

No. 792,491.

PATENTED JUNE 13, 1905.

O. BERRY.
LOCK.

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Fig. 2.

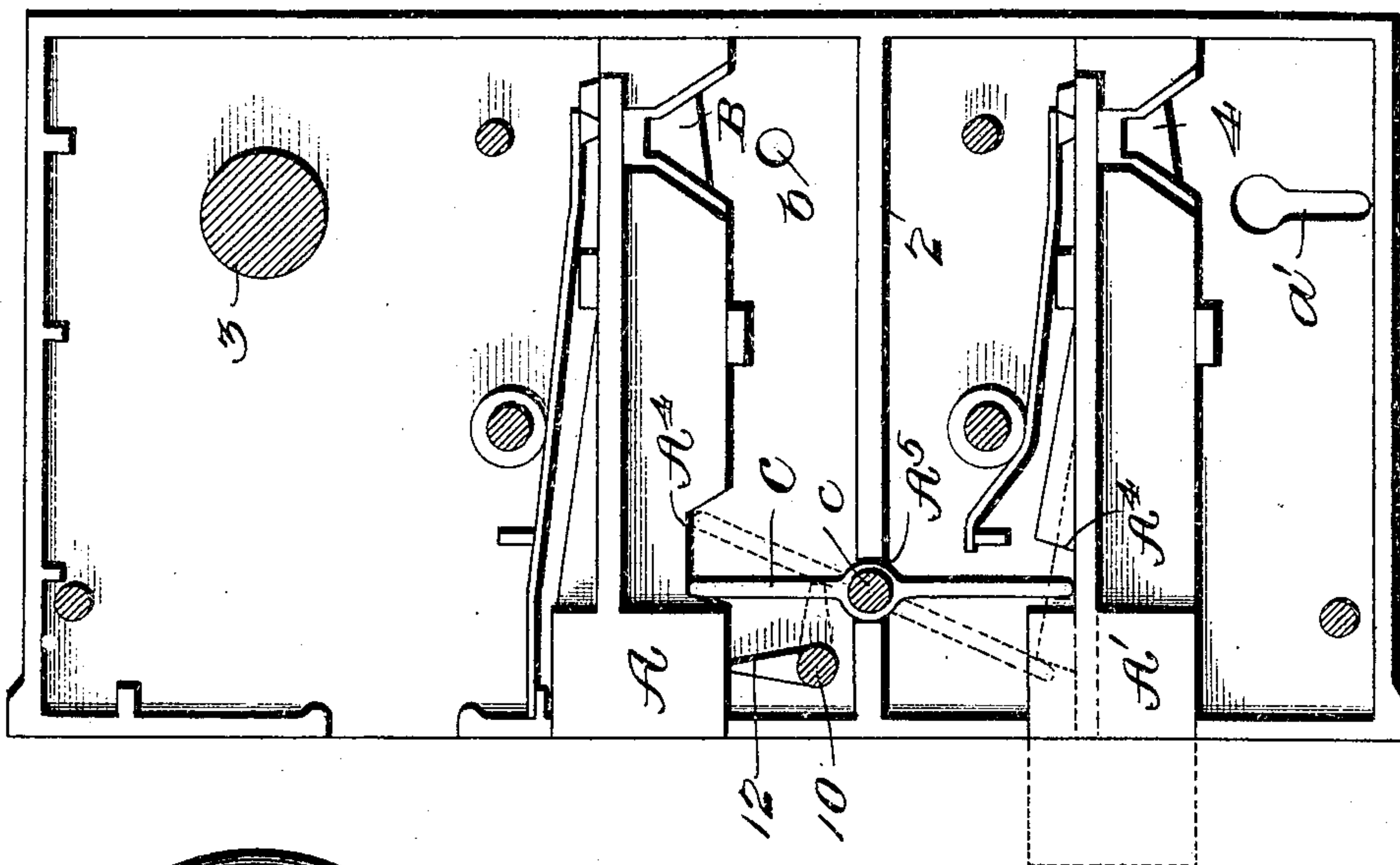
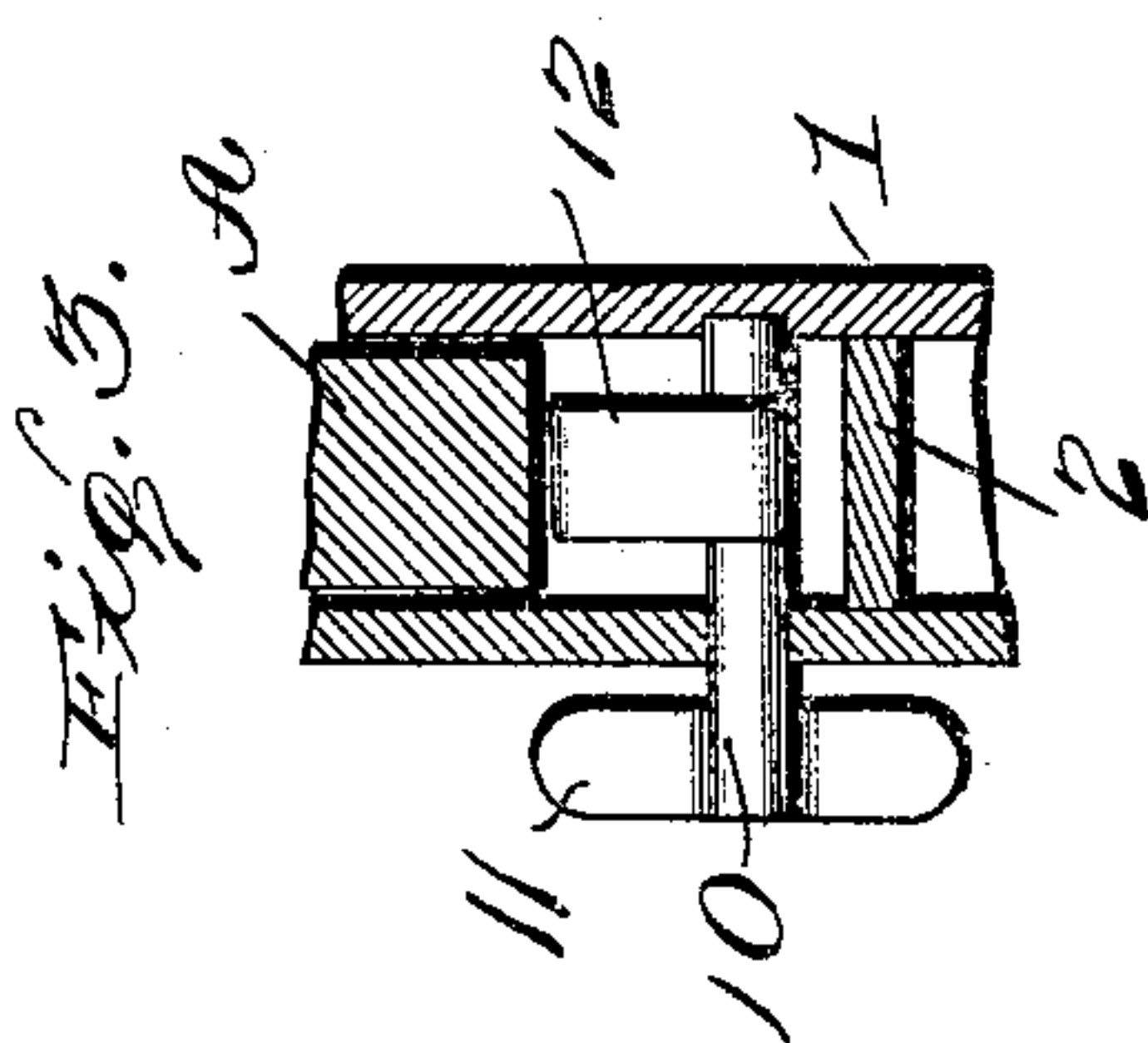
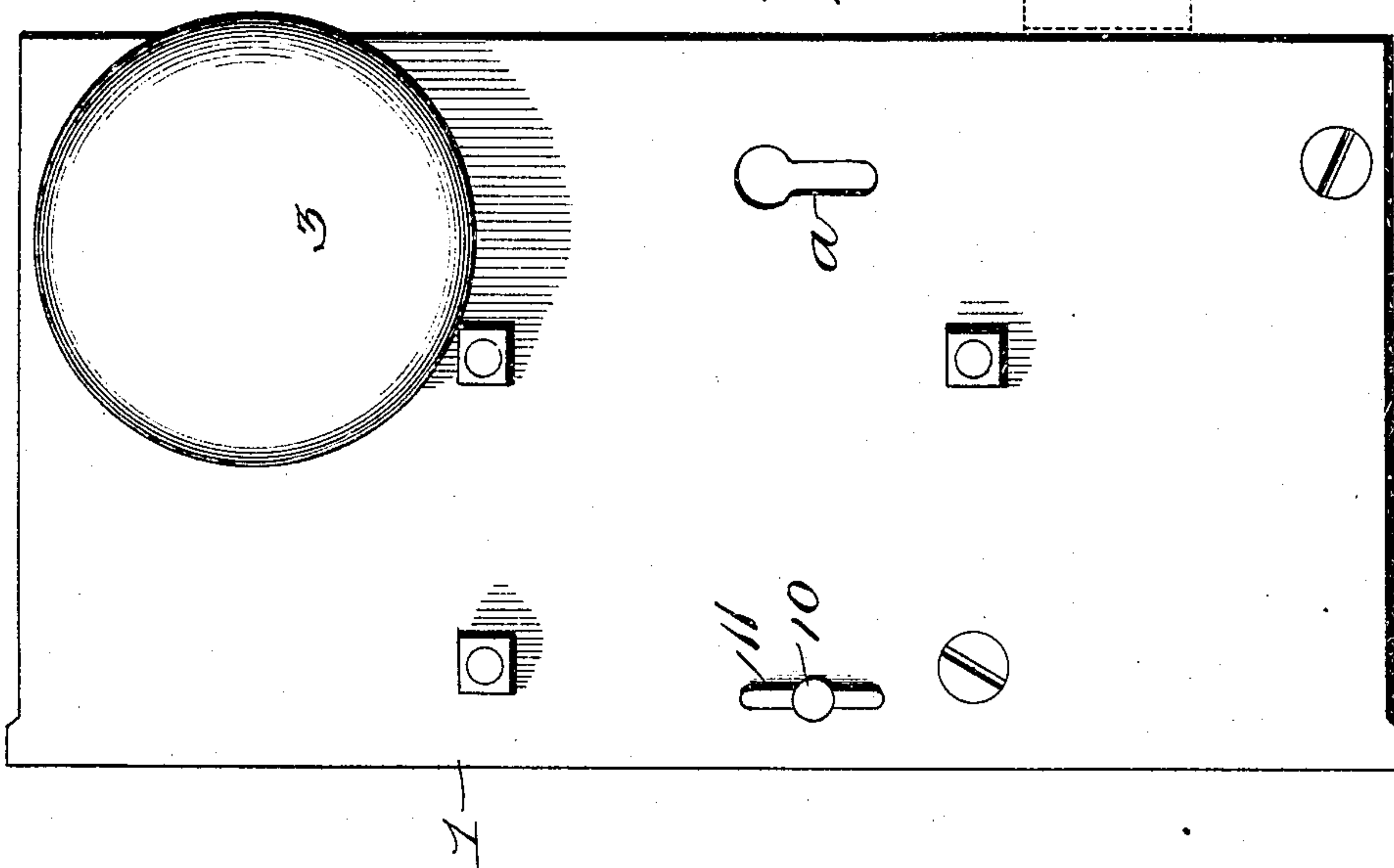


Fig. 1.



Witnesses
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OLIN BERRY, OF GALESBURG, ILLINOIS.

LOCK.

SPECIFICATION forming part of Letters Patent No. 792,491, dated June 13, 1905.

Application filed April 7, 1904. Serial No. 202,024.

To all whom it may concern:

Be it known that I, OLIN BERRY, a citizen of the United States, residing at Galesburg, in the county of Knox and State of Illinois, have invented certain new and useful Improvements in Door-Locks; and I do 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.

My invention relates to improvements in door-locks, particularly to that form of lock shown, described, and claimed in Letters Patent of the United States No. 612,086, granted to me October 11, 1898, which when locked from one side cannot be unlocked from the opposite side of the door and which will prevent peeping through the keyhole and the introduction of poisonous gases or vapors there-through.

The object of my present improvement is to provide means operative at will to prevent the lock to be operated from the outside in such manner as to prevent a person on the inner side of the door from unlocking the same, and hence prevent a person within a room from being locked therein by a person on the outside of the door.

With this object in view my present invention consists in the construction and combination of devices hereinafter described and claimed.

In the accompanying drawings, Figure 1 is an exterior elevation of a lock embodying my improvements, showing that side of the same which will be on the inner side of a door to which it may be applied. Fig. 2 is an elevation of the same, showing one side of the lock-case removed, certain parts being shown in section and the bolts being shown in withdrawn positions in full lines and the lower bolt being shown in shot or extended position in dotted lines. Fig. 3 is a detail sectional view.

In the form of my invention here shown 1 denotes the lock-casing provided with a partition 2. In the casing above the partition is the door-knob 3, the locking-bolt A, and its spring-actuated locking dog or tumbler B. In the casing below the partition are the bolt A'

and the spring-actuated locking dog or tumbler 4.

The lock-casing above the partition is provided with a keyhole *a*, that extends on one side of the casing and to which access may be had from the outside of the room, and the lock-casing below the partition has a hole *a'*, to which access may be had from the outside of the room. Opposite these keyholes and formed in the sides of the casing are circular recesses *b* to receive the inner or spindle end of the key to support it while being turned. The bolts have in their adjacent edges notches *A*⁴, and opposite these notches in the partition is a notch *A*⁵.

C denotes the lever, that extends through the notch in the partition and has its ends projecting in the notches of the bolt. This lever is pivoted to the post *c*, and for convenience of expression I will term it the "connecting-lever."

The operation of the invention is as follows: The bolts being retracted, as shown in full lines in Fig. 2, and it being desired to lock the door from without, the key is inserted into the keyhole *a* and engages the bit-slot of the bolt *A* and the free end of the locking-dog of that bolt. Said bolt is shot and the door locked by the upper bolt, as shown in dotted lines in said figure. It would now be impossible for a person within the room to unlock the door, because there is no keyhole through which a key could be inserted for the purpose of actuating the bolt *A*, and neither could said person shoot the bolt *A'* with the intention of keeping the outsider from entering the room, inasmuch as the upper bolt is locked against retraction by its locking-dog, and the connecting-lever connecting the upper bolt with the lower bolt would prevent the forward movement of the lower bolt, its ends bearing against the inner walls of the slots in each bolt. When the lower bolt is shot from within the room, it will likewise be impossible for a person from without gaining admission to the room, and it will also be impossible for a person from without shooting the upper bolt with the intention of locking the door so that persons within the room cannot get out.

Should it be attempted to inject poisonous vapors through the keyhole, the partition within the casing and between the two keyholes would prevent the gases and vapors passing from the outer keyhole to the inner keyhole.

I will now describe my improved device, which is employed in combination with the connecting-lever to prevent the door from being locked from the outside, so as to confine a person within the room.

In the inner side of the lock-case is mounted a stub-key 10, having a handle 11 at its outer projecting end and a web 12 near its inner end, which may be turned into or out of engagement with the connecting-lever C at a point under the upper bolt A. This stub-key may be operated by a person on the inner side of the door, and when in the position shown in dotted lines in Fig. 1 in engagement with the connecting-lever C the latter cannot be turned, and hence the upper bolt cannot be locked by a person on the outside using a key to operate the lower bolt. When the stub-key is in the position shown in full lines in Fig. 1 out of engagement with the connecting-lever, it is ineffective. Hence the lock may be used either way, as may be desired.

From the foregoing description, taken in connection with the accompanying drawings, the construction and operation of the invention will be readily understood without requiring an extended explanation.

While I have shown my invention in con-

nection with locks of the ordinary type, I would have it distinctly understood that I do not wish to be restricted to this form of lock, as any other well-known or approved form may be employed and my invention still carried out.

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

A lock comprising a casing having keyholes in each of its opposite sides, said keyholes being out of register with each other, a plurality of bolts each adapted to be operated by a key inserted through the keyhole in only one side of the casing, spring-actuated locking dogs or tumblers for the respective bolts, a connecting-lever in the casing, pivotally mounted at a point intermediate its ends and having its ends directly engaged with said bolt, and a stub-key mounted in the casing and having a web to be turned into or out of engagement with the connecting-lever, whereby the latter, and also the bolt, may be secured against movement, and means to operate said stub-key from only one side of the casing, for the purpose set forth.

In testimony whereof I have hereunto set my hand in presence of two subscribing witnesses.

OLIN BERRY.

Witnesses:

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