No. 695,311. Patented Mar. 11, 1902.

J. J. HICKEY.

WASTE WATER RECEPTACLE AND DISCHARGE TRAP FOR ICE BOXES OR THE LIKE.

(Application filed May 15, 1901.)

(No Model.)

Fig. 1.

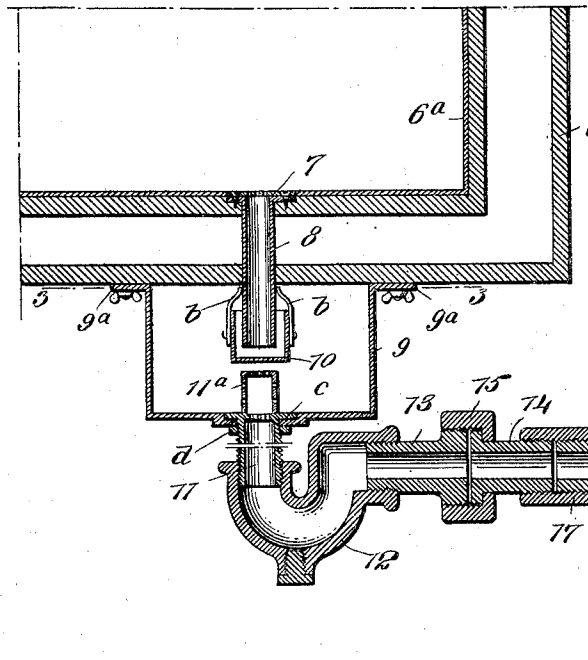
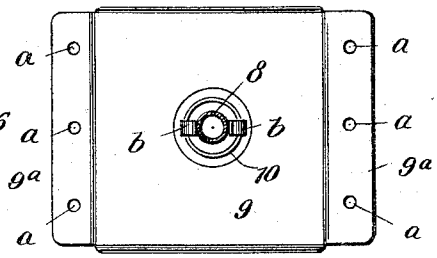


Fig. 2.



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WASTE-WATER RECEPTACLE AND DISCHARGE-TRAP FOR ICE-BOXES OR THE LIKE.

SPECIFICATION forming part of Letters Patent No. 695,311, dated March 11, 1902.

Application filed May 15, 1901. Serial No. 60,344. (No model.)

To all whom it may concern:

Be it known that I, JOHN J. HICKEY, a citizen of the United States, and a resident of the city of New York, borough of Manhattan, in the county and State of New York, have invented new and useful Improvements in Waste-Water Receptacles and Discharge-Traps for Ice-Boxes and the Like, of which the following is a full, clear, and exact description.

The object of this invention is to provide novel, simple, and practical means for catching waste water that escapes from the lower portion of an ice-box or refrigerator and provide an overflow-escape therefor to which a trapped conduit is connected that is extended to a point for discharge of the waste water into a sewer or upon the ground.

The invention consists in the novel construction and combination of parts, as is hereinafter described, and defined in the appended claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar characters of reference indicate corresponding parts in all the figures.

Figure 1 is a sectional side view of the improvement applied. Fig. 2 is a partly-sectional plan view substantially on the line 3 3 in Fig. 1.

The invention may with advantage be provided as a safety appliance on laundry-tubs, bath-tubs, toilet-basins, sink-basins, ice-boxes or refrigerators, and, for example, is shown as an attachment upon an ice-box.

In the drawings, 6 indicates a lower portion of an ice-box or refrigerator having the usual metal lining 6^a. In or upon the lining 6^a is a screen 7, that covers the upper flanged end of a waste-water-discharge pipe 8, which passes down through an orifice in the ice-box bottom and projects below it, as clearly shown in Figs. 1 and 2, said screen being held in place by screws or other means.

An essential feature of the invention consists in the provision of the waste-water receptacle 9, which is preferably formed of sheet metal in rectangular form, having suitable dimensions for efficient service. The waste-water receptacle 9 is usually provided with flanges 9^a, that project from its upper edge, and said flanges are perforated, as at *a* in Fig. 2, for the passage of screws or bolts employed to affix the receptacle upon the lower side of the ice-box below the discharge-pipe 8.

Upon the body of the discharge-pipe 8, that projects below the ice-box 6, a sealing-cup 10 may be detachably held by the spring-fingers *b*, which are oppositely and upwardly projected from said cup, and the latter is in this way held depending upon and below the open lower end of the discharge-pipe, so as to encircle said pipe with its side wall, which will adapt the cup to retain water which enters the same until the water overflows the free edge of the cup, and thus effects a seal at the lower end of the discharge-pipe, preventing air from entering the ice-box.

In a circular opening formed in the bottom wall of the receptacle 9 and occupying an annular depression that encircles said opening the flanged upper end *c* of a nipple 11 is seated, said nipple having on the upper end thereof a perforated screen 11^a, which projects into the receptacle 9 and covers the perforations formed in the wall *c*, that is formed or secured at a point in the screen which will dispose said wall about level with the bottom of the receptacle 9 when the parts are assembled, as shown in Fig. 1. As shown, a jam-nut *d* is screwed on the nipple against the bottom of the receptacle 9 and secures said nipple clamped thereon.

The nipple 11 (shown separated into two portions in Fig. 1) in complete form may have any suitable length, and upon the lower portion of said nipple is mounted one leg of the U-shaped trap 12. In the outlet end of the trap 12 a threaded nipple 13 is screwed, and said nipple may be connected to another nipple 14 by a union-nut 15, as shown in Fig. 1. Upon the nipple 14 and one end of a waste-water conduit-pipe 16 there is screwed a sleeve connection 17, which serves to detachably join together the trap 12 and the conduit-pipe, which latter may be extended to any suitable point for the discharge of waste water passing through the trap and conduit-pipe. As shown in Fig. 1, the end of the conduit-pipe 16 is connected with an upright pipe 18, that leads to a sewer or other point of discharge.

It will be seen that the water escaping from the ice-box or refrigerator 6, as shown in Fig. 1, will be caught in the receptacle 9 and freely

pass therefrom to the trap 12 and thence to the conduit-pipe 16, from which the waste water escapes into the main waste-water-discharge pipe 18, and it will be evident that foul air from the sewer which may be occasioned by back pressure therein will be prevented from entering the ice-box or refrigerator, as it cannot pass both seals afforded by the U-shaped trap 12 and the cup-seal 10, such a barrier to the passage of air affording free escape for waste water from the ice-box or refrigerator.

It is to be understood that any available material may be employed in the construction of the improvements and that changes may be made in the form of the trap 12 within the scope of my invention, it being only necessary that such a trap device be employed as will be equal in efficiency to the U-shaped trap shown and described.

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

1. The combination with a water-escape pipe on an ice-box or the like, of a waste-water receptacle held on the bottom of the ice-box under the escape-pipe, an elongated nipple, means to hold said nipple on the bottom of the receptacle, a tubular screen having a foraminated top and held on the bottom of the receptacle over the nipple, and a trapped extension of the nipple which is adapted to carry away the waste water which escapes from the receptacle through the screen and nipple.

2. The combination with an ice-box or the like, of a box-like receptacle held on the lower side of the ice-box, an escape-pipe depending from the ice-box into said receptacle, a nipple having a flanged tubular screen on its upper end projecting upwardly within the receptacle, a jam-nut screwed on the nipple and engaging the bottom side of the receptacle, a substantially U-shaped trap on the extended end of the nipple, and a waste-water conduit extended from the trap.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOHN J. HICKEY.

Witnesses:
JAMES O'CONNELL,
THOMAS WALKER.