

J. BRADY.

Latch.

No. 108,098.

Patented Oct 11, 1870

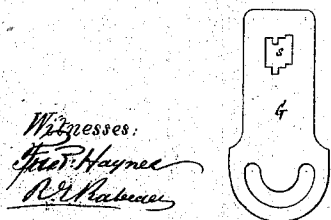
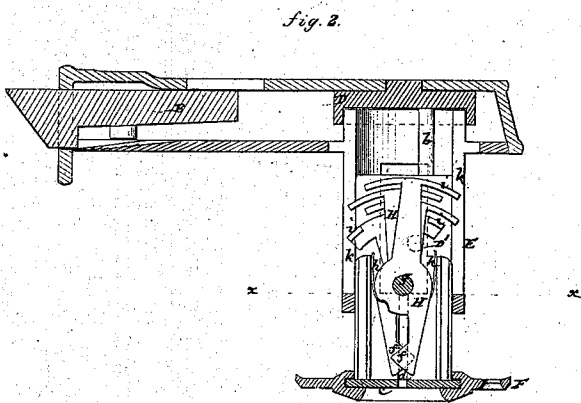
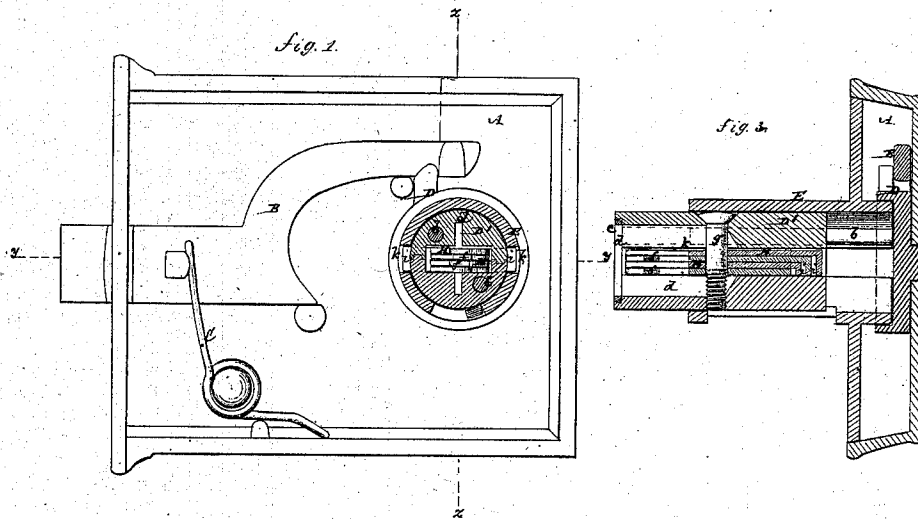


Fig. 5.

James Brady
per Thomas Corbridge
Attorney

Witnesses:
Geo. H. H. H. H.
R. H. H. H.

United States Patent Office.

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

Letters Patent No. 108,098, dated October 11, 1870.

IMPROVEMENT IN LOCKS.

The Schedule referred to in these Letters Patent and making part of the same

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 a new and useful Improvement in Locks, of which the following is a full, clear, and exact description, reference being had to the accompanying drawing forming part of this specification, and in which—

Figure 1 represents a sectional face view of a night-latch or lock, in illustration of my improvement, said section being taken as indicated by the line *xx* in fig. 2, with the plate of the lock-case removed;

Figure 2 is a longitudinal section of the same, taken as indicated by the line *yy* in fig. 1; and

Figure 3 is a transverse section of the same, taken as denoted by the line *zz* in fig. 1.

Figures 4 and 5 are face and edge views of a perforated key that may be used in connection with the lock.

Similar letters of reference indicate corresponding parts.

My invention, although here shown as applied to a night-latch, is applicable to various kinds of door and other locks, and consists in a follower so constructed or connected with the tumbler or key-operating portion of the lock that said tumbler-carrier and key-operating portion, revolving within the escutcheon, has secured to it an adjustable character or action with relation to the follower.

Although the invention is here shown as applied in connection with a perforated key, which I have made the subject of a separate application for Letters Patent, this invention is not restricted to any particular form of key or of tumblers to secure the operation of the follower by the key.

Referring to the accompanying drawing—

A represents a lock or latch-case, designed to be arranged on the inside of a door, and having a latch or bolt, B, under control of a spring, C, and follower, D.

This follower D, which turns to operate the bolt, is of a sectional construction, being made up, in part, of a sliding or adjustable body, D', that turns in common with the bolt-operating portion D, but is made capable of extension or contraction relatively to the latter or lock-case in which the latter works.

Such gear of the two portions D D' of the follower may be effected by a rod or rods, b, secured to the portion D, and passing freely through holes or bearings in the adjustable portion D'.

This latter portion D' is of cylindrical or other suitable shape, so as to admit of its turning within a hollow cylinder, E, fast to the plate of the lock, or other-

wise made stationary, and designed to project, more or less, through the door, according to the thickness of the latter; but, when not projecting wholly through the door, the aperture in which it fits should be extended through the balance of the door.

F is the escutcheon, intended to be arranged on the outside of the door, and connected with the outer end of the adjustable portion D' of the follower or key-hole plate c secured thereto, with freedom for said plate to turn therein.

The tumblers or works which operate the follower, through the agency of the key, are arranged within the adjustable portion D' of the follower, so that the expansion or contraction of the follower is immaterial as regards the fitting of the key, which may be of uniform length for all the changes of which the lock is capable, to adapt it to different thicknesses of doors.

Said tumblers or works may be of varied construction, and the key be differently shaped, to correspond, but the key G, as here shown, is made with an irregular-shaped perforation or perforations, s, in it, so that, when properly inserted through the key-hole d, (which is extended into the body D' of the follower,) and through between lips f of lever-like tumblers H, pivoted as at g, said tumblers, which are acted upon by springs, h, at their backs, are, by the entry of their lips within the perforation s of the key, made to line themselves so that the follower may be turned by the key, the lining of said tumblers consisting in such a position of them as will put double or transverse locking-wings i, with which they are provided, out of connection with slots, k k, in either side of the fast cylinder E.

It is preferred to make the adjustable body-portion D' of the follower in halves by a longitudinal division of said body, and to unite such sections by a screw, g, which serves also as the pivot for the tumblers.

The escutcheon F may be stamped to form a groove for the cap or key-hole plate c of the follower to turn in, as represented in fig. 2.

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

The arrangement of the bolt-operating portion D of the follower and body-portion D', carrying the tumblers H, and revolving within the independent escutcheon F, made adjustable relatively to the portion D, for operation substantially as and for the purpose herein set forth.

JAMES BRADY.

Witnesses:

J. E. RUSSELL,

JOHN J. BARTHOLOME.