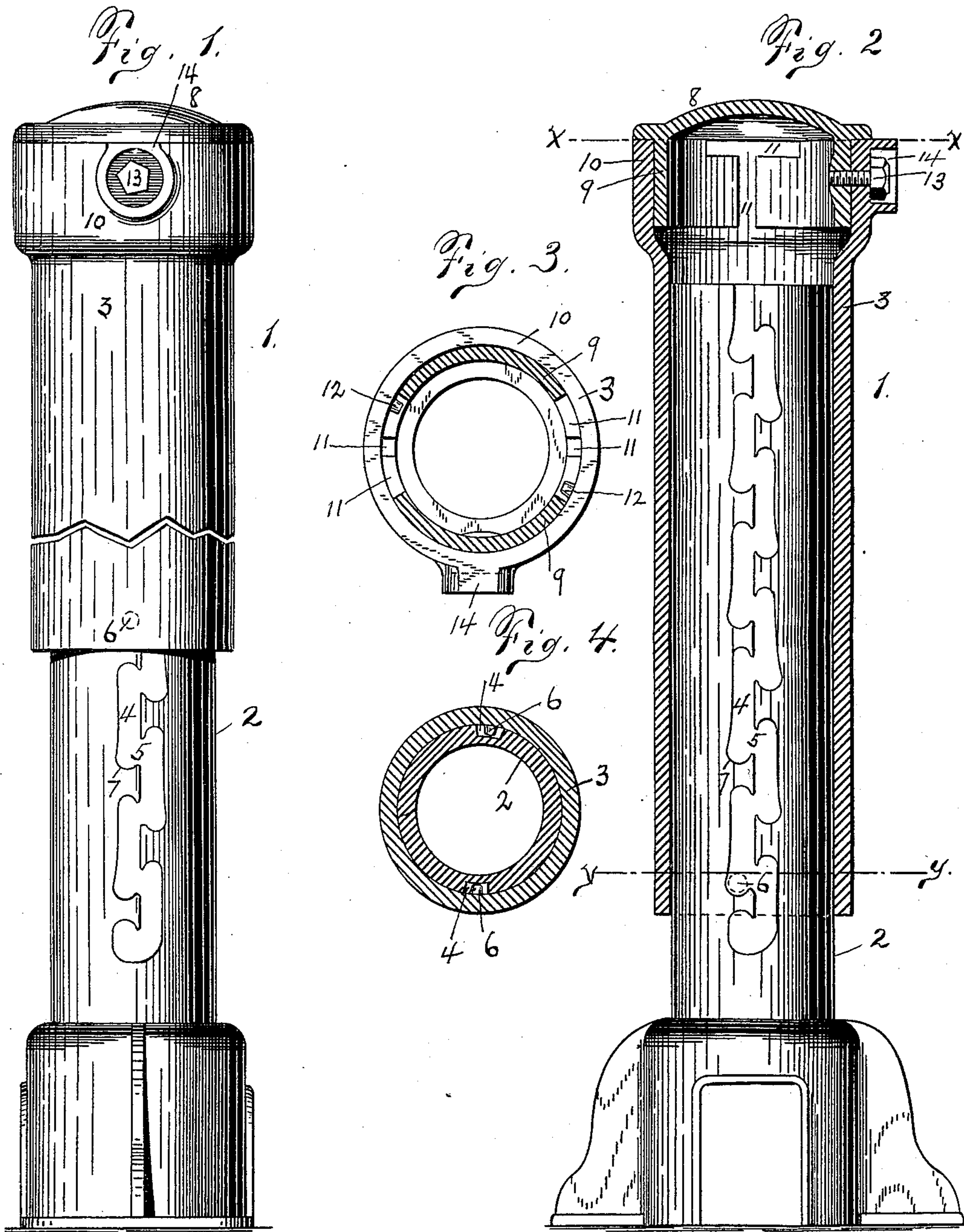


(No Model.)

J. M. HURLEY.
SERVICE BOX FOR WATER OR GAS PIPES.

No. 479,909.

Patented Aug. 2, 1892.



Witnesses:
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UNITED STATES PATENT OFFICE.

JOSEPH M. HURLEY, OF BUFFALO, NEW YORK.

SERVICE-BOX FOR WATER OR GAS PIPES.

SPECIFICATION forming part of Letters Patent No. 479,909, dated August 2, 1892.

Application filed February 8, 1892. Serial No. 420,685. (No model.)

To all whom it may concern:

Be it known that I, JOSEPH M. HURLEY, a citizen of the United States, residing at Buffalo, in the county of Erie and State of New York, have invented certain new and useful Improvements in Service-Boxes; and I 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to improvements in service-boxes for water and gas pipes, and more particularly to that class of service-boxes in which provision is made for the extension of the box, so as to permit it to automatically rise and fall with the surface of the earth, which when subjected to a severe frost has a level of considerable variance. The object of my invention is to accomplish this feature in a simple and inexpensive way.

It consists of two pipes telescoping one over the other, the inner pipe having its lower end enlarged to fit over the service-pipe and its side surface having grooved ways for the reception of short lugs or pins secured to the outer pipe.

It further consists in other details of its construction, all of which I will now proceed to definitely describe and claim.

In the drawings, Figure 1 is a partial vertical section of my improved service-box. Fig. 2 is an elevation of the same. Fig. 3 is a horizontal section taken through the line *x x* of Fig. 1, and Fig. 4 is a horizontal section taken through the line *y y* of Fig. 1.

Referring to the drawings, 1 is the service-box, consisting of the inner pipe 2 and outer pipe 3. On either side of the pipe 2 and directly opposite to each other are arranged the grooved ways 4. These grooved ways 4 consist of a series of small grooves so arranged (as shown in the drawings) as to connect them with each other, forming a continuous groove 5 on each side of the pipe 2. To the pipe 3, which is fitted over the pipe 2, are cast (at or near its lower end) the small lugs or projections 6. These lugs or projections 6 are arranged to travel within the

grooves 5 and serve to hold the outer pipe in place, the lugs resting in the lower ends of two of the smaller grooves 4. These grooves 4 are enlarged at their lower ends, as at 7, so as to prevent the parts from binding as the lugs travel from one groove to the other.

The cover of my improved service-box consists of the cap 8, having the sleeve 9, which is fitted into the enlarged portion 10 of the pipe 3. Arranged within the sleeve 9 of the cap 8 are the vertical and horizontal grooved ways 11 for the reception of the lugs 12, which are cast with the pipe 3, as shown in Figs. 1 and 3.

Through the side of the pipe 3 and at its upper end is threaded the bolt 13, which passes through the sleeve 9 of the cap 8, the head of the bolt resting within the collar 14. This bolt is employed to lock the parts together after they have been properly adjusted.

In operation when it is desired to place one of my improved service-boxes over a service-pipe the inner pipe 2 is placed over the service-pipe and the outer pipe 3 is fitted over the pipe 2, its lugs passing down the grooved ways 4, and upon reaching their lower ends the manipulator has but to turn the pipe 3 sufficiently to have the lugs pass to the next grooves, and so on, turning the pipe in alternate directions as the lugs reach the lower ends of the grooves 4, until the cap 8 is on a level with the surface of the earth and the lugs rest in the lower ends of two of the grooves 4. The cover is adjusted, as seen in Fig. 1, by passing the sleeve 9 into the pipe 3, so as to have the lugs 12 travel in the grooves 11, and then turning the cap 8 so as to bring the lugs into the position shown in Fig. 1. The parts are then bolted together by the bolt 13, which is threaded through the pipe 3 and sleeve 9.

I claim—

1. A service-box consisting of a pipe having grooved ways on its outer surface for the reception of lugs upon a second pipe, which is adjustable over the same, the grooved ways being arranged in two vertical series, the grooves of one series overlapping those of the other series and connected with each other at the overlapping portions, and the lower overlapped portion of each alternate groove form-

ing a rest or socket for the engaging lug, substantially as and for the purpose stated.

2. In a service-box, the combination of the inner pipe 2, having the grooved ways 4, connected to each other and forming the grooves 5, and the outer pipe 3, having the lugs 6 at or near its inner lower end, said lugs being adapted to travel within the grooves 4, and the cap 8, having the sleeve 9, in which are cut the grooved ways 11 for the reception of the

s 12, the cap 8 being bolted to the pipe 3 the horizontal bolt 13, substantially as shown and described.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

JOSEPH M. HURLEY.

Witnesses:

OTTO E. HODDICK,

CHAS. M. HARRINGTON.