

No. 658,715.

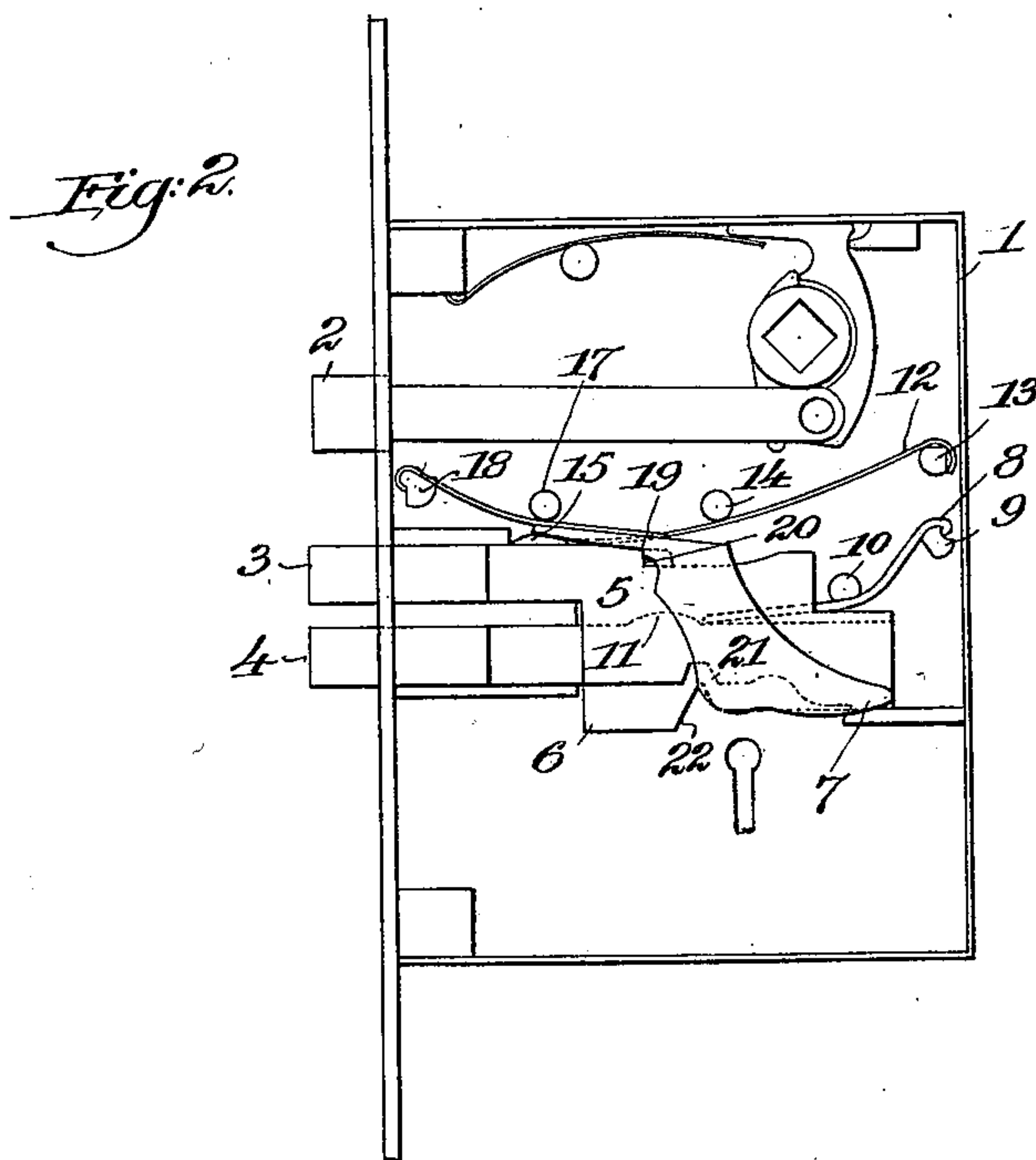
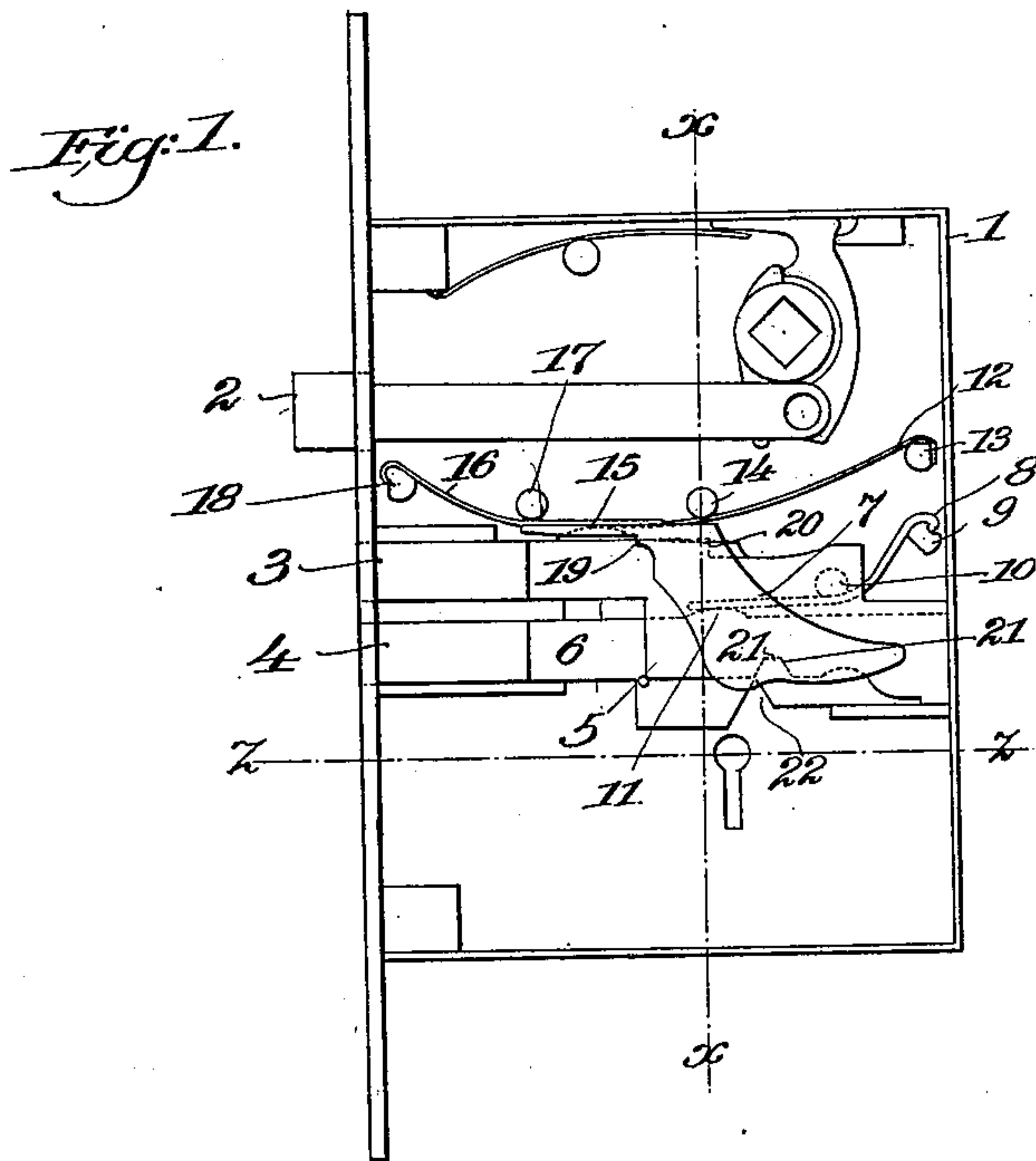
Patented Sept. 25, 1900.

E. R. PICKARD.
LOCK.

(Application filed May 23, 1900.)

(No Model.)

2 Sheets—Sheet 1.



Witnesses:
Horace Van Euren
Fred O. Fish

Inventor:
Edward R. Pickard
by his Attorney
Benjamin Phillips

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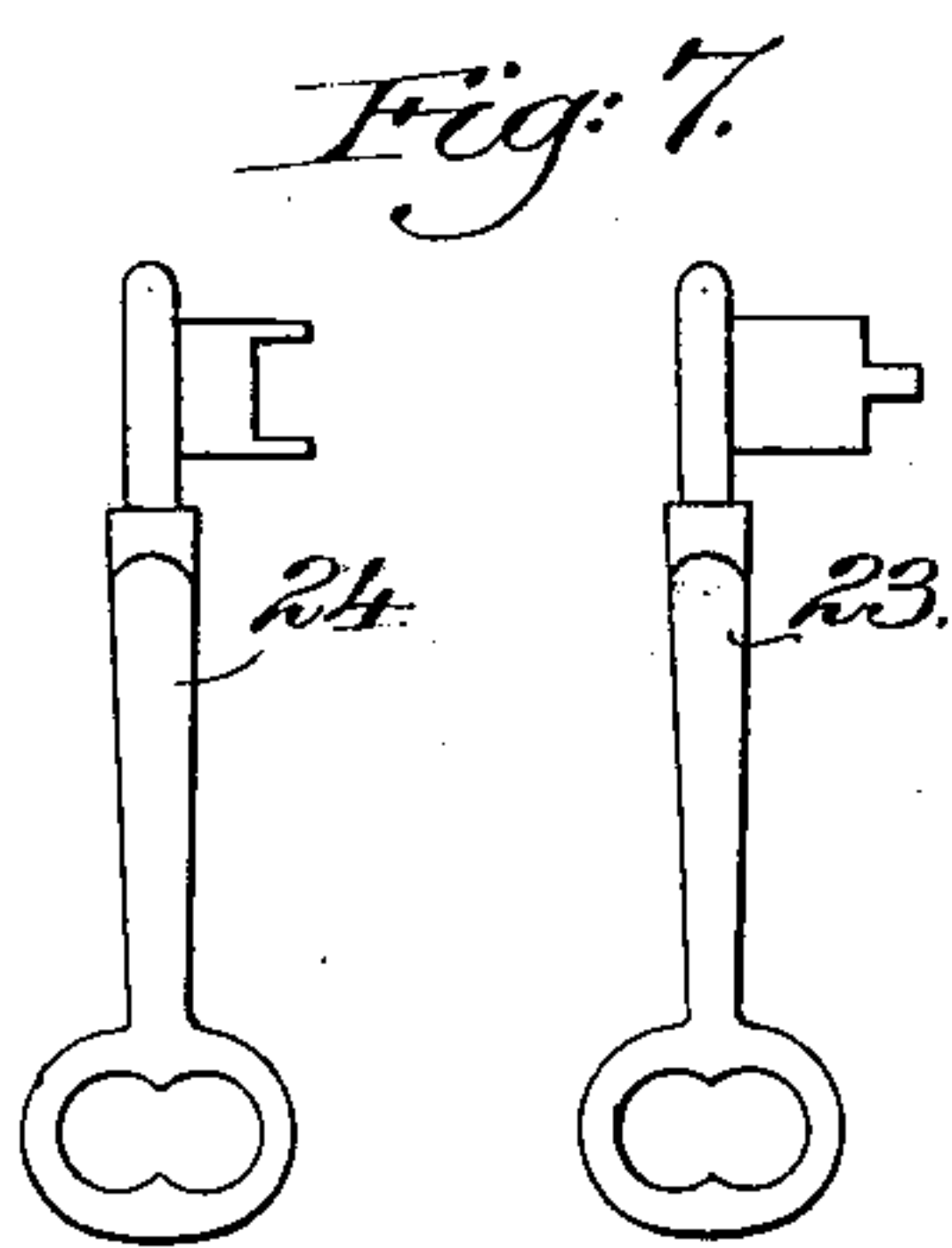
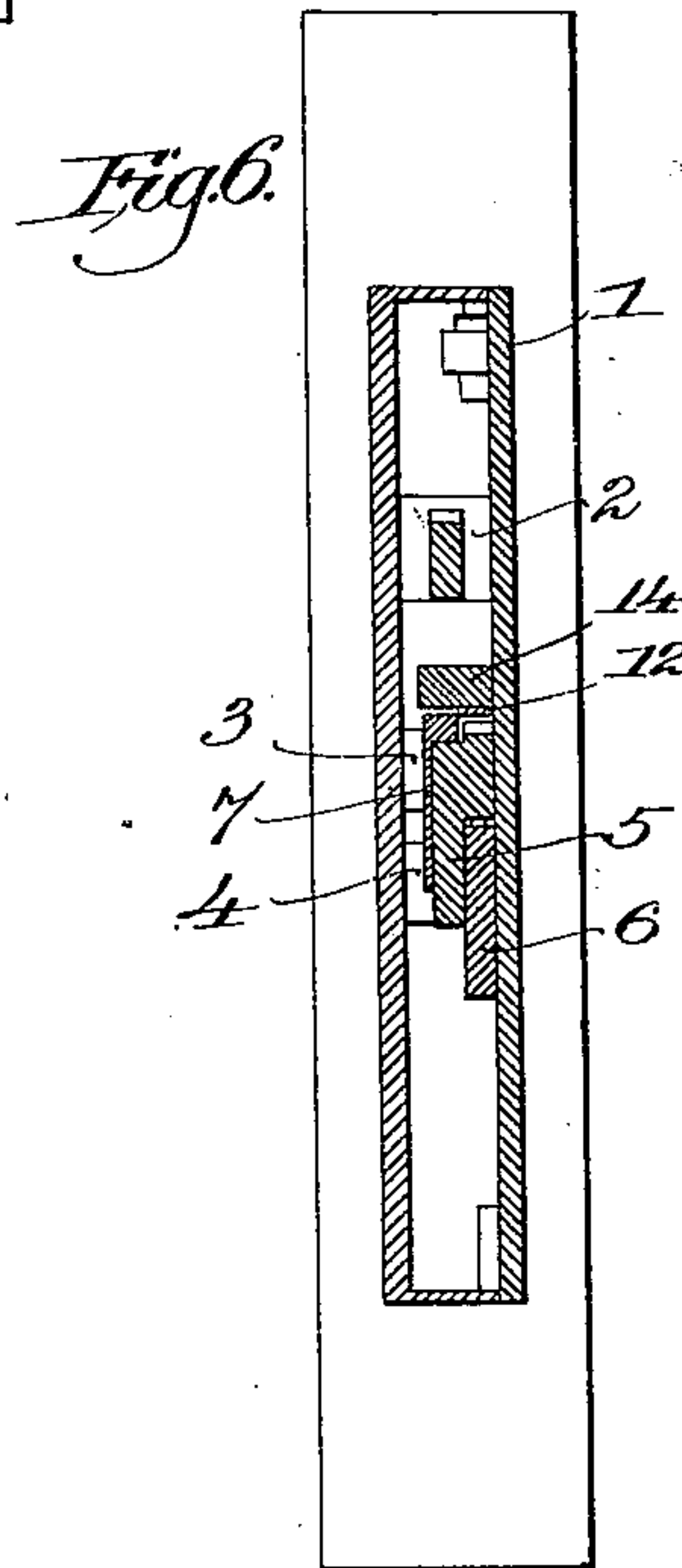
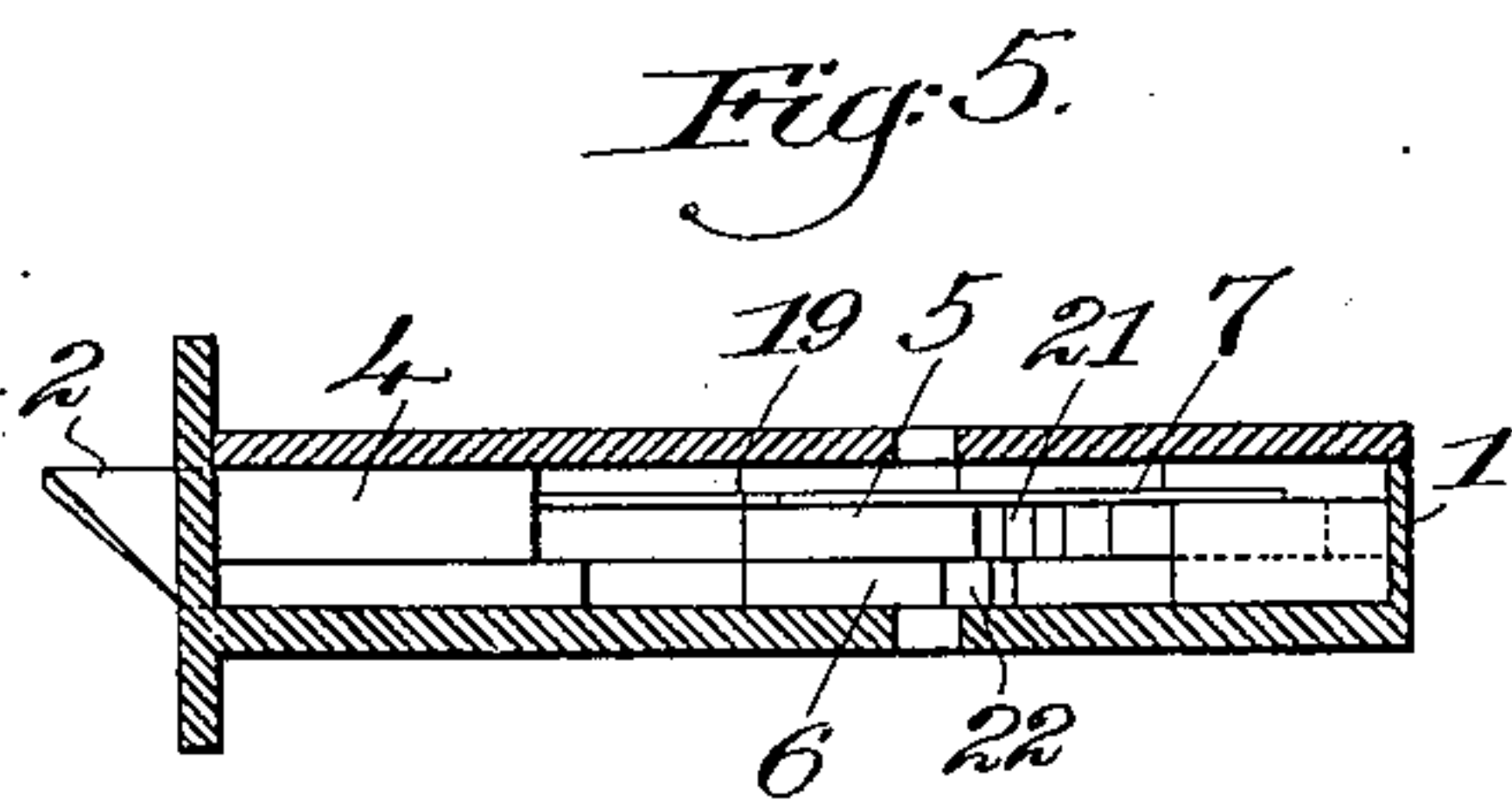
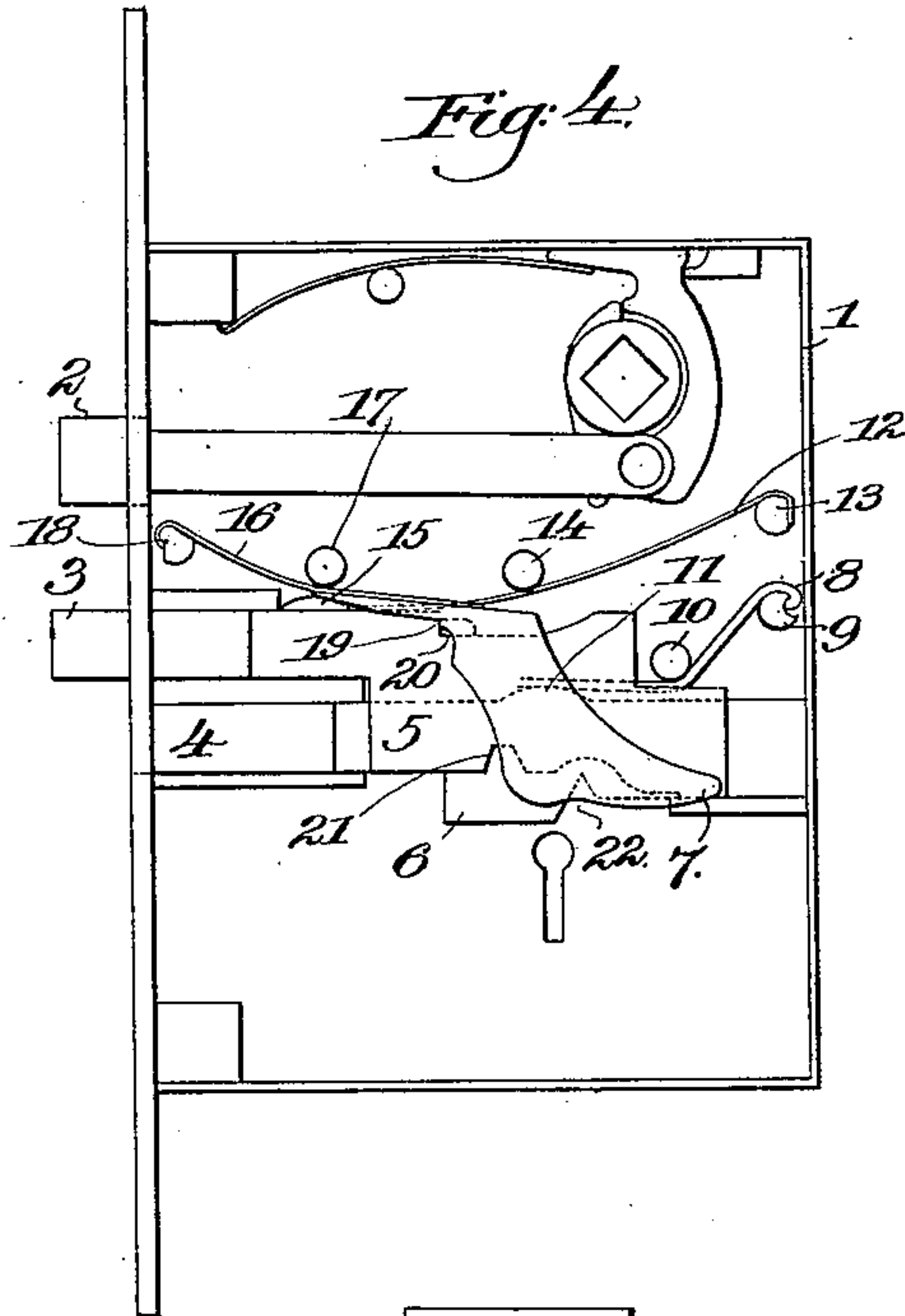
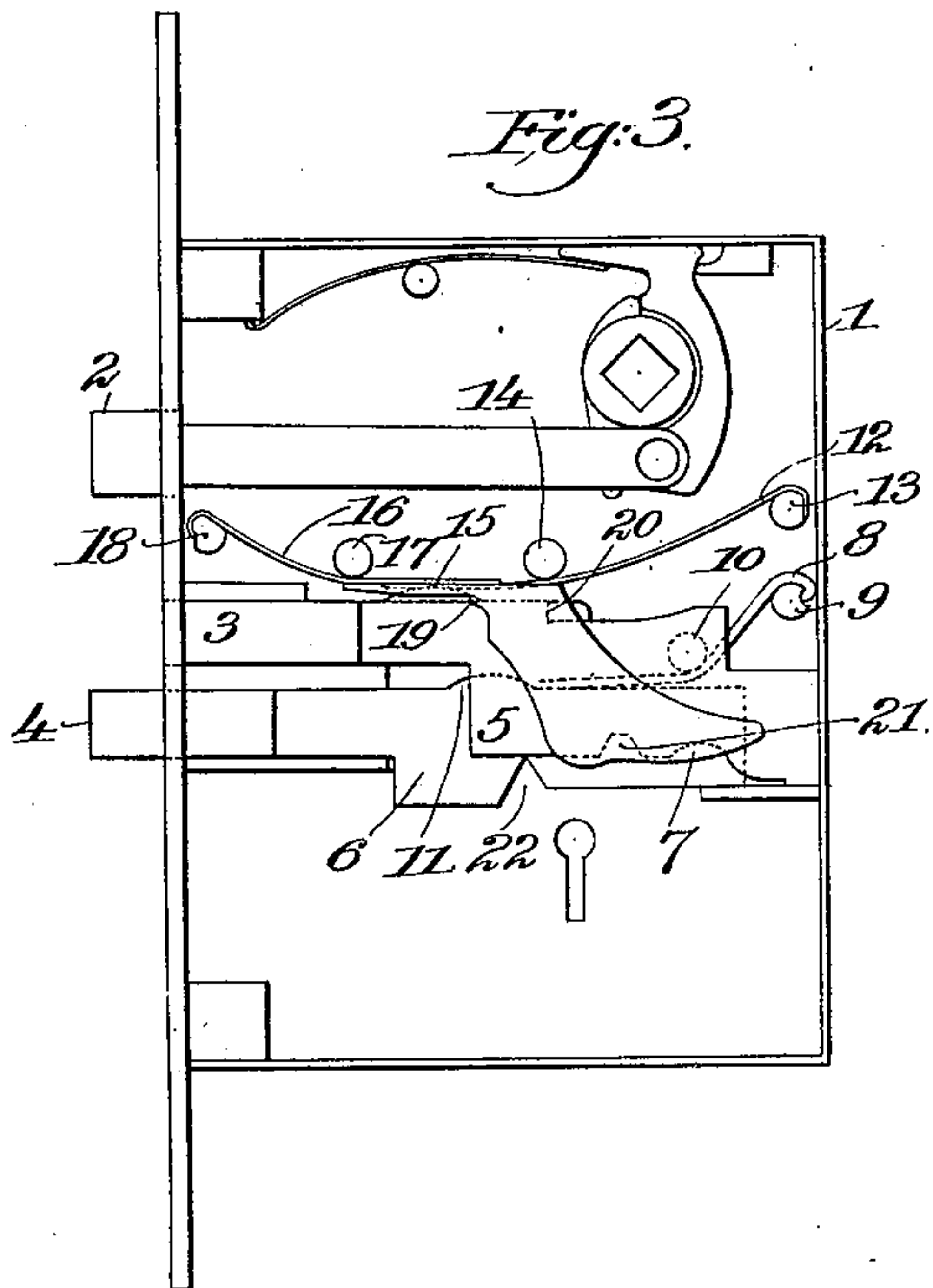
E. R. PICKARD.

LOCK.

(Application filed May 23, 1900.)

(No Model.)

2 Sheets—Sheet 2.



Witnesses.
Horace Van Euren
Fred O. Fish

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UNITED STATES PATENT OFFICE.

EDWARD R. PICKARD, OF NEWBURYPORT, MASSACHUSETTS, ASSIGNOR OF TWO-THIRDS TO ISAAC POOR, JR., OF SAME PLACE, AND E. PERLEY FOWLE, OF TAPLEYVILLE, MASSACHUSETTS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 658,715, dated September 25, 1900.

Application filed May 23, 1900. Serial No. 17,663. (No model.)

To all whom it may concern:

Be it known that I, EDWARD R. PICKARD, a citizen of the United States, residing at Newburyport, in the county of Essex and State of Massachusetts, have invented certain new and useful Improvements in Locks; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

The present invention relates to locks, and more particularly to door-locks having two bolts and two keys.

The object of the present invention is to provide a lock of the above class so constructed and arranged that one key will actuate both bolts, while the other key will actuate but one.

To the above end the present invention consists in the combinations hereinafter described and claimed.

In the drawings illustrating the preferred form of my invention, Figure 1 shows my improved lock in side elevation, the cover-plate having been removed, both bolts being retracted or unlocked. Fig. 2 shows the same with both bolts thrown or locked. Fig. 3 shows the lower bolt locked and upper bolt unlocked. Fig. 4 shows the upper bolt locked and lower bolt unlocked. Fig. 5 is a sectional view on line *z z*, Fig. 1. Fig. 6 is another sectional view on line *x x*, Fig. 1; and Fig. 7 shows the two keys used to actuate my improved lock.

In the usual form of door-lock—such, for example, as is used on the outside door of dwelling-houses—the latch and bolt are operated by their respective keys in their respective keyholes. In my improved lock, however, there are two bolts and two keys, but only one keyhole, the arrangement being such that one key will operate both bolts simultaneously, while the other key will operate but one.

In the illustrated embodiment of my invention 1 represents a lock-casing within which are slidingly mounted the latch 2 and the bolts 3 and 4. The latch 2 may be operated in the usual manner, as shown, and constitutes no part of my invention.

In the preferred form of my invention the body portions 5 and 6 of bolts 3 and 4, respectively, are of reduced thickness, as shown in Figs. 5 and 6, so that portion 5 may project over and slide upon portion 6, the combined thickness of these parts being no greater than that of the head of the bolt. A spring 8, bearing upon the pins 9 and 10, engages the projection 11 on the top of bolt 4, falling behind said projection when the bolt is thrown in order to prevent the latter from being retracted by any means other than the key. Another spring 12, bearing upon the pins 13 and 14, engages the projection 15 on bolts 3, performing the same office for said bolt.

In order to protect more completely bolt 3, I have provided what I call a "protector-plate" 7, secured to the spring 16 and resting upon the top and side of portion 5 of bolt 3. A shoulder 19 on said plate is arranged to engage the shoulder 20 on bolt 3 when the latter has been thrown, the spring 16, bearing upon the pins 17 and 18, maintaining these parts in engagement until the plate 7 shall have been lifted by the rotation of the proper key in the keyhole. Notches 21 and 22 are formed in the under side of bolts 3 and 4, respectively, to receive the key-wards, and by means of the same the bolts are thrown and retracted. The keys 23 and 24, as shown in Fig. 7, are so formed that the key 23 will throw or retract both bolts simultaneously. Key 24 will actuate bolt 4 only, irrespective of the position of bolt 3.

The operation of my improved lock is as follows: If key 23 is inserted in the lock and turned, the parts being in the position shown in Fig. 1, both bolts will be thrown, the shoulder on plate 7 falling behind the shoulder on bolt 3. Should key 24 be used instead of key 23, bolt 4 alone will be thrown, as shown in Fig. 3, and if it should now be desired to lock both bolts bolt 4 must first be unlocked by key 24, when both may be thrown by key 23. Both bolts may be retracted by key 23, the plate 7 first being lifted to disengage shoulders 19 and 20 on plate 7 and bolt 3, respectively. Should key 24 be used when both bolts are thrown, only bolt 4 will be retracted, and this must again be

locked by the same key before bolt 3 can be unlocked by key 23.

I am aware that locks have been constructed having two bolts and one key, a peculiar
5 manipulation of the latter being necessary to cause it to open the lock. I am also aware that it is old in the art to provide a lock having a single bolt and two keys, both of which must be used to unlock the same; but, so far
10 as I know, I am the first to provide a lock having two bolts and two keys, one of which shall actuate both bolts, while the other shall actuate but one.

Having thus described my invention, I
15 claim as new and desire to secure by Letters Patent of the United States—

1. A lock, having, in combination, two bolts and two keys, one key actuating only one bolt and the other key actuating both bolts
20 in both directions, substantially as described.

2. A lock, provided with a single keyhole, having, in combination, two bolts and two keys, one key actuating only one bolt and the other key actuating both bolts in both di-
25 rections, substantially as described.

3. A lock, provided with one keyhole, having, in combination, two bolts, the key-engaging portions of which lie side by side, and two keys, the one key constructed to engage
30 and actuate one bolt and not to engage or actuate the other bolt, and the other key constructed to engage and actuate in both directions both bolts simultaneously, substantially as described.

35 4. A lock, provided with one keyhole, having, in combination, two bolts, arranged one

above the other and with their key-engaging portions overlapping each other, and two keys constructed, respectively, the one to engage and actuate one bolt, and the other to engage
40 and actuate both bolts in both directions, substantially as described.

5. A lock, provided with one keyhole, having, in combination, a plurality of bolts arranged one above the other, the key-engaging
45 portions of which lie adjacent to each other, a key constructed to engage and actuate one bolt and another key constructed to engage and actuate all the bolts in both directions, substantially as described. 50

6. A lock, provided with one keyhole, having, in combination, a plurality of bolts arranged one above the other, the key-engaging portions of which lie adjacent to each other, one of said bolts being provided with a shoul-
55 der, a spring-pressed protector constructed to engage the shoulder and hold the bolt in its locked position, and a plurality of keys, one of which is constructed to engage and operate all the bolts in both directions, and to
60 lift the protector, substantially as described.

7. A lock having, in combination, two bolts and two keys, one key actuating only one bolt and the other key actuating in both di-
65 rections both bolts simultaneously, substantially as described.

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

EDWARD R. PICKARD.

Witnesses:

R. JACOBY,

J. W. GREENOUGH, Jr.