

T. BIRCH.

LOCK STOP-BOXES FOR SERVICE-COCKS OF GAS AND WATER  
MAINS.

No. 183,365.

Patented Oct. 17, 1876.

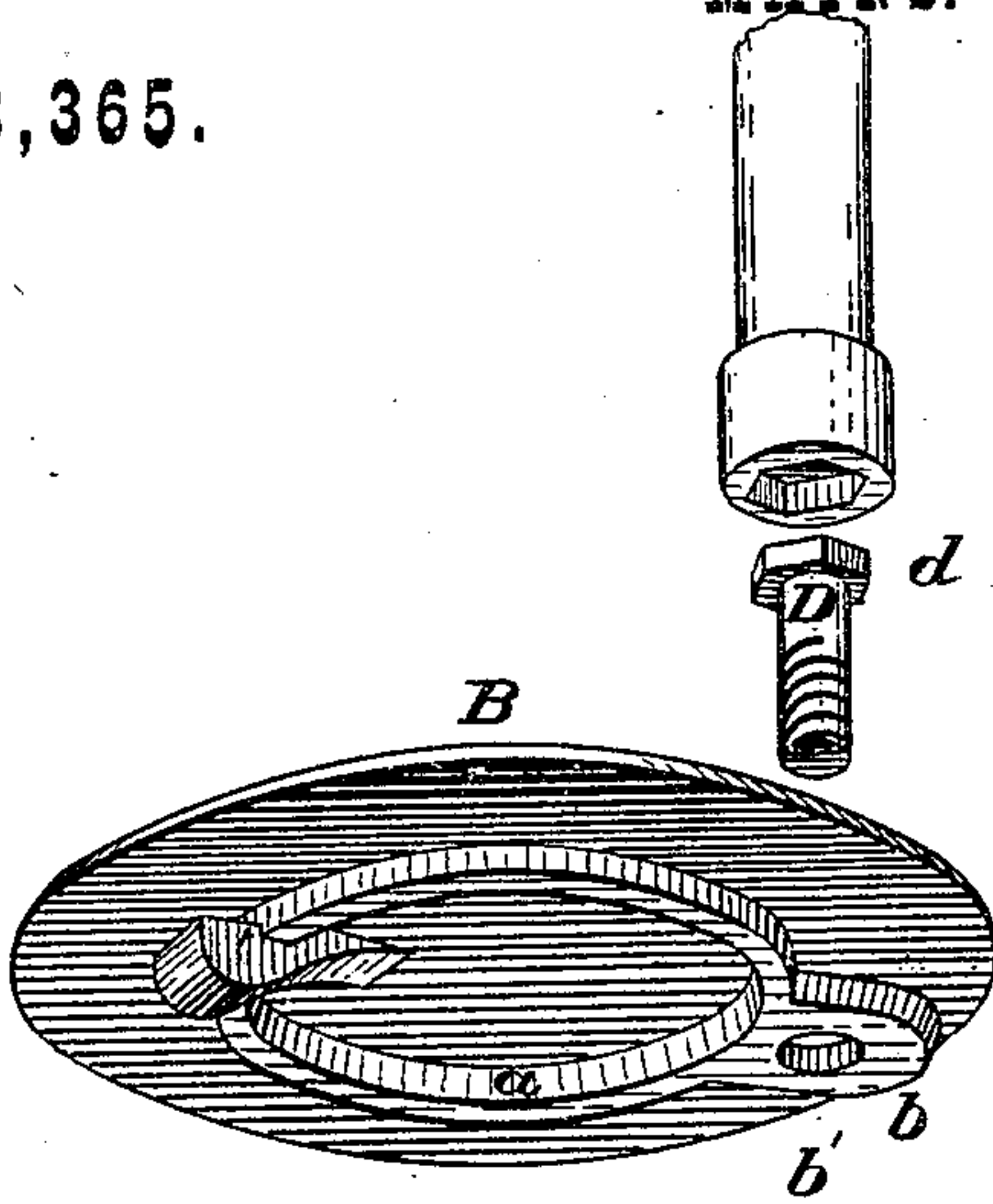


Fig. 1.

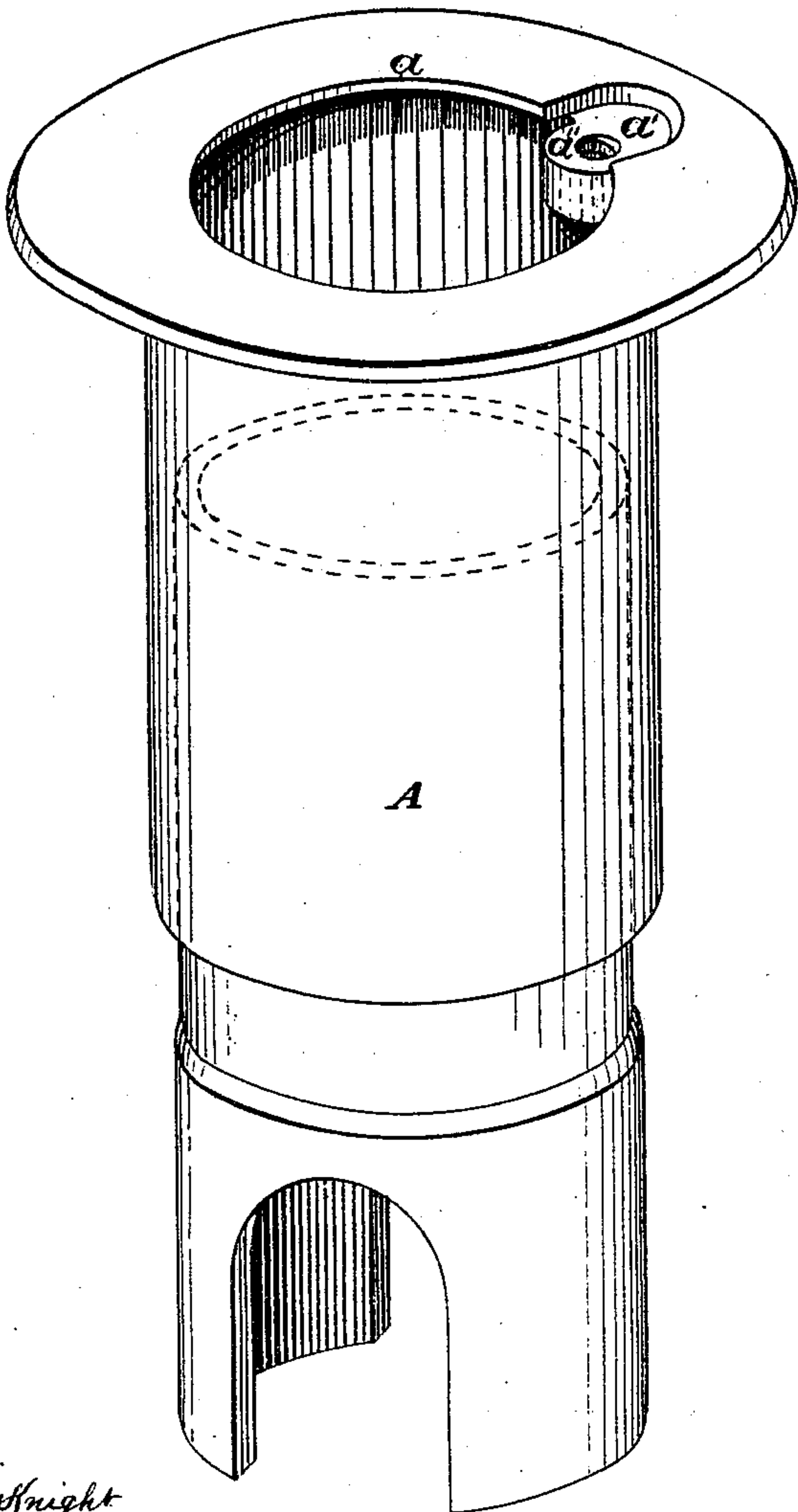
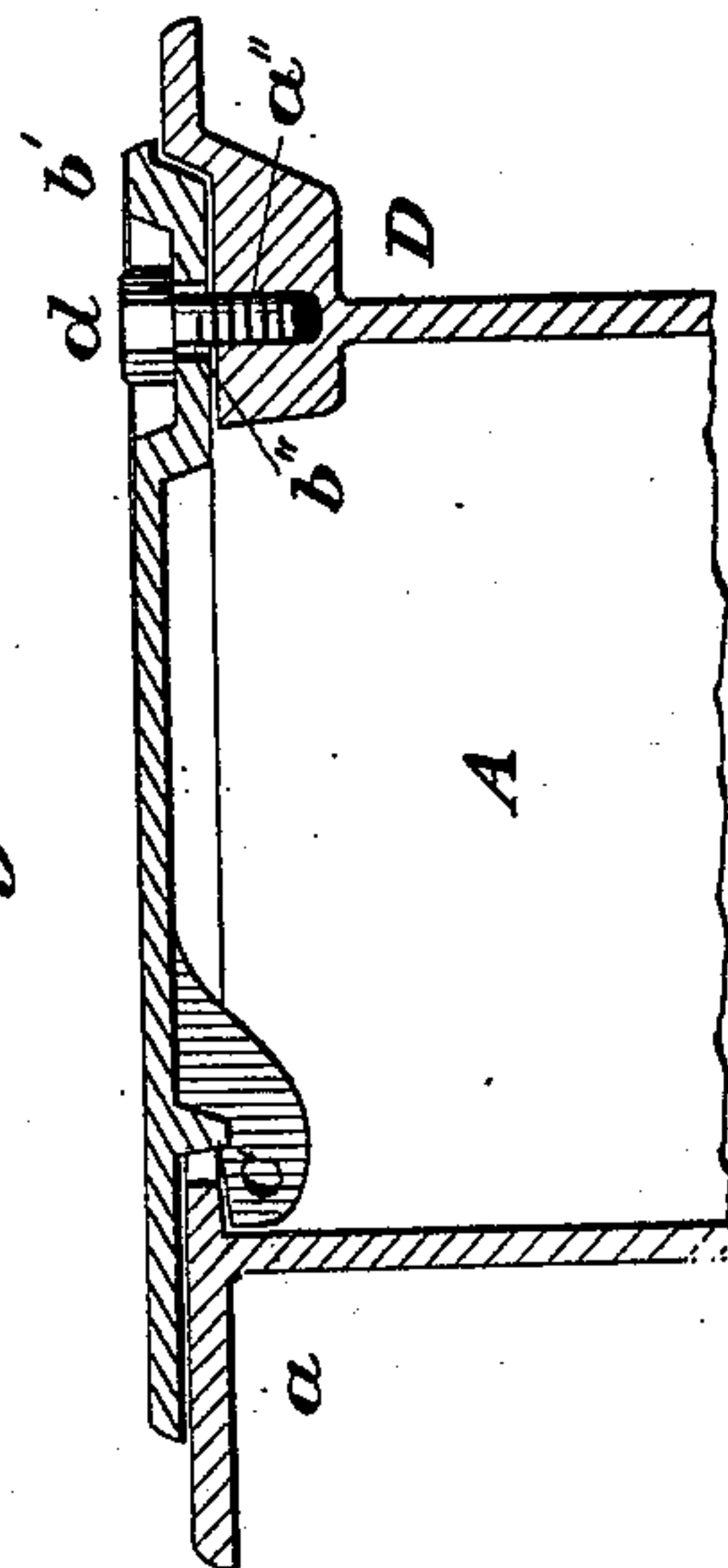


Fig. 2.



Attest  
Harry B. Knight  
Horace E. Johnson.

Thomas Birch  
By Knight Bros.  
Attys.

# UNITED STATES PATENT OFFICE.

THOMAS BIRCH, OF CINCINNATI, OHIO, ASSIGNOR OF ONE-HALF HIS  
RIGHT TO HENRY RANSHAW, OF SAME PLACE.

IMPROVEMENT IN LOCK STOP-BOXES FOR SERVICE-COCKS OF GAS AND WATER MAINS.

Specification forming part of Letters Patent No. **183,365**, dated October 17, 1876; application filed  
September 8, 1876.

*To all whom it may concern:*

Be it known that I, THOMAS BIRCH, of Cincinnati, Hamilton county, Ohio, have invented a new and useful Lock Stop-Box for the Service-Cocks of Gas and Water Mains, of which the following is a specification:

My invention relates to an improved construction of cap or lid for the boxes which afford access for the key or wrench by means of which the service-cocks of street-mains are closed and opened.

In the accompanying drawings, Figure 1 is a perspective view of a lock stop-box and lid embodying my improvements, the lid being detached. Fig. 2 is an axial section of these members in their closed condition.

The box A is a cylindrical tube, whose lower end incloses the spigot-head of the service-cock in the usual manner, and whose upper end has an interior flange, *a*, which, besides adding strength to the box, affords a resting-place for the lid or cap B. Said flange also serves as a projection, under which engages a spur or tongue, C, that extends from the under portion of the lid. The said flange is

recessed at *a'* for the counter-swell *b* of a cavity, *b'*, diametrically opposite to the said tongue C, for the head *d* of a screw-bolt, D, which, when the lid is in position, occupies a screw-threaded orifice, *a''*, in the recessed portion *a'* of the flange A, and an orifice, *b''*, in cavity *b'*.

When locked, as in Fig. 2, the head and collar are entirely inclosed in the cavity *b'*, and consequently cannot be disturbed except by the use of the proper key E.

I claim as new and of my invention—

The lock stop-box A, having the recessed and screw-tapped interior flange *a a' a''*, in combination with the cap or lid B, having the tongue C, and the cavity *b' b''* for the screw-bolt D *d*, whose head is flush with the top of said lid, as set forth.

In testimony of which invention I hereunto set my hand.

THOMAS BIRCH.

Attest:

GEO. H. KNIGHT,  
L. H. BOND.