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PATENTED OCT. 20. 1903.

A. KALB & A. A. R. BERGER.  
COMBINED DOOR CHECK AND LOCK.

APPLICATION FILED JAN. 13, 1903.

NO MODEL.

2 SHEETS—SHEET 1.

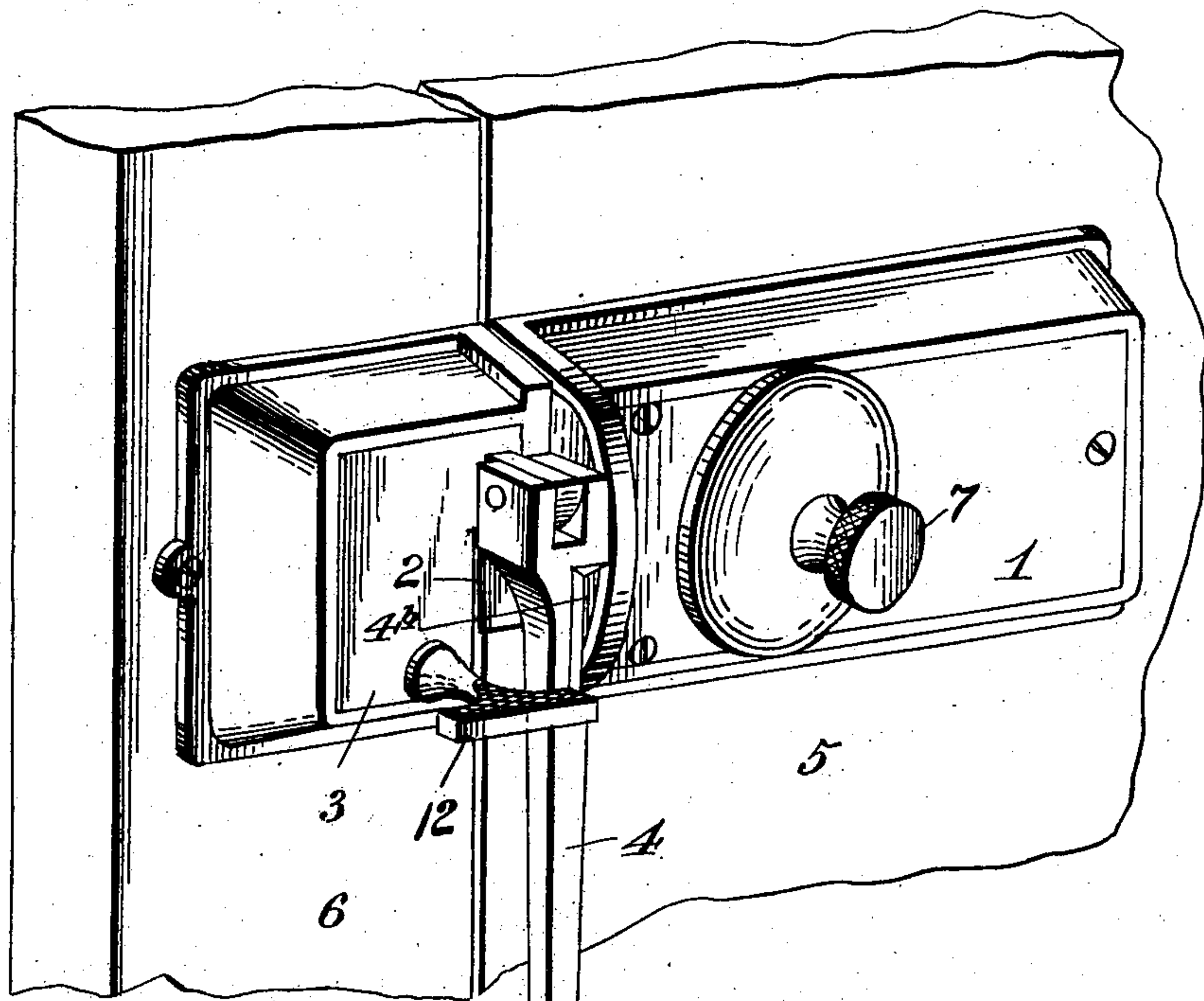


Fig. 1.

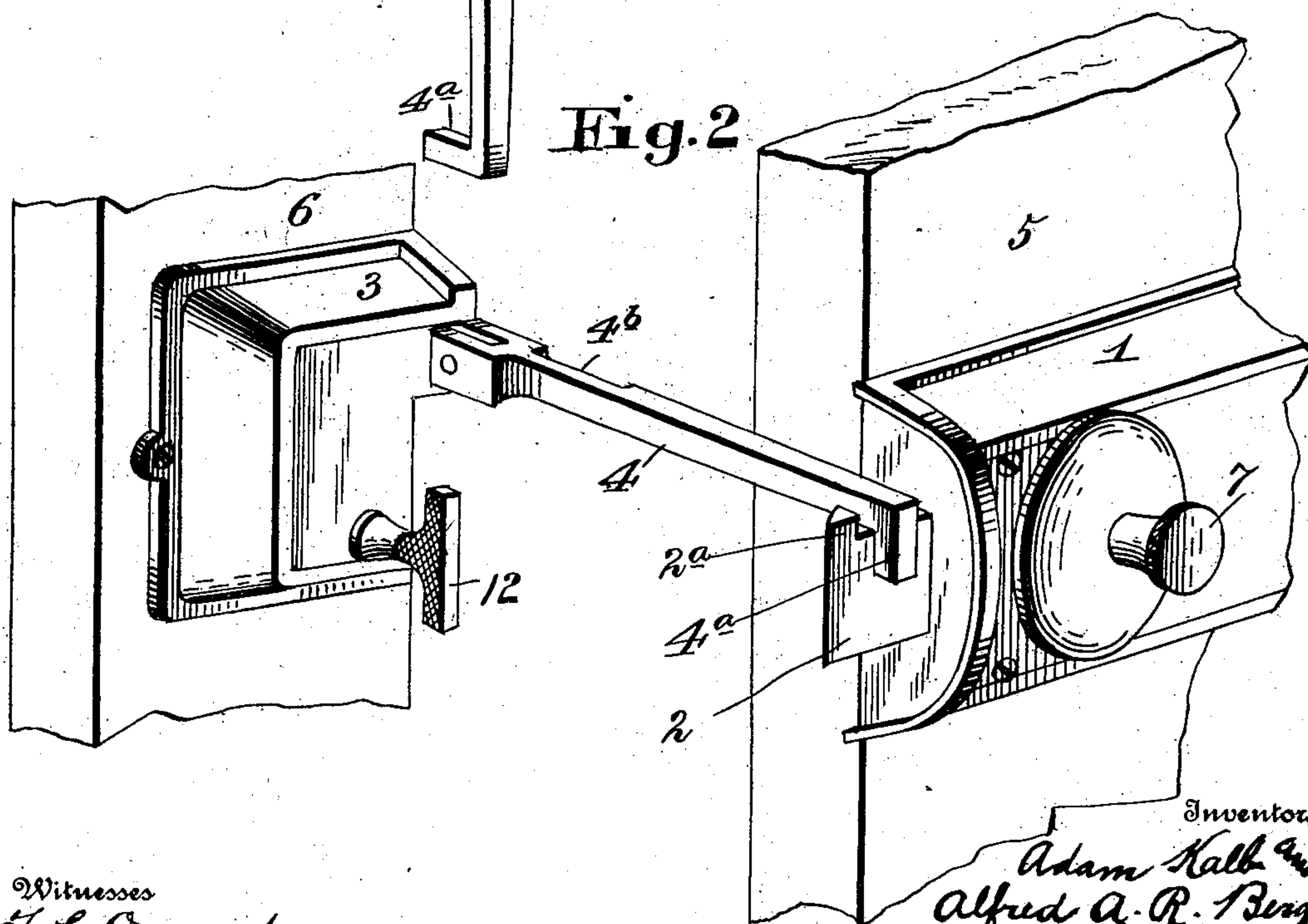


Fig. 2

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Fig. 3.

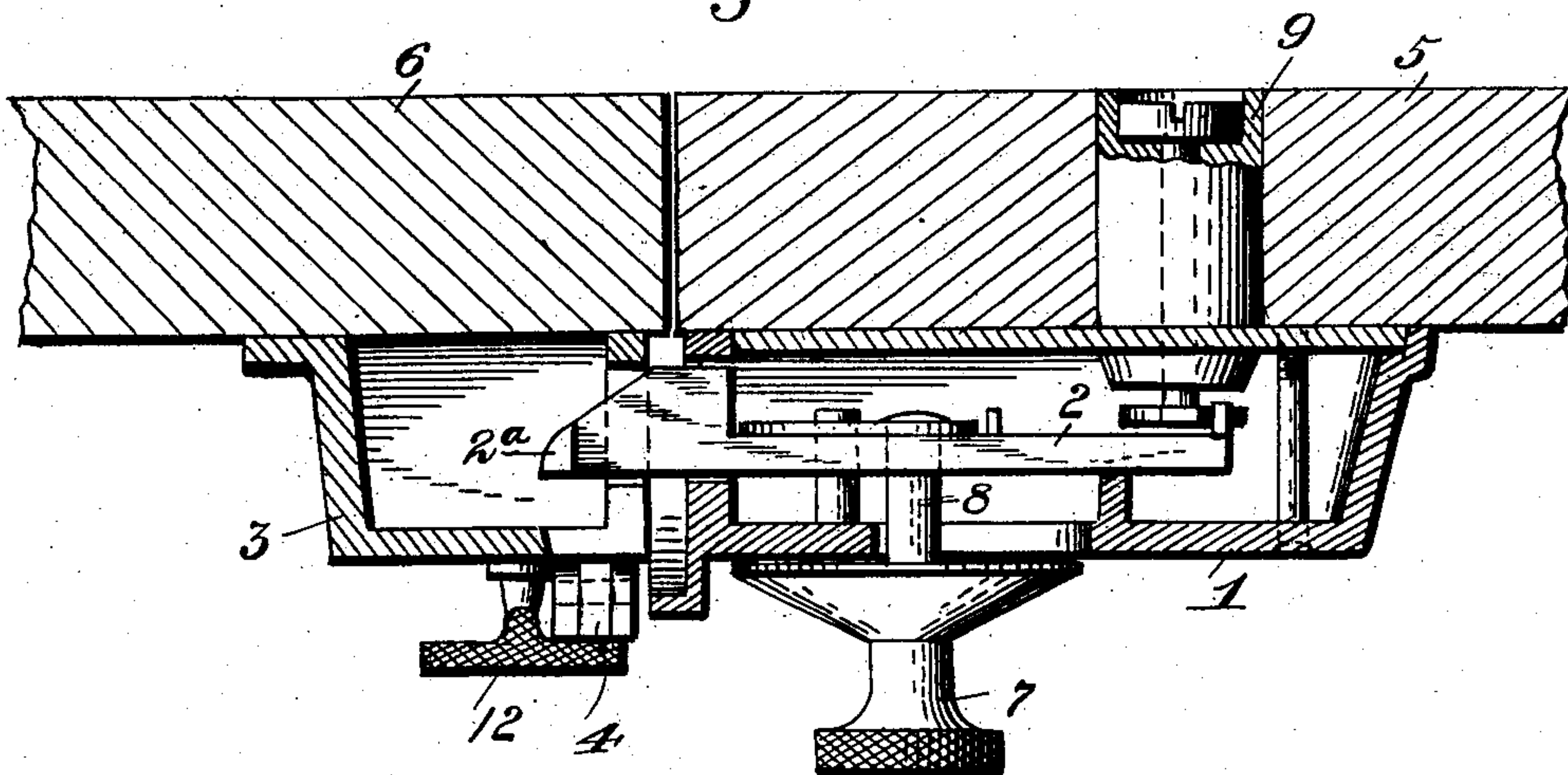


Fig. 4.

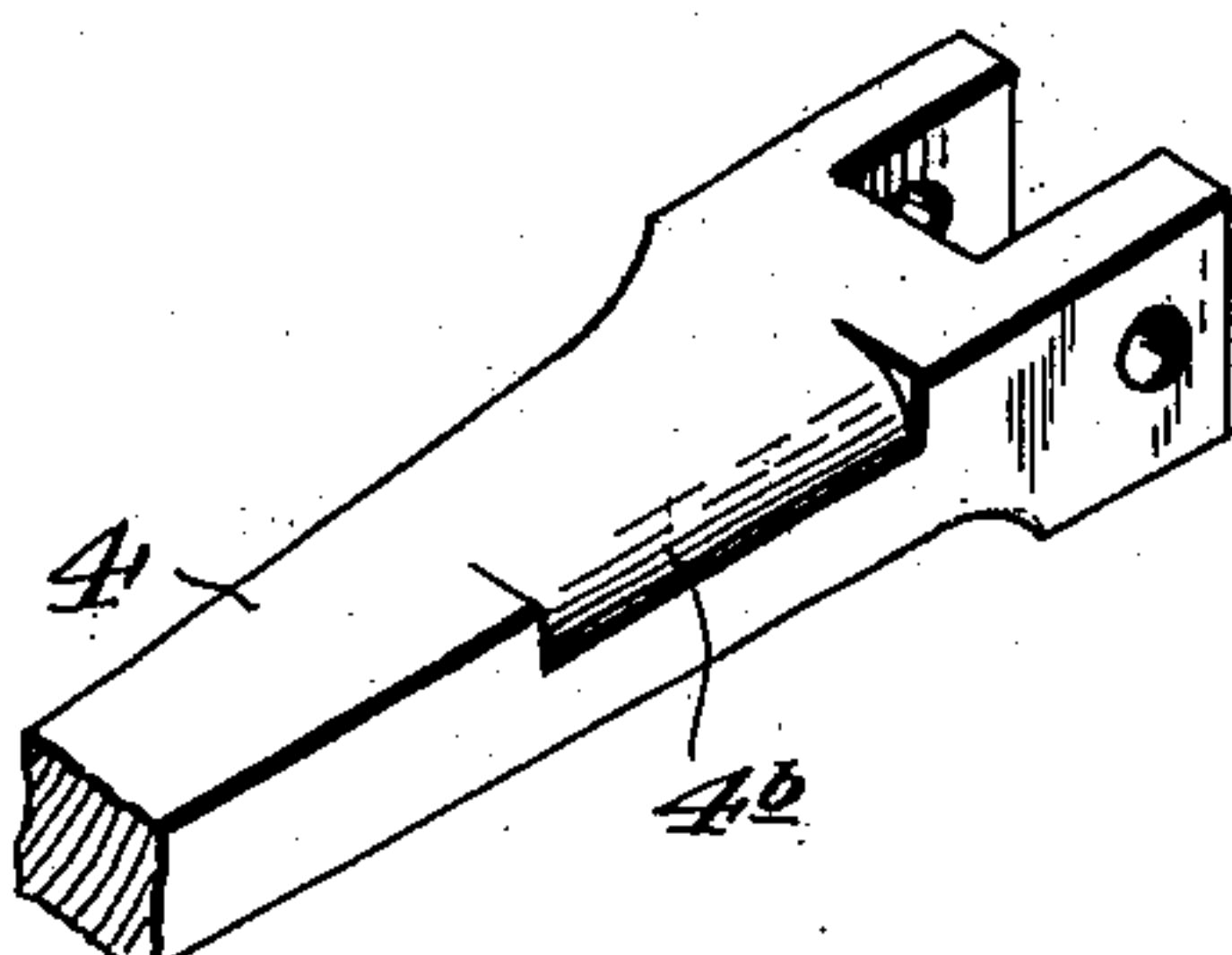
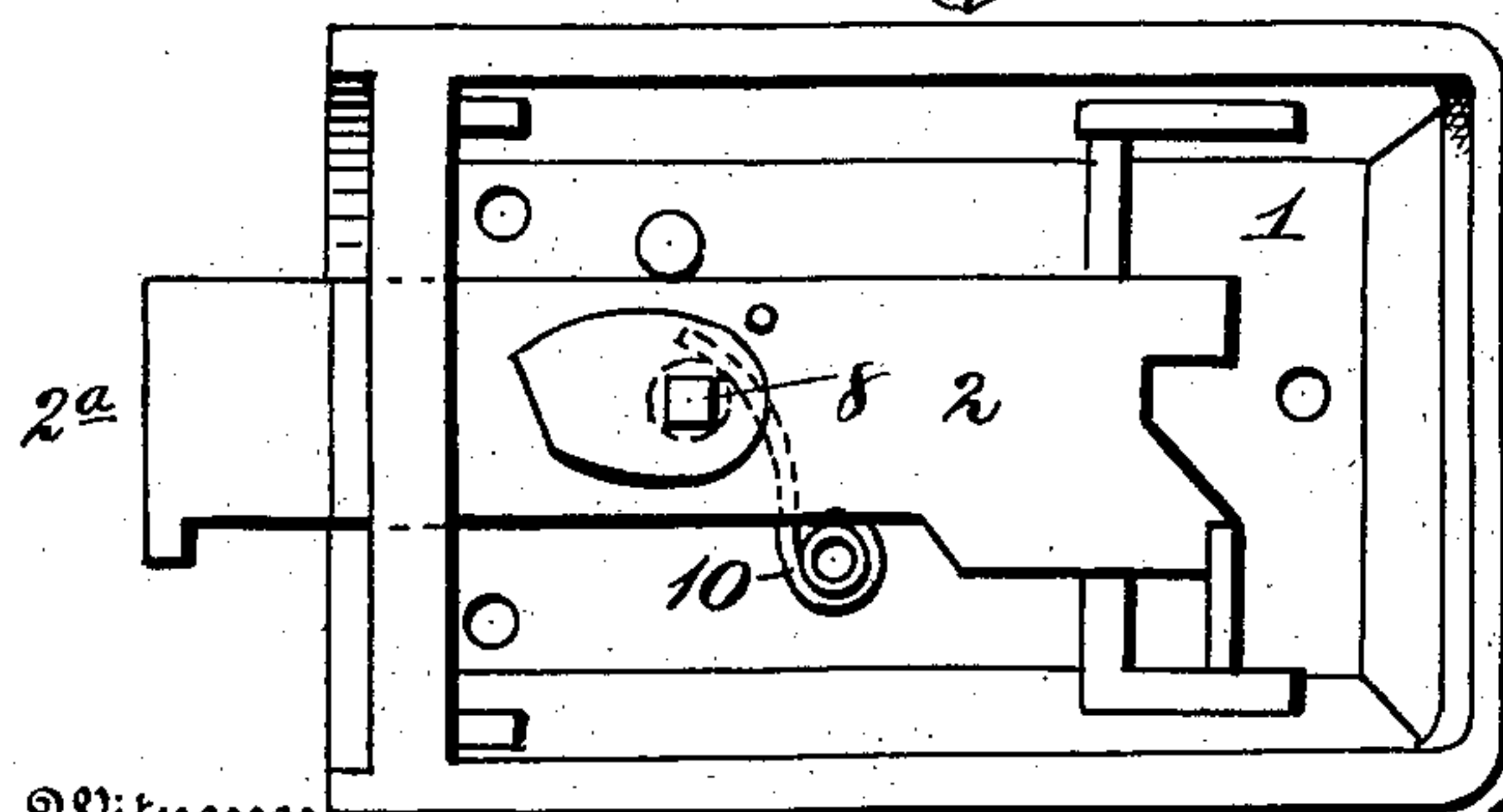


Fig. 5.



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# UNITED STATES PATENT OFFICE.

ADAM KALB AND ALFRED A. R. BERGER, OF NEW YORK, N. Y.

## COMBINED DOOR CHECK AND LOCK.

SPECIFICATION forming part of Letters Patent No. 741,674, dated October 20, 1903.

Application filed January 13, 1903. Serial No. 138,838. (No model.)

*To all whom it may concern:*

Be it known that we, ADAM KALB, residing in the borough of Manhattan, and ALFRED A. R. BERGER, residing in the borough of Brooklyn, in the city of New York and State of New York, citizens of the United States, have invented certain new and useful Improvements in a Combined Door Check and Lock; and we 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

This invention relates to that class of door-checks designed to permit a door to be partially opened and to prevent the complete opening thereof, whereby one within the room may see and have communication with a person outside of the room and yet be protected against intrusion of said person; and it has particular reference to a device for said purpose which includes as one of its elements a lock and as its other element a holding device or checking-arm attached to the door and its frame, respectively, and so related to each other that the opening of the door when the bolt of the lock has not been retracted causes said bolt to engage said device and automatically adjust the same into the position wherein it coöperates with said bolt in confining the movement of the door toward its opened position to a predetermined limit.

The invention consists in certain peculiarities in the construction of parts and in certain novel combinations of elements, substantially as hereinafter described, and particularly set forth in the subjoined claims.

The most important object of the present invention is to provide a device of the kind and for the purpose stated with means whereby the holding device or checking-arm may be locked against being adjusted automatically by the bolt, so as to thereby adapt the device to be used as an ordinary lock when desired—that is to say, to thereby prevent the door from being opened at all unless the bolt is first retracted. This object is well accomplished by the construction illustrated in the accompanying drawings, in which—

Figure 1 is a perspective view of a part of a door and its frame provided with our combined lock and check, showing the door closed and the holding device or checking-arm locked against being opened until the bolt is retracted. Fig. 2 is a perspective view of a part of a door and its frame provided with our door check and lock, showing the position of the parts when the door is opened to the fullest extent permitted by the engagement of the checking-arm or holding device and locking-bolt. Fig. 3 is a longitudinal section through the combined lock and door-check. Fig. 4 is a detail perspective view of one end of the checking-arm or holding device. Fig. 5 is an inverted plan view of the latch preferably employed as one member of the device with the base-plate thereof removed to disclose the internal parts.

The same numerals of reference designate the same parts in the several views.

1 designates one member of our device, having a projection 2, and 3 designates the other member of the device, provided with a holding means 4, which is designed to engage said projection and through its engagement therewith to permit a door to be partly opened and prevent it from being fully opened. In the present example of our invention we have shown the member 1 as secured to a door and the member 3 as secured to the door-frame. This arrangement is preferred, especially for doors which open inward into the room.

For reasons which will hereinafter fully appear the member 1 is preferably a rim or other suitable lock or night-latch, of which the projection 2 constitutes the bolt. As the construction of locks and night-latches is well known and as a particular construction thereof is not essential to the present invention, we do not deem it necessary to enter into a detail disclosure with respect thereto and consider it sufficient to state that 7, constituting the knob thereof and connected with the bolt or projection 2 by the pin or post 8, provides a means for adjusting said bolt or projection from within the room to thereby permit the door to be fully opened, while 9 is the ordinary member thereof through which the key is inserted from the outside of the door to operate upon the tumblers to thereby adjust



said bolt or projection from the outside, and 10 is a suitable spring having one of its ends secured to a post 11, around which it is coiled, and its other end suitably secured to said bolt 5 or projection 2 for automatically projecting said bolt when the same is released from the pressure imposed thereon during its retraction.

The member 3 of the device constitutes the 10 keeper. Pivoted to it at one end is the holding means or checking-arm 4, above referred to, and said holding means or checking-arm is arranged in the path traversed by the bolt or projection 2 while the door is being opened 15 with the bolt projected, whereby said bolt will engage said holding means or checking-arm and automatically adjust the same into position to restrict said opening of the door. In the form of the invention shown in the accompanying drawings said member 3 has an opening 20 presented to the bolt and also has an opening in its top face through which the projected bolt is free to move during the partial opening of the door, and said holding means 25 or checking-arm 4 is pivoted at its upper end to the member 3 and depends therefrom in line approximately with the edge of the door when said door is closed and is arranged in front of said opening, so as to be engaged and 30 lifted by the bolt when the latter is projected. While this arrangement is suitable for the purpose of our invention, the latter is not wholly restricted thereto. Said depending arm has at its non-pivoted end a lateral extension 4<sup>a</sup> to engage the front face of the bolt 35 2 when said arm has been raised to its horizontal holding position. Said bolt has a head at its free end which may be provided by a lateral extension 2<sup>a</sup> therefrom, which engages 40 the side of said holding device or locking-arm and coöperates therewith in preventing full opening of the door in an obvious manner.

From the above it will be seen that when 45 attempt is made to open the door without first retracting the bolt or projection 2 said bolt or projection engages the under surface of the holding device or checking-arm and raises the latter until the lateral extension 4<sup>a</sup> from said holding-arm engages the front face 50 of the bolt or projection 2, at which time the door is sufficiently ajar to permit the person within the room to see and communicate with the person outside the room without giving entrance to the latter. If it is desired to permit entrance of said person, the door is closed, 55 and the bolt or projection 2 is retracted by movement of the knob 7 to the right, in which position said bolt or projection is free of the holding means. It will also be seen that when 60 the night-latch shown is employed as one of the elements of the device said bolt or projection may be retracted from without the room by one having a key which fits said latch.

The upper edge of the checking-arm is approximately square or otherwise suitably 65 formed, so that when said arm is turned into its holding position its said upper edge will

engage the front face of the member 3 and stop further upward movement of said arm. Said checking-arm near its pivoted end and 70 at the side presented to the bolt or projection 2 is beveled, as shown at 4<sup>b</sup> in Fig. 4, and the rear surface of said bolt or projection is correspondingly beveled, so that in the closing of the door after the same has been com- 75 pletely opened said beveled surfaces engage each other and cause said bolt to be automatically thrust backward, so as to clear said holding device or checking-arm, and when it 80 has cleared said holding device or checking-arm it is automatically thrust forward by the spring 10 into position to engage and elevate said checking-arm when attempt is made to open the door without first retracting said 85 bolt.

A most important part of the present invention consists in the application to a combined lock and door check of a means whereby the checking-arm may be locked in the path of the bolt, so as to prevent any opening 90 movement whatever of the door unless the bolt is first retracted. To this end we prefer to provide the member 3 with a pivoted locking device 12, having a head 13 which may be turned into engagement with 95 said arm when it is desired to convert the device into an ordinary "night-latch," so to speak. When thus turned, as shown in Fig. 1, the device operates as an ordinary night-latch and the door cannot be pushed inward until 100 the bolt is retracted, which can only be accomplished by one within the room or by a person outside the room provided with a proper key, as above explained.

The construction, operation, and advantages 105 of our device will be readily understood from the above description thereof, and it will be seen that the invention is not restricted to the detail construction disclosed, but that said detail construction is merely 110 typical of a suitable embodiment thereof. Inasmuch, however, as said detail construction is simple, reliable, and thoroughly practical, it is made the subject-matter of some 115 claims restricted thereto.

Having thus described the invention, what we believe to be new, and desire to secure by Letters Patent, and what we therefore claim, is—

1. A combined door check and lock, comprising a lock proper having a bolt and a 120 keeper, said keeper having a pivoted checking-arm arranged to be lifted by said bolt when the latter is projected and the door being opened, and said bolt and arm having 125 lateral projections at their free ends, whereby the opening of the door is checked when said bolt is projected, means operated to retract said bolt when the door is closed to thereby cause it to clear said arm, means adjustable 130 to lock said arm against movement by the bolt, and a spring for pressing said bolt outward, said bolt having a beveled surface and said arm having a beveled surface presented



to said bolt and coöperating with the bevel thereof to cause automatic retraction of the bolt in the closing of the door.

2. A means for preventing full and per-  
5 mitting partial opening of a door, said means having two members designed to be secured to a door and its frame respectively, one of said members comprising a lock proper and the other of said members comprising a  
10 keeper, said lock having a bolt and provided with means by which said bolt may be retracted both from within and without the room when the door is closed and also provided with a spring for automatically pro-  
15 jecting said bolt; and said keeper embodying a casing having an opening presented to said bolt and also having an opening in its top surface through which the bolt when projected moves during the opening of the door,  
20 a checking-arm pivoted at one end to said casing and projecting over the opening in the top surface thereof so as to be engaged and lifted by said bolt when the latter is projected and a device adjustable to lock said arm  
25 against movement by the bolt when desired; said bolt and arm having lateral projections at their free ends, and said arm having a beveled surface arranged to engage said bolt

and cause retraction thereof while the door is being closed.

3. A means for preventing full and per-  
mitting partial opening of a door, said means having two members designed to be secured to a door and its frame respectively, one of said members having a bolt and means by  
35 which the same may be projected and retracted, and the other of said members constituting a keeper and comprising a casing having an opening presented to said bolt and also having, in its front face, an opening  
40 through which the bolt is free to move when projected, a checking-arm pivoted to the front face of said casing and arranged over the latter opening and in the path of move-  
45 ment of the bolt when the latter is projected, and a locking device for said arm pivoted to said casing and adapted to project over said arm and thereby lock the same, substantially as described.

In testimony whereof we affix our signa-  
50 tures in presence of two witnesses.

ADAM KALB.

ALFRED A. R. BERGER.

Witnesses:

PETER G. MEDAU,

FRANZ KALB.