

J. Ault,

Lock.

N^o 32,605.

Patented June 25, 1861.

Fig. 2.

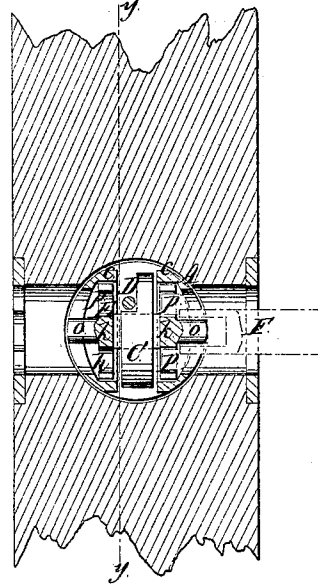


Fig. 1.

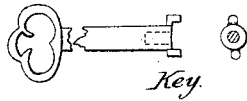
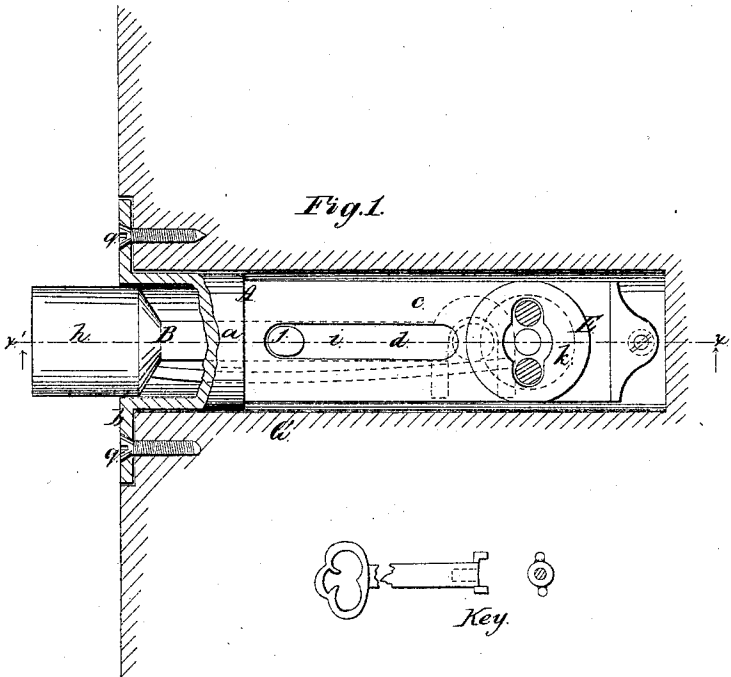


Fig. 3.

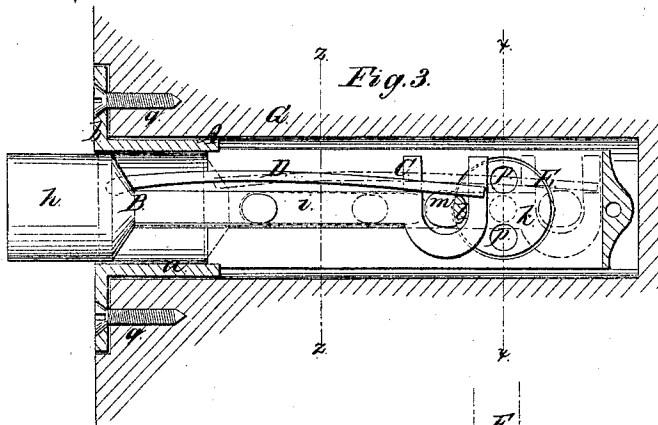


Fig. 4.

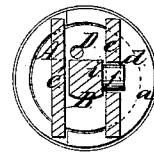
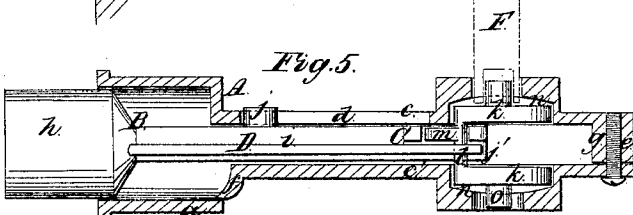


Fig. 5.



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 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 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 very economical manner.

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

30 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 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.

40 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 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.

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.

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:

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:

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