(No Model.)

E. DOUGLAS.

TELESCOPIC STOP COCK FOR WATER SERVICE.

No. 386,115. Patented July 17, 1888.

Fig. 1.

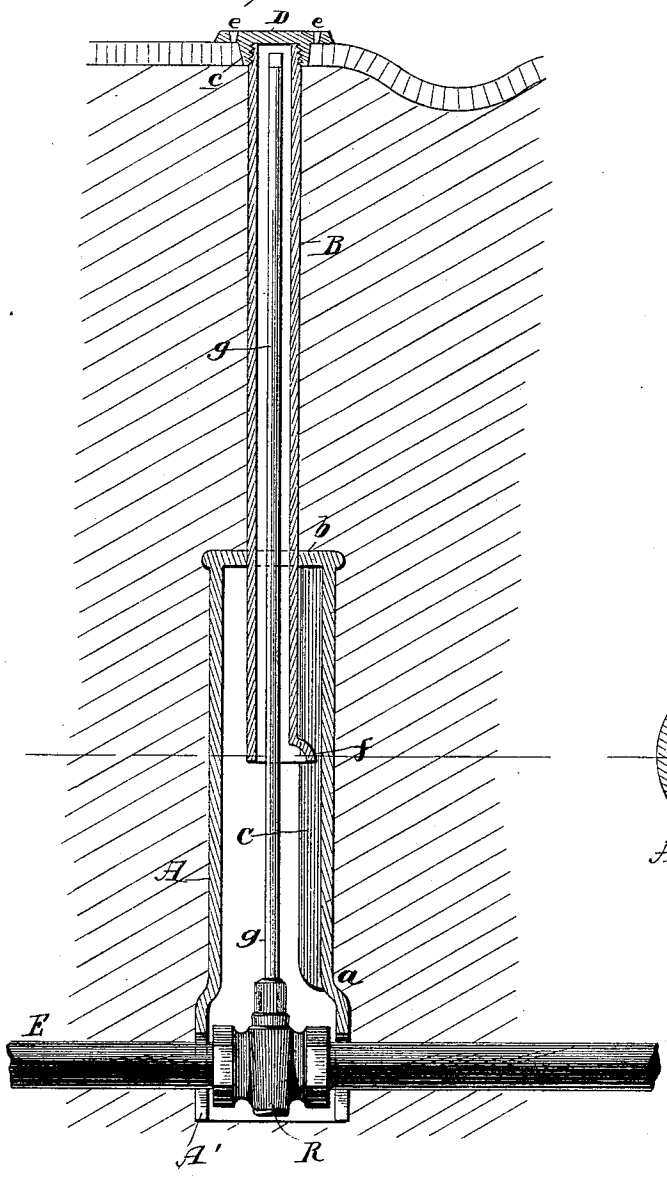
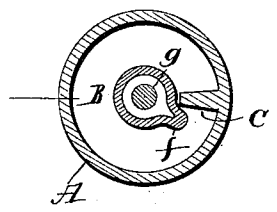


Fig. 2.



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UNITED STATES PATENT OFFICE.

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TELESCOPIC STOP-COCK FOR WATER-SERVICE.

SPECIFICATION forming part of Letters Patent No. 386,115, dated July 17, 1888.

Application filed March 16, 1888. Serial No. 267,392. (No model.)

To all whom it may concern:

Be it known that I, EDWARD DOUGLAS, of Middletown, in the county of Middlesex and State of Connecticut, have invented certain new and useful Improvements in Telescopic Stop-Cocks for Water-Service; 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.

My invention relates to an improvement in adjustable stop-cock boxes for water and gas service.

One object in view is to provide a simple and inexpensive stop-cock box which will admit of lengthwise adjustment to suit different depths of location of a gas or water service pipe to protect the vertical stop-cock key-rod.

A further object is to construct a telescopic metal stop-cock box for the protection of the operating rod of a stop-cock which will admit of an extension lengthwise within its range, and that by its form of construction will allow a flat cap to be attached by its screw-threaded boss to the top end of the stop-box and be disconnected at will.

With these ends in view my invention consists in certain features of construction and combinations of parts, that will be more fully described in the specification, and pointed out in the claims.

Referring to the drawings, Figure 1 is a side elevation in section of the complete box. Fig. 2 is a cross-section of the two portions of the telescopic box, taken on the line *x x*, Fig. 1.

In adjustable stop-boxes employed to cover and protect the key-rod of a water or gas stop-cock, which controls the flow of these fluids from a street main into a building, it is necessary that provision be made to attach a cap to the top of the tubular box to prevent dirt from entering it, and also an improper tampering with the key-rod, which is the evident function of the box. Various means have been devised to accomplish the sure but removable attachment of a stop-box cover to a telescopic stop-box, the most simple and reliable being a cap-plate provided with a screw-threaded boss or integral ferrule, which is made to depend from the lower side of the cap-plate to engage the threaded top end of a movable section of the telescopic stop-box.

It is evident that there must be a means provided to lock the upper section of the stop-box from rotation while it is allowed to slide, and to accomplish this in a simple and effectual manner is the chief feature of my present invention. I will now proceed to explain the means by which I effect this desideratum.

A represents the lower section of a telescopic stop-cock box. It consists of a cylindrical metal chamber of proper length, the lower portion, A′, of which is made a proper diameter to provide a receptacle for the stop-cock R of the service-pipe, and its lower edge is notched out on opposite sides to allow it to set over the horizontally-extended service-pipe, and by engagement of these notches with the body of the pipe the lower section of the stop-box is prevented from turning around.

From the upper edge, *a*, of the enlarged portion A′, which is located immediately above a service stop-cock, as just stated, the hollow body of the lower section, A, of the stop-cock box is contracted in diameter, and from this point is made cylindrical to its upper end.

At the upper extremity of the lower section, A, of the stop-cock box an inwardly-projecting flange, *b*, is formed integral with the shell of the hollow column, the central orifice thus afforded is adapted to receive a sliding tube, B, which is preferably made of wrought-iron.

Within the lower section, A, of the stop-cock box a longitudinal rib or projecting flange, C, is formed, which extends from the point *a* to the integral flange *b*, and its outer edge coincides with the peripheral free edge of this flange *b*.

The upper end of the tubular upper section, B, is cut with a thread to fit the threaded depending ferrule *c* of the flat cap-plate D, this plate being provided with two holes, *e*, which are intended to accommodate the prongs of a forked wrench used to detach the cap-plate or screw it into place. The material of the lower end of the tube-section B is bent outward on one side by a proper tool to produce an ear or lug, *f*, which is of such a compara-

tive length to the diameter of the hollow lower section, A, that it will not prevent the tube-section B from sliding vertically, and yet will abut against the rib C, which will thus prevent the complete rotation of the upper section, B, at any point of its sliding engagement with this rib.

In placing a stop-cock box that is constructed as hereinbefore described, the location of which is generally near the curb of a street pavement, the lower end of the section A is placed so that its notched edge will straddle the service-pipe on each side of a stop-cock, R, as shown in Fig. 2.

A key-rod, *g*, of the stop-cock R is vertically extended toward the surface of the ground, it being made of proper length to reach nearly to the surface of the pavement, said key-rod being located in the stop-cock box, as shown in Fig. 1.

The upper section, B, of the box is now adjusted for vertical height to suit the depth from the pavement surface to the service-pipe E, so that the cap-plate D will lie flat upon the pavement when the device is properly adjusted.

It is evident that when the box is in the proper position just mentioned, the ground filled in, and the pavement relaid, the key-rod of the stop cock R will have its upper end conveniently located just below the cap-plate D, so that when this plate is unscrewed the key-rod *g* may be turned to open or close the cock or adjust it at any desired point between to regulate the flow of water or gas into the dwelling or other building.

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

1. In a stop-cock box for water and gas pipes, the combination, with a lower section having a single longitudinal rib therein and provided at its upper end with an opening, of an upper smaller section adapted to slide within the lower section and provided at its lower end with a single projection adapted to engage either face of the rib, substantially as set forth.

2. In a stop-cock box for water and gas pipes, the combination, with a lower section having a longitudinal rib therein and provided at its upper end with a central opening, of the upper section, considerably smaller than the lower section, and fitting the opening in the top of said lower section, thereby forming a continuous flange or shoulder at the junction of the two sections, the said upper section being provided at its lower end with a lug or projection adapted to engage either face of the longitudinal rib of the lower section, and a screw-cap having a depending screw-threaded flange adapted to engage the upper screw-threaded end of the upper section, substantially as set forth.

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

EDWARD DOUGLAS.

Witnesses:
JNO. M. DOUGLAS,
FRED E. GIBBONS.