

(Model.)

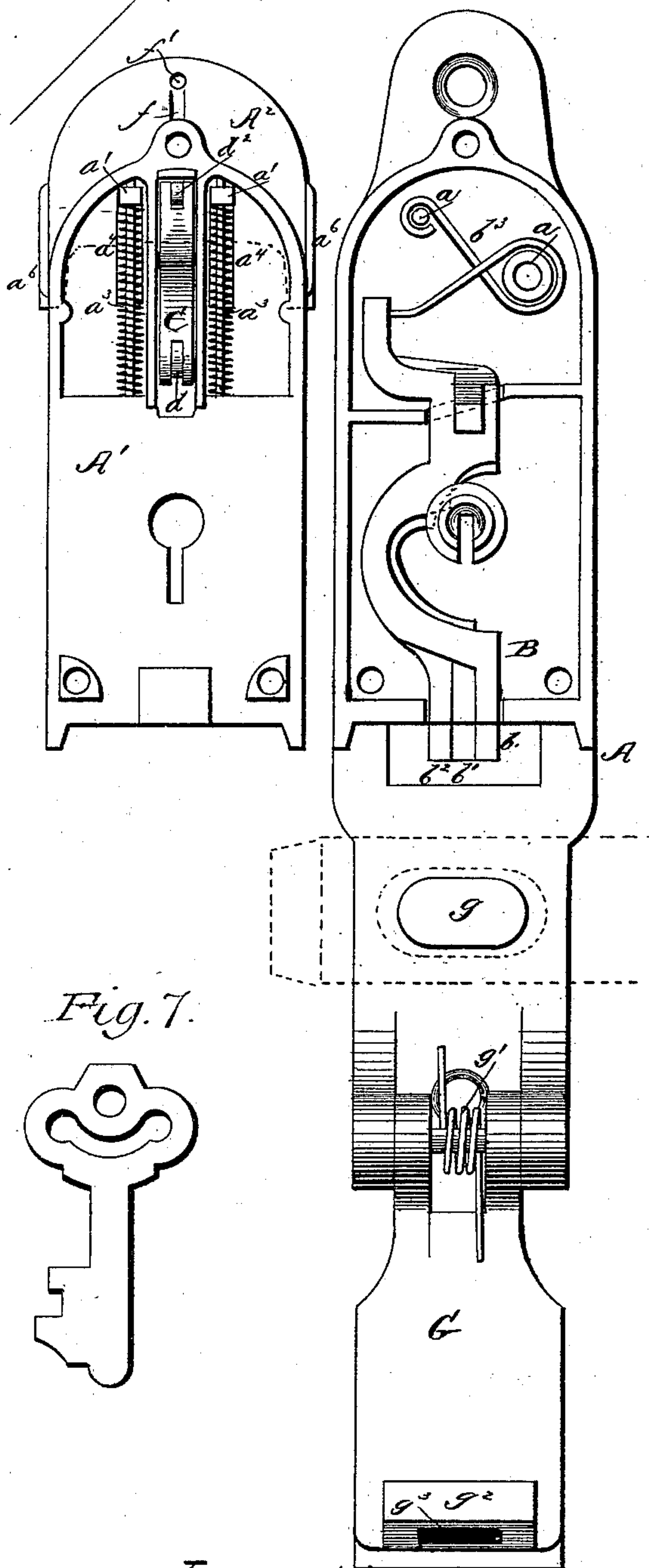
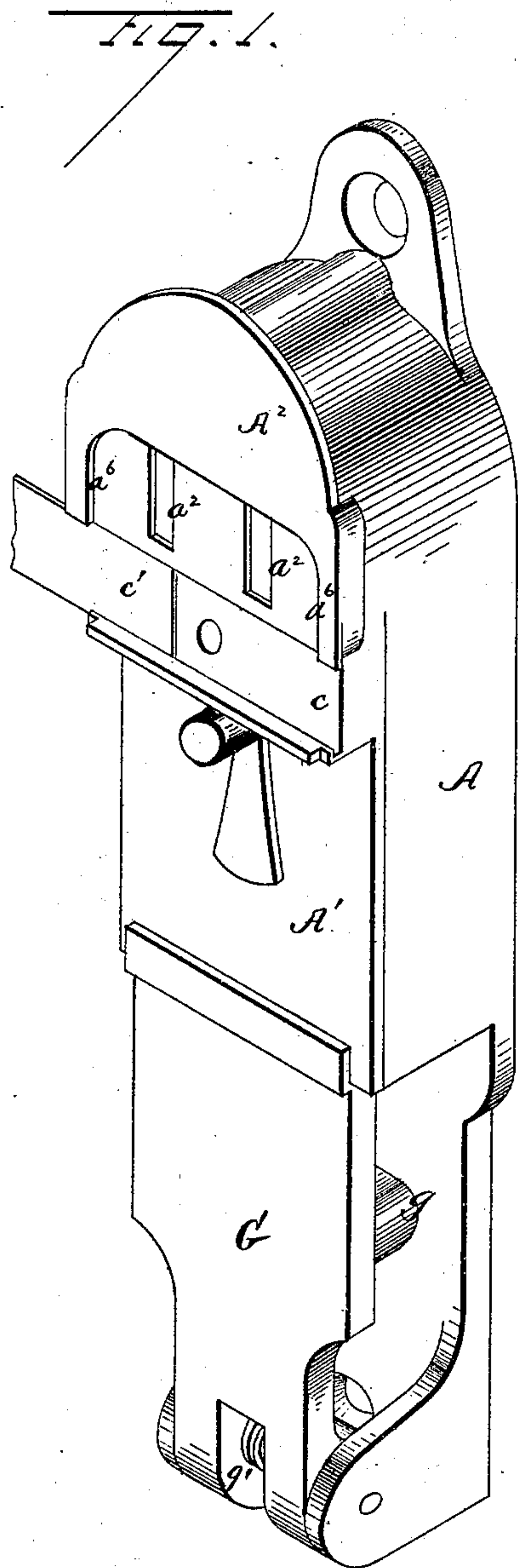
2 Sheets—Sheet 1.

R. O. WALKER.

SEAL LOCK.

No. 300,171.

Patented June 10, 1884.



Witnesses:

A. C. McArthur

Chas. Kressmann

Inventor.

Robert C. Walker

Per;

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Attorneys.

(Model.)

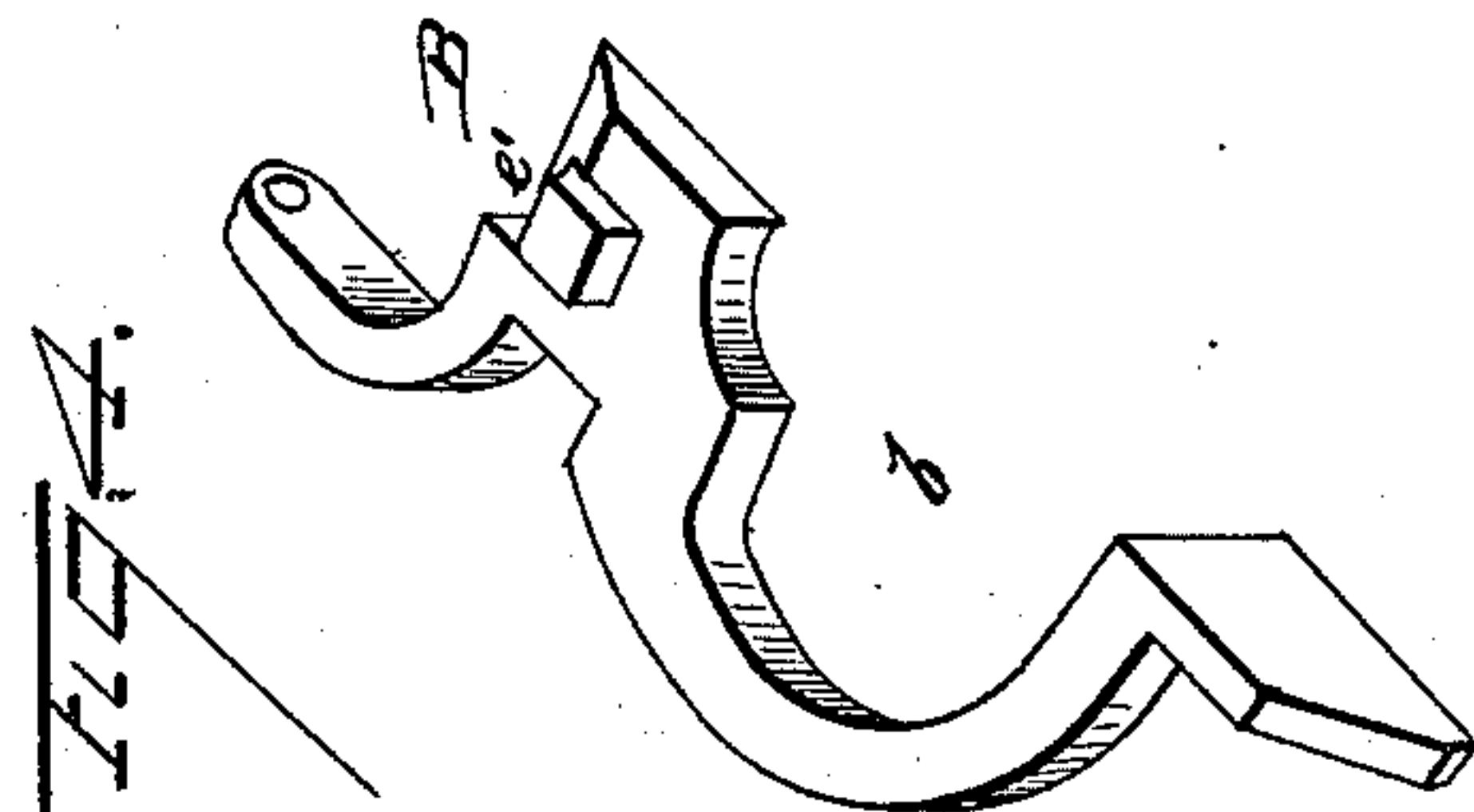
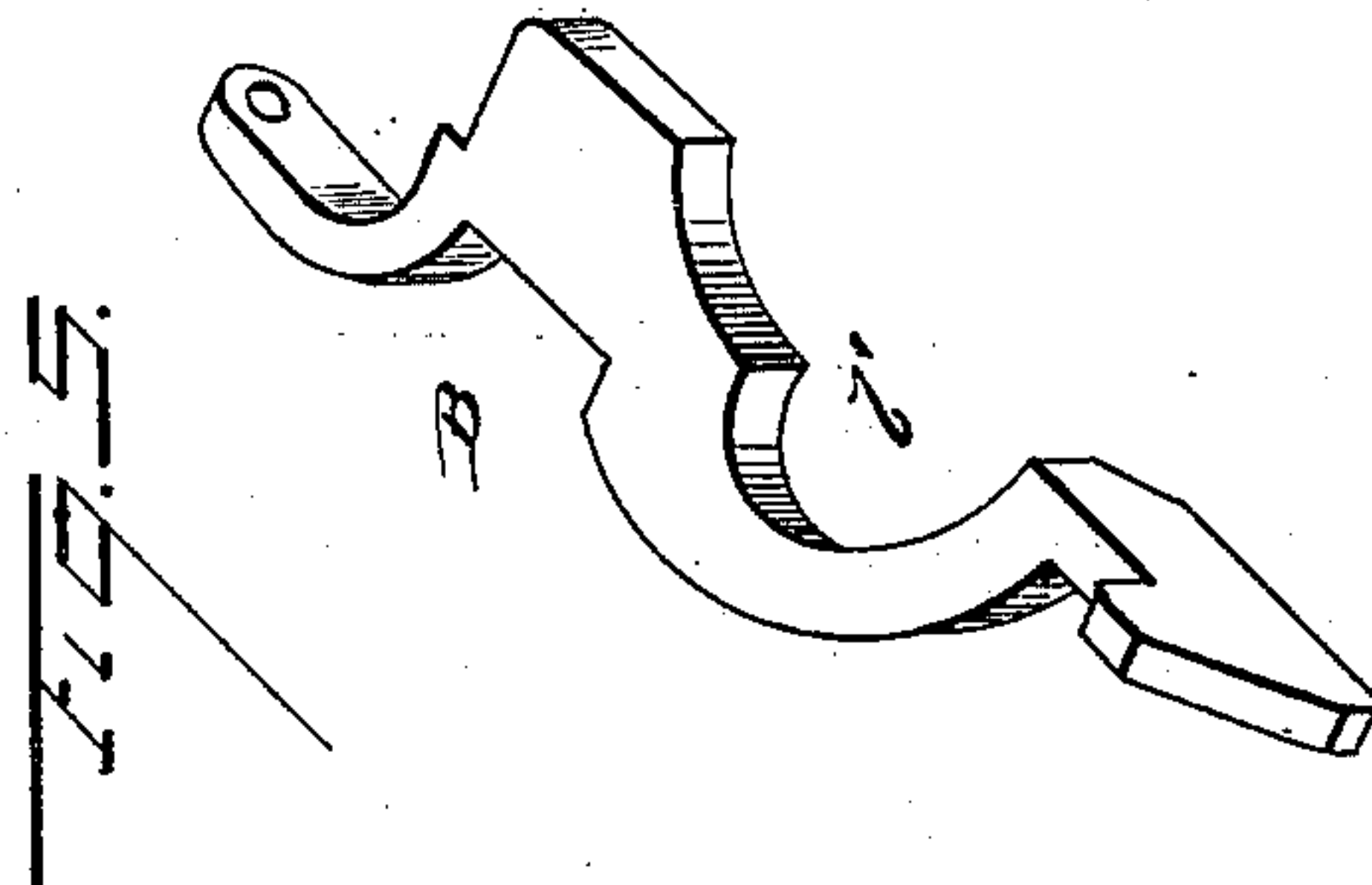
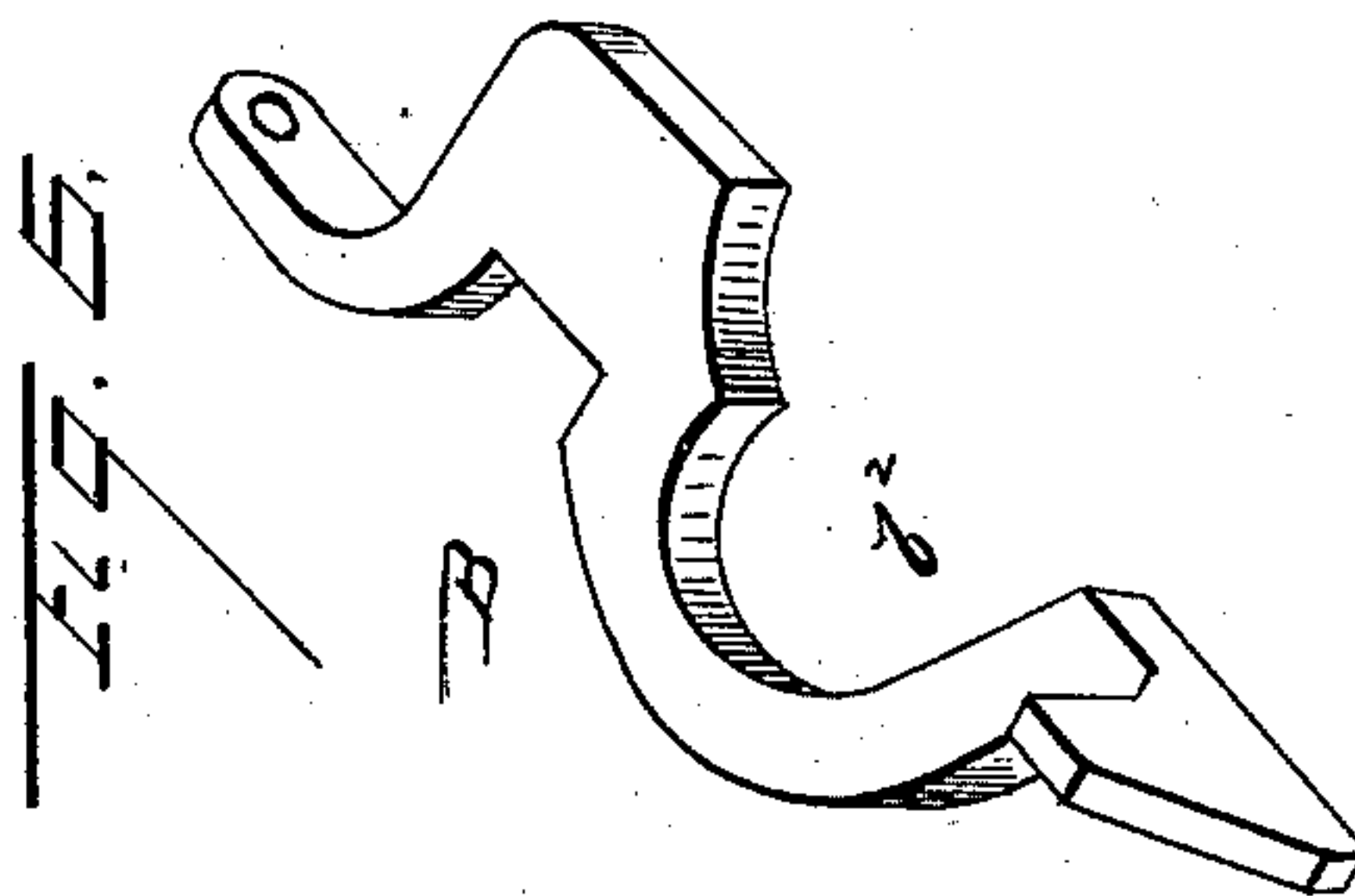
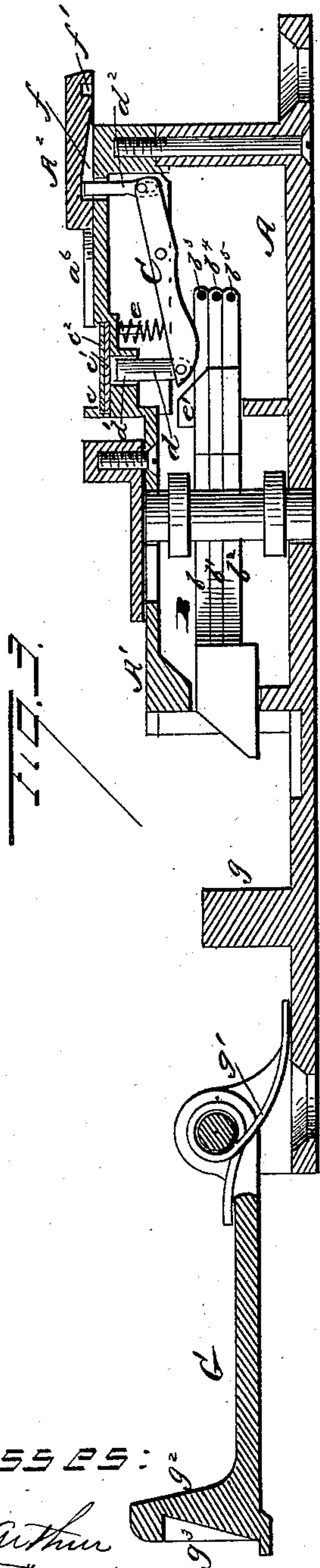
2 Sheets—Sheet 2.

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WITNESSES:

W. C. McArthur
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INVENTOR.

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UNITED STATES PATENT OFFICE.

ROBERT O. WALKER, OF CHICAGO, ILLINOIS, ASSIGNOR OF ONE-FOURTH
TO WILLIAM M. DOBBIN, OF SAME PLACE.

SEAL-LOCK.

SPECIFICATION forming part of Letters Patent No. 300,171, dated June 10, 1884.

Application filed February 4, 1884. (Model.)

To all whom it may concern:

Be it known that I, ROBERT O. WALKER, a citizen of the United States, residing at Chicago, in the county of Cook and State of Illinois, have invented certain new and useful Improvements in Seal-Locks, of which the following is a specification, to wit:

The invention relates to an improvement in seal-locks for cars; and it consists in certain peculiarities in construction and arrangement of the same, substantially as will be hereinafter more fully set forth and claimed.

In order to enable others skilled in the art to which my invention appertains to make and use the same, I will now proceed to describe its construction and operation, referring to the accompanying drawings, in which—

Figure 1 is a perspective view of my lock. Fig. 2 is a face view with the cap-plate removed and placed alongside. Fig. 3 is a longitudinal section of the same, and Figs. 4, 5, and 6 are perspective views of portions of the lock-bolt. Fig. 7 represents the key.

A represents the main casting or case, in which is placed the bolt B, made in three parts, as shown in Figs. 4, 5, and 6, and lettered b , b' , b^2 , respectively, each of which is provided with a retaining-spring, b^3 , b^4 , b^5 , coiled around two posts, a , cast in the case, and their ends secured to the ends of the parts of the bolt, as in Fig. 2.

The cap-plate or cover A' is provided with a sliding plate or seal-guard, A^2 , formed with two lugs, a' , on its under side, working in slots a^2 in the cap-plate upon guide-rods a^3 , around which are coiled two spiral springs, a^4 , which act to throw the slide back and release the seal. The cap-plate is formed with a groove or depression, c , in its lower face, in which is placed a seal, c' , of any suitable material, and over this is placed the tag c^2 , both being held in place by arms a^6 upon the lower end of the slide, which, when it is pushed down to its seat, cover the ends of the slot c , and prevent the seal and tag from being displaced until the bolt is thrown back.

In the under side of the cap or cover A' is fulcrumed a lever, C, one end of which is provided with a seal-punch, d , working in a hole, d' , beneath the slot or depression c , and the

other end is connected to a slotted latch pin or bolt, d^2 , the end of which lies in an inclined groove, f , in the under side of the slide A^2 , which is also formed with a depression, f' , at the rear end of this incline, as fully shown by Fig. 3. The lever C is also provided with a spiral spring, e , which acts to hold the seal-punch retracted, as seen in the drawings. The upper part, b , of the lock-bolt is formed on its rear end with an incline, e' , which, when the bolt is thrown back, passes beneath the end of the lever C and forces the punch outward, as will be at once understood.

The lock herein shown being intended for an outside lock, for use with a door having a hasp, the lower end of the casting is formed with a projection, g , over which the hasp on the door is passed, and with a hinged locking-arm, G, having a spring, g' , to throw it back, and a projection, g^2 , on its end, formed with a socket, g^3 , to receive the end of the lock-bolt.

In operation it will be seen that this lock is to be secured to the outside of the car, and a seal and tag inserted in the proper place. The hinged arm G is then thrown up and locked, and the slide pushed down till the lock-pin d^2 engages and holds it in place. When a key is inserted to unlock the device, the first movement of the bolt throws up the seal-punch and punctures the seal. The continued rear motion of the bolt then releases the slide A^2 and allows it to spring back, and then the hinged arm is released and the door free to be opened. It will thus be seen that it is impossible to unlock the door without first breaking the seal, nor can the latter be removed before it has been punctured.

It will be evident, by reference to the drawings, that the backward pressure of the spring-actuated cap-plate or slide A^2 holds its pin or bolt in place till the movement of the lever has punched the seal, and the lever, having at that time reached the end of the slot in the pin, withdraws it to release the slide.

While I have shown and described an outside lock in connection with this seal, it is obvious that it may be used with a mortise-lock, if desired, such as described in a former patent to me, dated August 28, 1883.

Having thus fully described my invention,

what I claim as new, and desire to secure by Letters Patent, is—

1. In a seal-lock, a cap or cover formed with a depression or groove for receiving the seal, a sliding spring-actuated guard for protecting and holding the seal in position, and a lever carrying a seal-punch at one end and a pin for locking the guard at the other, in combination with a lock-bolt having an incline upon its rear end, adapted to engage and actuate the seal-punch, substantially as and for the purpose set forth.

2. In a seal-lock, a plate provided with a depression for receiving the seal, and a spring-actuated lever provided with a punch working in a hole in said depression, in combination with a sliding spring-actuated plate or guard for holding the seal, and a pin for locking this plate in position, having a slotted connection with the punching-lever, whereby the pin is not moved to release the guard till after the seal has been punctured, substantially as and for the purpose set forth.

3. The cap or cover A' , seal-receptacle c , lever C , and punch d , in combination with the plate A^2 , having arms a^6 , projections or lugs a' , acted upon by springs a^4 , and the inclined groove f and depression f' , and the latch-pin d^2 , connected to said lever by a slotted connection, substantially as and for the purpose set forth.

4. In a seal-lock, the bolt B , made in three parts and having the beveled or inclined rear end, in combination with the seal-punch d , lever C , slotted pin d^2 , and seal-guard A^2 , all constructed and arranged to operate substantially as and for the purpose set forth.

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

ROBERT O. WALKER.

Witnesses:

W. M. DOBBIN,

W. C. MCARTHUR.