V. KINGWELL.
Garden-Valve.

No. 198,121. Patented Dec. 11, 1877

Fig. 1.

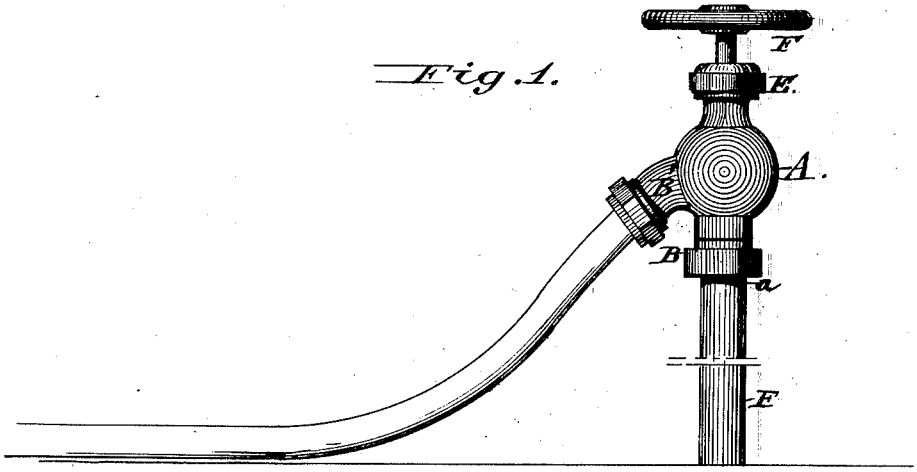
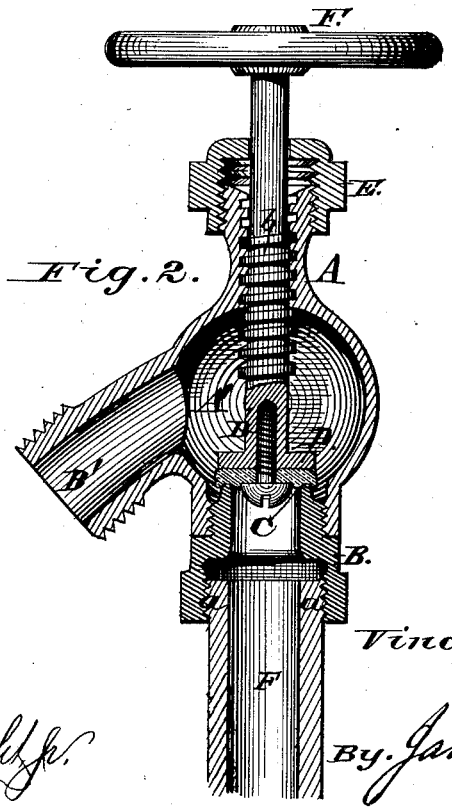


Fig. 2.



Attest:
H. C. Perrine
James M. Wright Jr.

Vincent Kingwell.
Inventor.

By. James L. Norris.
Atty.

UNITED STATES PATENT OFFICE.

VINCENT KINGWELL, OF SAN FRANCISCO, CALIFORNIA.

IMPROVEMENT IN GARDEN-VALVES.

Specification forming part of Letters Patent No. **198,121**, dated December 11, 1877; application filed November 26, 1877.

To all whom it may concern:

Be it known that I, VINCENT KINGWELL, of the city of San Francisco, State of California, have invented certain Improvements in Garden-Valves, of which the following is a specification:

This invention relates to that class of valves known as "garden-valves," which occupy a vertical position, and are provided with an escape-pipe at one side, having means for the attachment of a hose for the discharge of the water.

As heretofore constructed such valves have proved objectionable, owing to the fact that said escape-pipe has generally been constructed at right angles to the shell or main part of the valve, and extends therefrom in a horizontal direction, causing a sharp bend in the hose at the point of attachment, rendering the hose liable to break after but little use at said point.

The valve as heretofore constructed has also proved objectionable on account of the liability of the water to collect above the valve, in the valve-chamber, and become frozen in cold weather.

The object of my invention is to obviate these objections; and to this end it consists in constructing the valve-chamber with a discharge-spout projecting downwardly at an acute angle to the vertical axis of the valve-chamber, and in such relation thereto and to the valve-plug that the hose, when attached, will sag or fall, without the usual bend at the point of attachment, and the water above the valve-plug will mostly escape through said discharge-spout after the valve is closed.

In the drawings, Figure 1 represents an elevation of my improved valve, and Fig. 2 a vertical section thereof.

The letter A represents the shell of the valve, and B′ the discharge-spout, cast with said shell, and projecting downwardly at an acute angle from the spherical portion of the shell. The letter C represents the valve-seat, which is formed on the upper end of a section, B, provided with a male screw on its upper end, by which it is secured to the shell A, and with a female screw, *a*, at the lower end, by means of which it is secured to the service-pipe F. The letter D represents the valve-plug, formed on the end of the valve-stem D′, and faced with suitable packing material, secured thereto by means of a screw or otherwise. The valve-stem is provided with a male screw, *b*, at its upper part, which works in a female screw in the interior of the upper part of the shell A, to advance or withdraw the valve-plug to or from its seat. The valve-stem D′ extends through a screw-nut, E, secured to the upper part of the shell A, and is provided at its upper extremity with a hand-wheel, F′, by means of which it may be turned to operate the valve.

It will be observed that the spout of the valve, constructed as above described, is in a position to coincide with the natural sag or drop of the hose when attached to the said spout, allowing the said hose to fall to the ground without the usual abrupt bend at the point of attachment, thus preventing the tendency to breakage or injury at such point, and, moreover, the position of said spout, with respect to the shell, permits nearly all the water to flow off from above the valve-plug after the same is closed on its seat, thus obviating all disadvantages occasioned by freezing in cold weather.

What I claim, and desire to secure by Letters Patent, is—

The valve-shell A, provided with a downwardly-projecting discharge-spout, in combination with the valve-seat C formed on the end of the section B, and the screw-threaded valve-stem D′ and its plug D, substantially as described.

VINCENT KINGWELL.

Witnesses:

N. SEIBERT,

GEORGE NOLAN.