

M. R. COLVIN.
Gas and Water Cock.

No. 214,367.

Patented April 15, 1879.

FIG. 3.

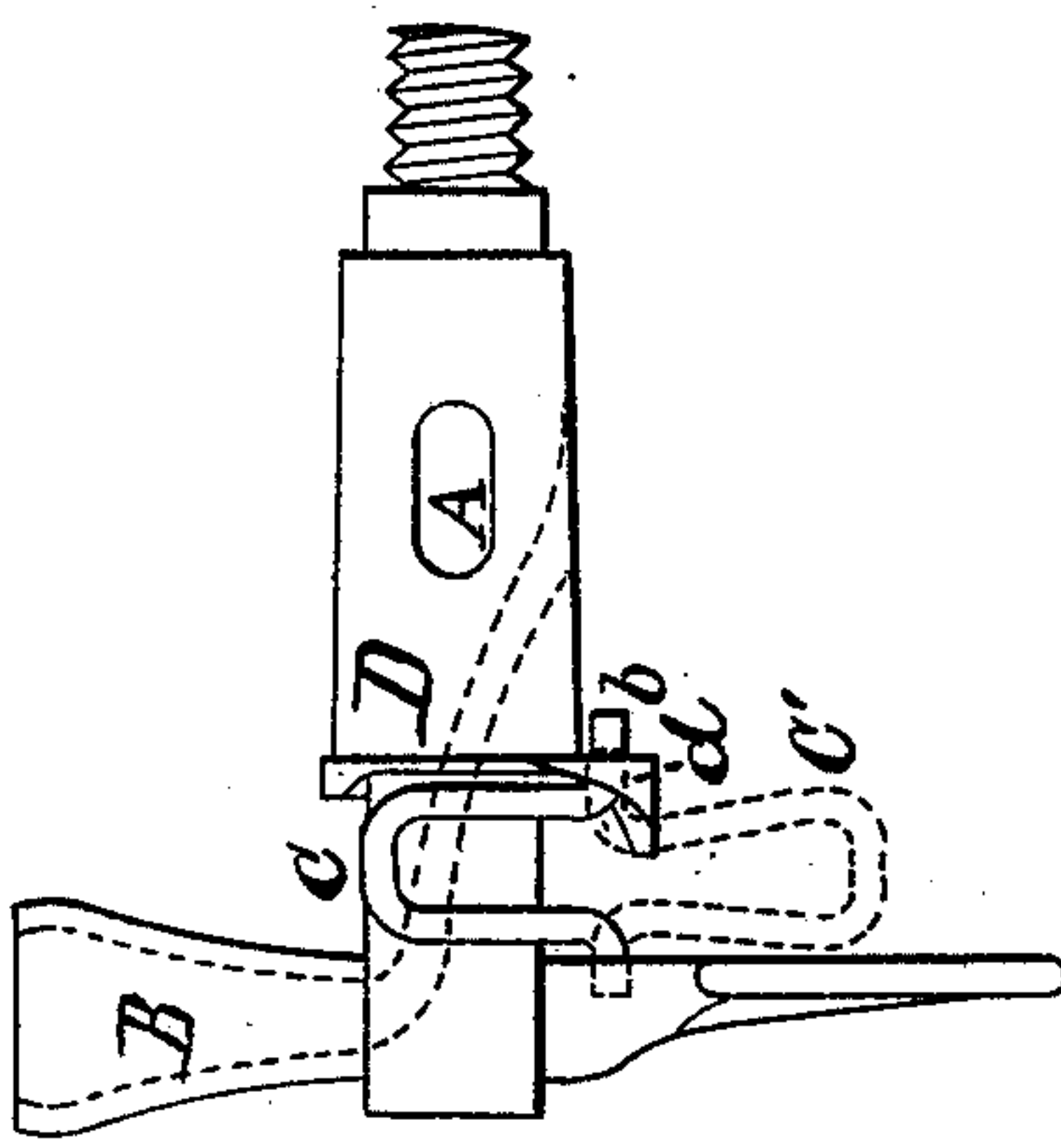


FIG. 2.

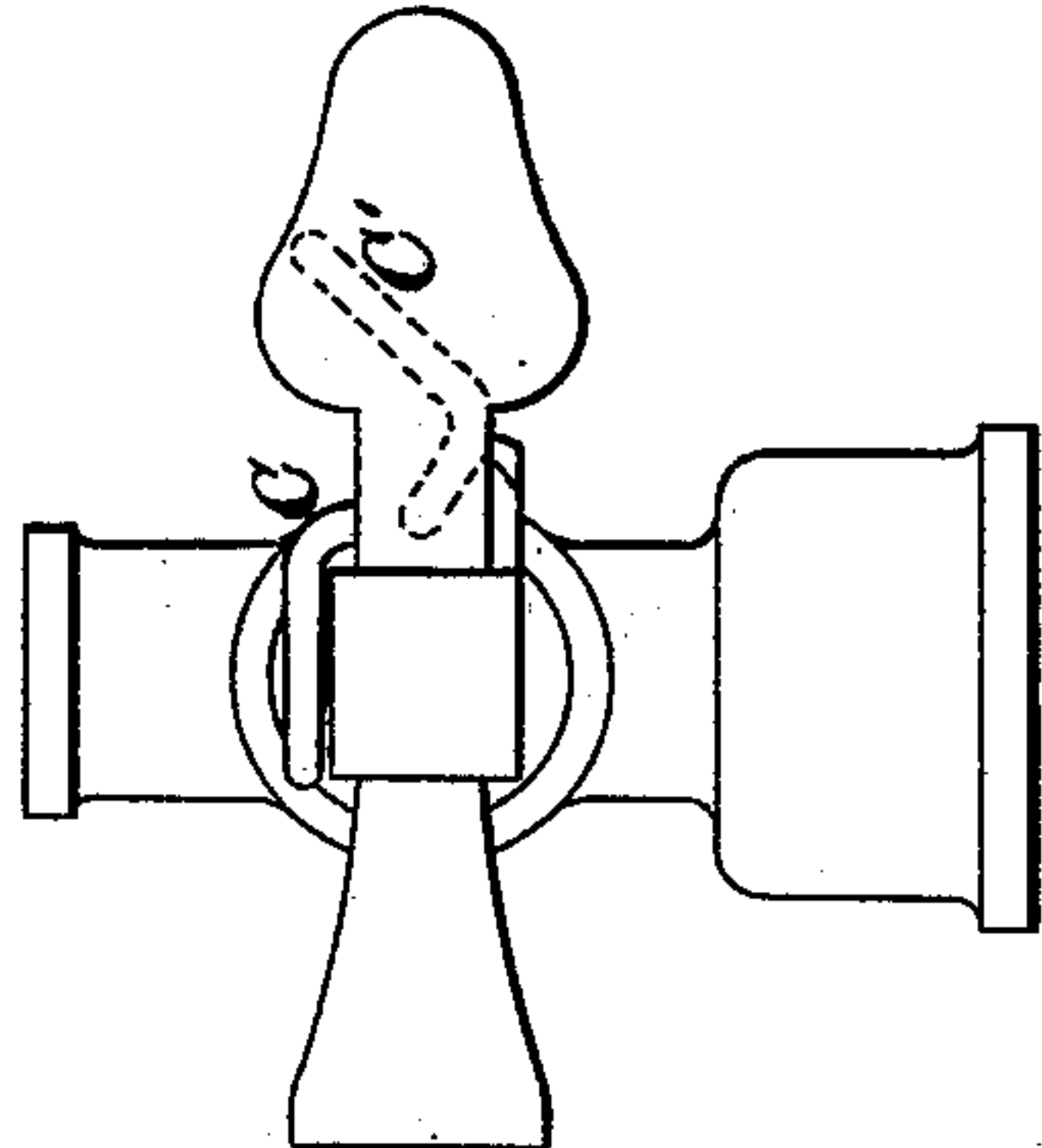
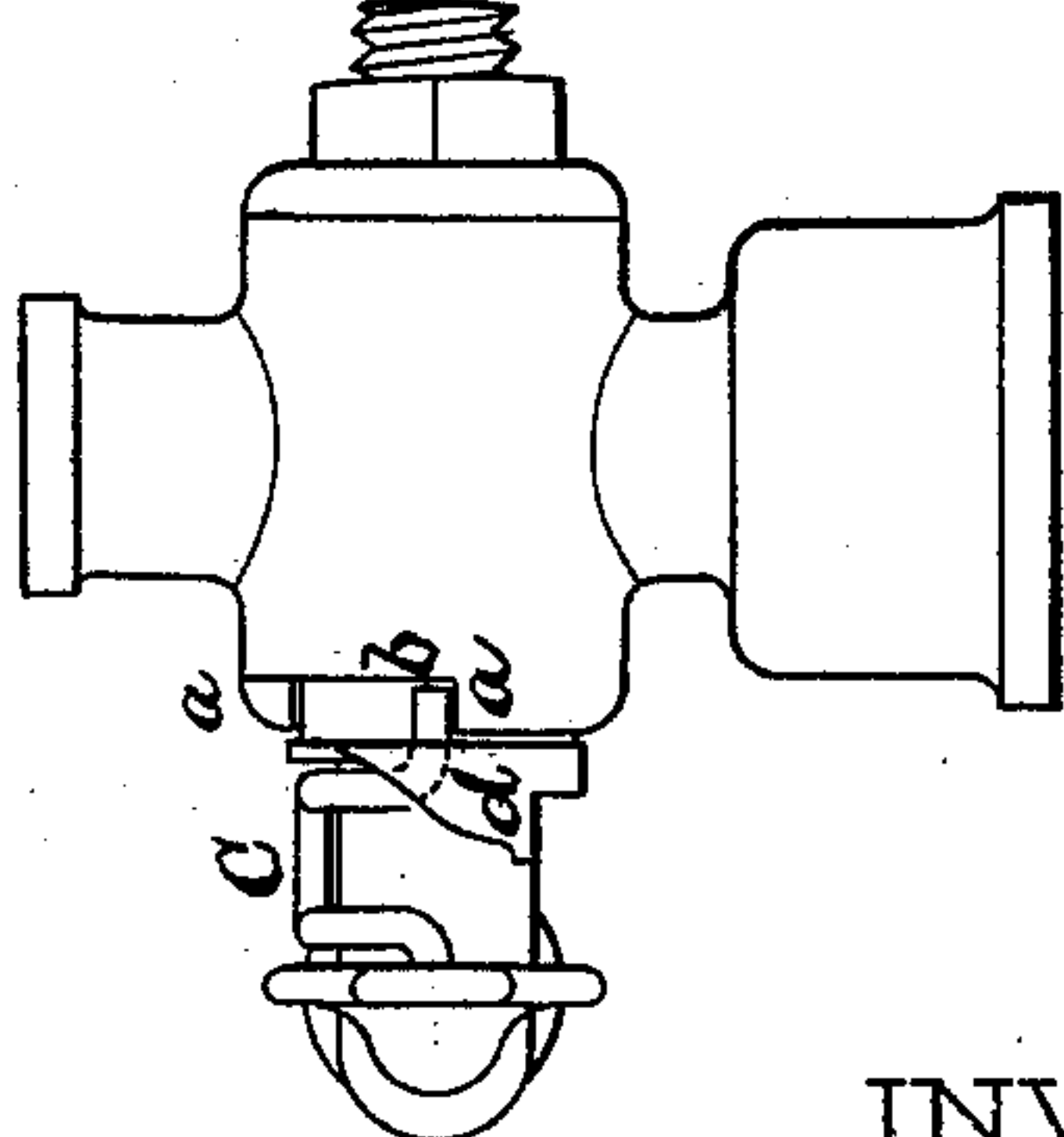


FIG. 1.



WITNESSES.

C. F. Prichard.
F. A. Debbets.

INVENTOR.

Michael R Colvin

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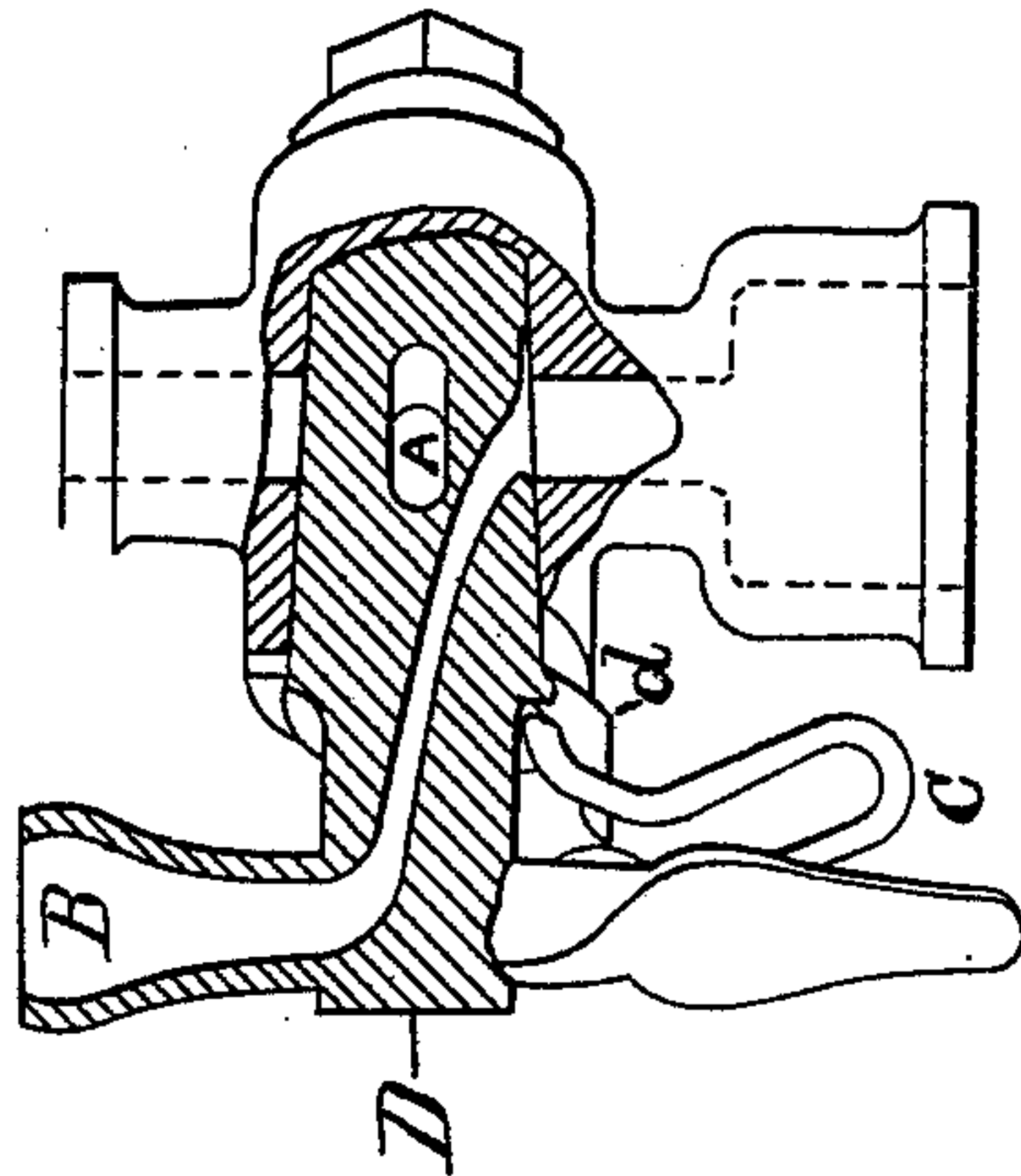


FIG. 5.

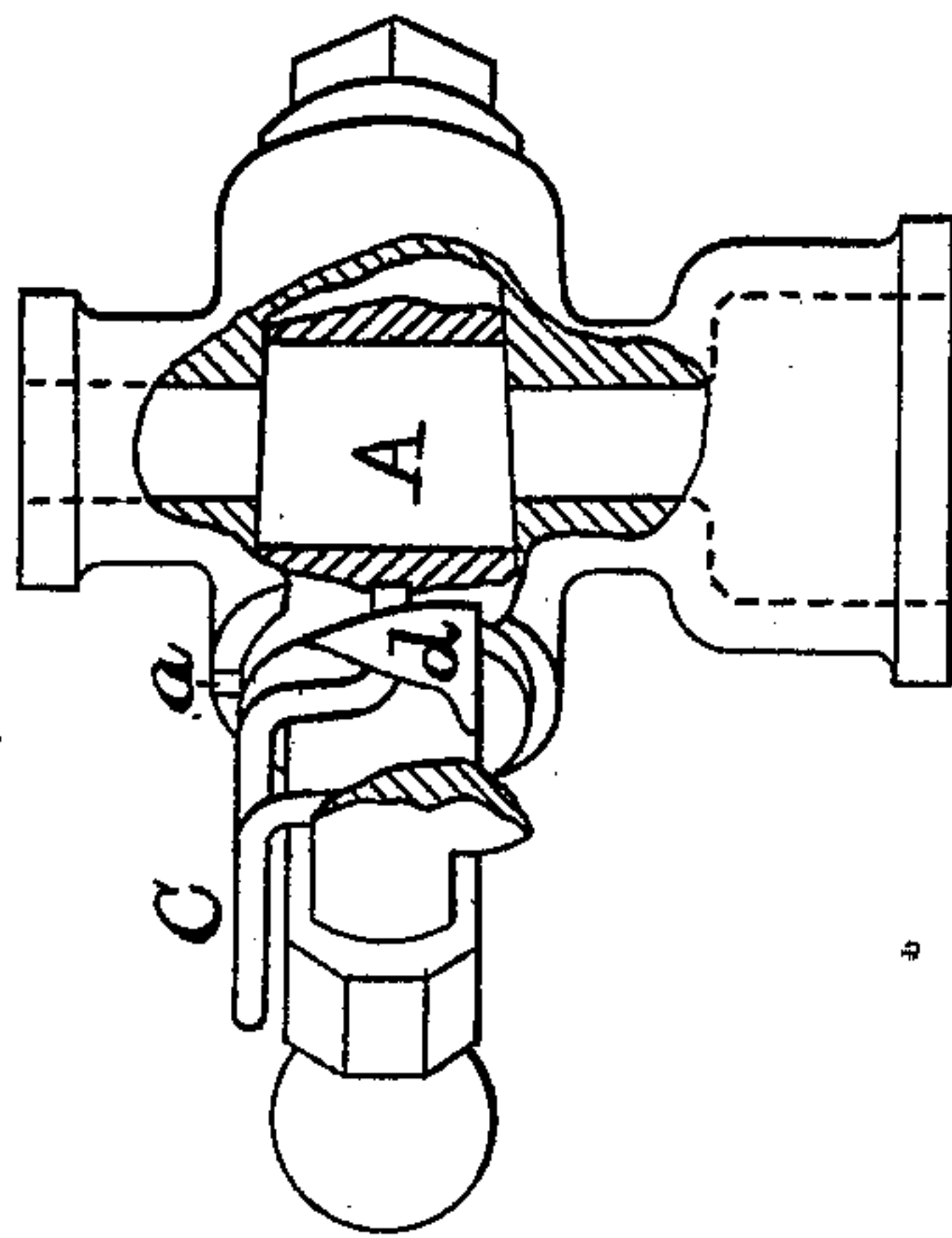


FIG. 4.

WITNESSES.

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UNITED STATES PATENT OFFICE.

MICHEAL R. COLVIN, OF WORCESTER, MASSACHUSETTS.

IMPROVEMENT IN GAS AND WATER COCKS.

Specification forming part of Letters Patent No. **214,367**, dated April 15, 1879; application filed September 7, 1878.

To all whom it may concern:

Be it known that I, MICHEAL R. COLVIN, of Worcester, in the county of Worcester and State of Massachusetts, have invented a new and useful Improvement in Gas-Cocks for Lanterns and Services, and Stop and Waste Cocks for Water-Pipes, which improvement is fully set forth in the following specification and accompanying drawings.

In describing and illustrating I have shown and described the lantern-cock, the various forms being alike in principle, but differing slightly in construction.

Figure 1 is a side view of my improved lantern-cock. Fig. 2 is a front view, and Fig. 3 a view of the plug of the cock removed from the barrel. Fig. 4 is a view of the cock in its ordinary use to let on and shut off the supply of gas to a lantern. Fig. 5 is a view of the cock in position to receive oil or liquor for oiling or cleansing the cock and service.

The object of my invention is to furnish a ready method of oiling the cock, and a convenient means of restoring communication between the burner and the main through the service-pipe when the latter has become obstructed by frost, naphthaline, or from other causes.

For this purpose, besides the usual opening through the plug, (designated by the letter A in Fig. 3,) there is another smaller opening leading from the end of the handle of the cock to the side of the plug, (shown by the dotted lines marked B in Fig. 3.)

In the figures, C is an adjustable stop, which, when in its ordinary position, (that shown by the full lines marked C in the figures,) limits the movement of the cock to a quarter-turn, the end *b* of the stop C striking against the shoulders *a a*, and is in its mode of operation exactly like the ordinary stop in gas-cocks, and serves the same purpose. While the plug is in position to let on or shut off the gas, the opening B is either shut off entirely by its end being closed by the side of the barrel, or it opens a passage through the burner. When, however, the stop C is turned back into the position shown by dotted lines C' in Figs. 2 and 3, the end *b* of the stop is withdrawn be-

yond the shoulders *a a* by the action of the cam *d* upon the side of the spring-wire of which the stop C consists, thus allowing the plug to be turned into any position. By revolving into the position shown in Fig. 3, the opening A would obviously be shut off, and B would communicate with the service, allowing the passage of oil, liquor, &c., used in thawing and cleaning, or for blowing through the service to clean it.

In cases where it is necessary to blow into the lantern-service, for convenience, a tube bent at the end is inserted into the opening B, the tube being long enough to project outside the lantern.

In oiling, the oil is poured into B, and a groove cut in the plug allows the oil to run some distance along it, and a turn of the handle oils the entire surface of the plug.

It is evident that the adjustable stop C may be made in many other forms to withdraw the end *b* from the action of the shoulders *a a*; but I prefer this method on account of its simplicity and strength.

This cock may be also used as a stop and waste cock for water-services in houses where it is necessary to shut off the water, and at the same time drain the pipes in the house, to prevent freezing. It is superior to the ordinary form, as the water can be conveniently caught.

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

1. A cock having a passage, B, and adjustable stop C, substantially as shown and described, and for the purposes set forth.

2. The plug D, having, besides the usual passage A, another passage, B, opening through the side of the plug, substantially as shown and described, and for the purposes set forth.

3. A cock having an adjustable stop, C, substantially as shown and described, and for the purposes set forth.

MICHEAL R. COLVIN.

Witnesses:

C. F. PRICHARD,
C. A. LYNCH.