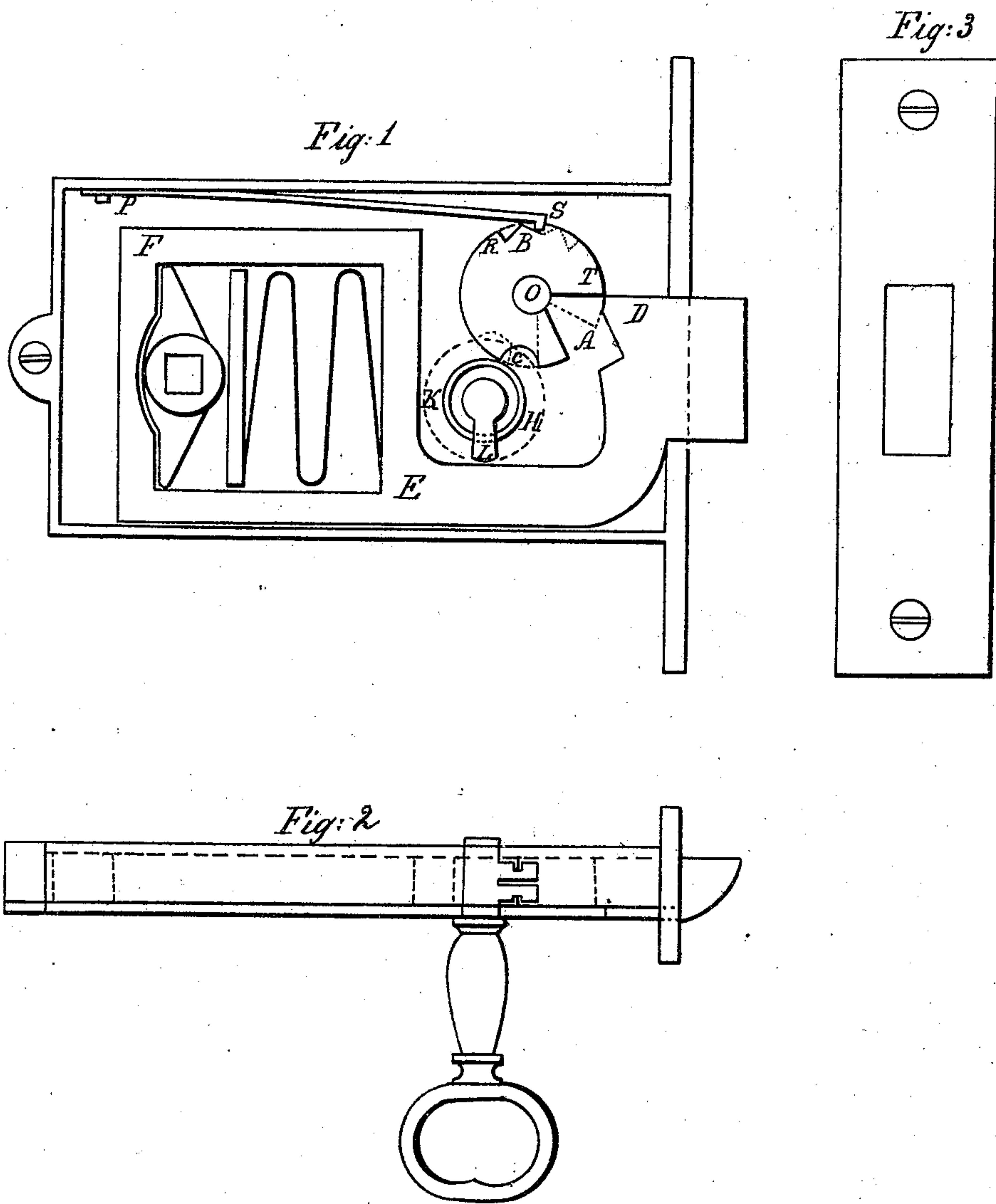


# C. S. Gay, Latch.

No. 413

Patented Sept 28, 1837.



Witnesses  
Geo. L. Sawyer  
Samuel Shepherd

Inventor  
Charles S. Gay

# UNITED STATES PATENT OFFICE.

CHARLES S. GAY, OF NASHUA, NEW HAMPSHIRE.

## MORTISE-LATCH FOR FASTENING DOORS.

Specification of Letters Patent No. 413, dated September 28, 1837.

*To all whom it may concern:*

Be it known that I, CHARLES S. GAY, of Nashua, in the county of Hillsborough and State of New Hampshire, have invented a new and Improved Mode of Fastening Door-Latches, called the "Mortise-Latch;" and I do hereby declare that the following is a full and exact description of the same.

The said invention or improvement is designed for mortise latches of any size and it consists of a circular tumbler—which I term a rotary or revolving guard—of a thickness nearly equal to the space between the plates of the lock and revolving upon gudgeons one gudgeon playing in each plate. This tumbler or guard when in one position confines the bolt, a lip or shoulder of the bolt upon its being attempted to be drawn back striking against the tumbler or guard so that it cannot be drawn back and the door is locked. Upon turning the tumbler or guard by means of a key into another position, the bolt may be drawn back, the lip or shoulder of the bolt passing into a groove or notch cut in the tumbler for that purpose.

In the accompanying drawings to which reference is made and which are to be considered a part of this specification, Figure 1 represents the lock with one plate removed so as to give a view of the bolt, tumbler or guard, springs, &c., the parts being in the positions which they occupy when the bolt is at liberty to be drawn back and the door is unlocked.

A B C is the circular tumbler or guard of which O is the center, A being the groove or notch into which the lip D of the bolt

passes as it is drawn back. The tumbler is held in its place by the spring S P. When the tumbler or guard is in this position the bolt may be drawn back by the knob or in common mortise latches and the door opened. To lock the door the key, the pod of which is represented at L is turned from L through H and C to K and as the key turns the pod, striking the shoulder in the notch C carries the tumbler round until the lip of the spring S strikes the shoulder in the notch of the tumbler at R. The tumbler is thus brought into the position indicated by the dotted lines, the part of the tumbler at T being brought down against the lip of the bolt and in attempting to draw the bolt the lip D strikes against the tumbler and the bolt is held in its place and the door locked. To unlock the door the key is turned in the other direction from L through K & C to H and the pod of the key striking the other shoulder of the notch C carries the tumbler back to its first position.

Fig. 2 gives a view of the edge of the lock and Fig. 3 a view of the end and plate in which the bolt plays.

What I claim as my invention and desire to secure by Letters Patent is—

The circular tumbler or as I term it—rotary guard and its application in the manner above specified to fastening and unfastening the bolt of any lock or latch.

Dated this 19th July, 1837.

CHARLES S. GAY.

Witnesses:

GEO. Y. SAWYER,  
SAMUEL SHEPPERD.