Feb. 23, 1926. 1,574,480

J. T. HARNETT

COMBINATION DRAIN VENT AND WATER BOX

Filed August 19, 1924

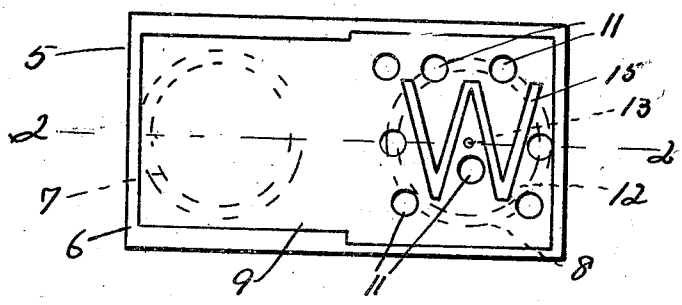

Fig. 1.

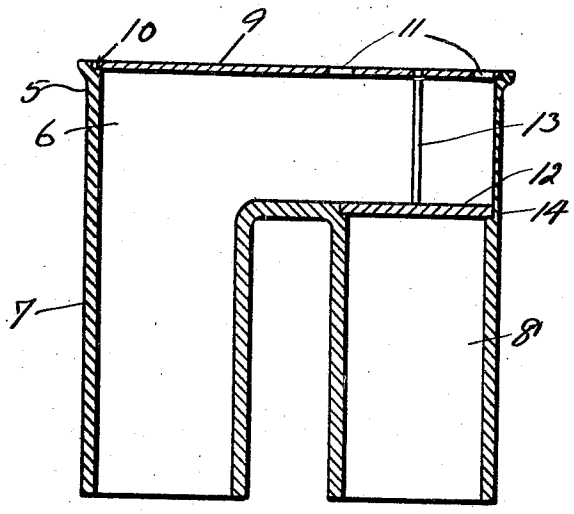

Fig. 2

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UNITED STATES PATENT OFFICE.

JOHN T. HARNETT, OF PHILADELPHIA, PENNSYLVANIA.

COMBINATION DRAIN VENT AND WATER BOX.

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To all whom it may concern:

Be it known that I, JOHN T. HARNETT, a citizen of the United States, residing at Philadelphia, in the county of Philadelphia and State of Pennsylvania, have invented new and useful Improvements in a Combination Drain Vent and Water Box, of which the following is a specification.

My invention relates to new and useful improvements in a combined drain vent and water box, and has for its primary object to so construct such a device that the drain vent will be open for the proper circulation of air while both said vent and the water box will be protected against the insertion of sticks, wires and other foreign matter which would clog the drain and prevent the insertion of a cock key.

In municipalities having public water supply and sewerage systems it is generally necessary to have a stop cock in the water lead-in from the main and drain vent inside of the curb trap from each of which runs a riser, one for access to the stop cock and the other for the circulation of air to supply air to the vent in the building. By locating the drain and water lead-in pipe in proximity to each other the two risers may run parallel so that my improved vent and water box can be used in conjunction with both of these to permit the air to circulate while protecting both the curb trap and stop cock.

Another object of this invention is to provide an exceedingly simple combined vent and water box which is economical in the cost of manufacture and efficient in use.

A still further object of my invention is to produce a box of the character mentioned which includes a box body, preferably rectangular in shape, blending into two depending legs for connection with two separate risers, top for the box body having imperforate and perforated portions overlying different legs and a cover to close the leg underlying the perforated portion of the top, said cover being suspended from said top.

With these ends in view, this invention consists in the details of construction and combination of elements hereinafter set forth and then specifically designated by the claim.

In order that those skilled in the art to which this invention appertains, may understand how to make and use the same, I will describe its construction in detail, referring by numerals to the accompanying drawing forming a part of this application, in which:—

Fig. 1, is a plan view of a combination drain vent and water box embodying my invention.

Fig. 2, is a section at the line 2—2 of Fig. 1.

In carrying out my invention as herein embodied, 5 represents the combined drain vent and water box as a whole, including a box body 6, preferably of rectangular shape. From the bottom of the box body depend two legs 7 and 8 both communicating with the interior of the box body and these are preferably circular in cross section. The vent leg 7 is connected with the vent or drain riser when the device is installed while the water leg is connected to the riser associated with the stop cock in the water supply lead-in pipe running from the supply main. The water supply lead-in pipe and the drain are preferably laid in the same ditch, one above and to one side of the other. The installation and arrangement of pipes such as herein referred to are well understood in the art and therefore no further detailed description will be given.

The upper open end of the box body is closed by a top 9 resting in the seat around the upper edge of said box body and that portion of the top overlying the vent leg 7 is imperforate while the portion overlying the water leg is perforated as indicated by the numeral 11. In order to prevent the top from being accidentally or purposely reversed one end should be wider than the other to fit a correspondingly shaped seat as shown in Fig. 1 or provided with other suitable means to insure the proper placement of the top so that the perforated portion can never overlie the vent leg 7.

The upper end of the water leg 8 is closed by a cover 12 depending from the perforated portion of the top 9 by a rod 13, or its equivalent, and engaging the seat 14 in the upper portion of the water leg when the top 9 is properly in place this preventing the insertion of sticks, wires or the like into the water leg and since the perforated portion of the top is to one side of the vent leg 7 the chances of insertion of such objects in the vent leg are reduced to a minimum. Any soil or small particles of dirt or refuse that

may be washed by rain or otherwise into the box body will be carried through the drain vent into the drain and thence to the sewer.

As the parts cannot be readily or easily clogged up it is practically certain that a free circulation of air may pass up or down the vent leg, through the box body and the perforations in one end portion of the top.

When the top 9 is removed the cover 12 is withdrawn so that both the vent and water legs are open for either the insertion of a plunger to clear the drain or a key to actuate the stop cock.

In some localities it is necessary that the water box be designated and in such cases the perforated portion is supplied with a letter "W" shown at 15 in Fig. 1 as this is the part overlying the water box or stop cock.

Of course I do not wish to be limited to the exact details of construction as herein shown as these may be varied within the limits of the appended claim without departing from the spirit of my invention.

Having thus fully described my invention, what I claim as new and useful is:—

A box of the class described comprising, in combination, a box body having an irregular seat at its upper end, a vent leg and a water leg depending from the bottom of said box body, suitably spaced apart and communicating with the interior of said box body, the water leg having a seat at its upper end, a top of irregular formation to fit the seat in the upper end of the box body, said top being perforated only at that end overlying the water leg for the admission of air to the vent leg through the box body, a cover to engage the other seat to close the water leg, and means to suspend said cover from the perforated end of the top.

In testimony whereof, I have hereunto affixed my signature.

JOHN T. HARNETT.