Dec. 23, 1930. N. A. RUBNER 1,785,877

DRIP PAN FOR TOILET FLUSH TANKS

Filed Jan. 8, 1930

Fig. 1.

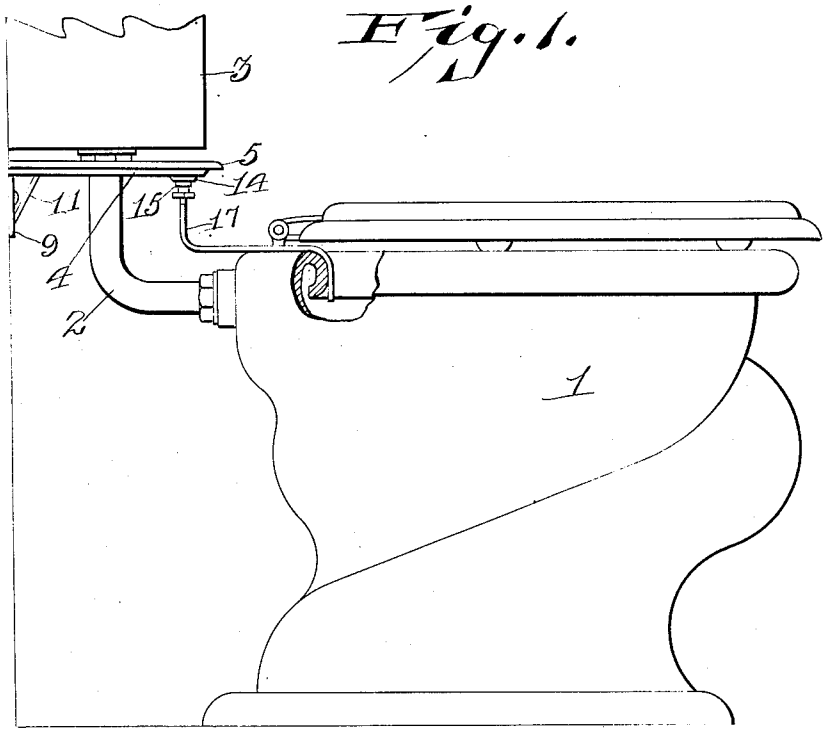


Fig. 2.

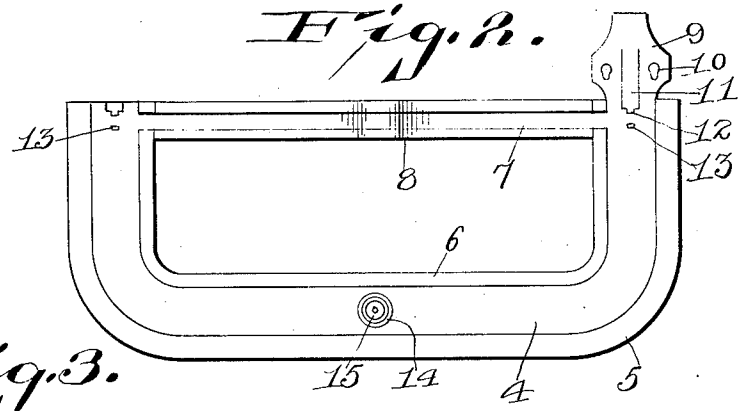
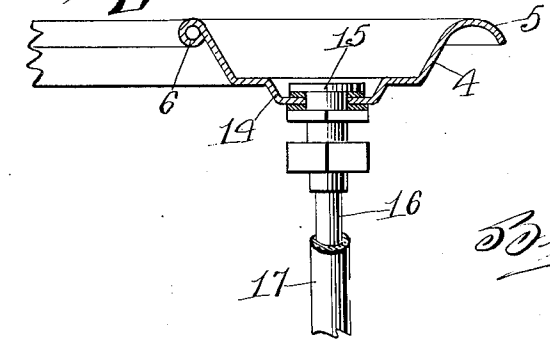


Fig. 3.



Witnesses
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UNITED STATES PATENT OFFICE

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DRIP PAN FOR TOILET FLUSH TANKS

Application filed January 8, 1930. Serial No. 419,407.

This invention relates to new and improved drip pans for toilet flush tanks.

It is a well known fact that there is usually a condensation formed on the exterior of flush tanks which has a tendency to run down and drop on the floor, causing considerable annoyance and in a great many instances damage to the floor and other parts of the building.

It is one of the objects of my invention to provide a drip pan to receive the condensation and convey the same to the toilet bowl.

Another object of my invention is the provision of a drip pan for flush tanks which is stamped from a single piece of material and can be quickly and readily placed in position beneath the edges of the flush tank so as to catch the drippings of the condensation and readily convey the same to the adjacent toilet bowl.

A further object of the invention is the provision of a drip pan of the above character wherein the securing and bracing members are stamped from the body of the drip pan in a single operation so as to provide a drip pan which will not only be efficient in use, but one which can be manufactured and placed on the market at a very low cost.

With the above and other objects in view, the invention consists in the novel features of construction, the combination and arrangement of parts hereinafter more fully set forth, pointed out in the claims and shown in the accompanying drawings wherein:

Figure 1 is a side elevation of a toilet, illustrating the application of my improved drip pan;

Figure 2 is a top plan view of the pan, illustrating one of the securing ears in an inoperative position;

Figure 3 is a detail transverse section through a portion of the pan illustrating the connection of the drainage tube.

Referring more particularly to the drawings, 1 indicates the usual type of toilet bowl which is connected by means of a pipe 2 through the usual flush tank 3. My improved drip pan is preferably constructed so as to be positioned directly beneath the edges of the tank 3, so as to receive drippings from the condensation which forms on the exterior of the water tank particularly at times where the room in which the toilet is located is comparatively warm and cold water is drawn into the tank.

In forming a drip pan of this character, the same is preferably stamped from a single piece of material and comprises the U-shaped body 4 with an arcuate outer edge 5 and an inner beaded edge 6. This construction forms a substantially trough-like member, the body of which is U-shaped and also carries a transverse extension 7 which extends between the ends of the body and is slightly bowed at the intermediate portion as shown at 8, to cause the drippings, which are received in the extension 7 to be conveyed to the trough-like body 4 of the main portion of the pan.

In stamping the drip pan in a single operation, the bracket ears 9 are stamped out at the ends of the U-shaped body and are provided with spaced openings 10 for receiving any type of securing members to be used in retaining the drip pan in its operative position.

It will be noted that during the stamping operation, a tongue 11 is stamped out from the bracket ears 9 and a portion of the body at the ends thereof, said tongue having a reduced end or tab 12 at its inner end. The tongues 11 stamped out of the bracket ears 9 are adapted to be bent outwardly and disposed upon an incline, as shown in Figure 1, with the tabs 12 adapted to be fitted into the openings 13 formed in the body of the pan adjacent each end whereby these tongues 11 will form suitable brace members for supporting the pan in proper position with respect to the bottom of the flush tank 3.

In placing the drip pan in position, it is preferred to have the tongues of such length as will permit the pan to be disposed at a slight incline with the intermediate portion or front edge of the pan somewhat lower than the rear in order to provide for proper drainage of the dripping from the tank 3.

At the intermediate portion of the drip pan, I provide a depression 14 having an opening there-through and fitting within the

depression and extending down through the opening is the securing slot 15 for the drain tube 16. The drain tube 16 may for the purpose of appearance be covered with any suitable material such as rubber, enamel, or similar material, as shown at 17. The top leads downwardly into the toilet bowl 1, as shown in Figure 1, whereby the condensed drippings from the tank 3 which are received within the drip pan can be readily drained into the toilet bowl.

In forming the drip pan, the transverse extension 7 between the ends of the body of the pan can be either stamped out integral with the pan or can be made separate and have its ends soldered or otherwise secured to the ends of the pan. In a great many instances, however, it is not necessary to use the transverse extension 7, and, therefore, it is preferred to have this member made as a separate part of the pan. It will be apparent from the foregoing that I have provided a very simple and inexpensive device for the purpose set forth which can be quickly and readily placed in position beneath the flush tank of a closet whereby the condensed drippings from the tank can be readily conveyed to the toilet bowl and save considerable expense and annoyance due to the condensation dripping onto the floor of the room in which the closet is located.

I claim:

1. A device of the class described including a substantially U-shaped trough-like body, supporting brackets integral therewith and a drainage tube communicating with the trough-like body at its intermediate portion.

2. A drip pan of the character described including a U-shaped body member of trough-like design, integral brackets at the ends thereof, tongues stamped out from the brackets, and having reduced ends, the ends of the body having openings to receive the reduced ends of the tongues and a drainage tube having communication with the interior of the trough-like body at the intermediate portion of the body.

3. A drip pan stamped from a single piece of material and including a U-shaped body U-shaped in cross section, integral bracket members at the ends of the body, bracing tongues stamped out from the ends of the body and brackets, tabs at the outer ends of the tongues, the ends of the body having openings to receive said tabs, a depression at the intermediate portion of the U-shaped body having an opening and a drainage tube in the opening and communicating with the interior of the body.

4. The combination with a toilet including a flush tank and toilet bowl, a U-shaped drainage pan adapted to be positioned beneath the edges of the tank, brackets for supporting the pan in position, a drainage tube leading from the intermediate portion of the pan to the toilet bowl and a transverse extension carried by the pan and leading across the back edge of the flush tank.

In testimony that I claim the foregoing I have hereunto set my hand at Milwaukee, in the county of Milwaukee and State of Wisconsin.

NORBERT A. RUBNER.