

May 1, 1934.

R. HETHERINGTON

1,956,986

DOUBLE ARMED BRACKET AND SIDE HOLDER.

Filed March 9, 1931

3 Sheets-Sheet 1

Fig. 1.

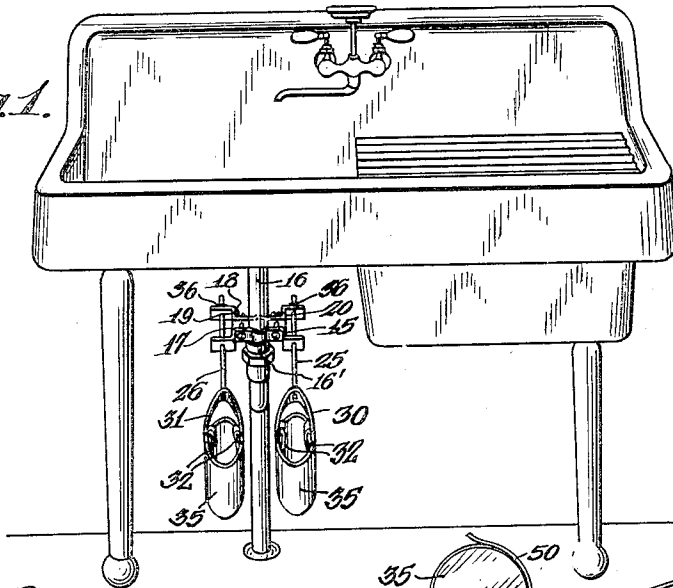


Fig. 2.

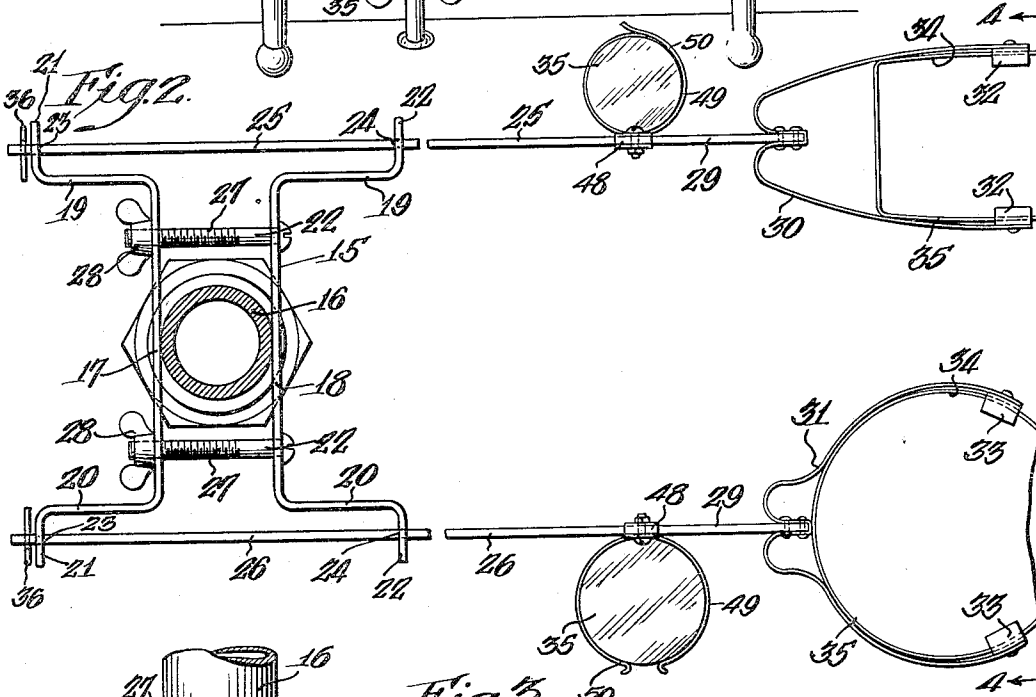
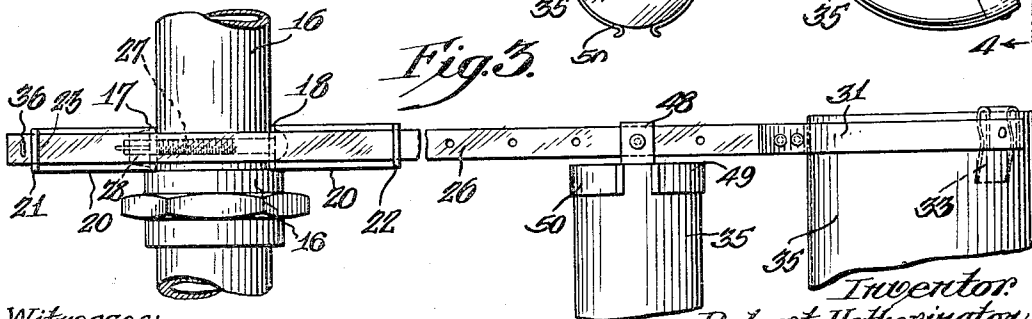


Fig. 3.



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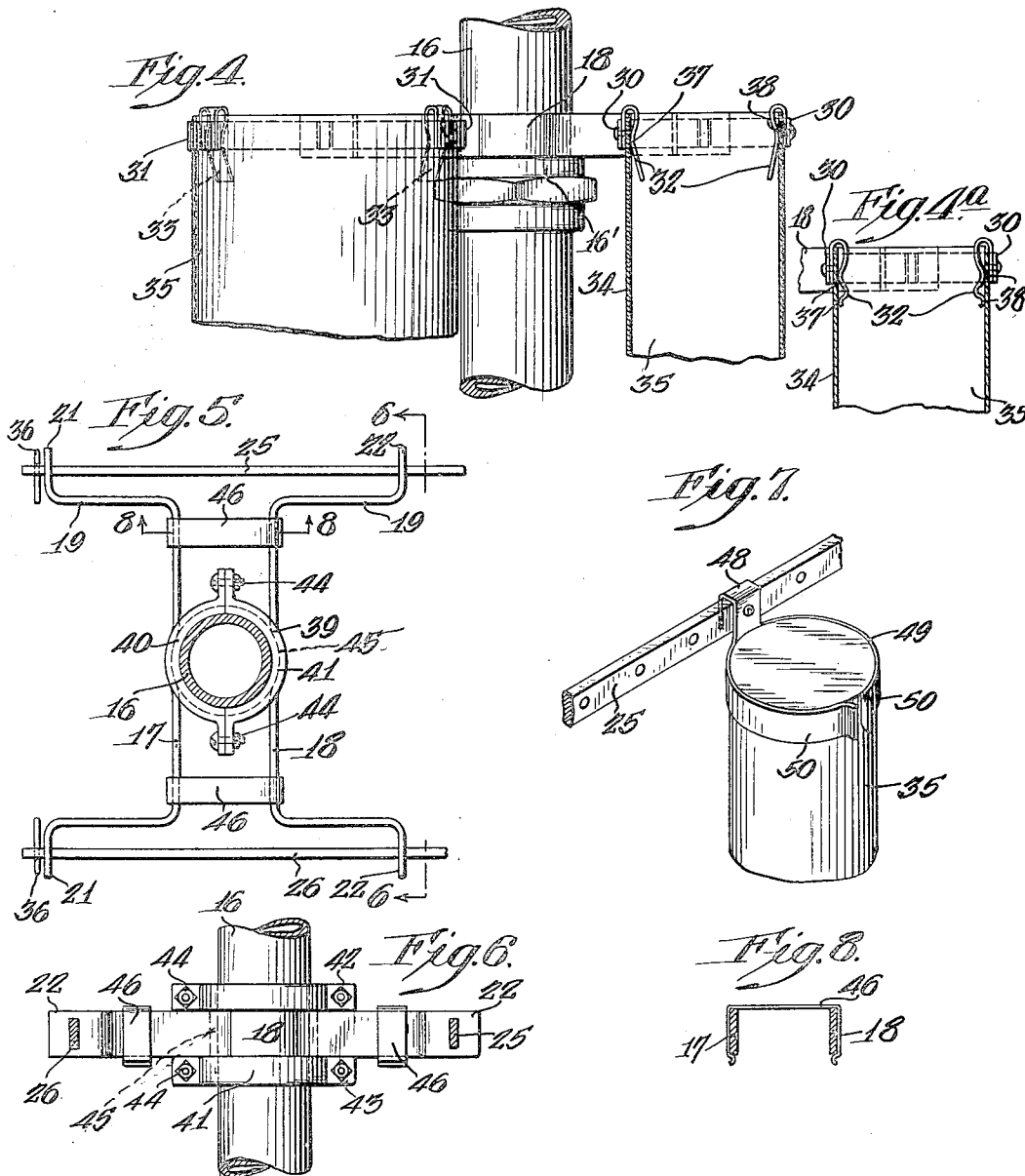
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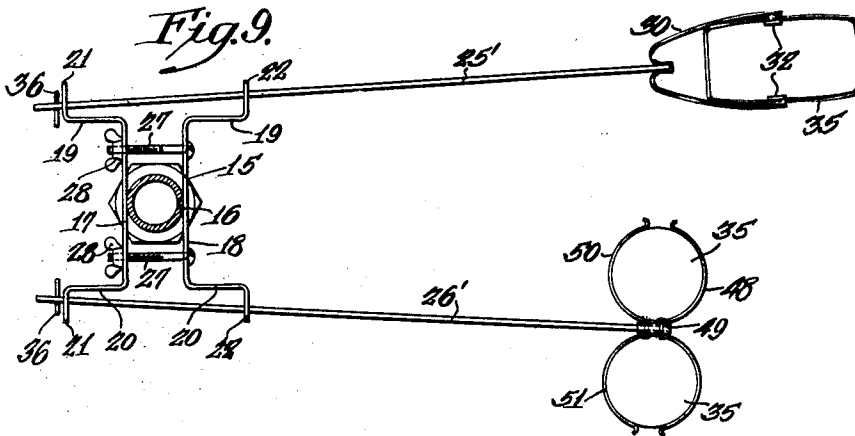
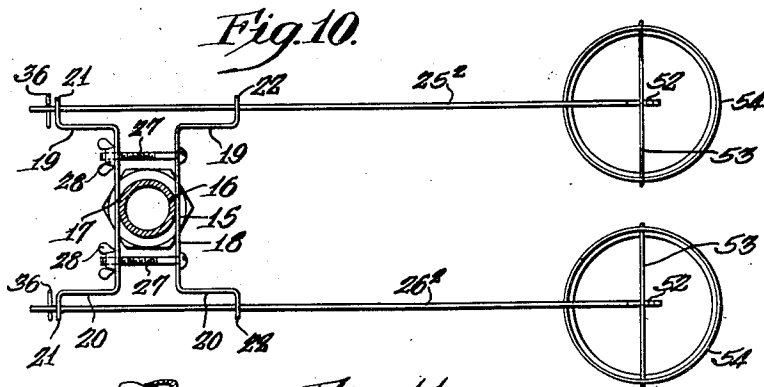
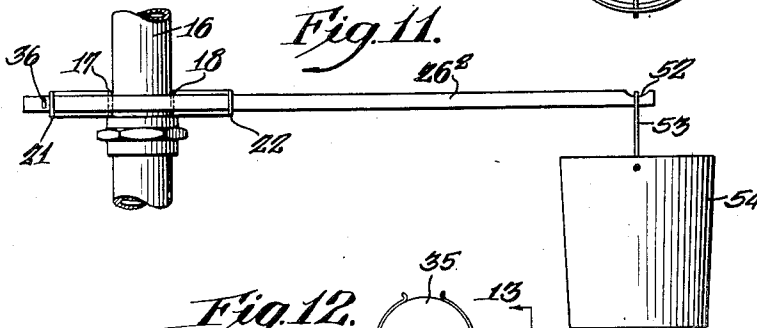
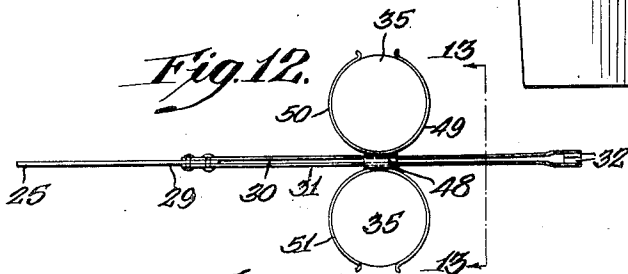
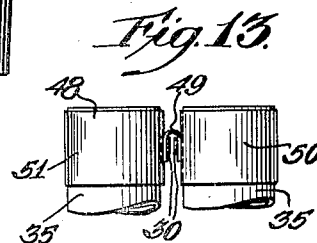
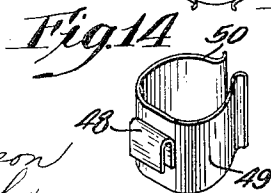
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DOUBLE ARMED BRACKET AND SIDE HOLDER

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3 Sheets-Sheet 3



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UNITED STATES PATENT OFFICE

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DOUBLE ARMED BRACKET AND SIDE
HOLDER

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Application March 9, 1931, Serial No. 521,338

2 Claims. (Cl. 248—20)

My invention relates to a bracket for attachment beneath a sink, to hold articles of various kinds, such as packages of cleaning materials, including soap flakes and cleanser or containers for brushes, cloths, metal cleaners or like materials.

The main purpose of my invention is to provide an adjustable bracket that can be fastened to a drain pipe or to any other suitable member under a sink, the bracket being capable of supporting pasteboard or metal cartons, boxes or buckets.

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

A further purpose is to construct a detachable bracket, supporting arms at right angles which can be adjusted longitudinally, the arms 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 hold a plurality of clamping bracket arms of an adjustable bracket, allowing for revolving movement of both the bracket and the adjustable bracket arms, to bring the arms into and out of the position of use.

A further purpose is to provide a plurality of bracket arms that may, if desired, be capable of rotatable and longitudinal movement and which have hooked ends to receive containers having handles.

A further purpose is to provide spring clamping devices, preferably detachably secured to extending arms of a bracket, for holding cardboard cartons or like containers.

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

Describing in illustration but not in limitation and referring to the drawings:—

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

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 cross-section. This figure also shows a variation in the shape of package that is clamped.

Figure 3 is a side elevation of the structure seen in Figure 2.

Figure 4 is a section on the line 4—4 of Figure 2.

Figure 4a is a modification of the spring fingers of Figure 4.

Figure 5 is a top plan view similar to a portion of Figure 2.

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

Figure 7 is a fragmentary perspective view of a spring clamp holder with a carton or container held therein.

Figure 8 is a section of Figure 7 taken on the line 8—8, showing a detail.

Figures 9 and 10 are top plan views similar to Figure 2 but illustrating modifications.

Figure 11 is a side elevation of Figure 10.

Figure 12 is a top plan view of a portion of the structure seen in Figure 2, but with an additional spring clip holder placed about spring fingers which form part of the extending arms.

Figure 13 is a section of Figure 12 taken on the line 13—13.

Figure 14 is a perspective view of another form of spring clamp holder.

In the drawings like numerals indicate like parts.

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

My invention is intended to do away with the container or shelf mentioned above and to use instead a bracket underneath a sink, the bracket having an arm that can be moved longitudinally 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 and be supported on a fitting on the 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 arms 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 the arms can also be moved longitudinally. I find in some installations it is not necessary to have a structure which moves both rotatably and longitudinally.

In the forms shown in Figures 1, 2, 3, 4, 7 and 8, I have shown a bracket 15 fastened to a pipe. The bracket 15 comprises extending clamp sections 17 and 18.

The clamp sections 17 and 18 are bent laterally at 19 and 20 at opposite ends some distance from the drain pipe 16, and are bent forwardly at 21

and 22 to form bearings 23 and 24 for longitudinally moving arms 25 and 26. The clamp sections 17 and 18 may be fastened to or detached from the pipe 16 by means of bolts 27 and thumb nuts 28.

In Figure 2 the longitudinally movable arms 25 and 26 are extended at 29 and their extended ends have secured thereto bowed spring extensions 30 and 31 having downwardly extending spring fingers 32 and 33 which engage the upper edges of the side walls 34 of cartons or the like 35. 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 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 longitudinally movable arms 25 and 26 are provided on their opposite ends with a stop in the form of a pin 36.

I find the structure above described very reliable and convenient, the forwardly and outwardly extending arms that form bearings for the sliding rods or arms 25 and 26 giving added support for the rod when a package or carton is fastened on its end.

By the use of rods 25 or 26 at each end of the bracket 15, I am enabled to obtain support at a plurality of points widely enough spaced to be readily accessible to the user.

Figures 3 and 4 show clearly the spring fingers 32 and 33 extending downwardly from the bowed spring extensions 30 and 31. It will be noted that the contact points 37 and 38 engage one side of the wall 34 of the box 35 and the bowed spring extensions 30 and 31 engage the other side of the wall 34 of the box 35.

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 5 and 6 I have illustrated an additional split clamp fitting 39. This fitting is made up of segments 40 and 41, each of which is provided with upper and lower cooperating ears 42 and 43. Through these ears I insert tightening screws 44 which fasten the bearing clamp 39 to the drain pipe or support.

In many installations it will not be necessary to use the split clamp 39, as the bracket 15 can rest on and be supported by the pipe fitting 16'. This is clearly shown in Figures 1 to 4 inclusive.

Between these upper and lower cooperating ear members 42 and 43 of the bearing clamp 39, I provide a reduced bearing surface 45 about which the clamping arms 17 and 18 are firmly held in place by spring clips 46 forced over the clamp sections 17 and 18 of the bracket 15, tending to pull the clamp sections 17 and 18 inwardly to tighten the bracket 15 in the recess 45. Otherwise the construction is identical with that shown in Figures 1 to 3 inclusive.

Figure 9 shows another variation in which the arms 25' and 26' are extended angularly with respect to the bracket 15. This angular setting of the arms gives a greater distance between them at their ends for the purpose of accessibility and permits larger containers to be carried by the arms.

In Figure 9 I have shown the arm 26' carrying

a double clamp 48 at its outer end; this clamp comprises a spring clip 49, which is placed on the arm and held there either by spring engagement or by bolting, and laterally extending spring fingers 50 and 51.

I have found that the clamp 48 is very useful, in addition to the spring fingers 30 and 31 of Figures 2, 3, 4, 7 and 8. In these figures I have shown the clamp 48, equipped with a single set of spring fingers, and supported on one of the rods 25 or 26 as best seen in Figure 7.

Figures 10 and 11 show a variation in the extended arms 25² and 26², in which notches 52 have been provided to receive a handle 53 of a bucket 54 or the like.

At times it may be desirable to compress the spring fingers 30 or 31 and to place the double spring clip 48 about the spring fingers 30 or 31 and I have therefore illustrated this in Figures 12 and 13. Instead of a double clip 48, I may use a single clip, as shown in Figure 14.

It will be evident that the form of bracket and clamp of my invention is particularly desirable because the supporting rods may readily be moved in and out in their bearings, placing the objects supported in readily accessible positions or out of the way at will, and permitting alternate or concurrent drawing out or pushing back of either of the supporting rods.

It will also be evident that the entire mechanism may be turned bodily about the pipe or other supporting base, with or without pushing the rods in or out.

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 bracket to be mounted beneath a sink, a clamp comprising U members having arms of the respective U members to be substantially oppositely directed and in a common plane and means for holding the intermediate portions of the U members in engagement with a pipe or similar object at diametrically opposite points of the pipe, said arms having spaced pairs of guiding terminals, a plurality of substantially parallel bars spaced from the pipe on opposite sides thereof, each bar longitudinally slidable in two of the terminals and means on each arm for engaging an article to be supported.

2. In a bracket to be mounted beneath a sink having a drainage pipe, a clamp comprising a pair of cooperating U members and means for pressing the members at their intermediate portions upon opposite sides of the pipe, the arms of the U members having lateral outward bends near their ends and two longitudinally adjustable bars spaced from one another on opposite sides of the pipe and of the U members and for the support of articles needing support, each bar having an adjustable connection with each of the U members at the outwardly bent end of one of the arms thereof.

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