P. BURKE.

Stop-Cock Casing.

No. 207,246. Patented Aug. 20, 1878.

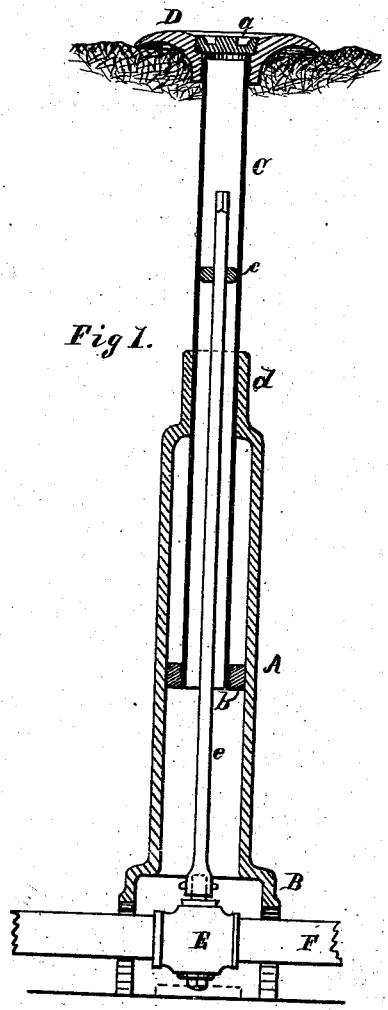


Fig 1.

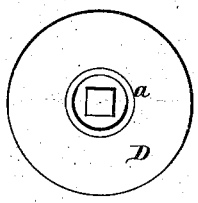


Fig 2.

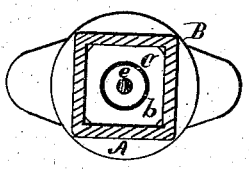


Fig 3.

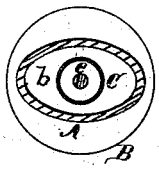


Fig 4.

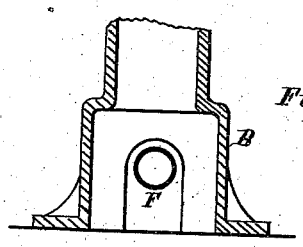
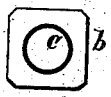


Fig 5.

Fig 6.



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Inventor:
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Atty

UNITED STATES PATENT OFFICE.

PATRICK BURKE, OF ROCHESTER, NEW YORK.

IMPROVEMENT IN STOP-COCK CASINGS.

Specification forming part of Letters Patent No. **207,246**, dated August 20, 1878; application filed May 13, 1878.

To all whom it may concern:

Be it known that I, PATRICK BURKE, of Rochester, in the county of Monroe and State of New York, have invented certain Improvements in Stop-Cock Casings for Subterranean Pipes; and I do hereby declare the following to be a clear and accurate description thereof, reference being had to the accompanying drawing, in which—

Figure 1 is a vertical central section of my invention, showing it in position, with the usual accompaniments. Fig. 2 is a plan view of the cap and cover; and Figs. 3, 4, 5, and 6 show details and modifications.

The object of my invention is to produce a convenient and durable casing for the stop-cocks and operating-rods pertaining to subterranean pipes for conveying steam, water, gas, or other fluids; and it consists, mainly, in a peculiar form of the lower casing, in connection with an adjustable upper section, and a compound cap or cover surmounting the latter.

A is the main or stationary part of the casing, which for convenience has an enlargement, B, at its base to receive the stop-cock E in the pipe F. The portion A of this lower casing is preferably made square in cross-section, as shown in Fig. 3; but it may be made polygonal or elliptical, as in Fig. 4, or any other desirable shape not round, and it is surmounted by a contracted neck, *d*, through the center of which the adjustable upper section, C, of the casing passes, moving freely therein. D is a flange, which is firmly secured to the upper end of the section C, and rests upon the earth or pavement at or slightly beneath the surface thereof.

Thus it will be observed that the casing can be adjusted to pipes laid at different depths by sliding the upper section in or out, as the case may be, and that, after setting, the casing is self-adjusting to variations in the soil or pavement.

A nut or block, *b*, is rigidly attached to the lower end of pipe C, and is fitted to slide easily in the part A of the lower casing; and it is obvious that, on account of the non-circular contour of the latter, the pipe C is prevented from revolving during the operation of attaching or removing the cap D, or any portion of it. By means, also, of the neck *d* and block *b*, the upper section, C, is retained in an upright position at any point of vertical adjustment.

In casings heretofore made with adjustable upper sections the flange D served also for a cover for the casing, and it was necessary to unscrew it from the end of the latter in order to introduce the turn-key. This was a troublesome operation, as the threads became rusty by exposure to the moist earth, and, moreover, when the soil was loose around the casing, as is often the case, the adjustable section would drop down.

I obviate both these difficulties by permanently attaching the flange D to the pipe C, as before described, and providing a separate cap or cover, *a*, which is fitted to be screwed into or be otherwise suitably attached to the flange D, so as to expose the end of the pipe C when removed, as indicated in Figs. 1 and 2. In practice, I prefer to make the flange D of iron and the cover *a* of brass, whereby the former soon becomes immovable by rust, while the latter is easily detached at any time.

The portion A of the casing may be made large enough to receive the stop-cock, and thus dispense with the enlargement B; but by the use of the latter an unnecessary weight of metal in the body of the casing is avoided. By means of slots in the sides of the casing at B the latter may be removed or replaced without disturbing the pipe F or stop-cock, and I find it desirable to provide flanges upon the base to prevent settling. The turn-rod *e* is attached to the stop-cock in the usual manner, and it may be retained in a central position by a collar, *c*.

It is plain that the arrangement of the adjustable section C within the portion A may be reversed, and the latter be formed to slide into the former, the operation being substantially as above described, in which case the block *b* would be attached to the section A and the neck *d* to the section C.

I am aware that stop-cock casings with adjustable upper sections are not new, such cas-

ings having been in use for several years; and I am also aware that casings with an enlargement at the base to receive the stop-cock have been described in printed publications in this country; but

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

1. In combination with the lower casing, A, and adjustable section C, the permanent flange D and detachable cover *a*, substantially as and for the purposes set forth.

2. The block *b*, rigidly secured to the adjustable section C, in combination with a lower casing, A, of non-circular cross-section, operating substantially as described.

3. The casing A, provided with the neck *d*, in combination with the block *b* and adjustable section C, whereby the latter is retained in a vertical position, substantially as set forth.

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