

No. 767,067.

PATENTED AUG. 9, 1904.

H. LANDSBERG.

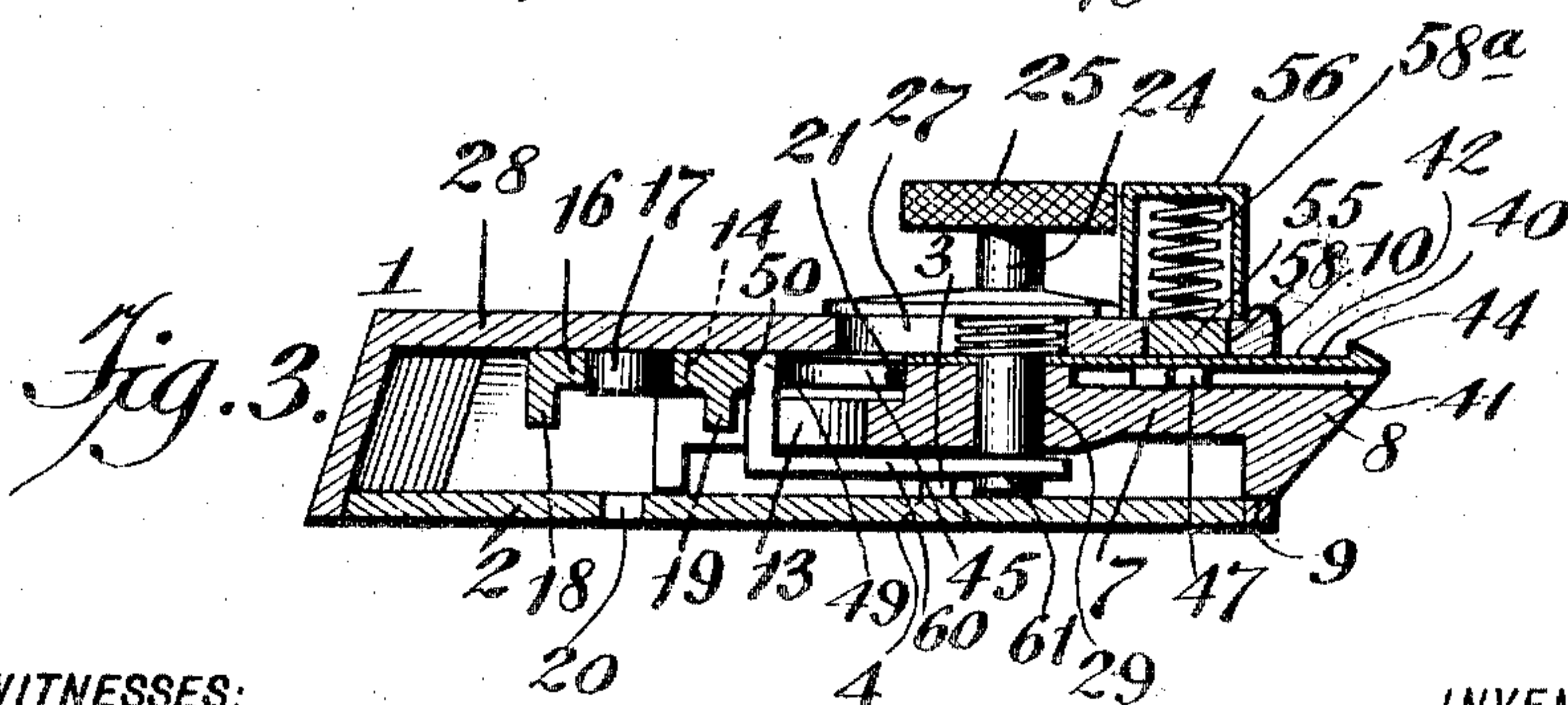
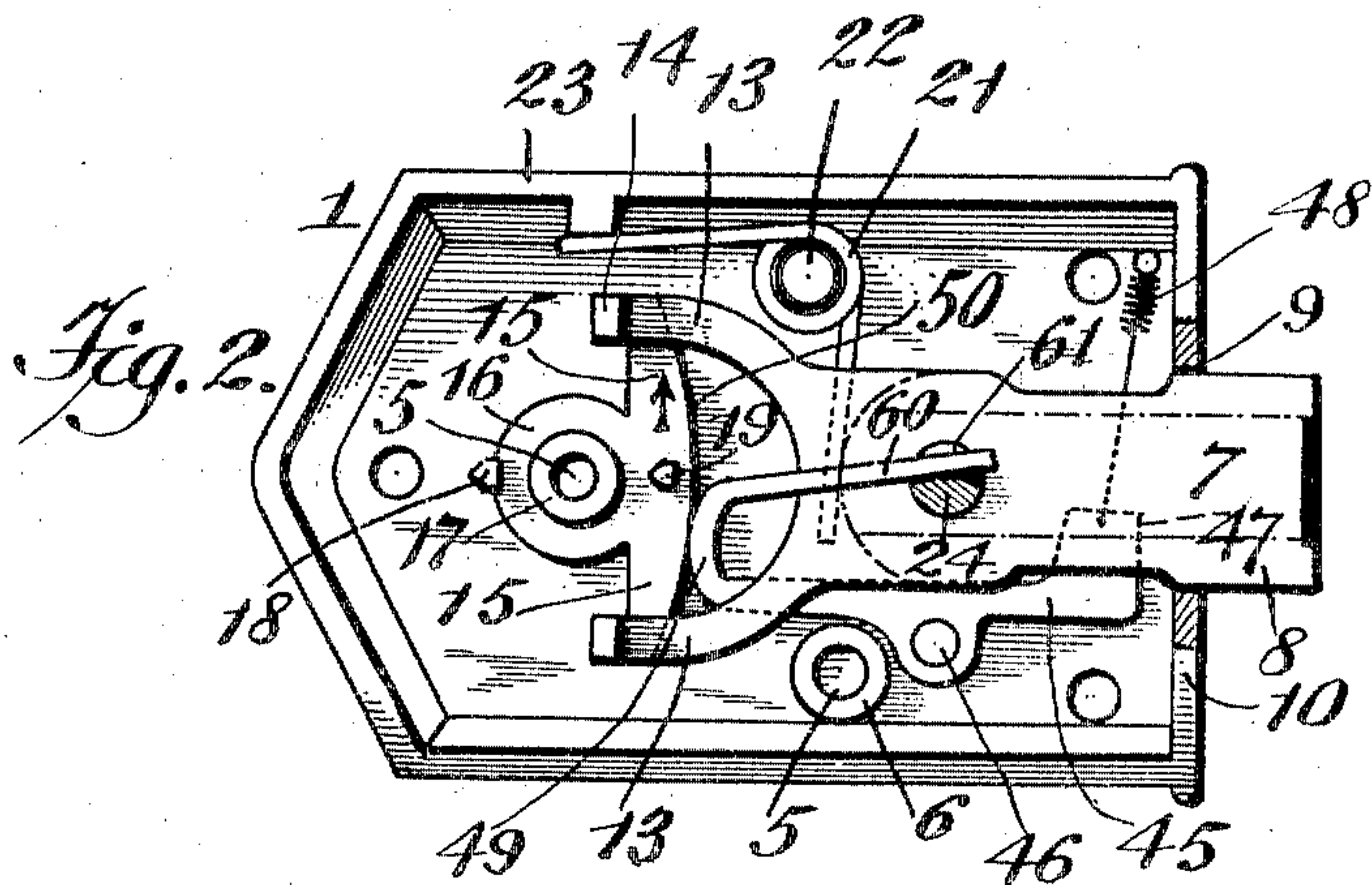
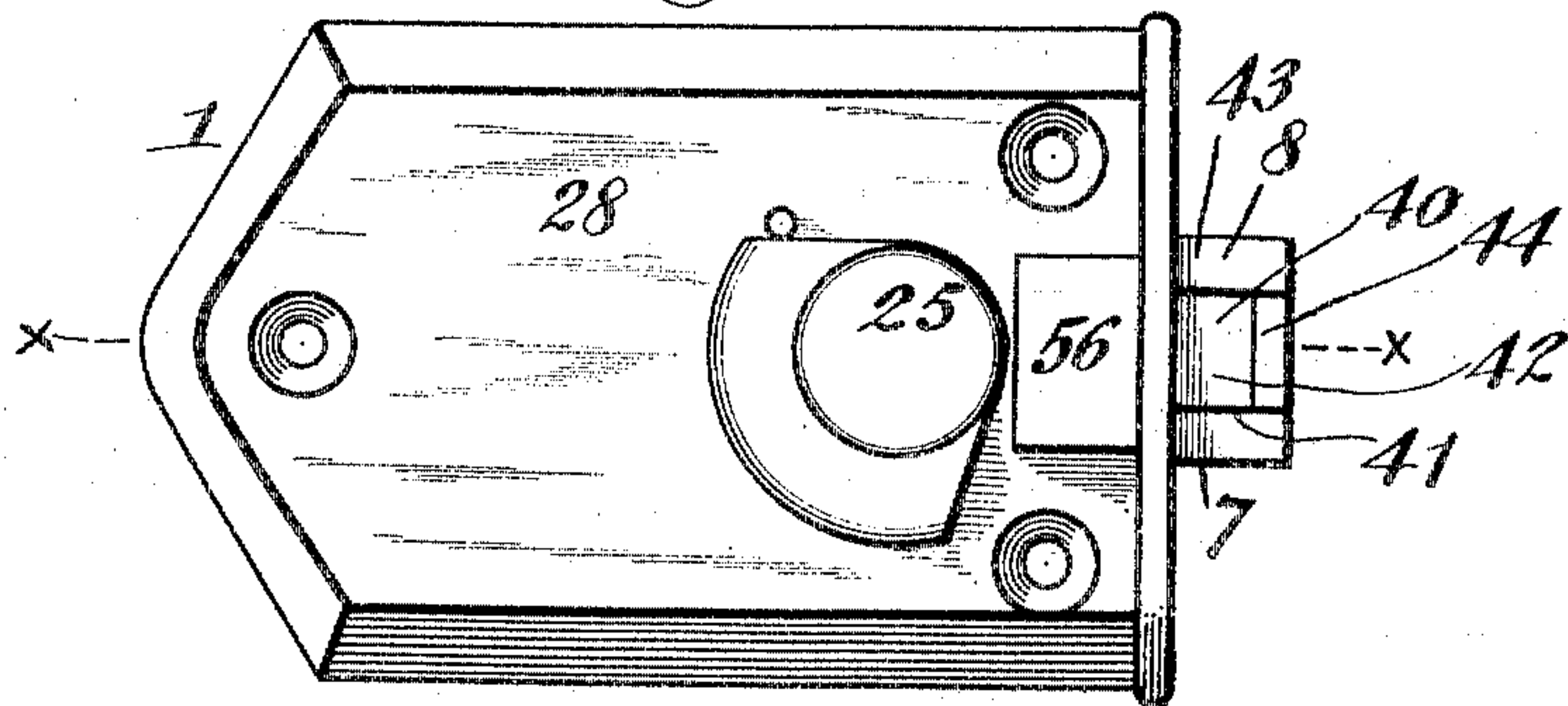
LOCK.

APPLICATION FILED SEPT. 4, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

Fig. 1.



WITNESSES:

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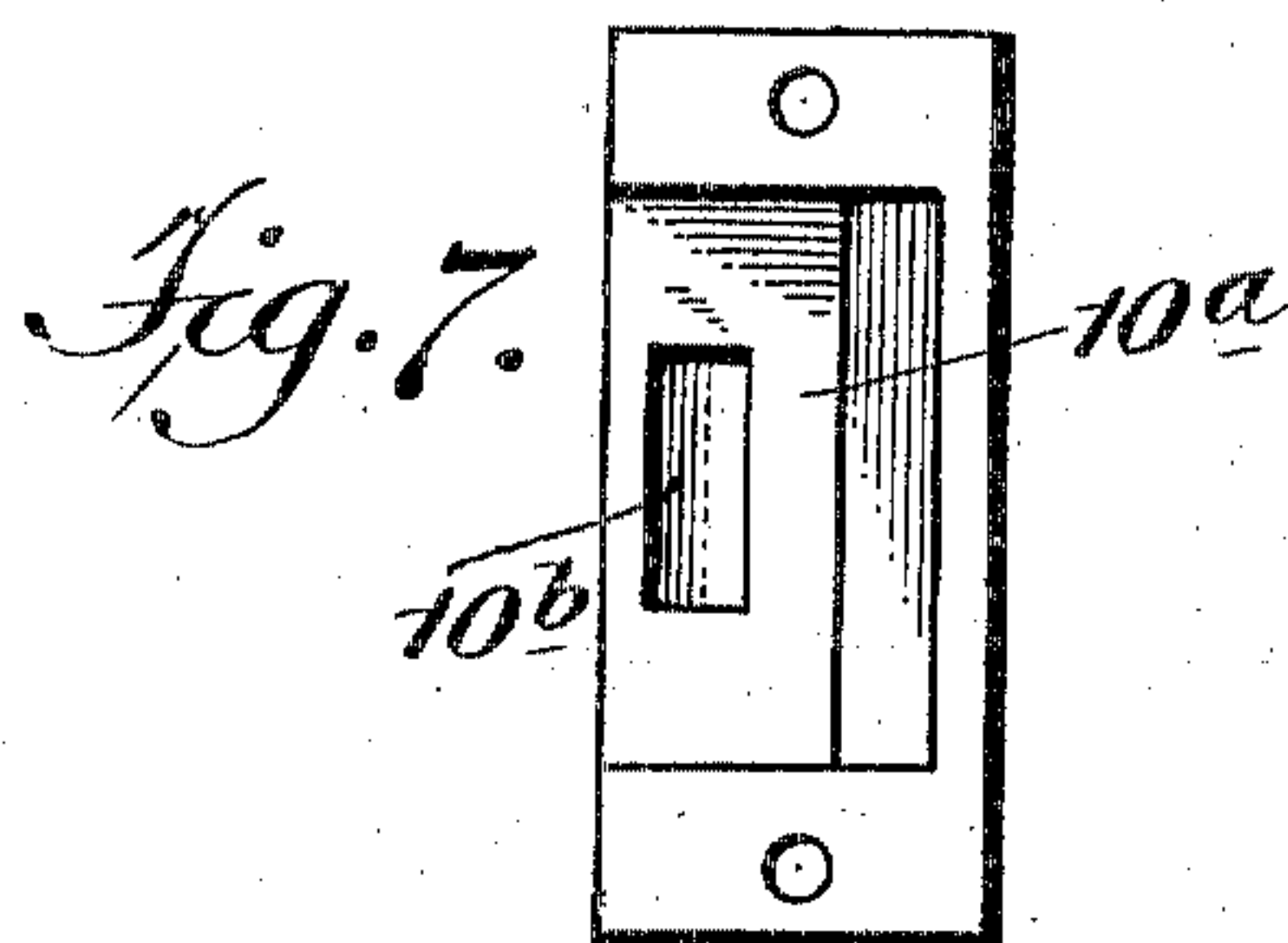
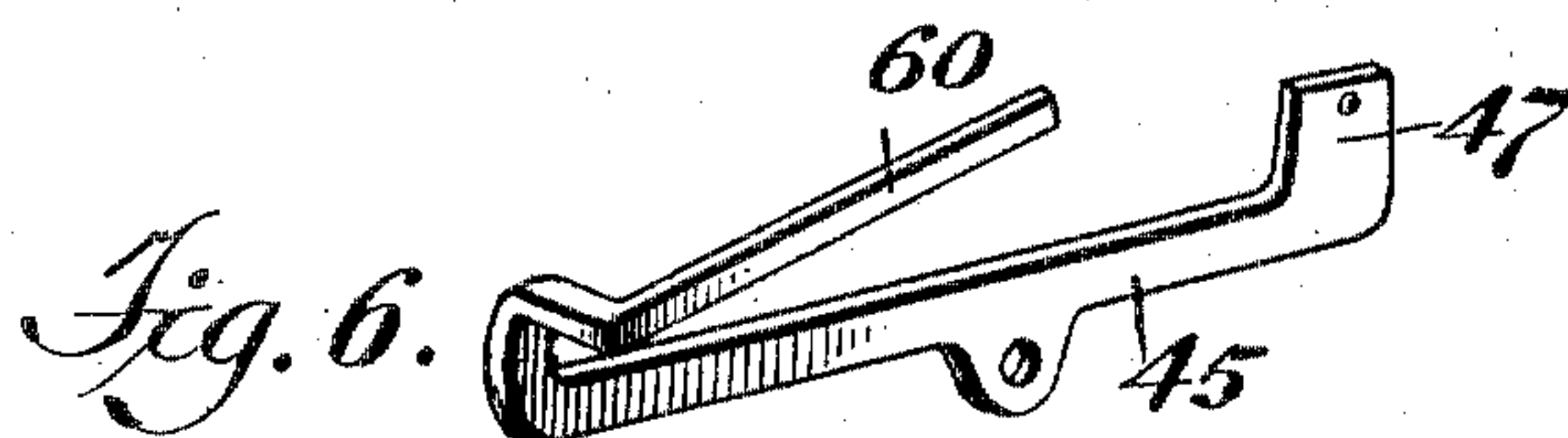
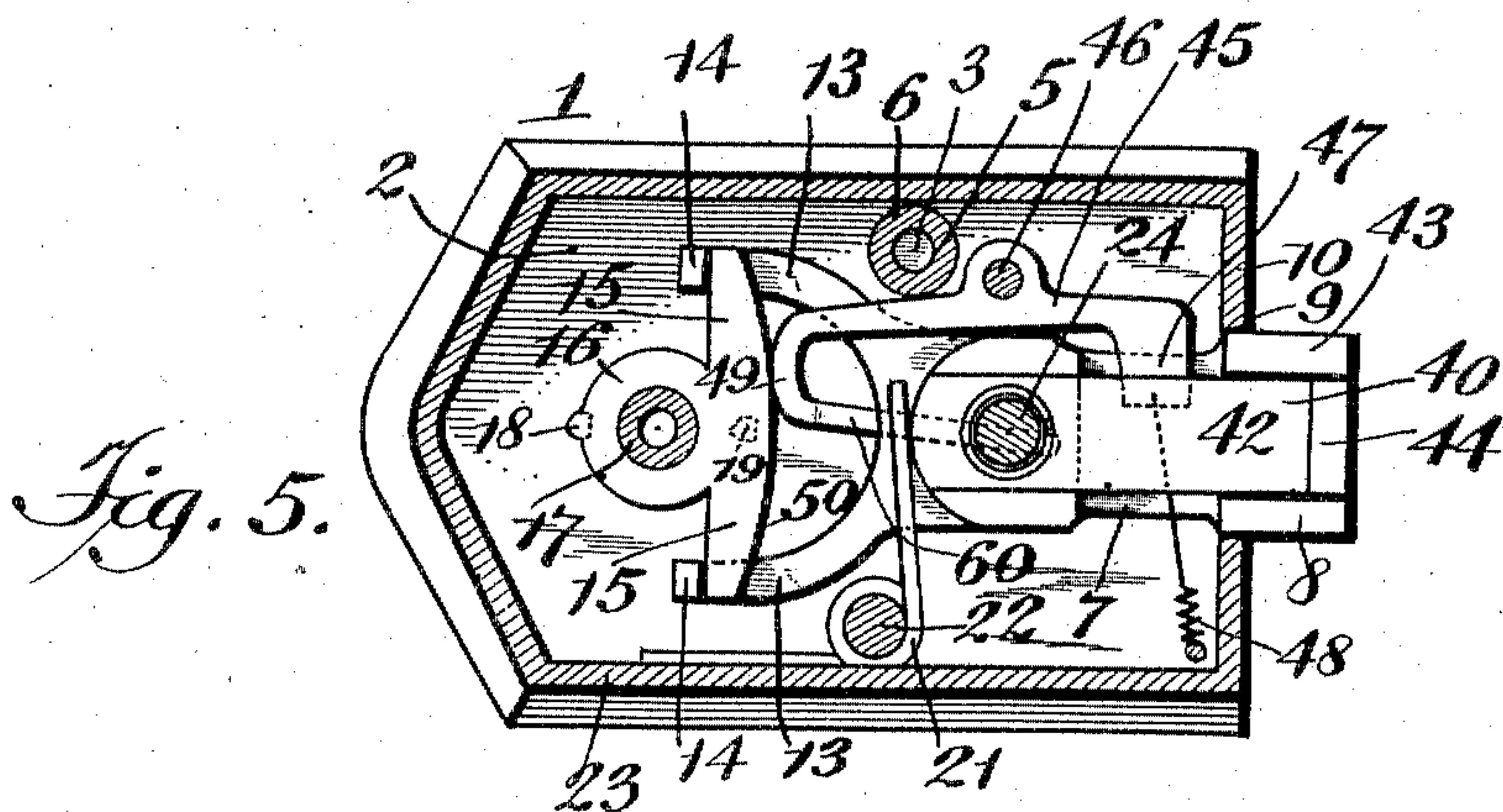
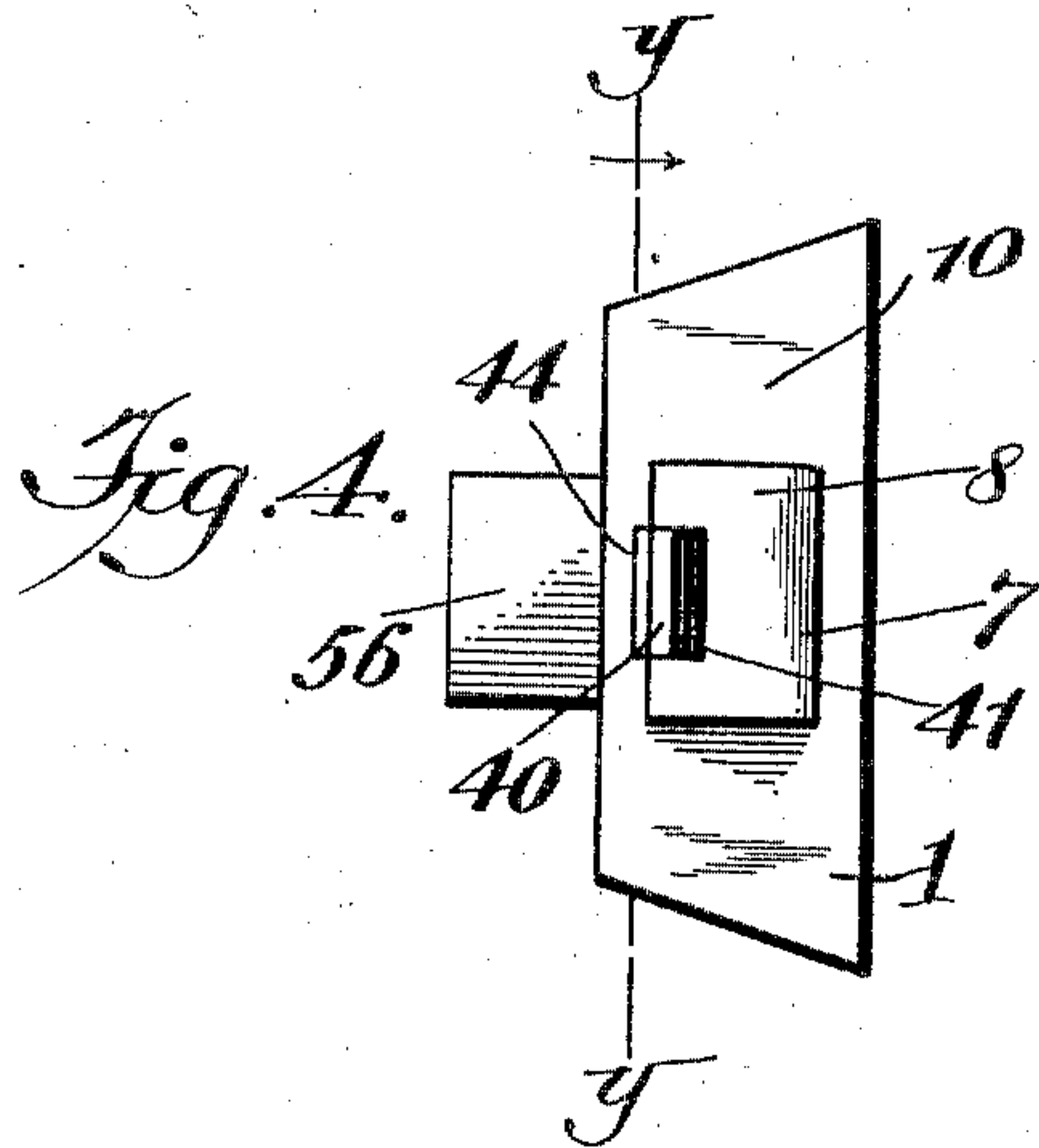
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H. LANDSBERG.  
LOCK.

APPLICATION FILED SEPT. 4, 1903.

NO MODEL.

2 SHEETS—SHEET 2.



WITNESSES:

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# UNITED STATES PATENT OFFICE.

HERMAN LANDSBERG, OF NEW YORK, N. Y., ASSIGNOR OF ONE-FOURTH  
TO ISAAC HENRY HARRIS, OF NEW YORK, N. Y.

## LOCK.

SPECIFICATION forming part of Letters Patent No. 767,067, dated August 9, 1904.

Application filed September 4, 1903. Serial No. 171,859. (No model.)

*To all whom it may concern:*

Be it known that I, HERMAN LANDSBERG, a citizen of the United States, and a resident of New York, in the county and State of New York, have invented certain new and useful Improvements in Safety-Locks, of which the following is a specification.

My invention relates to locks, and has for its object to provide a lock having a supplemental latch for locking the main latch in its outer position, so that it cannot be withdrawn from the front of the lock except when operated by a key, and means for unlocking the main latch and withdrawing it from the back of the lock.

It has for a further object to provide a lock of the character set forth possessing advantages in points of simplicity, inexpensiveness, and general utility.

In the drawings, Figure 1 is a front view. Fig. 2 is a rear view, the cover being removed to show the interior mechanism. Fig. 3 is a longitudinal sectional view taken on the line *x x* of Fig. 1. Fig. 4 is an end view. Fig. 5 is a longitudinal vertical sectional view taken on the line *y y* of Fig. 1. Fig. 6 is a detail view of the oscillatory lever. Fig. 7 is an interior view of the keeper.

Corresponding parts in all the figures are denoted by the same reference characters.

Referring to the drawings, I shall first proceed to describe the parts of the lock which are of the ordinary and well-known construction. Said parts comprise a casing 1, having a cover 2 secured thereto by a screw 3 passing through a hole 4 therein and engaging a screw-threaded recess 5 in a post 6, formed on the interior of the casing, a reciprocal catch 7, having a rectangular head 8, adapted to be projected through a rectangular hole 9 in the front wall 10 of the casing for the purpose of engaging a hole 10<sup>b</sup> in a keeper 10<sup>a</sup>, adapted to be secured to the door-frame, and rearwardly and laterally extending arms 13, provided with lugs 14 thereon, engaged by laterally-projecting arms 15 of a key-plate 16, mounted on a pivot 17, formed on the in-

terior of the casing, said plate 16 having lugs 18 and 19 formed thereon and adapted to be engaged by a key inserted through a hole 20 in the back of the lock, and a coil-spring 21 for holding said catch extended in locked position, said spring held on a post 22, formed on the interior of the casing, and having one of its ends in engagement with a projection 23 on the side of the lock-casing and its other in engagement with a shaft 24 on the knob 25, said shaft projecting through an elongated slot 27 in the front wall 28 of the casing and through a hole 29 in the catch 7.

Having described the ordinary and well-known parts of the lock, I will now proceed to describe my improvements, which comprise a supplemental catch 40, located in the upper part of a recess 41 in the forward end of the main catch 7, the rear end being secured to the main catch, so that its face 42 will be flush with the face 43 of the main catch when in its forward position, and a nose 44 on its outer end adapted to project beyond the face 43 of the main catch when in its forward position and engaging the recess 10<sup>b</sup> in the keeper, an oscillatory lever 45, pivoted on a post 46, formed on the interior of the casing and provided on its front with a laterally-projecting nose 47, which when the main catch is being moved to its forward position is projected by a spring 48 between the supplemental and main catches and a laterally-projecting curved nose 49 on its rear end in engagement with the curved edge 50 of the arms 15 of the key-plate 16, and when said plate 16 is turned against it in the direction of the arrow to withdraw the main catch said nose operates to turn the lever 45 on its pivot, withdrawing the nose on the other end thereof from between the supplemental and main catches, and a plate 55, mounted in a projecting portion 56 of the casing, passes through a hole 58 in the wall 28 of the casing, and a spring 58<sup>a</sup>, also located in said projection and to which said plate is attached, presses said plate down, thereby pressing the supplemental catch down into the recess 41



out of engagement with the recess in the keeper, so as to allow the nose 44 thereon to pass through the hole 9.

For the purpose of allowing the main latch to be withdrawn from the inside an arm 60 is provided, one end of which is secured to the inner end of the oscillatory lever, said arm projecting backwardly from said lever and then toward the front of the casing and engaging a notch 61 in the inner end of the shaft 24, said shaft within the notch having angularly-disposed faces adapted to bear against the arms 60 when the shaft 24 is turned on its pivot by the knob 25 and withdraw the nose from between the supplemental and main catches, allowing the plate 55 to press the supplemental catch down into the recess out of engagement with the recess in the keeper, so that the nose thereon will pass through the hole 9 in the casing, when the main catch can be slid back by means of the knob 25.

The operation is as follows: As the main catch springs into its keeper the spring-pressed plate 55 releases the supplementary latch, and the nose on the outer end of the oscillatory lever is forced between said latches by its spring, thereby forcing the supplementary latch away from the main latch, and the nose thereon prevents the main latch from being drawn or forced back unless released by the oscillatory lever and forced down by the spring-plate 55 and spring 58<sup>a</sup>. If it be desired to withdraw the main latch from the outside, the key is inserted and the key-plate turned and by its engagement with the nose on the inner end of the oscillatory lever turns said lever on its pivot and withdraws the nose on the other end thereof from between the latches, when the spring-pressed plate 55 will force the supplementary latch down into the recess, so that the nose therein will be on a level with the surface of the main latch, when said latch can be drawn in by further turning of the key-plate. If it be desired to withdraw the main latch from the inside, the knob is turned, which turns the shaft 24, and by its connection with the oscillatory lever said lever is turned on its pivot, withdrawing the nose on the inner end thereof from between the latches, when the spring-pressed plate 55 will force the supplementary latch down into its recess, so that the nose thereon will be on a level with the surface of the main latch, when said latch can be drawn in by pushing on the knob.

I do not desire to be understood as limiting myself to the details of construction and arrangement as herein described and illustrated, as it is manifest that variations and modifications may be made in the features of construction and arrangement in the adaptation of the device to various conditions of use without departing from the spirit and scope of my invention and improvements. I therefore re-

serve the right to all such variation and modification as properly fall within the scope of my invention and the terms of the following claims.

Having thus described my invention, I claim and desire to secure by Letters Patent—

1. In a lock, the combination with the latch thereof, of a supplemental latch mounted thereon for locking said first-mentioned latch in its outer position, comprising a flexible plate the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed and means for operating said supplementary latch, substantially as described.

2. In a lock, the combination with the latch thereof having a recess, of a supplemental latch located in said recess, for locking said first-mentioned latch in its outer position comprising a flexible plate the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed and means for operating said supplemental latch, substantially as described.

3. In a lock, the combination with the latch thereof having a recess, of a supplemental latch located in said recess for locking said first-mentioned latch in its outer position comprising a flexible plate the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed and means for operating said supplemental latch from either side, substantially as described.

4. In a lock, the combination with the latch thereof, of a supplemental latch mounted thereon for locking said first-mentioned latch in its outer position the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed a single lever for engaging and raising said supplemental catch means for depressing it and means for operating said lever from both sides of the lock, substantially as described.

5. In a lock, the combination with the latch thereof, of a supplemental latch mounted thereon for locking said first-mentioned latch in its outer position the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed, a single lever for engaging and raising said supplemental latch, and means for operating said lever from both sides of the lock to unlock said first-mentioned latch, substantially as described.

6. In a lock, the combination with the latch thereof, of a supplemental latch mounted thereon for locking said first-mentioned latch in its outer position the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed, a single lever arranged to be inserted between said latches to engage and raise said supple-



mental latch, a key-plate for operating said lever and means for depressing said supplemental latch, substantially as described.

5 7. In a lock, the combination with the latch thereof, of a segmental latch mounted thereon for locking said first-mentioned latch in its outer position the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed, a  
10 single lever for engaging and raising said supplemental latch, a key-plate for operating said lever, a shaft projecting into said lock from the opposite side to that in which the keyhole is located, and arranged to operate said lever  
15 and means for depressing said supplemental latch, substantially as described.

8. In a lock, the combination with the latch thereof, of a supplemental latch mounted

thereon for locking said first-mentioned latch in its outer position the inner end secured rigidly to the first-mentioned latch and the outer end free and adapted to be raised or depressed, a single lever for engaging and raising said supplemental latch, a key-plate for operating said lever, a shaft projecting into said latch  
25 from the opposite side to that in which the keyhole is located and arranged to operate said lever and means for operating said supplementary latch to unlock said first-mentioned latch, substantially as described. 30

In testimony whereof I have signed my name in the presence of the subscribing witnesses.

HERMAN LANDSBERG.

Witnesses:

J. C. PYBAS,

J. M. HOCTOR.

It is hereby certified that in Letters Patent No. 767,067, granted August 9, 1904, upon the application of Herman Landsberg, of New York, N. Y., for an improvement in "Locks," an error appears in the printed specification requiring correction, as follows: In line 5, page 3, the word "segmental" should read *supplemental*; and that the said Letters Patent should be read with this correction therein that the same may conform to the record of the case in the Patent Office.

Signed and sealed this 30th day of August, A. D., 1904.

[SEAL.]

E. B. MOORE,  
*Acting Commissioner of Patents.*