

O. F. Woodford,

Stop Cock Box.

No 93.657.

Patented Aug 10. 1869.

Fig. 1

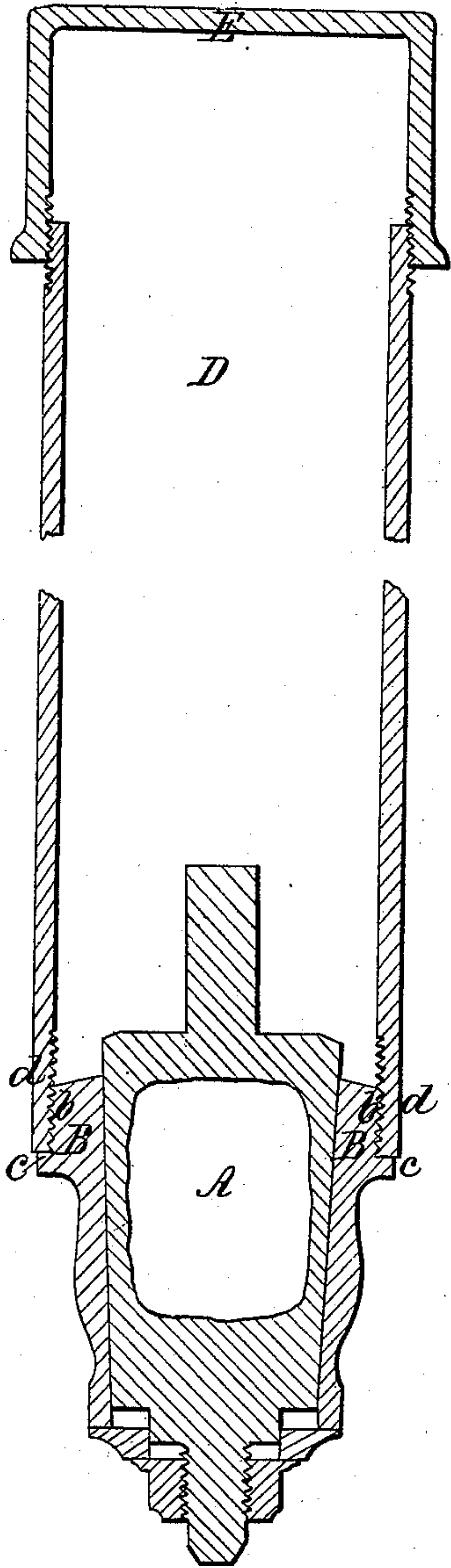
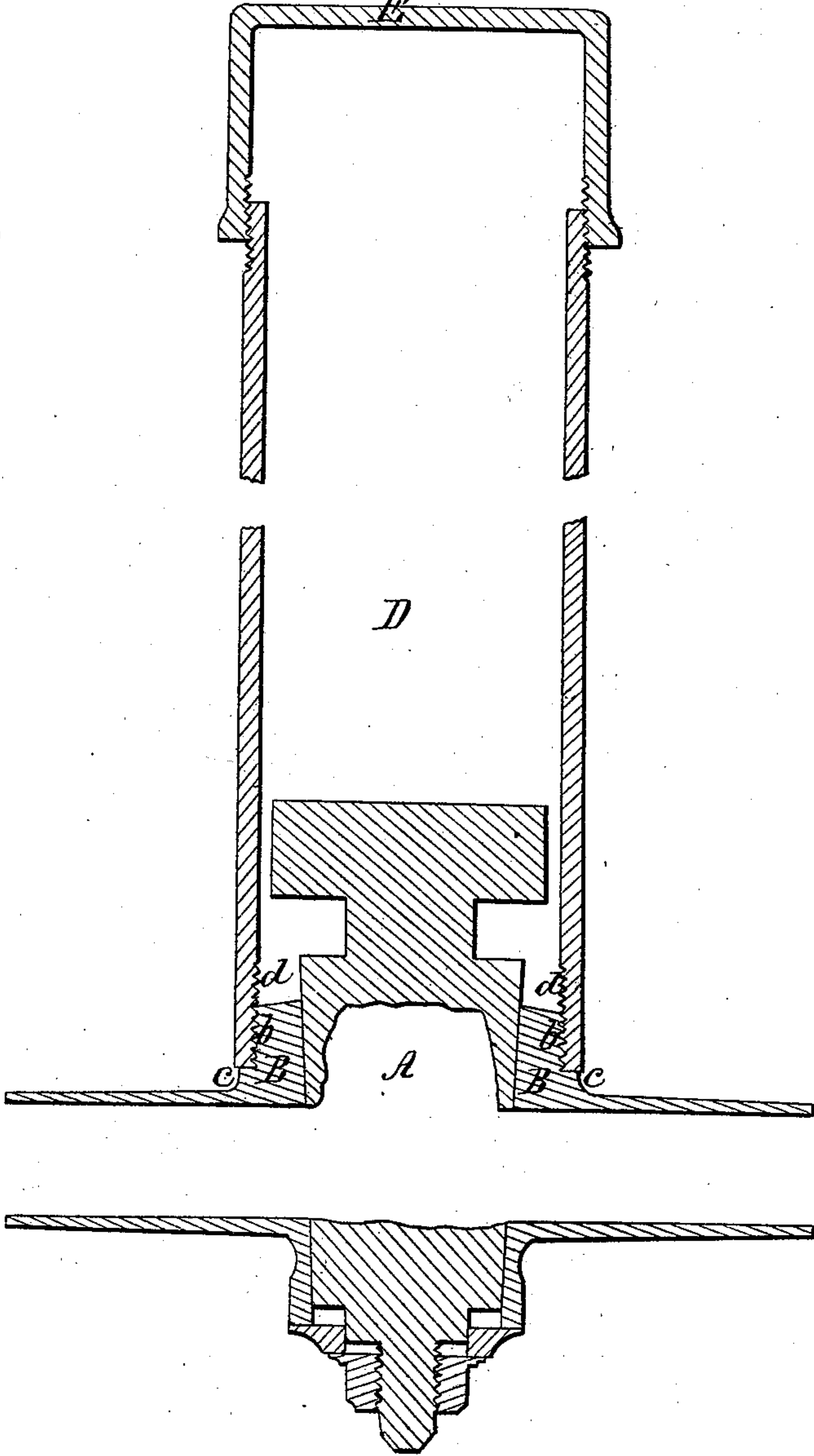


Fig. 2



Witnesses

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ORIN F. WOODFORD, OF CHICAGO, ILLINOIS, ASSIGNOR TO JAMES E. MILLER, OF SAME PLACE.

Letters Patent No. 93,657, dated August 10, 1869.

IMPROVEMENT IN STOP-COCK BOXES FOR WATER AND GAS-MAINS.

The Schedule referred to in these Letters Patent and making part of the same.

To all whom it may concern:

Be it known that I, ORIN F. WOODFORD, of the city of Chicago, in the county of Cook, and State of Illinois, have invented certain new and useful Improvements in "Stop-Cock Boxes for Water and Gas-Pipes;" and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, making part of this specification, and to the letters of reference marked thereon, like letters indicating like parts wherever they occur.

To enable others skilled in the art to construct and use my invention, I will proceed to describe it.

Figures 1 and 2 represent sections of the stop-cock and stop-cock box.

The present mode of connecting stop-cocks of water and gas-pipes, laid under ground, with the surface of the streets or sidewalks, consisting, generally, in a loosely-jointed, square, wooden box, has this great inconvenience, that when the ground is saturated with water, this water penetrates into and fills the wooden box, and in winter time, being frozen therein, makes it impossible to shut off water or gas in the pipes, without cutting out the box itself.

My invention having the purpose to obviate the above-said difficulty, its nature consists in a water-tight tube, to be used in place of the said wooden box, said tube being so arranged, that when affixed to the stop-cock of the water or gas-pipe, renders the con-

nection of the said stop-cock with the surface of the ground, water tight.

A is the stop-cock, the shell, B, of which, is somewhat enlarged, and provided on the outside with a screw-thread, *b*, and a shoulder, *c*.

D is a water-tight tube, metallic being preferred, provided on the inside, at the lower end, with a screw-thread, *d*, to fit the screw-thread *b* of the shell, and when screwed on, to rest on the shoulder *c*.

The tube D extends upward to the surface of the ground, the cap E being screwed on the top of it.

The tube D may be made of metal, solid wood, wood and metal combined, or of any other suitable material that would render the said tube water-tight.

Instead of screw-threads *b* and *d*, the connection between the tube D and the stop-cock A, may be made by a coupling, or by some other water-tight device or attachment, rendering the said connection water-tight.

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

The tube D, attached to the shell B of the stop-cock, or to the supply-pipe, in such a manner as to form a water-tight case, extending up to the surface, and enclosing the stop-cock A, as and for the purpose herein set forth.

Witnesses:

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