Feb. 21, 1928. 1,660,074

V. B. HAGG

DRAIN DISH SUPPORT

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Fig. 1.

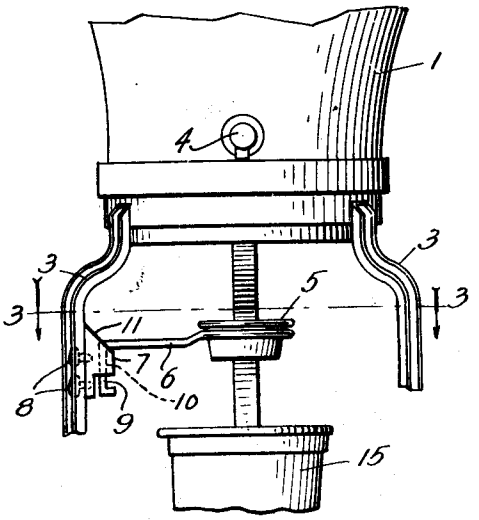


Fig. 2.

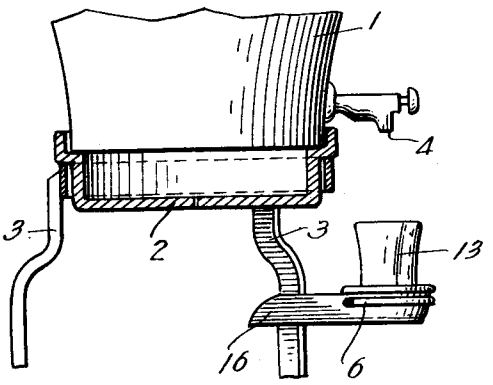


Fig. 3.

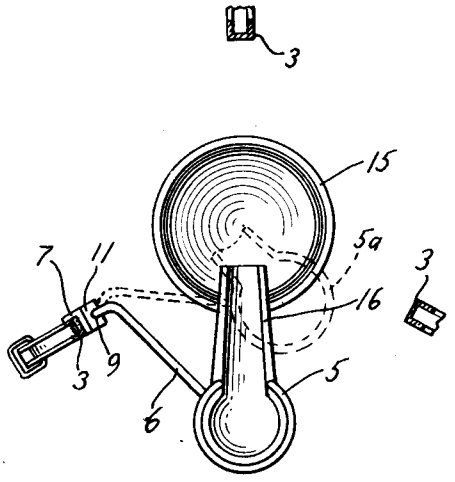
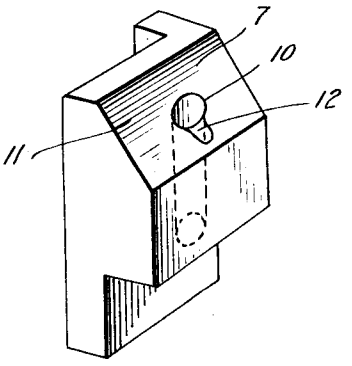


Fig. 4.



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Fig.5.

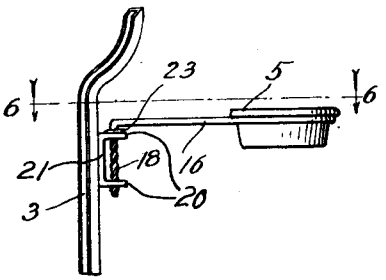


Fig.6.

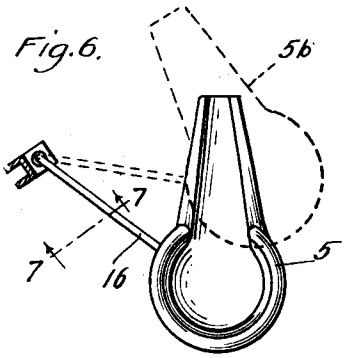


Fig.7.

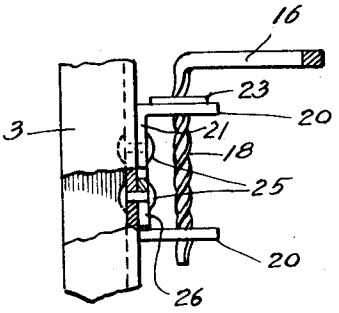


Fig.8.

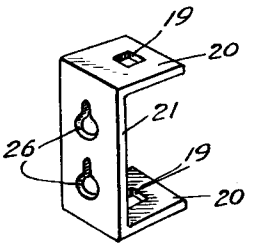


Fig.9.

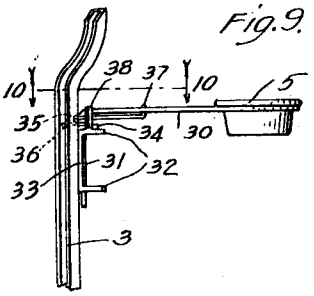
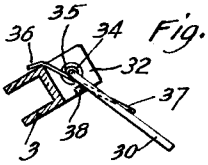


Fig.10.



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UNITED STATES PATENT OFFICE.

VIRGIL B. HAGG, OF WEST HOLLYWOOD, CALIFORNIA.

DRAIN-DISH SUPPORT.

Application filed March 9, 1927. Serial No. 174,084.

This application is, in part, a continuation of my application Serial No. 61,007, filed October 7, 1925, for water filters, now Patent No. 1,629,269 granted May 17, 1927.

This invention relates to means for supporting a drain dish, such as is usually located below the water outlet faucet of water filters or drinking water receptacles and the like, for receiving the drip therefrom and for holding a drinking glass.

The main object of the invention is to provide means for supporting such a drain dish in such a manner that it may be pushed back out of the way to permit insertion of a larger vessel, such as a water pitcher, beneath the faucet and that it will automatically return to normal position beneath the faucet when such larger vessel is withdrawn.

A further object of the invention is to provide a supporting means of this type in which no relatively moving parts are subjected to contact with water dripping thereon, in such manner that all parts which are subject to accidental contact with water may be made of galvanized iron to prevent rusting or corrosion thereof. It is obvious that if any of the parts of the supporting means which are subject to movement with respect to one another when the drain dish is moved to or from its normal position were also exposed to accidental contact with water, it would be impracticable to adequately protect such parts by galvanizing as this would soon wear off due to friction upon repeated operation thereof and rusting would then occur. In the supporting means of my invention all the parts where friction occurs upon movement thereof are removed from likelihood of contact with water so that no protective coating need be applied to these parts to prevent rusting or corrosion thereof.

A further object of the invention is to provide a supporting means of this type which is simple and rugged in construction and which requires a minimum amount of effort to move it out of the way for the purpose above mentioned.

The accompanying drawings illustrate embodiments of my invention and referring thereto—

Fig. 1 is a front elevation of a portion of a water receptacle stand with an improved drain dish support according to my invention applied thereto.

Fig. 2 is a vertical section thereof with the water receptacle shown in elevation.

Fig. 3 is a horizontal section on line 3—3 in Fig. 1.

Fig. 4 is a perspective view of the pivotal supporting bracket upon which the supporting arm for the drain dish is mounted.

Fig. 5 is a view similar to a portion of Fig. 1 showing a modified form of supporting means.

Fig. 6 is a horizontal section on line 6—6 in Fig. 5.

Fig. 7 is a vertical section on line 7—7 in Fig. 6.

Fig. 8 is a perspective view of the supporting bracket used in this second form of the invention.

Fig. 9 is a front elevation showing a modified form of the invention.

Fig. 10 is a section on line 10—10 in Fig. 9.

A water receptacle is indicated at 1 which may be the filtered water receptacle of a water filter or a receptacle for other form of drinking water, and which may be formed of porous stone ware or the like in the usual manner of such devices. Such receptacle is mounted on a supporting base 2 which in turn is supported in the usual manner on a stand or frame comprising legs 3. The receptacle 1 is provided with a water outlet faucet 4 for removal of water therefrom.

In the first form of the invention shown the drain dish 5 is mounted upon a supporting arm 6 pivotally mounted upon a bracket 7 so as to swing upon a vertical axis. The supporting bracket 7 may be secured to one of the legs 3 in any suitable manner as by means of screws 8. The supporting arm 6 is bent at its end to provide a vertical pivot portion 9 which engages in a vertical socket 10 in the bracket 7. A portion of the upper surface of bracket 7 is inclined as shown at 11 and a notch or groove 12 is provided in front of the upper end of socket 10 so that when the supporting arm 6 is in normal position and the drain dish 5 is beneath the outlet of faucet 4, said arm rests in said notch so as to tend

to hold the arm and dish in this position. A drinking glass 13 may conveniently be placed within the drain dish 5 in the usual manner.

Normally the drain dish is in the position shown beneath the faucet 4 so that if a person opens faucet 4 to fill the glass 13 with water, any water which drips from the faucet after the glass is removed is caught by the drain dish and falls into the usual drip receptacle 15 beneath the inner end or spout 16 with which the drain dish is provided. If, however, it is desired to insert a larger vessel such as a pitcher beneath the faucet in order to draw a larger quantity of water therefrom the drain dish 5 may be simply swung inwardly about its pivotal support so as to permit such larger receptacle to be brought to the desired position. In order to permit this to be accomplished without removing the drinking glass 13 from the drain dish it is desirable that such drain dish be placed at a sufficient distance below the base 2 so that the drinking glass will not strike such base when the drain dish is swung inwardly. The inward pressure which is required to swing the drain dish inwardly and to hold it in this position may either be applied by the hand or simply by pressing the vessel, into which it is desired to draw the water, against the drain dish.

It will be seen that as the drain dish is swung inwardly for example to the position indicated in dotted lines at 5^a in Fig. 3 the arm 6 will be displaced from notch 12 and will ride up on the inclined portion 11, so that when the inward pressure is removed from the drain dish, the supporting arm will automatically return due to the action of gravity and will again come to rest in notch 12, thereby restoring drain dish 5 to its normal or outer position.

The drain dish is therefore normally held at all times in proper position to catch any drip from the faucet, but may be displaced from this position by a simple inward pressure, and automatically returns to normal position when such inward pressure is withdrawn.

Another form of the invention is illustrated in Figs. 5 to 8 inclusive. In this case the supporting arm 16 for the drain dish comprises a square rod which is bent downwardly substantially at a right angle at its inner end and having the downwardly extending portion twisted to give the effect of a screw as shown at 18. This twisted or threaded portion of the arm passes through square openings 19 in horizontal lugs 20 of supporting bracket 21, which is mounted on one of the legs 3 of the supporting frame for the water receptacle as before. In order to limit the downward movement of the twisted portion 18 in the openings 19 a metal washer or other projecting member 23 may be welded or otherwise secured to the portion 18 in such position as to engage the upper lug 20 and hold arm 16 in the proper rotative position corresponding to the desired position of the drain dish. The bracket 21 may be mounted on leg 3 in any suitable manner, but is preferably removably mounted thereon as by means of headed studs or rivets 25 engaging in notches 26 in said bracket. In mounting the bracket the enlarged portions of notches 26 may be passed over the heads of studs 25 and the bracket may then be lowered so as to bring the contracted portions of said notches into engagement with the studs and hold the bracket firmly in position.

If the drain dish is swung inwardly, for example, to the position indicated in dotted lines at 5^b, either by hand or by inward pressure of a receptacle which is to be filled with water, the twisted portion 18 of the supporting arm will be rotated in the openings 19, and by virtue of the screw threaded nature resulting from twisting thereof it will be forcibly raised slightly upon such rotation. Consequently when the inward pressure on the drain dish is withdrawn the same will return by gravity to its original position as in the form first described.

Instead of providing for return of the drain dish to normal position by the action of gravity, I may in some cases provide spring means for effecting such return. For example, as shown in Figs. 9 and 10, the drain dish 5 may be mounted at the end of a supporting arm 30 consisting for example of a round rod whose inner end is bent downward as at 31 so as to form a vertical axis or pivot. The pivot portion 31 may be rotatably mounted in lugs 32 of bracket 33 which may be mounted upon leg 3 in any suitable manner for example in the same manner as bracket 21 above described. A metal washer 34 may be welded or otherwise secured to the pivot portion 31 so as to rest upon the upper lug 32 and limit the downward movement of arm 30. A small coil spring 35 may be coiled around the upper portion of the pivot 31 and may have projecting end portions 36 and 37 engaging respectively with leg 3 and supporting arm 30 so as to tend to hold said arm outwardly against stop member 38, which may be formed as an upwardly projecting lug on bracket 33.

It will be seen that the above described construction permits the drain dish 5 to be displaced inwardly in the same manner as before, and that when so displaced the spring 35 will tend to return the drain dish to its normal position and will cause it to so return upon removal of the inward pressure upon the drain dish.

I claim:

In combination with a water receptacle

provided with a faucet and a supporting stand, a supporting arm formed to receive a drain dish, a drain dish mounted thereon, means pivotally supporting said supporting arm so as to permit the same to swing between an outer position in which said drain dish is disposed beneath said faucet and an inner position in which said drain dish is disposed beneath said receptacle, and means tending to hold said arm in said outer position and to return said arm to said outer position upon movement thereof toward said inner position.

In testimony whereof I have hereunto subscribed my name this 2 day of March, 1927.

VIRGIL B. HAGG.