March 24, 1925. 1,530,722

J. J. HICKEY

DRIP WATER SAFE

Filed July 9, 1921

Fig. 1.

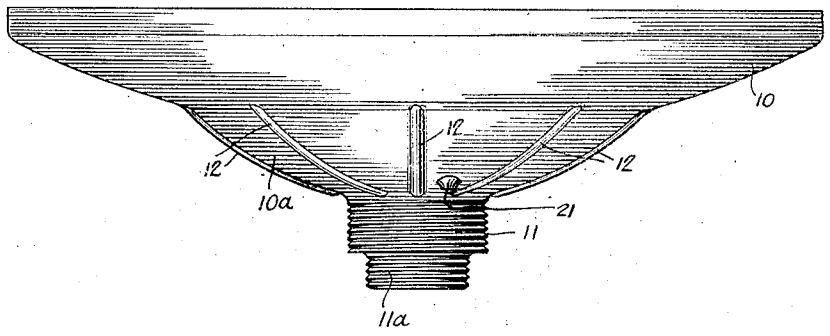
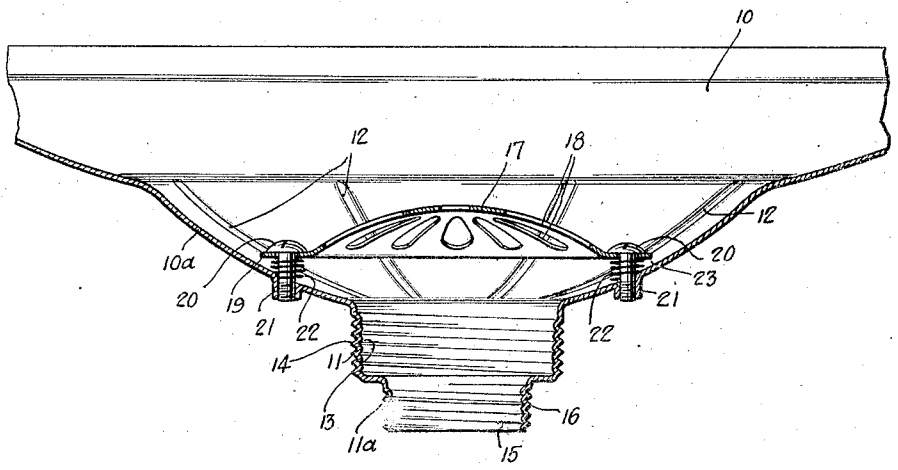


Fig. 2.



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UNITED STATES PATENT OFFICE.

JOHN J. HICKEY, OF NEW YORK, N. Y.

DRIP-WATER SAFE.

Application filed July 9, 1921. Serial No. 483,638.

To all whom it may concern:

Be it known that I, JOHN J. HICKEY, a citizen of the United States, residing at the city of New York, in the county of New York and State of New York, have invented certain new and useful Improvements in Drip-Water Safes, of which the following is a specification.

This invention relates to sanitary engineering and has particular reference to improvements in plumbing apparatus associated particularly with ice boxes, refrigerators, or the like for private residences, apartment houses, or other analogous appointments.

The invention comprises a number of specific details of construction involving the making of the pan portion of the safe of relatively thin material such as sheet metal which is adapted to be spun or pressed into form, preferably the latter, because of several features of construction employed which render it inexpedient for spinning with the simplest possible program or manufacturing process.

More definitely stated the invention comprises a drip water pan pressed from sheet metal and having made as an integral part of the stamping an extension leading downward from the depressed central part of the pan, the extension being provided with parts of two different diameters and each part being threaded, all as will be more fully set forth and claimed hereinafter.

Another object of the invention is to provide a peculiar arrangement of guard or strainer for the collection of sediment or scum and with a novel arrangement of means for connecting the strainer to or supporting it above the central portion of the pan.

With the foregoing and other objects in view the invention consists in the arrangement and combination of parts hereinafter described and claimed, and while the invention is not restricted to the exact details of construction disclosed or suggested herein, still for the purpose of illustrating a practical embodiment thereof reference is had to the accompanying drawings, in which like reference characters designate the same parts in the several views, and in which—

Figure 1 is a side elevation of a preferred embodiment of the invention.

Fig. 2 is a vertical sectional detail of the same on a larger scale and indicating especially the manner of supporting the strainer and the threading of the pan extension.

As indicated above the pan 10 is preferably made of sheet metal, either pressed or spun, but it is to be understood that I do not propose to be limited in all instances to any particular species of material or specific manner of construction or forming of the device. For the most satisfactory practice of the invention the combined pan and extension may be considered as being made as a single integral stamping of sheet metal, the extension 11 being of tubular form and either of uniform diameter or provided with an auxiliary extension 11^a of a different diameter but indicated as smaller than the main extension 11.

The extension is formed as a continuation of the central pocket or depressed portion 10^a of the pan, and leading into the extension are one or more channels or valleys 12 of any suitable length, cross sectional form, or direction, but indicated as being formed substantially radially with respect to the extension and leading thereinto from about the upper edge of the depressed pocket portion 10^a. These channels constitute drainage passageways for the drip water and so in a marked degree tend to prevent the clogging or stoppage of the drain because of any accumulations of slime, scum, or the like within the pan. Moreover, these valleys 12 may readily be formed coincident with the simple stamping operation.

The extension 11 may be provided with screw threads on the inside or outside or both. As indicated such threads are shown inside at 13 and outside at 14. The inside thread may be used for the attachment of an upstanding pedestal or guard in some instances, or if the auxiliary extension is not used, a delivery pipe may be attached to extend downward therefrom. The outside thread 14 will ordinarily be employed for the connection of a supporting drainage pipe, either by means of an inside thread formed in such pipe or through a nipple or coupling specially provided for this purpose or any other well known means. With the provision of the extension 11^a I prefer to provide an inside thread 15 and an outside thread 16, through either of which threads a supporting drainage pipe may be connected, such pipe obviously being of smaller diameter than the pipe that would ordinarily be connected to the main extension 11.

For the best or most successful operation of drip water safes it is desirable to provide some suitable guard means within the pan and yet below the level of the upper edge thereof to receive and check the accumulations of scum or the like which otherwise would soon fill up the outlet opening of the pan and so cause the pan to overflow. For this purpose I indicate a strainer 17 in the form of a flat cap or comprising a central dome portion having any suitable holes or slots 18 and a peripheral flange 19 for attachment or supporting purposes. This strainer may be attached directly to the inner surface of the pan, but preferably it is held elevated above or spaced from said inner surface. If the strainer be supported directly upon the pan the drainage valleys 12 would still afford fairly satisfactory flow of the water without obstruction. The means I indicate for attaching the strainer consists of a plurality of posts 20 tapped into a like number of extrusions 21 punched or stamped downward from the bottom portion of the pocket 10^a of the pan, this operation being performed coincident with the stamping of the pan. The tapping of these extrusions is easily and quickly performed thereafter. The posts 20 extend downward through the strainer flange 19. Any suitable means may be provided to hold the strainer elevated or against the upper headed ends of the posts, but I preferably support the same both resiliently and adjustably, the resiliency being effected by coil springs 22 surrounding the posts and bearing upward against the bottom of the flange, while the adjustability of the strainer, making the clearance at 23 greater or less, is accomplished by simply turning the bolts or posts in the threaded extrusions. With the device constructed and arranged as shown it will remain in operative condition for a long time before the passageway at 23 is apt to be occluded, but even if it should be clogged around the flange 19 the strainer will still remain open through the slots in its dome for an unusually long time before requiring attention.

I claim:

1. In drip water safe, the combination of a pan having a central depression and discharge opening, a strainer within the pan, and means to support the strainer entirely above said discharge opening and spaced from the interior surface of the pan, said supporting means for the strainer being arranged to adjust the strainer toward or from the pan.

2. A device as set forth in claim 1 in which resilient means is employed to hold the strainer spaced upward from the bottom of the pan.

3. A device as set forth in claim 1 in which the supporting means for the strainer includes a plurality of bolts secured to the pan and a like number of coil springs surround the several bolts between the strainer and the bottom of the pan.

4. A device as set forth in claim 1 in which the supporting means for the strainer includes a plurality of screw threaded bolts tapped into the pan and through the rotation of which the strainer may be positively and bodily adjusted toward or from the pan.

In testimony whereof I affix my signature.

JOHN J. HICKEY.