

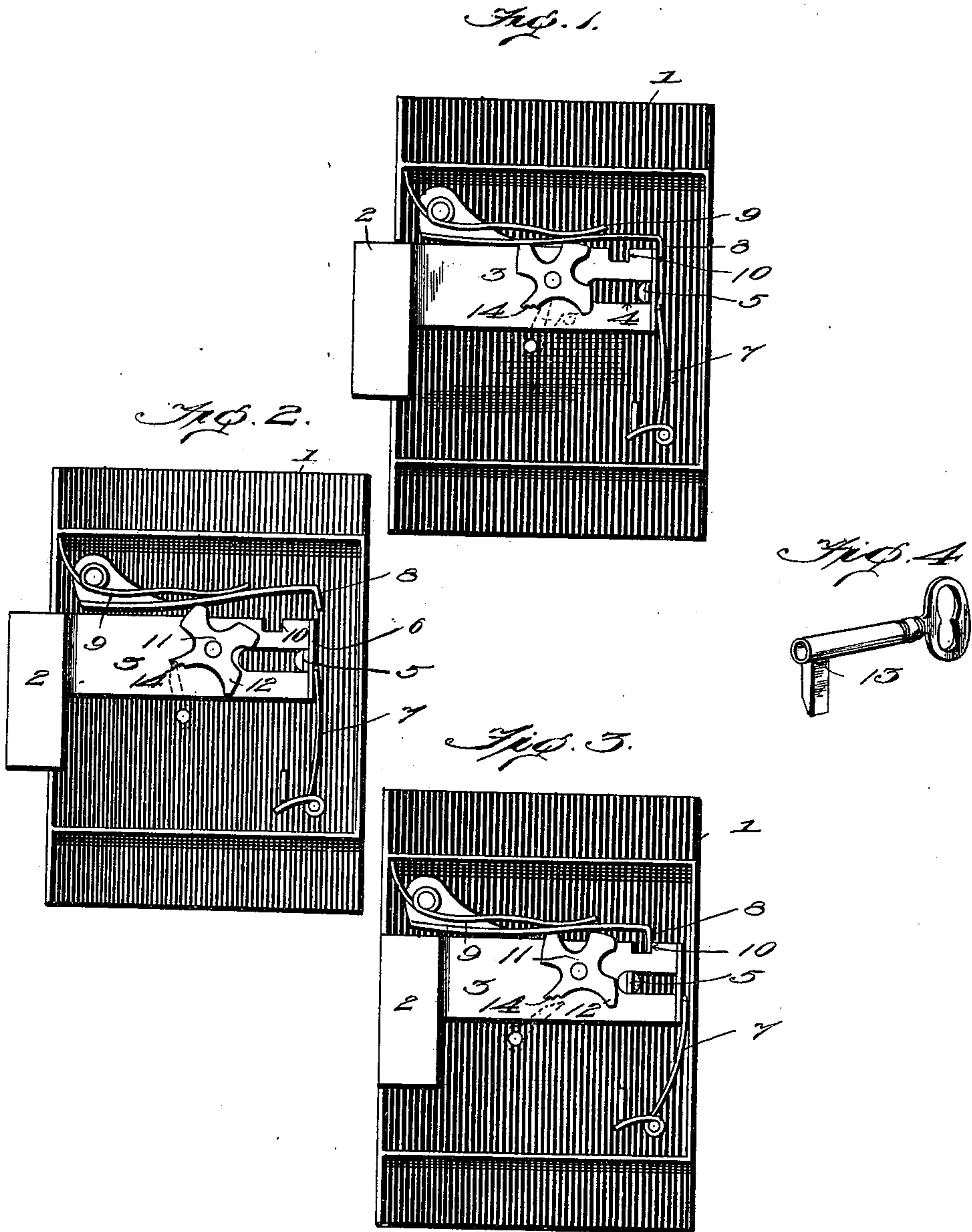
No. 672,181.

W. SCHLUETER.  
LOCK.

Patented Apr. 16, 1901.

(No Model.)

(Application filed Sept. 8, 1900.)



Witnesses

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# UNITED STATES PATENT OFFICE.

WILLIAM SCHLUETER, OF YONKERS, NEW YORK.

## LOCK.

SPECIFICATION forming part of Letters Patent No. 672,181, dated April 16, 1901.

Application filed September 8, 1900. Serial No. 29,395. (No model.)

*To all whom it may concern:*

Be it known that I, WILLIAM SCHLUETER, a citizen of the United States, residing at Yonkers, in the county of Westchester and State of New York, have invented new and useful Improvements in Locks, of which the following is a specification.

This invention relates to new and useful improvements in locks, especially adapted for use on trunks, wardrobes, chests, padlocks, &c. Its primary object is to provide a lock of this character having a rotary tumbler provided with arms adapted to be contacted successively by a key. One of these arms is so constructed that the proper key will engage the end thereof and permit the retraction of the sliding bolt by reversing said key.

To these ends the invention consists in the novel construction and combination of parts hereinafter more fully described and claimed, and illustrated in the accompanying drawings, showing the preferred form of my invention, and in which—

Figure 1 is an elevation of the mechanism of the lock, showing the first position of the key in dotted lines. Fig. 2 is a similar view showing in dotted lines the key in engagement with the tumbler prior to the retraction of the bolt. Fig. 3 shows the position of the mechanism when released by the key, and Fig. 4 is a detailed view of the key.

Referring to said figures by numerals of reference, 1 is a casing having a bolt-head 2, which is adapted to project therefrom and is secured at one end of a slide 3, having a slot 4 in the end thereof, adapted to receive a pin 5, which serves to guide the same. An end plate 6 is secured to the slide and is contacted by a spring 7, which holds the bolt normally projected. Pivoted within the casing above the slide is a catch 8, which is adapted to normally extend over the inner end of the slide and is held in such position by a spring 9. A notch or recess 10 is formed within the upper edge of the slide and is adapted to receive the catch 8 when said slide is retracted. The slide will thus be held in such position. A tumbler 11 is pivoted upon the slide and is provided with three or more arms 12, as shown. One of these arms lies within the path of a key 13 at all times, and as said key is revolved in either direction they will be swung upward successively, causing the catch 8

to raise and lower. One of the arms 12 is shorter than the remainder and is provided with shoulders 14 in the end thereof. When the key 13 contacts with the inner edge of this arm, it will not raise the same sufficiently to throw the upper arm past the pivot of the tumbler. By turning the key slowly it will become seated upon one of the shoulders 14, and when motion is reversed the bolt will be retracted until the recess 10 will arrive below the catch 8. The key will then escape from its arm and the spring 9 will force the catch 8 downward into its recess and at the same time turn the tumbler into the positions shown in Figs. 1 and 3. When it is desired to release the bolt, it is merely necessary to throw the arm 12 in either direction, thereby raising the catch.

In the foregoing description I have shown the preferred form of my invention; but I do not limit myself thereto, as I am aware that modifications may be made therein without departing from the spirit or sacrificing the advantages thereof, and I therefore reserve the right to make all such changes as fairly fall within the scope of my invention.

Having thus fully described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. The combination with a sliding bolt having a notch therein; of a spring-controlled catch adapted to engage said notch or the end of the bolt, a revoluble tumbler upon the bolt, arms thereto each adapted to contact with, and raise the catch, and shoulders upon one of the arms adapted to be engaged by a key.

2. The combination with a sliding bolt having a notch therein; of a spring-controlled catch adapted to engage said notch or the end of the bolt, a revoluble tumbler upon the bolt, arms thereto each adapted to contact with the catch and raise the same out of engagement with the bolt, shoulders upon one of the arms adapted to be engaged by a key, a spring for holding the bolt normally projected, and a guide for said bolt.

In testimony whereof I affix my signature in presence of two witnesses.

WILLIAM SCHLUETER.

Witnesses:

CHARLES BECHLE,  
WM. H. SCHLUETER.