

J. Ault,

Lock.

N^o 32,605.

Patented June 25, 1861.

Fig. 2.

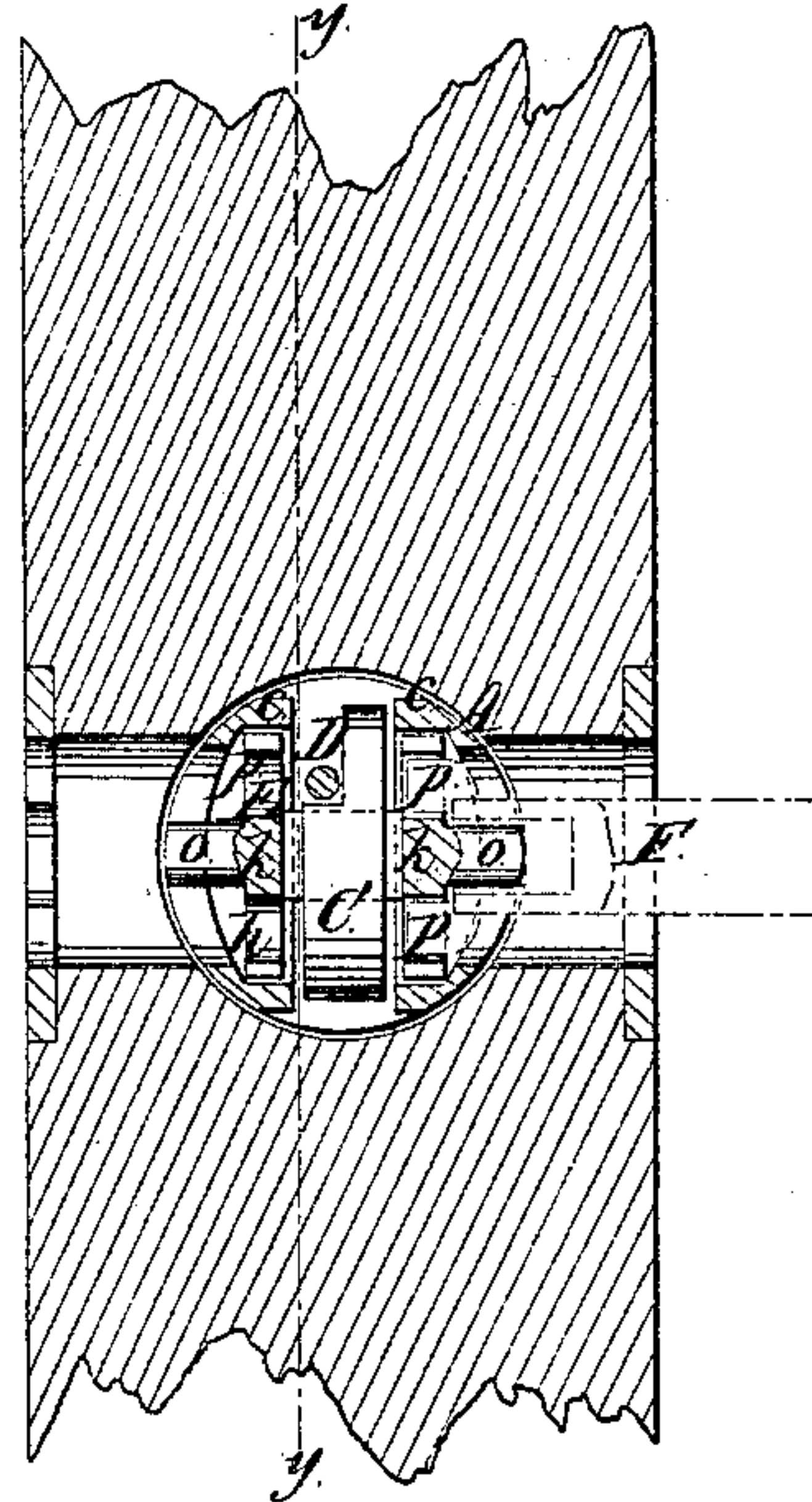


Fig. 1.

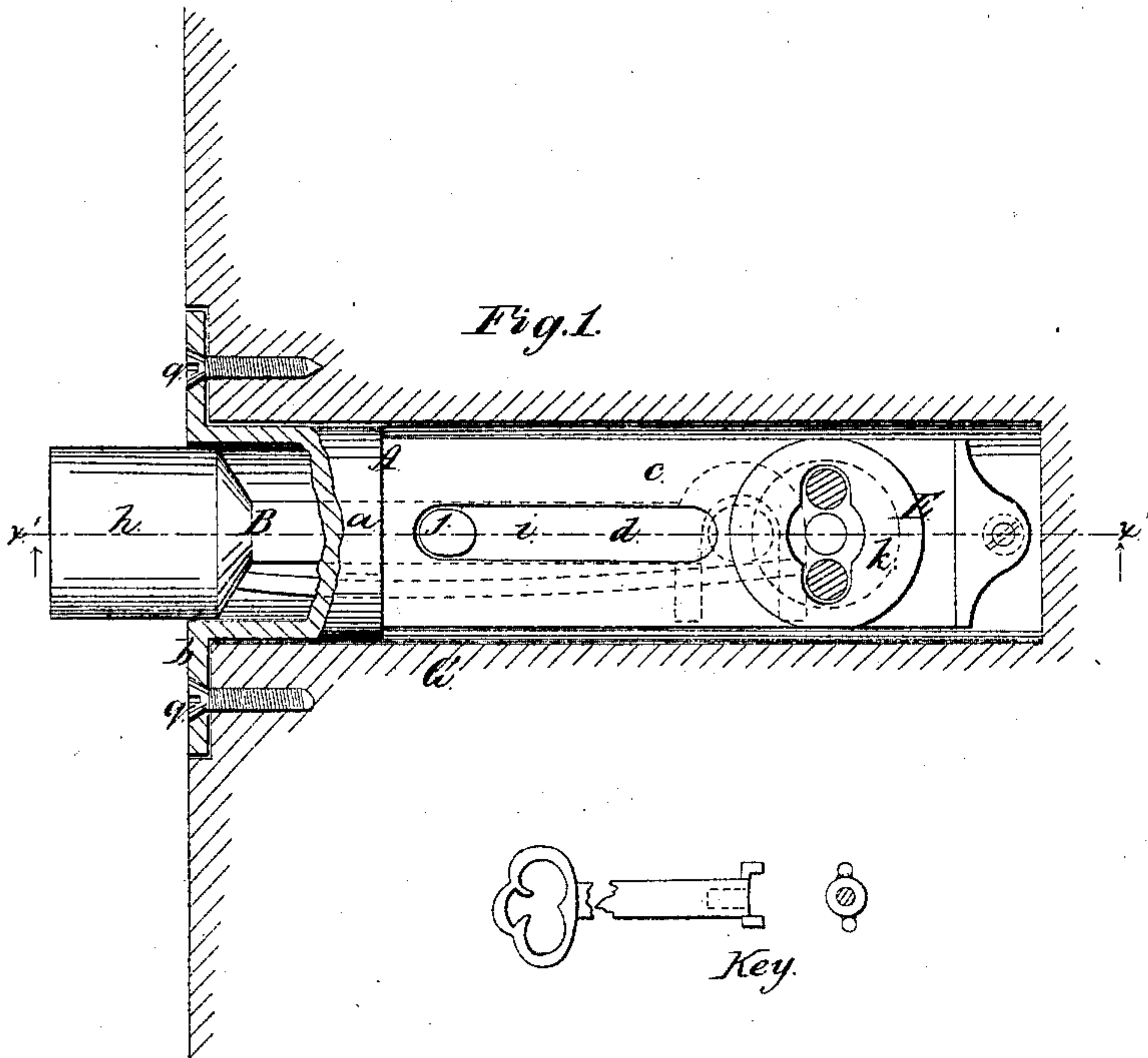


Fig. 3.

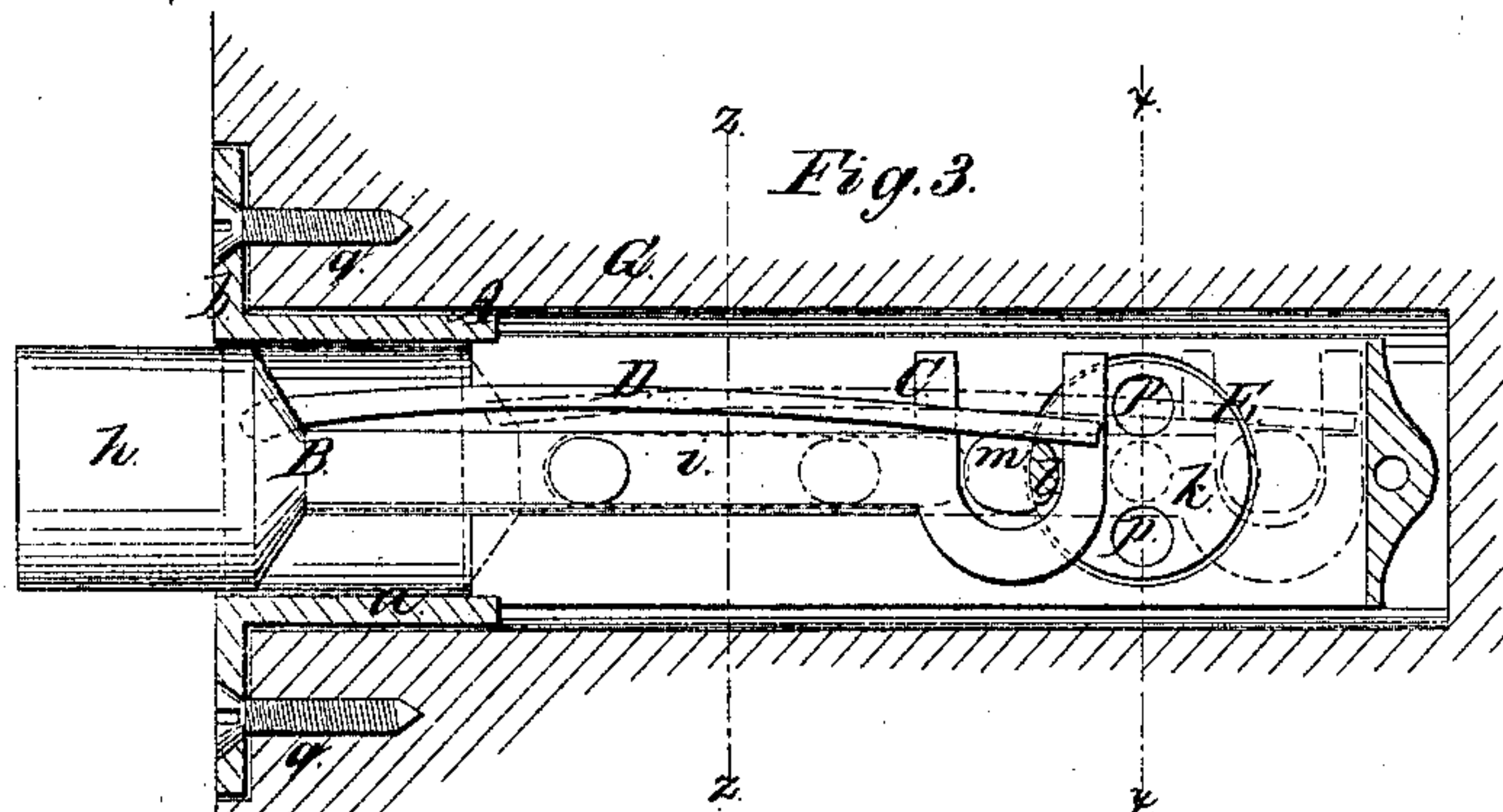


Fig. 4.

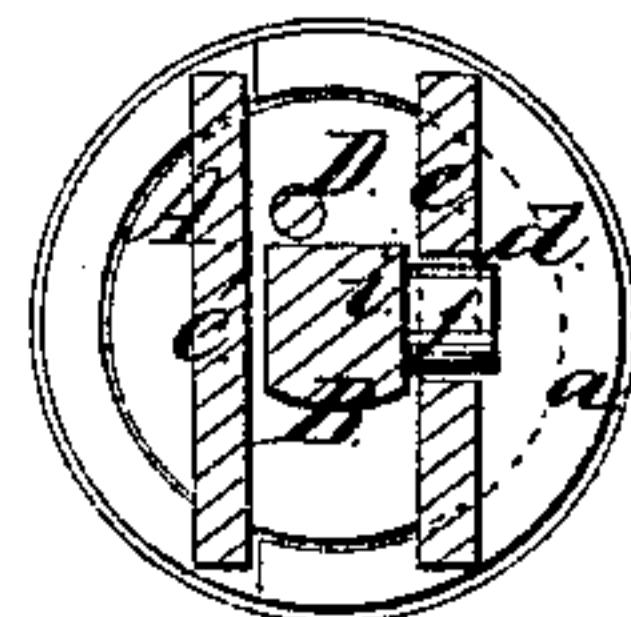
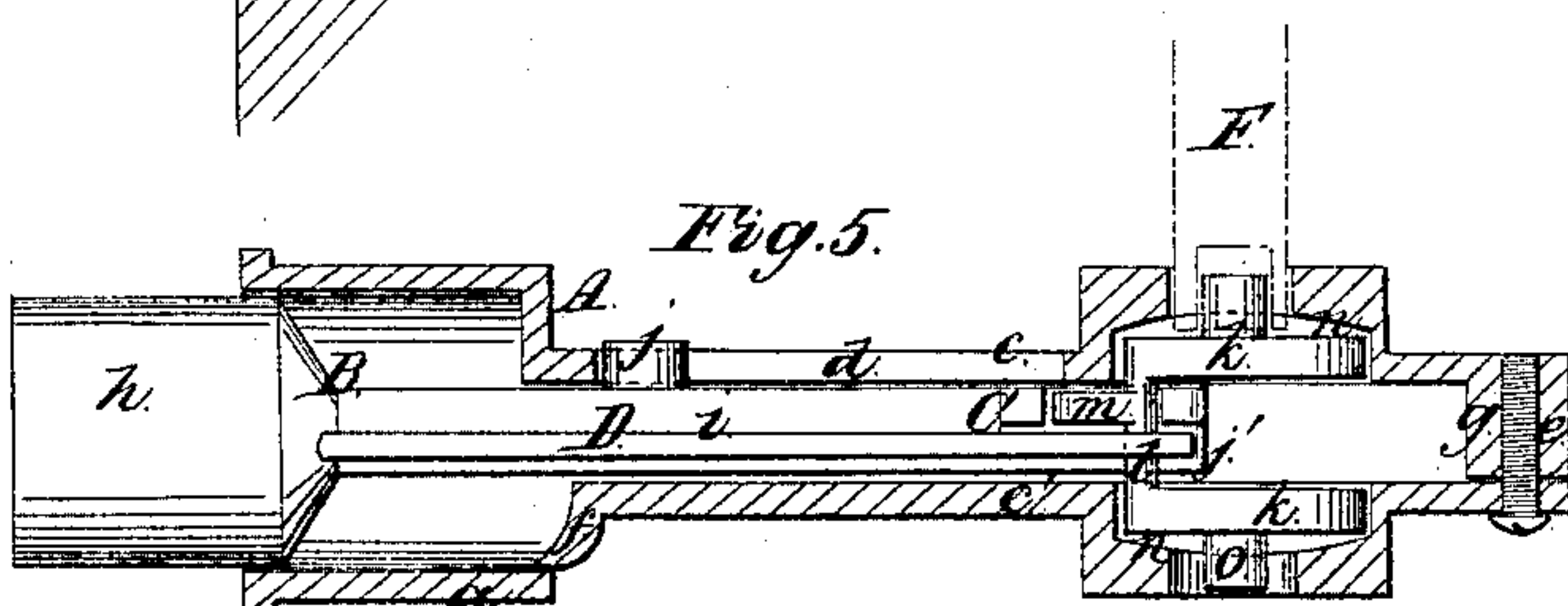


Fig. 5.



Witnesses.

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UNITED STATES PATENT OFFICE.

JOHN ADT, OF WATERBURY, CONNECTICUT.

LOCK.

Specification of Letters Patent No. 32,605, dated June 25, 1861.

To all whom it may concern:

Be it known that I, JOHN ADT, of Waterbury, in the county of New Haven and State of Connecticut, have invented a new and

5 Improved Lock; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, in which—

10 Figure 1, is a side view of my invention fitted in a door which is bisected in order to show the device. Fig. 2, a transverse section of the same, taken in the line x, x , Fig. 3. Fig. 3, a longitudinal section of the

15 same, taken in the line y, y , Fig. 2. Fig. 4, a transverse section of the same, taken in the line z, z , Fig. 3. Fig. 5, a horizontal section of the same, taken in the line x', x' , Fig. 1, and looking upward.

20 Similar letters of reference indicate corresponding parts in the several figures.

This invention relates to a small lock of simple construction designed for doors of buildings.

25 The object of the invention is to obtain a lock which may be readily inserted in the door and without cutting away much of the latter, and one which may be constructed with but a little amount of metal and in a

30 very economical manner. To enable those skilled in the art to fully understand and construct my invention, I will proceed to describe it.

35 A, represents the case of the lock which is formed at its outer end of a hollow cylinder a , having a face plate b , the back part of the case being formed of two parallel plates c, c' , one of which, c , is cast with the cylinder a , and is provided with a longitudinal

40 slot d , shown in Figs. 1, 4, and 5. The other plate c' , is cast separately and is secured to the case by a screw e , at one end and a lip or projection f , at the other end, the lip f , fitting in the back part of the cylinder a , and the screw e , passing into a projection g , at the back part of the plate c , see Fig. 5.

45 B, represents the bolt, the outer part h , of which is cylindrical and works within the cylindrical part a , of the case A. The inner

50 part i , of the bolt is a rod which is fitted between the plates c, c' , and has a lateral pin j , attached which works in the slot d , of plate c , of the case A. The inner end of the rod i , of the bolt terminates in a U-shaped yoke C, and to the back part of the front part a , of the bolt a rod or wire D, is secured, said rod or wire performing the function of a spring and having its outer end resting on a shoulder j' , at the outer part of the yoke C, the spring extending entirely across the yoke as shown in Fig. 3.

E, represents a hub which is formed of two circular disks k , connected by a cross-bar l , near their edges, which bar l , has a circular button m , on it, said button fitting in the yoke C. The disks k, k , of the hub E, fit in recesses n, n , in the plates c, c , and each disk is provided with a central pin o , and two holes p, p , to receive the key F, which may be inserted at either side of the door G, the lock being fitted in the door by simply boring a hole therein of a diameter equal to that of cylinder a , of the case, screws q , passing through the face plate b , into the edge of the door.

75 The bolt B, is shoved out and in by turning the hub E, the button m , acting on yoke C, and the hub E, making a half revolution at each movement to throw the bolt either outward or inward. The casual movement of the hub E, when the lock is either in a locked or unlocked state is prevented by the spring D.

80 The pin j , fitting and working in the slot d , of the plate c , of the case A, forms a guide for the bolt, see Figs. 4 and 5.

85 The arrangement is extremely simple and compact the lock being capable of being made so as to be inserted in a three quarter ($\frac{3}{4}$) inch hole.

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

95 The bolt B, provided with the yoke C, at its inner end in combination with the spring D, and the hub E, having the button m , attached and fitted in the yoke C; the above parts being placed in a case A, and all constructed and arranged as and for the purpose set forth.

JOHN ADT.

Witnesses:

WILLIAM LAMB,
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