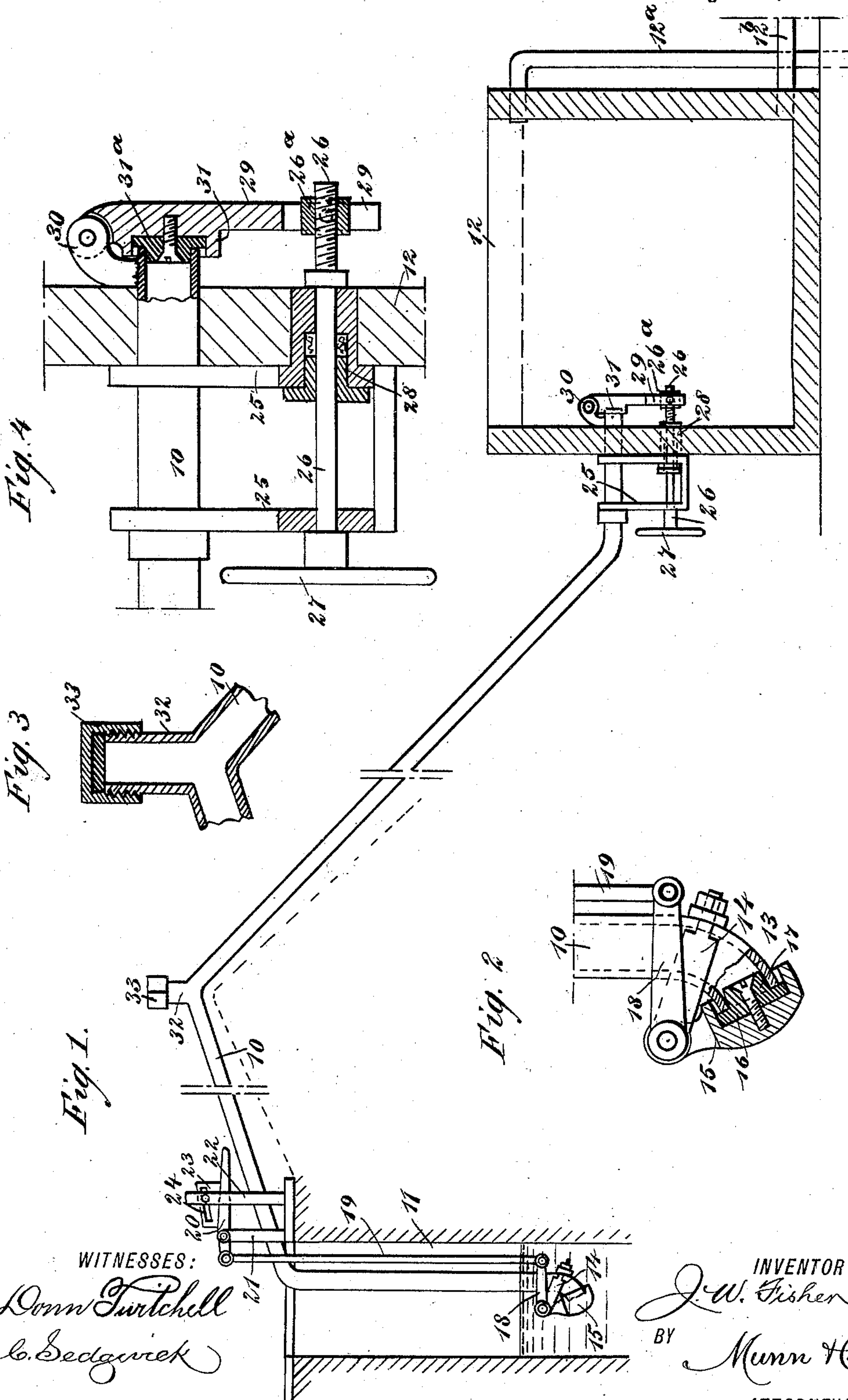


(No Model.)

J. W. FISHER.  
WATER SUPPLY SYSTEM.

No. 476,043.

Patented May 31, 1892.



WITNESSES:  
*Donn Twitchell*  
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# UNITED STATES PATENT OFFICE.

JAMES W. FISHER, OF PALOUSE, WASHINGTON, ASSIGNOR OF ONE-HALF TO  
FRANKLIN C. McLAM, OF SAME PLACE.

## WATER-SUPPLY SYSTEM.

SPECIFICATION forming part of Letters Patent No. 476,043, dated May 31, 1892.

Application filed September 2, 1891. Serial No. 404,522. (No model.)

*To all whom it may concern:*

Be it known that I, JAMES W. FISHER, of Palouse, in the county of Whitman and State of Washington, have invented a new and Improved Water-Supply System, of which the following is a full, clear, and exact description.

My invention relates to improvements in water-supply systems in which the water is drawn from the fountain-head and supplied to a reservoir through a siphon-pipe; and the object of my invention is to provide a convenient means of closing either or both ends of the siphon-pipe and of filling the pipe.

To this end my invention consists in certain features of construction and combinations of parts, which will be hereinafter described and claimed.

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

Figure 1 is a broken elevation, partly in section, of the entire system. Fig. 2 is an enlarged detail view, partly in section, of the mechanism for closing the upper end of the siphon-pipe. Fig. 3 is a broken detail sectional view of the branch pipe and cap which provide for the filling of the siphon-pipe, and Fig. 4 is an enlarged detail sectional view of the mechanism for closing the lower end of the siphon-pipe.

The main supply or siphon pipe 10 leads from a fountain-head 11 to a reservoir 12, which reservoir is preferably arranged so that when full the water therein will be about level with the water in the fountain-head, and this reservoir is provided with the usual overflow and drain pipes 12<sup>a</sup> and 12<sup>b</sup>. The end of the siphon-pipe which enters the fountain-head is bent slightly, as shown at 13, and this end portion is clamped by a bracket 14, which projects somewhat from the side of the pipe, and a swinging cap 15 is pivoted in the bracket and is adapted to close over the bent end of the pipe. This cap is provided with a suitable packing 16, which is preferably of rubber and which has a reduced central portion 17, adapted to enter the bent end of the pipe 10 and make a water-tight joint. The cap 15 is swung by means of a crank 18, connected therewith, and the free end of this crank is

pivoted to a rod 19, which extends upward above the fountain-head 11 and connects with a horizontal lever 20, pivoted in an upright 21 and extending through a post 22, which is split at its upper end so as to receive the lever, and the post carries an adjustable wedge 23, having a slot 24 therein to receive a pin to hold it in place. This wedge when placed above the lever holds the lever down and the cap 15 against the end of the pipe 10, and when the wedge is placed beneath the lever it holds the cap 15 in position to open the pipe.

A U-shaped frame 25 is secured to the outer wall of the reservoir 12 and partially supports the pipe 10, and this frame has mounted in its lower portion a screw 26, which is operated by a hand-wheel 27 and extends inward through a packing-box 28 into the reservoir, where it connects with a threaded nut 26<sup>a</sup> in the front end of a swinging lid 29, which lid is hinged to a bracket 30 above the open end of the pipe 10, and the lid has a seat 31 thereon adapted to close over the end of the pipe and provided with a suitable packing-piece 31<sup>a</sup> to fit and tightly close the pipe. It will thus be seen that by turning the hand-wheel 27 the screw 26 may be operated and the lid 29 pushed out or in, so as to open or close the pipe 10.

At its highest point the pipe 10 is provided with a branch pipe 32, which opens from the top of the pipe 10 and which is closed by a removable cap 33. When the pipe 10 is to be filled, which must be done before the water will run from the fountain-head to the reservoir, the lever 20 is operated so as to close the cap 15 upon the bent end 13 of the pipe 10, the hand-wheel 27 is turned so as to close the lower end of the pipe 10, the cap 33 is removed, and the pipe may then be easily filled, after which the cap 33 is replaced and the ends of the pipe opened.

From the foregoing description it will be seen that either or both ends of the pipe 10 may be conveniently and securely closed and that the pipe 10 may be consequently very easily filled.

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

1. In a water-supply system, a siphon-pipe,

a swinging cap on one end of the pipe, a lever connected with the cap for opening and closing it, a pivoted cap on the other end of the pipe, and a screw connected with the cap for opening and closing it, substantially as described.

2. The combination, with a siphon-pipe having a bent end, of a bracket secured to the pipe adjacent to said end, a swinging cap pivoted to the bracket and adapted to close over the end, a hand-lever connected with the cap, so as to operate the same, and means for locking the lever, substantially as described.

3. The combination, with the reservoir and the siphon-pipe arranged to extend through a wall of the reservoir, of a swinging lid pivoted within the reservoir and having a seat thereon which closes the pipe end, a frame secured to the outer wall of the reservoir, and a screw mounted in the frame and reservoir-wall and adapted to operate the swinging lid, substantially as described.

JAMES W. FISHER.

Witnesses:

J. W. PICKRELL,  
GEO. N. MATZGER.