

JAMES BRADY.

Improvement in Door Locks.

No. 120,704.

Patented Nov. 7, 1871.

Fig. 1

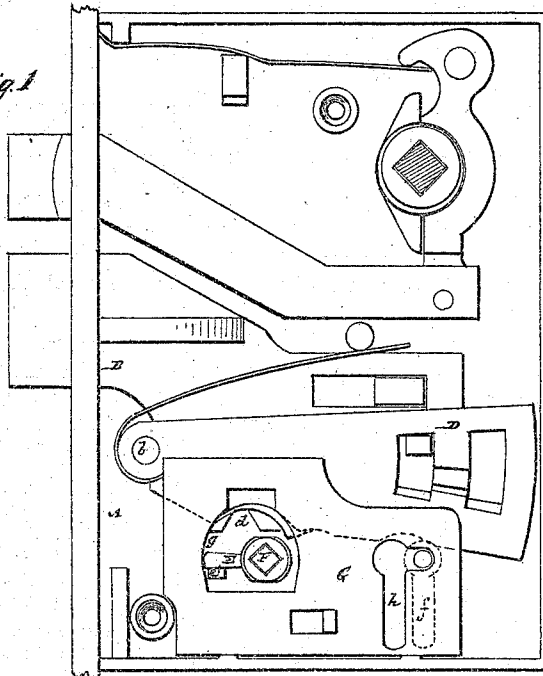


Fig. 2

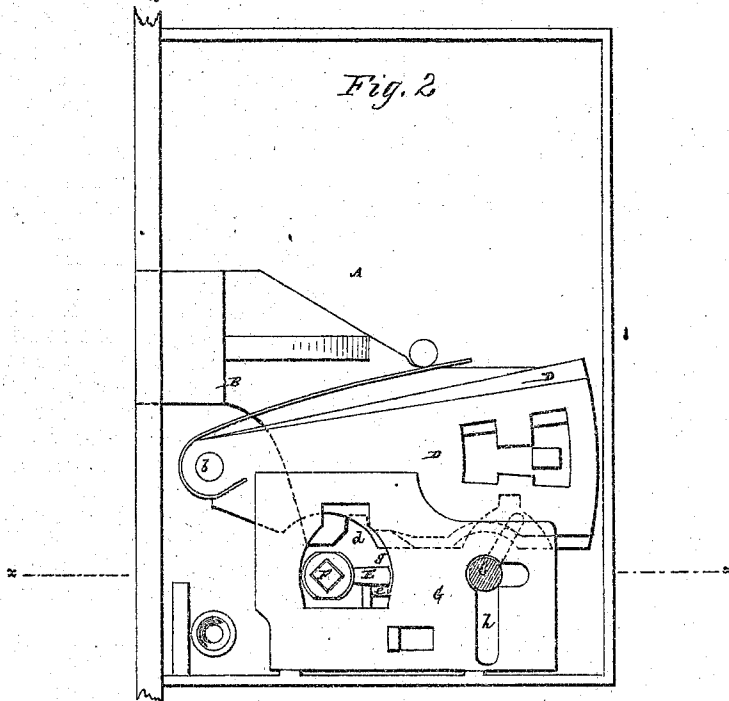
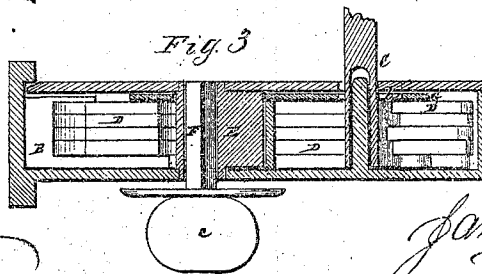


Fig. 3



Witnesses
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JAMES BRADY, OF BRANFORD, CONNECTICUT, ASSIGNOR TO THE BRANFORD LOCK WORKS, OF SAME PLACE.

IMPROVEMENT IN DOOR-LOCKS.

Specification forming part of Letters Patent No. 120,704, dated November 7, 1871.

To all whom it may concern:

Be it known that I, JAMES BRADY, of Branford, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Locks; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a face view of the interior of the lock, showing its bolt as shot by a follower, which is operated by turning a spindle from the inside of the door. Fig. 2 is a similar view of the lock, but showing the bolt as about to be shot by a key from the outside of the door. Fig. 3 is a transverse section at the line *x x* in Fig. 2, looking upward.

Similar letters of reference indicate corresponding parts throughout the several figures of the drawing.

This invention relates to locks applicable among other purposes or uses to apartments of different kinds, including hotel and state-rooms, and in which it is required to provide for the locking and unlocking of the door from both sides of it. The invention consists in a combination with the bolt and tumblers of the lock, operated from the outside by a key; of a follower, arranged to operate upon the same bolt and tumblers, and upon a key-hole guard, by means of a knob or thumb-spindle from the inside of the apartment.

In the accompanying drawing, A represents the case of the lock, which may be a mortise one, for insertion within the door of an apartment. Said lock may be fitted, if desired, as shown in Fig. 1, with a latch, in addition to its bolt, for operation by a knob-spindle from either side of the door. B is the bolt, which may be an ordinary sliding one, and is shot in or out from the outside of the door by a key, C, fitted to work tumblers D D. These tumblers, which are represented as pivoted at *b*, may be of any desired construction and number. E is a cam or follower, fitted so as to be capable of being turned by a spindle, F, through a knob or thumb-piece, *c*, from the inside of the apartment, and constructed and arranged so that in turning to the right or to the left it will operate the tumblers D D and slide the bolt B in or out, as required, by coming in contact with the back or front of a recess, *d*, in the under edge of the

bolt, or with horns corresponding thereto. When not being turned, said cam may rest upon one or other of two props, *e e'*, to hold it in position ready for action when required, and to keep it from being caught by or interfering with the bolt when the latter is being worked by the key. Said follower E with its spindle F are permanent attachments to the lock, and serve to lock and unlock the door from the inside of the apartment in like manner as the detachable key C operates the lock from the outside of the door, both devices acting upon the same bolt, but independently of each other. Furthermore, the follower E with its spindle F being permanent attachments, the same are always in place to operate the bolt from the inside of the apartment, and, in case of fire or any sudden emergency, are as readily operated as an ordinary latch, yet as effectually locking the door as the outside key does. To provide against unlocking the door from the outside after it has been secured, as described, from the inside, and to prevent tampering with the lock, I use a key-hole slide or cover, G, so constructed and arranged or combined with the follower E that, as the latter is turned to shoot the bolt B into lock, said slide is drawn over the key-hole *f* on the inside of the lock so as to close the key-hole, but, on the follower being turned to throw back the bolt, the key-hole is exposed for insertion of the key, if required. This is effected by causing the cam or follower E, when being turned, to act against the back or front edge of an opening, *g*, in the slide, and so put a key-passage, *h*, in the latter, in or out of line with the key-hole *f*. This key-passage *h* may be formed with a side branch at its top, to receive within it the stem on which the pipe of the key fits.

What is here claimed, and desired to be secured by Letters Patent, is—

The arrangement of the guard G, having apertures *g* and *h* relative to each other and to the spindle F and key-hole *f*, so that by operating the tumblers and shooting the bolt from the interior of the apartment by the cam E on the knob-spindle F the guard G shall be simultaneously operated to close the key-hole on the outside of the door, substantially as described, and for the purpose set forth.

Witnesses:

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