(No Model.) 2 Sheets—Sheet 1.

E. LINDSLEY.

CASING FOR STREET COCKS IN GAS AND WATER SERVICE.

No. 327,561. Patented Oct. 6, 1885.

Fig. 1.

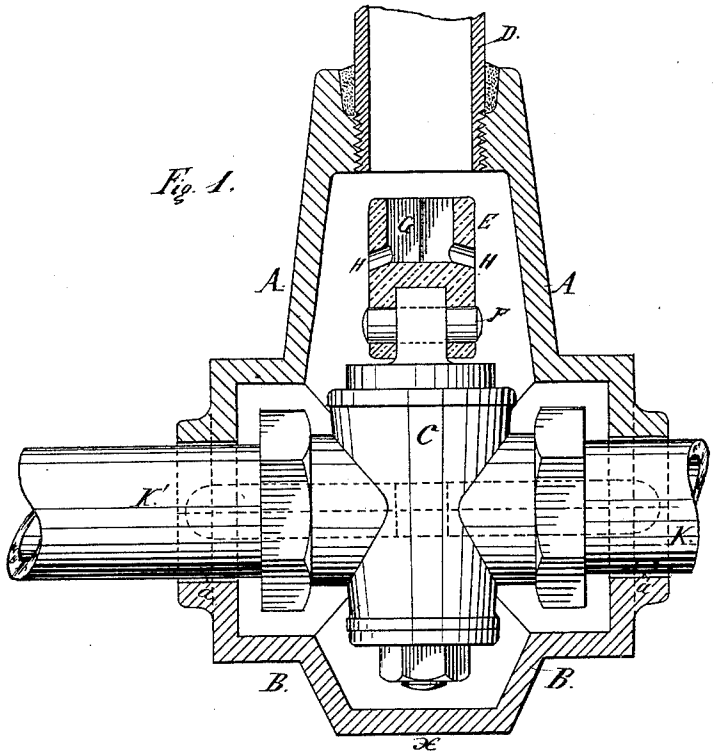


Fig. 3.

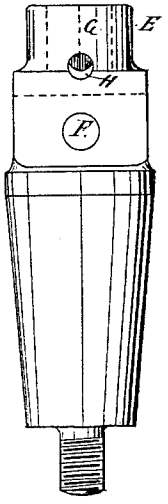
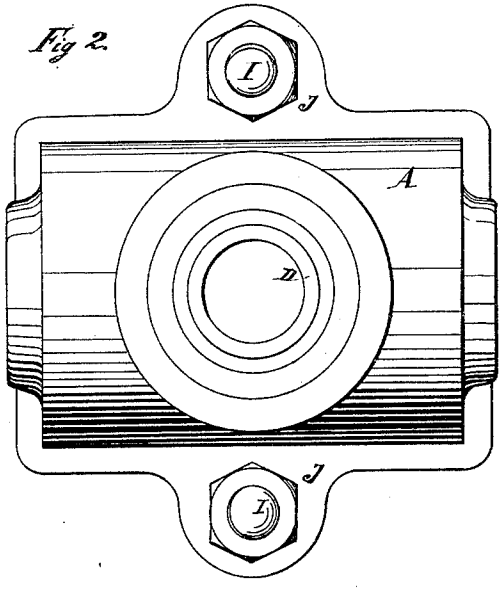


Fig 2.



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(No Model.) 2 Sheets—Sheet 2.

E. LINDSLEY.

CASING FOR STREET COCKS IN GAS AND WATER SERVICE.

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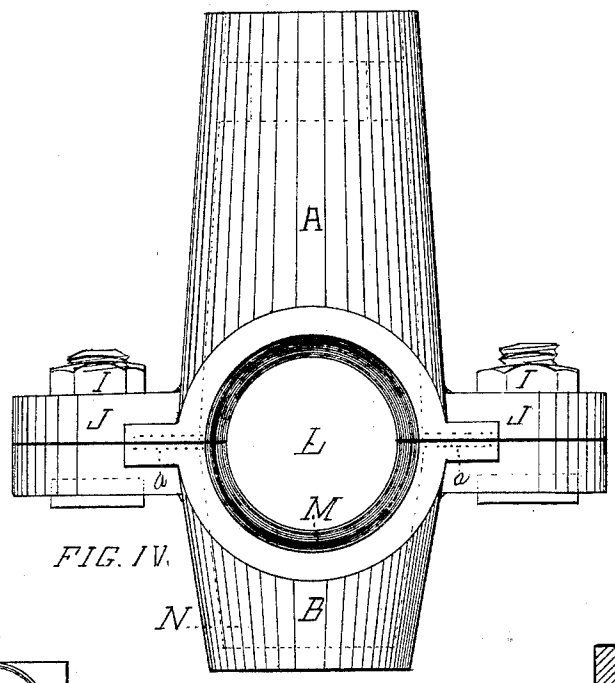


FIG. IV.

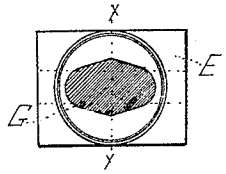


FIG. VI.

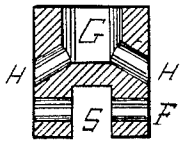


FIG. VII.

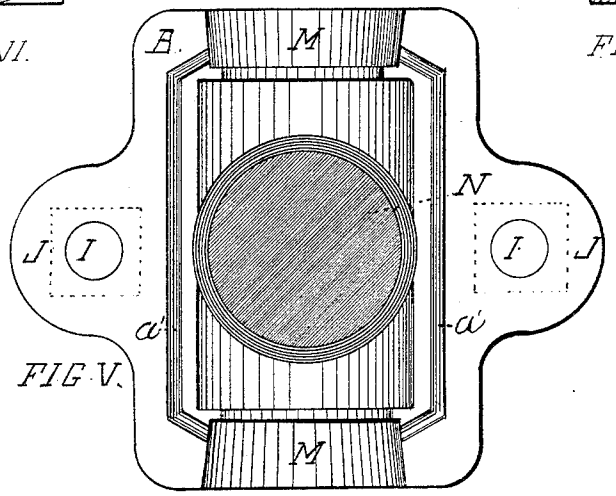


FIG. V.

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UNITED STATES PATENT OFFICE.

EDWARD LINDSLEY, OF CLEVELAND, OHIO.

CASING FOR STREET-COCKS IN GAS AND WATER SERVICE.

SPECIFICATION forming part of Letters Patent No. 327,561, dated October 6, 1885.

Application filed December 17, 1883. Serial No. 114,823. (No model.)

To all whom it may concern:

Be it known that I, EDWARD LINDSLEY, of Cleveland, county of Cuyahoga, and State of Ohio, have invented a new and Improved Casing for Street-Cocks in Gas and Water Service; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being made to the accompanying drawings, and to letters of reference marked thereon.

My invention relates to certain new and useful improvements in casings for inclosing the valves in the pipe which connects street gas and water mains and house-service pipes, and also to novel means combined with such casing whereby the key which operates the valve at this point may be directed to its seat, in order to effect the opening or closing of the valve with greater ease than has heretofore been possible.

The object of the invention is to produce a casing which shall be capable of being applied both to pipes already laid and new pipes, to be arranged in such a manner as to protect the joint from coming in contact with the damp earth, and also to exclude water and prevent its coming in contact with the joined pipes. Further, the object of the invention is to produce a casing of such form that it will serve in combination with an improved key-seat to form an effective means of guiding the key by which the water or gas is turned on or off into a position to accomplish this turning.

With these objects in view my invention consists in a casing made in two sections—upper and lower—of such form as to inclose the valve between the street pipe and house-supply pipe, the said casing being provided with a tube extending upward therefrom, through which the key for operating the valve is introduced; and, further, in a key-seat of novel construction combined with said casing and tube, all as will be hereinafter fully set forth.

In order that those skilled in the art to which my invention relates may understand the construction and appreciate the advantages of the invention, I will now proceed to describe the same in connection with the accompanying drawings, in which—

Figure 1 is a central vertical section of the casing and key-seat, the pipe-joint being shown in full lines. Fig. 2 is a plan view of the casing. Fig. 3 is a detail view showing the valve-plug and the key-seat. Fig. 4 is an end elevation of the inclosing-casing. Fig. 5 is a plan view of the lower section of the casing. Fig. 6 is a plan view of the key-seat, and Fig. 7 is a vertical section of the said seat.

In these drawings, the letters A B represent, respectively, the upper and lower sections of the inclosing-casing. The upper portion, A, is composed of the shell formed upon its lower edges with semicircular openings, which, in connection with similar openings in the lower section, form circular openings for the admission of the pipe to which the casing is applied, and is also provided with the wings J, which are adapted to be bolted to corresponding wings on the lower section in order to be bound securely thereto. The upper portion A, of the casing is composed of the hollow conical upward extension, the opening in which comes directly over the valve when the parts are in the place they are designed to assume in use; and this conical portion is internally screw-threaded near its upper end, thus adapting it for the attachment of the tube D. This tube D is preferably a piece of ordinary gas-pipe, of a length to extend from the top of the casing, where it is secured by being screwed into the opening provided for it, to the surface of the ground, where it has a removable cap of any preferred form.

The lower part, B, of the casing is provided in like manner as the upper portion with semicircular openings in two of its upper edges, and upon the other two it has the wings J. These wings on both of the sections are provided with openings, through which pass bolts I, by which the two sections are bound together. Around the edges of the circular openings formed by the semicircular openings in the two sections and through which the pipe enters the casing I provide indentations M, for the reception of packing of any suitable material, so that when the sections are drawn tightly together a water-tight joint may be formed at the point where the pipes enter. The lower part of the section B is provided with a depression for the reception of the lower part of the valve-plug by which the water is turned on or off.

In the ordinary form of valve employed in

pipes for conducting gas or water the valve is provided upon its upper end with an oblong nib, which is straddled by a fork upon the lower end of the key employed to turn the said cock. In the use of this device considerable inconvenience is always experienced, arising from the difficulty in getting the key into position, the casing leading from the surface of the ground being so large that it forms no guide for the key. One of the objects of this invention is to avoid this difficulty; and to that end I employ the key-seat E, of the form now to be described, in combination with the directing-tube D. This seat E may be made upon the valve-plug in forming the same, and it may also be readily applied to the form of plug just mentioned. The upper part of this seat is provided with an oblong or elliptical opening, which is adapted to be entered by a similarly-shaped end of the key by which the turning is accomplished. In order that the accumulation of water or dirt in this opening may be prevented, I provide the seat with any desired number of inclined openings, H, extending from the opening C to the circumference of the seat, through which the water or dirt will pass by gravity and be easily removed.

In order that the seat may be attached to the valve-plugs as now formed, I provide it with a groove or channel, S, which receives the nib on the said plug, and the said seat is secured in place on the said nib by passing a bolt or pin through openings in the seat and through the nib.

Having thus described my invention, what I claim is—

In combination with the casing formed of the upper and lower sections, A B, and the tube D, the key-seat having the upper opening for the reception of a turning-key and the inclined openings extending from the said opening.

This specification signed and witnessed this 29th day of June, 1883.

EDWARD LINDSLEY.

Witnesses:
GEO. C. TRACY,
GEO. C. DAVIES.