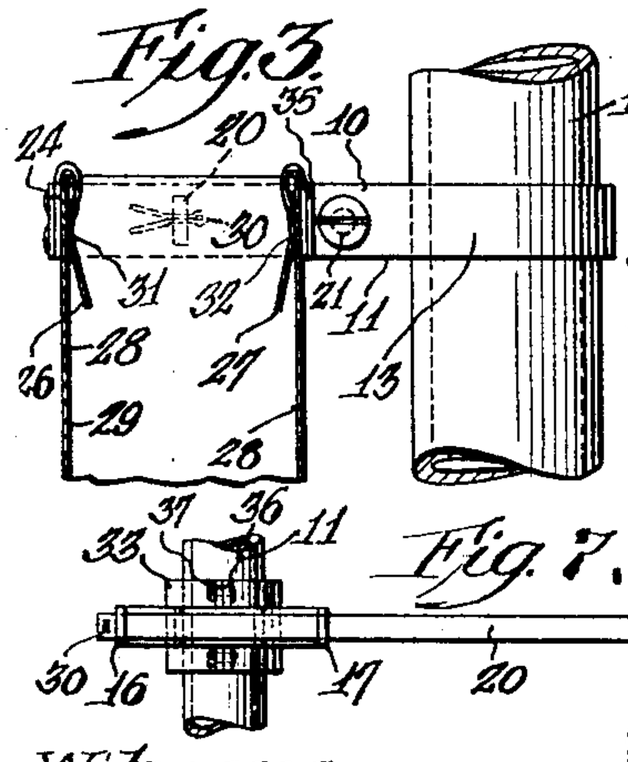


Fig. 4.

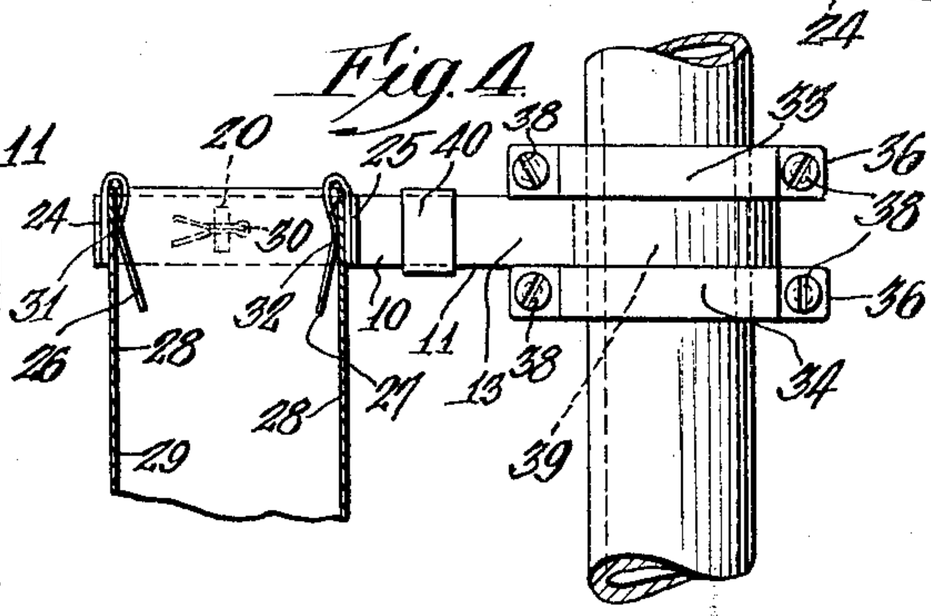
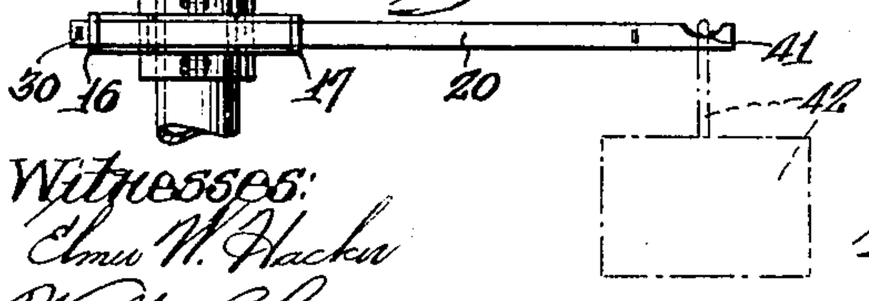


Fig. 7.



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UNITED STATES PATENT OFFICE

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CLAMPING BRACKET

Application filed December 23, 1930. Serial No. 504,235.

My invention relates to a bracket for holding packages of cleaning materials such as soap flakes, cleanser, or a container for like materials.

The main purpose of my invention is to provide an adjustable bracket that can be fastened to a drain pipe or in any suitable place under a sink, the bracket being capable of supporting a pasteboard or metal carton box or bucket.

A further purpose is to provide a bracket with an adjustable arm for supporting a package that can be easily attached or detached at any desired height to a supporting structure under a sink.

A further purpose is to provide a detachable bracket, supporting an arm at right angles which can be adjusted laterally, the arm having forked spring members with downwardly directed spring fingers which fit the interior of a package or container.

A further purpose is to provide a fitting that can be clamped to a supporting stand of a sink or the like, to support clamping bracket arms of an adjustable bracket, allowing for revolving movement of both the bracket and the adjustable bracket arm, to bring the arm into and out of position of use.

Further purposes will appear in the specification and in the claims.

Describing in illustration but not in limitation and referring to the drawing:

Figure 1 is a perspective view of a kitchen sink showing my improved bracket in position of use on a drain pipe.

Figure 2 is a top plan view of the bracket shown in Figure 1, the bracket being attached to the drain pipe which is shown in section.

Figure 3 is a sectional elevation taken on the line 3—3 of Figure 2.

Figure 4 is a sectional elevation similar to Figure 3 but showing different supporting and clamping structures.

Figure 5 is a top plan view similar to Figure 2 but illustrating a modified clamp and having its laterally adjustable arm broken away.

Figure 6 is a section on the line 6—6 of Figure 5.

Figure 7 is a side elevation of a modified laterally and rotatably adjustable bracket provided with a hooked arm.

In the drawing like numerals indicate like parts.

Many times it has been found desirable to have a container or shelf beneath or near a kitchen sink to hold cleaning material.

My invention is intended to do away with the container or shelf mentioned above and to use instead, a bracket fastened underneath a sink, the bracket having an arm that can be moved laterally and which will, when in its extended position, project far enough forward to be within easy reaching distance of a person working at the sink.

I also provide a bracket that can be easily and quickly secured to a drain pipe or any supporting stand beneath a sink and will at the same time be adapted to convenient positioning.

In one of the forms shown my bracket is fastened to a pipe, and has an arm that can be moved inwardly and outwardly from beneath a sink and in the other form the bracket can be rotated about a pipe and also can be moved laterally. I find in some installations it is not necessary to have the form which moves both rotatably and laterally.

In the forms shown in Figures 1, 2 and 3, I have shown a bracket 10 fastened to a pipe 11. The bracket 10 has forwardly extending arms 12 and 13.

These arms 12 and 13 are turned laterally at 14 and 15 some distance from the drain pipe 11, and are turned forwardly at 16 and 17 to form bearings 18 and 19 for laterally moving arm 20. Arms 12 and 13 may be fastened to or detached from the pipe 11 by means of a bolt 21 and thumb nut 22.

In Figure 2 the laterally movable arm 20 is extended at 23 and its extended end has secured thereto bowed spring extensions 24 and 25 having downwardly extending spring fingers 26 and 27 which engage the side walls 28 of a carton or the like 29. The spring extensions are effective to resiliently press the side walls outwardly, if the box be initially

narrower than their spacing. This holds a narrow box open in circular or elliptical shape, giving better access to the contents. With wider boxes the support is still laterally resilient but the need for this is not so great.

The laterally movable arm 20 is provided on its opposite end with a stop in the form of a pin 30.

I find the structure above described very reliable and convenient, the forwardly and outwardly extending arms that form bearings for the sliding rod or arm 20 giving added support for the rod when a package or carton is fastened on its end.

Figure 3 shows clearly the spring fingers 26 and 27 extending downwardly from the bowed spring extensions 24 and 25. It will be noted that the contact points 31 and 32 engage one side of the walls 28 of the box 29 and the bowed spring arms 24 and 25 engage the other side of wall 28 of the box 29.

The above construction provides desirable gripping means to hold the box in position, so that the user may insert his hands without danger of the box being dropped on the floor.

In the forms shown in Figures 4, 5 and 6 I have illustrated an additional split clamp fitting 33. This fitting is made in half ring sections 34 and 35 each of which are provided with upper and lower cooperating ears 36 and 37. Through these ears I insert tightening screws 38 which fasten the bearing clamp 33 to the drain pipe or support.

Between these upper and lower cooperating ear members 36 and 37 of the bearing clamp 33 I provide a reduced bearing surface 39 about which the clamping arms 12 and 13 are firmly held in place by a spring clip 40 forced over the arms 12 and 13 of the bracket 11 tending to pull the arms 12 and 13 inwardly to tighten the bracket 11 to the pipe 10; otherwise the construction is identical with that shown in Figures 1 to 3 inclusive.

I have shown another form of the many variations my invention may assume in Figure 7 in which the laterally movable arm 20′ is notched at its outer end to provide a hook 41 for the reception of a handled container 42, otherwise the construction is the same as in the previously mentioned form of Figures 4 to 6 inclusive.

In view of my invention and disclosure variations and modifications to meet individual whim or particular need will doubtless become evident to others skilled in the art, to obtain part or all of the benefits of my invention without copying the structure shown, and I, therefore, claim all such in so far as they fall within the reasonable spirit and scope of my invention.

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

1. In a package support, a horizontally disposed bracket having spaced arms, spring clamping means for holding the spaced arms in position about a pipe, spring arms supported by the bracket and downwardly open spring fingers terminating the spring arms and adapted to engage the open top of a container and to support the container.

2. In a bracket support, a split clamping ring adapted to surround a pipe, a bracket having laterally extending arms, spaced further apart at their outer ends than at the ends near the pipe, mounted about the clamping ring and limited in upward and downward movement by the walls of the clamp, a horizontal bar slidable in the bracket and package supporting means carried by the bar.

ROBERT HETHERINGTON.