

H. Feyh,

Lock.

No. 107,350.

Patented Sep. 13, 1870.

Fig. 7

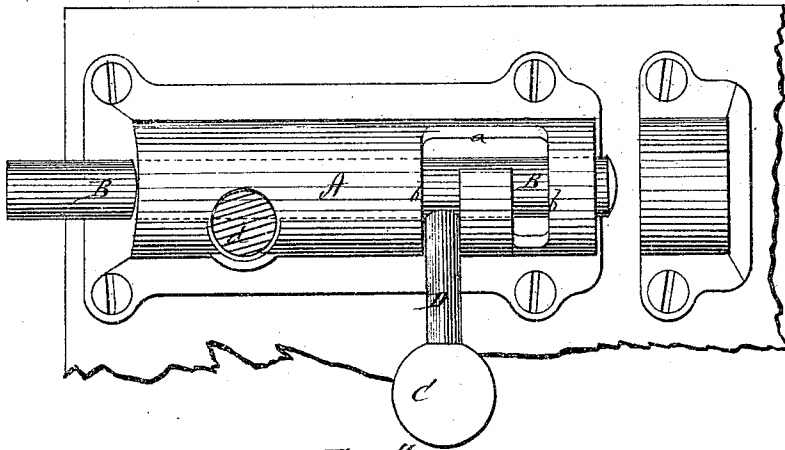
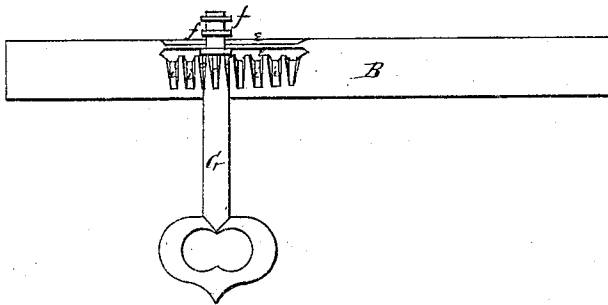


Fig. 3



Witnesses  
C. L. Grant,  
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per  
Alexander Mason

Atty.

# United States Patent Office.

HENRY FEYH, OF NEW YORK, N. Y.

Letters Patent No. 107,350, dated September 13, 1870.

## IMPROVEMENT IN LOCKING-BOLTS.

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, HENRY FEYH, of New York, in the county of New York and the State of New York, have invented certain new and useful Improvements in Bolt-Locks; and do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawing and to the letters of reference marked thereon, making a part of this specification.

The nature of my invention consists in the construction and arrangement of a "bolt-lock," as will be hereinafter fully set forth.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the annexed drawing, in which—

Figure 1 is a view of the lock, and

Figure 2 is a view of the bolt and key.

A represents the bolt-chamber, which is secured on the inside of the door, and provided at its outer end with a horizontal slot, *a*, from each end of which a vertical slot, *b*, extends downward, as shown in fig. 1.

Opposite the key-hole in the door there is formed, in the chamber A, a cylinder, *d*, projecting inward, as shown.

B represents the bolt, which is provided with a set of grooves, *e e*, and teeth *i i*, as shown in fig. 2, which give to it a rotating and endwise motion when the key is applied.

C is a knob, with spindle D screwed into the bolt B, and moving in the slots *a b* on the chamber A.

The key G is, near its end, provided with a set of circumferential grooves, which form rings or flanges, *f f*, and also with notches or grooves, *o o*, running lengthwise on the key, for a suitable distance, immediately back or outside of the flanges *f f*.

The bolt-lock being put together, the key is inserted into the key-hole and pressed as far forward as it will go, which turns the bolt so that the stem D will be raised up out of the vertical groove *b* into the horizontal groove *a* on the chamber A. The rings or

flanges *f f* on the key, fitting into and operating in the grooves *e e* on the bolt, cause this rotating motion of the bolt. Then, by turning the key either to the right or left, as the case may be, the grooves *o o* on the key fit over teeth *i i* on the bolt, so as to give the same the necessary endwise motion. In either case the key is turned until there comes a stop, caused by the stem D striking the end of the horizontal slot *a*. The key is then pulled out, when the knob C, falling down to bring the stem D in one of the vertical slots *b*, turns the bolt so as to carry the teeth, which give it the endwise motion, out of sight, and secures the lock from being picked, as may be readily ascertained by glancing into the key-chamber, there being but one of the grooves *e* in sight.

The construction of the key-chamber is such with the chamber of the bolt that no instrument, excepting its proper key, can be inserted to change the position of the bolt either way.

Having thus fully described my invention,

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

1. The bolt B, provided with grooves *e e* and teeth *i i*, to give the bolt a rotating and endwise motion, substantially as and for the purposes herein set forth.

2. In combination with the bolt B, having grooves *e e* and teeth *i i*, as described, the knob C and stem D, attached to the bolt, substantially as and for the purposes herein set forth.

3. The combination of the bolt B, with the grooves *e e* and teeth *i i*, and the key G, with its flanges *f f*, and grooves *o o*, substantially as and for the purposes herein set forth.

In testimony that I claim the foregoing, I have hereunto set my hand and seal this 30th day of June, A. D. 1870.

HENRY FEYH. [L. s.]

Witnesses:

HUGH HAWTHORN,  
J. MOELL, Jr.