

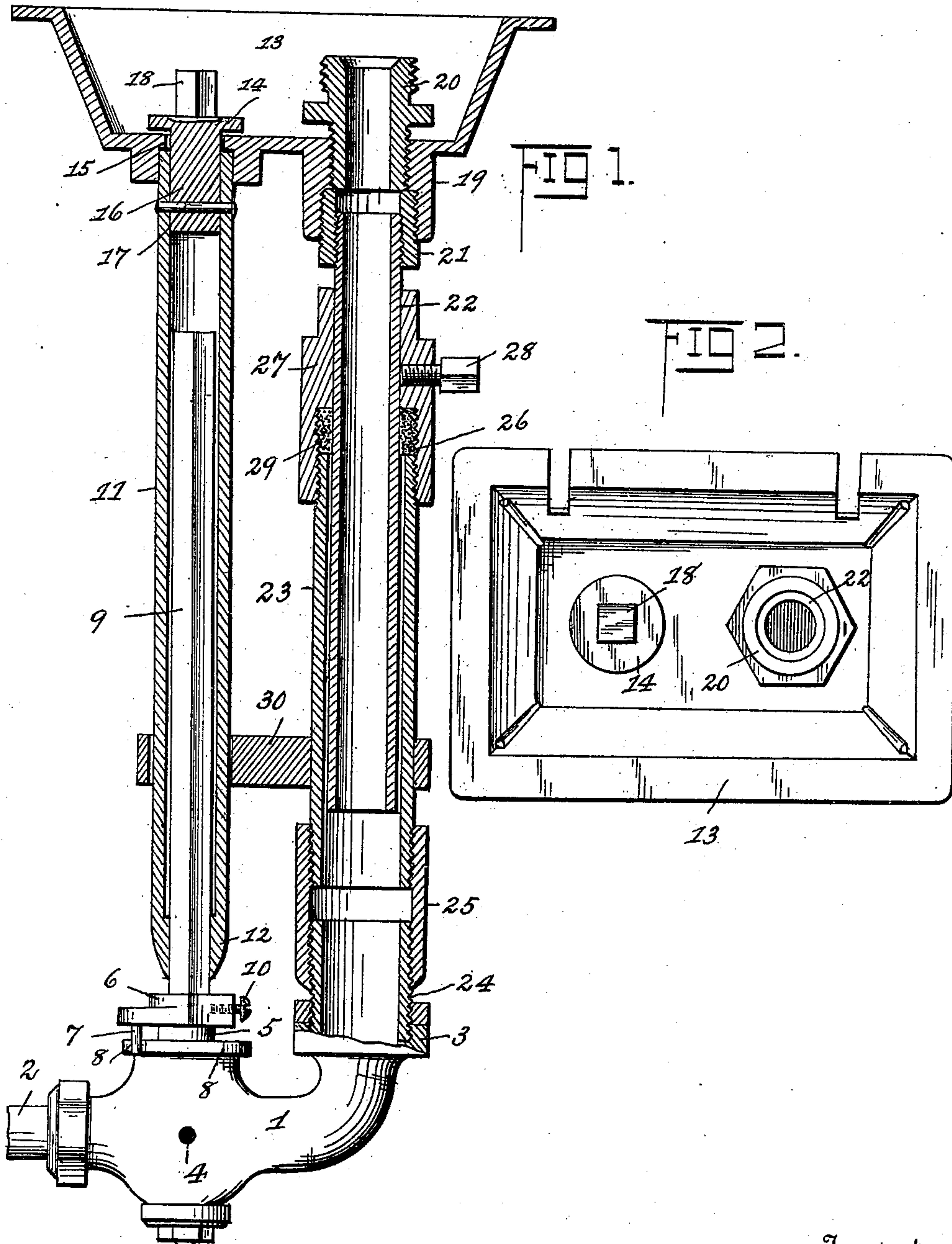
No. 618,753.

Patented Jan. 31, 1899.

L. I. WARD & E. B. NELSON.
STREET WASHER AND HYDRANT.

(Application filed Feb. 21, 1898.)

(No Model.)



Witnesses:

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UNITED STATES PATENT OFFICE.

LEWIS I. WARD AND EDWARD B. NELSON, OF CADIZ, OHIO.

STREET WASHER AND HYDRANT.

SPECIFICATION forming part of Letters Patent No. 618,753, dated January 31, 1899.

Application filed February 21, 1898. Serial No. 671,130. (No model.)

To all whom it may concern:

Be it known that we, LEWIS I. WARD and EDWARD B. NELSON, citizens of the United States, residing at Cadiz, in the county of Harrison and State of Ohio, have invented certain new and useful Improvements in Street Washers and Hydrants; and we do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

Our invention relates to improvements in street washers and hydrants; and its object is to provide a telescoping, antifreezing, and quick-operating device of this kind which may be adjusted to suit trenches of different depths.

To this end the invention consists in certain novel features of construction, combination, and arrangement of parts, as will be hereinafter more fully described, and particularly pointed out in the appended claims.

In the accompanying drawings the same reference characters indicate the same parts of the invention.

Figure 1 is a vertical section of our improved adjustable street washer or hydrant, and Fig. 2 is a top plan view of same.

Referring now more particularly to the drawings, 1 represents the stop-cock, connected to the service-pipe 2 and provided with the outlet 3, to which the discharge-pipe is connected, as hereinafter described, and 4 represents the drip-orifice in the cock, which allows the water standing in the discharge-pipe to escape, thereby preventing freezing when the stop-cock is turned off.

The valve 5 of the stop-cock is provided with an integral collar or key 6, having a depending pin 7, which engages the quadrantal shoulders 8 on the stop-cock to limit the movement of said valve to one-quarter of a revolution, thereby facilitating the operation of turning on and shutting off the flow of water.

9 represents a square wrench-rod having its lower end fitted into the collar and secured thereto by a set-screw 10, and 11 represents a pipe encompassing the rod and provided with a contracted lower end 12, having a square orifice to permit it to slide freely on the rod. The upper end of this pipe is jour-

naled in the depressed bottom of the street-box 13, which is provided with a removable cover. (Not shown.)

14 represents a plug or cap projecting through an orifice 15 in the bottom of said box and provided with a shank 16, fitted in the upper end of the pipe 11 and rigidly secured thereto by a transverse pin 17. The upper end of this plug-cap terminates in an integral square head 18, which receives the usual hand-wrench for manipulating the stop-cock.

19 represents an internally-threaded socket formed integrally with the bottom of the street-box, and 20 an externally-threaded nipple screwed therein. The upper end of this nipple is adapted to receive the usual hose connection. Into the lower end of said socket is fitted a threaded collar 21, which receives the upper end of the upper discharge-pipe section 22, and the lower end of this pipe is fitted to slide telescope fashion in the pipe-section 23. The lower end of the pipe 23 is coupled to a short discharge-pipe section 24, threaded into the stop-cock outlet-passage 3, by means of a coupling-collar 25, and the upper threaded end of said pipe 23 is secured in the threaded socket 26 of a sleeve 27, adjustably connected with the pipe-section 22 by a set-screw 28. A suitable packing 29 in the socket 26 forms a water-tight joint between the two pipes 22 23.

The pipes 11 23 are connected and maintained in parallelism by a guide clamp or brace 30, which is rigidly secured by a set-screw (not shown) to the said pipe 23 and forms a guide for the key-operating pipe 11.

From the above description, taken in connection with the accompanying drawings, the construction and mode of operation of the invention will be understood. It will be seen that by means of a single set-screw 28 the street-washer may be adjusted to suit any reasonable depth of tank, a very valuable feature over the ordinary forms, which are put on the market in set or fixed lengths. Ordinarily the device is made to suit trenches from three to five feet in depth.

It will be understood, of course, that while we have shown our invention in the present instance as adapted for use as a street-washer

the principles of the same are applicable to fire-plugs, hydrants for supplying water for drinking and domestic purposes, and the like.

We do not therefore wish to be confined to the specific construction shown and described, but reserve to ourselves the right to make such changes and modifications as fairly fall within the scope of our invention.

Having thus fully described our invention, what we claim as new and useful, and desire to secure by Letters Patent, is—

1. In a device of the character described, the combination of a street box or casing, a stop-cock, a wrench-rod connected with the valve of the cock, a pipe fitted to slide on the rod and journaled at its upper end in the box or casing and provided with a head for application of a wrench, said pipe being connected to oscillate with and turn the rod to operate the valve, and a telescopic discharge-pipe connecting the box or casing and outlet-passage of the cock, said pipe being provided with a coupling-sleeve to hold the sections

thereof adjustably connected, substantially as described.

2. In a street-washer, the combination of a stop-cock provided with a drain-orifice and a valve having a collar carrying a stop-pin to limit the movement of the valve, a street-box, a wrench-rod secured at its lower end to said collar, a pipe encompassing the rod and journaled at its upper end in the box, a telescopic discharge-pipe communicating between the box and outlet-passage of the cock, and a sleeve having a socket to receive one end of one of the pipe-sections, packing in said socket, and a set-screw to engage the other section, substantially as described.

In testimony whereof we affix our signatures in presence of two witnesses.

LEWIS I. WARD.

EDWARD B. NELSON.

Witnesses:

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