G. A. WINSLOW & G. W. GILBERT.

LOCKS FOR DOORS, &c.

No. 183,738. Patented Oct. 24, 1876.

fig. 1.

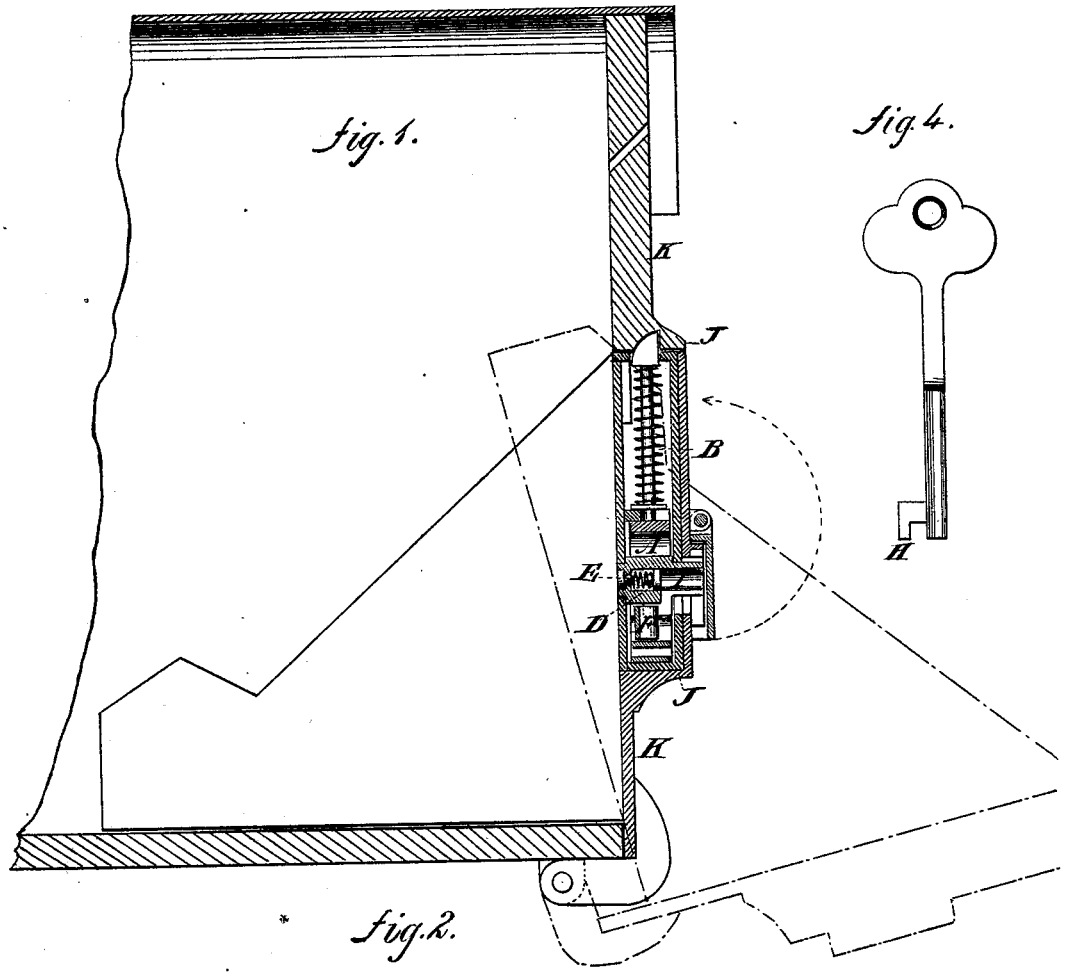


fig. 4.

fig. 2.

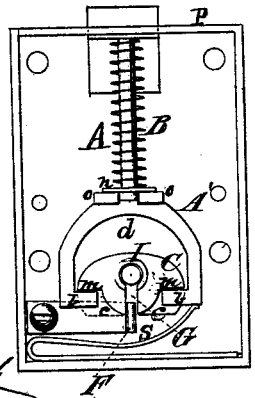


fig. 3.

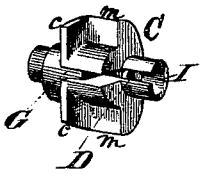
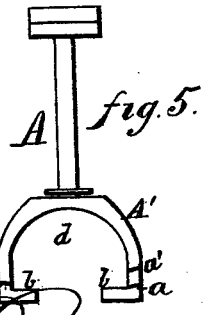


fig. 5.



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UNITED STATES PATENT OFFICE.

GEORGE A. WINSLOW AND GEORGE W. GILBERT, OF DETROIT, MICHIGAN.

IMPROVEMENT IN LOCKS FOR DOORS, &c.

Specification forming part of Letters Patent No. **183,738**, dated October 24, 1876; application filed June 20, 1876.

To all whom it may concern:

Be it known that we, GEORGE A. WINSLOW and GEORGE W. GILBERT, of Detroit, Wayne county, Michigan, have invented a new and Improved Lock, of which the following is a specification:

Figure 1 is a sectional elevation of our improved lock, and the door to which it is applied. Fig. 2 is a front elevation of the lock. Fig. 3 is a perspective view of the tumbler. Fig. 4 is a view of the key, and Fig. 5 is a rear elevation of the bolt.

Similar letters of reference indicate corresponding parts.

Our invention relates to improvements in locks which are particularly applicable to letter-boxes; and it consists in the combination of the several parts of the lock, as will be hereinafter more fully set forth.

In the accompanying drawings, K is the door of a letter-box, to which our improved lock is shown attached. J is the recess in the door for receiving the lock-case P, provided with an opening at its upper end for the passage of the end of the bolt. A is the bolt, provided with the yoke A′, having an opening, *d*, and inwardly-projecting ends *b b*, recessed on their rear faces at *a a*. *a′* is a recess near the lower end of the yoke, on its rear face, which receives the spring F in the downward movement of the bolt. *o o* are horizontal lugs, securely attached to the inner face of the lock-case, which embrace the rounded upper portion of the bolt, and guide it in its reciprocations. *n* is a plate, securely attached to the upper faces of the lugs *o o*, and bridging the space between them. The plate *n* serves as a seat for the coiled spring B, surrounding the upper end of the bolt, the tension of the spring being exerted to lock the bolt. C is the tumbler, the projecting rear end of which passes into a perforation in the back plate of the lock-case, the tumbler operating in the opening *d* in the yoke A′ of the bolt. I is a key-barrel, provided with a slot, G, which is prolonged through the lower front part of the tumbler, to receive the projecting end of the spring F, which prevents the tumbler from turning. D is a follower in the lower part of the key-barrel I, and E represents a coiled spring for throwing out the key. The upper part of the tumbler is curved, and provided with recesses *m m* and flanges *c c*, the recesses receiving the inwardly-projecting ends *b b* of the yoke A′ of the bolt. H (see Fig. 4) is the key by means of which the projecting end of the spring F is pressed down and out of the slot G in the tumbler, when the latter may be turned and the bolt operated. S is a spring, attached to the lower part of the lock-case, and pressing against the lower face of the yoke A′, so that when the downward pressure of the tumbler on the bolt is removed the bolt will be sprung into a locked position.

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

The bolt A, provided with the yoke A′, having opening *d* and inwardly-projecting ends *b b*, recessed at *a a*, in combination with the tumbler C, having the recesses *m m*, flanges *c c*, slot G, and key-barrel I, and the springs B S F, substantially as described, and for the purpose set forth.

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Witnesses:
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ROBERT D. SHOOK.