W. VOLKHARDT.

KEYLESS STREET WASHER.

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1,251,306. Patented Dec. 25, 1917.

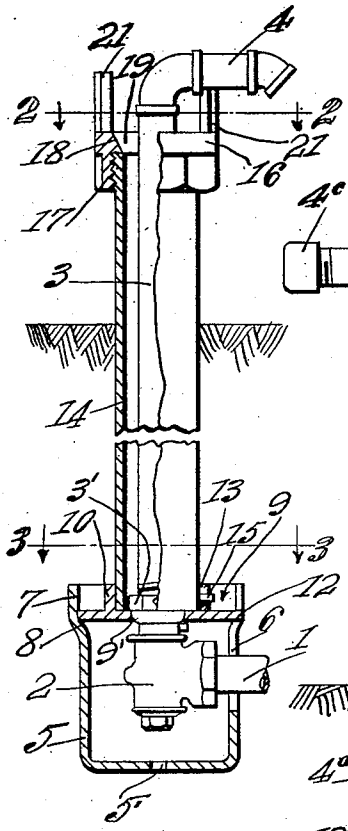


Fig. 1.

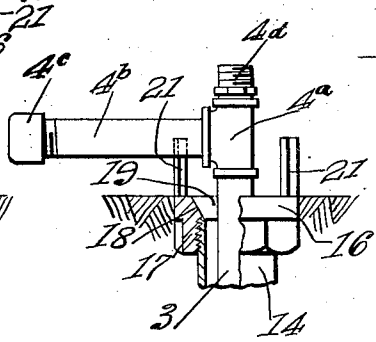


Fig. 4.

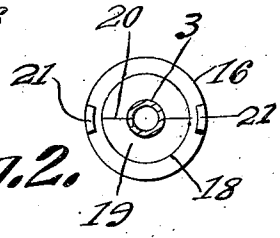


Fig. 2.

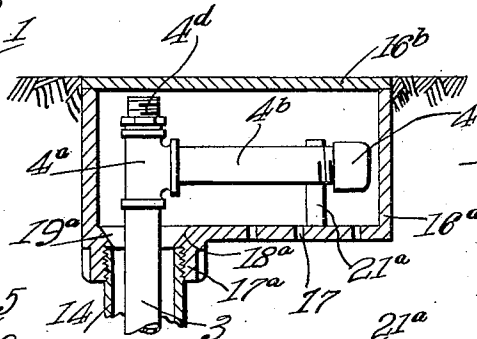


Fig. 6.

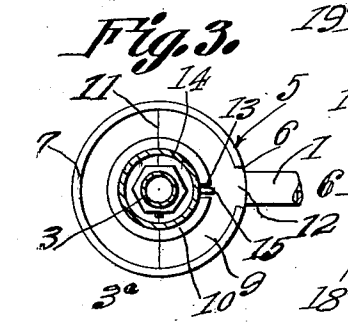


Fig. 3.

Fig. 5.

Witnesses

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KEYLESS STREET-WASHER.

1,251,306. Specification of Letters Patent. Patented Dec. 25, 1917.

Application filed February 20, 1917. Serial No. 149,850.

To all whom it may concern:

Be it known that I, WILLIAM VOLKHARDT, a citizen of the United States, residing at Stapleton, in the county of Richmond and State of New York, have invented a new and useful Keyless Street-Washer, of which the following is a specification.

The present invention appertains to what are known as street washers, such as are used out doors for the discharge of water from a water supply pipe buried in the ground.

It is the object of the invention to provide a novel and improved street washer, which does not require the use of a key for operating the same, to eliminate the difficulties attendant to the loss or misplacement of the key, and the device is of such construction as to be non-freezing in cold weather, the water being drained from a valve in the ground below the frost line.

Another object of the invention is the provision of a street washer embodying a novel assemblage of the component elements, whereby the structure is comparatively simple and inexpensive, as well as being strong and serviceable, the parts being readily assembled, and means being provided for limiting the movement of the turning parts for opening and closing the valve.

With the foregoing and other objects in view which will appear as the description proceeds, the invention resides in the combination and arrangement of parts and in the details of construction hereinafter described and claimed, it being understood that changes in the precise embodiment of the invention herein disclosed can be made within the scope of what is claimed without departing from the spirit of the invention.

The invention is illustrated in the accompanying drawing, wherein:—

Figure 1 is an elevation of one form of the device, portions being broken away and shown in section.

Figs. 2 and 3 are horizontal cross sections taken on the lines 2—2 and 3—3, respectively, of Fig. 1.

Fig. 4 is a fragmental elevation of another form of the invention.

Fig. 5 is a plan view of a further variation.

Fig. 6 is a section taken on the line 6—6 of Fig. 5.

In the drawing, the numeral 1 designates the water supply pipe which is buried in the ground at the desired depth, so as to be located below the frost line, a three-way drain valve 2 being attached to the end of the pipe 1 and having connected thereto the lower end of a pipe 3 extending upwardly above the surface of the ground, and acting as a stem for the valve to turn the water on and off. The upper end of the pipe 3 has a nozzle 4 extending to one side, which also serves as a handle for turning the valve, and to which a hose can be attached, or under which a bucket or other receptacle can be placed for catching the water delivered from said nozzle. When the handle-nozzle 4 is turned in one direction, the valve 2 is opened to permit the water to flow from the pipe 1 up through the pipe 3, and when the nozzle 4 is turned in the other direction, the valve 2 is closed, but a drain aperture of the valve casing is open to enable the water to drain from the pipe 3, thereby preventing the freezing of the water in said pipe 3.

A housing or enveloping structure is provided for the valve 2 and pipe 3, and the same includes a lower pot 5 having a vertical slot 6 in one side open at its upper end for receiving the pipe 1, when the pot 5 is moved upwardly under the valve to surround and support the same. The rim 7 of the pot is offset outwardly to provide a seat or shoulder 8 on which a two piece disk 9 is seatable, the disk as well as the pot being constructed of suitable metal. This disk 9 has a central aperture 9′ through which engages an upper shoulder or member 3′ of the valve 2, said shoulder or member being seatable upon the disk 9 to assist in supporting the parts in place, it being understood that dirt is filled in around the pot 5 to hold the same in place. The pot 5 has a drain aperture 5′ in its bottom to enable the water to drain off. The disk 9 has an upstanding collar or socket member 10 surrounding the aperture 9′, and said disk and collar are divided, as at 11, on a diametrical line, whereby the disk is in two sections, that can readily be placed within the pot 5 under the member 3′, so as to seat on the shoulder or ledge 8 with the straight edges of the sections abutting. One of the sections of the disk 9 has an outstanding lug 12 at its margin adapted to enter the slot 6, whereby to prevent the disk from turning after it is applied, the pipe 1 in extending through the slot 6 preventing the pot 5 from turning. The collar 10 is provided with an upwardly opening slot or notch 13.

The discharge pipe 3 is inclosed in a vertical tubular casing 14, which may consist of a piece of pipe of larger diameter than the pipe 3. The lower end of the tubular casing 14 is seated on the disk 9 and fits snugly within the collar 10, and if desired, a set screw 15 or other suitable element can be engaged with the lower terminal of the casing 14 to enter the slot or notch 13, whereby to prevent the turning of the casing 14, since the disk 9 cannot turn. The screw 15 can be readily applied to the casing 14 in order to hold said casing at the desired angle about the axis of the pipe 3. The casing 14 provides an angular air space surrounding the pipe 3 to protect said pipe.

An annular head 16 is secured upon the upper end of the casing 14, being provided with a depending boss 17 internally threaded to screw onto the upper threaded end of the casing 14. The boss 17 is of angular external cross section for the engagement of a wrench or other implement to screw the head onto the casing, and said head is provided above the boss with a beveled seat 18 in which a centering ring 19 is seatable, the margin or periphery of said ring being beveled to fit the seat. The ring 19 is divided on a diametrical line, as at 20, to provide two sections or pieces, which can be readily placed against opposite sides of the pipe 3 and dropped into the seat 18, thereby centering the pipe 3 and casing 14 relatively. The head 16 has a pair of upstanding stop lugs 21 between which the nozzle 4 is movable to limit the turning movement of said nozzle and pipe 3 when the valve is opened and closed. The construction shown in Fig. 1 is of the hydrant type, since the head 16 and nozzle 4 are spaced above the surface of the ground.

The modification shown in Fig. 4 depicts the head 16 flush with the surface of the ground or pavement. In this form, a T-fitting 4^a is threaded upon the upper end of the pipe 3 and a radial pipe section 4^b is attached to the arm or branch of said T-fitting, having its ends closed by a cap 4^c. A nipple 4^d is attached to the upper end of the fitting 4^a for the attachment of a hose. The handle provided by the pipe section 4^b can be readily turned for opening and closing the valve.

Figs. 5 and 6 illustrate a box 16^a for housing the handle 4^b and corresponding parts, the bottom of said box having a depending boss 17^a attached to the upper end of the casing 14 and having the beveled seat 18^a in which the split centering ring 19 is seated around the pipe 3. The box 16^a has drain apertures 17 to enable water to drain from said box, and the pipe 3 and corresponding parts are located at one corner of the box whereby the handle 4^b can be swung to an angle of about 90 degrees for opening and closing the valve. The box may be provided therein adjacent to two of its walls with stop lugs 21^a for the handle 4^b, and the box may be provided with a suitable cover 16^b.

Having thus described the invention, what is claimed as new is:

1. In a device of the character described, a pot adapted to inclose a valve and having a slot at one side extending to its upper edge for receiving a pipe, a member applicable to the pot over said valve and having an aperture for the upper portion of the valve, said member having means for supporting a tubular casing to surround a pipe extending upwardly from the valve.

2. In a device of the character described, a pot to inclose a valve having a slot at one side extending to its upper edge for receiving a pipe, and a disk seatable in said pot over said valve and having an aperture for the upper portion of the valve.

3. In a device of the character described, a pot to inclose a valve having a slot at one side extending to its upper edge for receiving a pipe, a disk seatable in said pot over said valve and having an aperture for the upper portion of the valve, said disk having an upstanding collar surrounding said aperture for the engagement of a tubular casing.

4. In a device of the character described, a pot to inclose a valve having a slot at one side extending to its upper edge for receiving a pipe, and a disk seatable in said pot over said valve and having an aperture for the upper portion of the valve, said disk being divided into sections.

5. In a device of the character described, a pot to inclose a valve having a slot at one side extending to its upper edge for receiving a pipe, a disk seatable in said pot over said valve and having an aperture for the upper portion of the valve, said disk having an upstanding collar surrounding said aperture for the engagement of a tubular casing, said disk and its collar being divided into sections.

6. In a device of the character described, a pot having a slot in one side for receiving a pipe extending to a valve in said pot, a disk seatable in said pot over said valve, the pot and disk having interengageable means for preventing the disk from turning in the pot, and a tubular casing seated on said disk to inclose a pipe extending upwardly from said valve, said disk having an aperture for the upper portion of the valve, and said disk and casing having interengageable means for preventing the casing from turning relative to the disk.

7. In a device of the character described, a pot having an upwardly opening slot at one side for receiving a pipe, and a disk seatable in the pot over a valve therein having an aperture for the upper portion of said

valve, said disk having a lug engageable in said slot to prevent the disk from turning in said pot, the disk having an upstanding collar for the engagement of a tubular casing, and said collar having a slot for receiving an element carried by said casing.

8. In a device of the character described, a pot having an upwardly opening slot at one side and a shoulder therein, a divided disk seatable on said shoulder and having an aperture, a lug to engage in said slot, and an upstanding collar surrounding said aperture, said collar having a slot, and a tubular casing engageable with said collar and having an element to enter the second mentioned slot.

9. In a device of the character described, a head attached to the upper end of a tubular casing and having stops and a seat, and a divided ring seatable in said seat for centering a pipe.

10. In a device of the character described, an annular head having a depending boss adapted to be engaged upon the upper end of a tubular casing, said head having upstanding stops and a beveled seat, and a divided ring having a beveled periphery seatable in said seat for centering a pipe in said casing.

11. In a device of the character described, a pot having an upwardly opening slot at one side, a divided disk seatable in said pot over a valve therein and having an aperture for the upper portion of said valve, a tubular casing to surround said pipe having its lower end engaged with and supported by said disk, a head attached upon the upper end of said casing, and means carried by said head for centering said pipe in the casing.

In testimony that I claim the foregoing as my own, I have hereto affixed my signature in the presence of two witnesses.

WILLIAM VOLKHARDT.

Witnesses:
A. E. HILLYER,
GEORGE I. WRIGHT.

Copies of this patent may be obtained for five cents each, by addressing the "Commissioner of Patents, Washington, D. C."