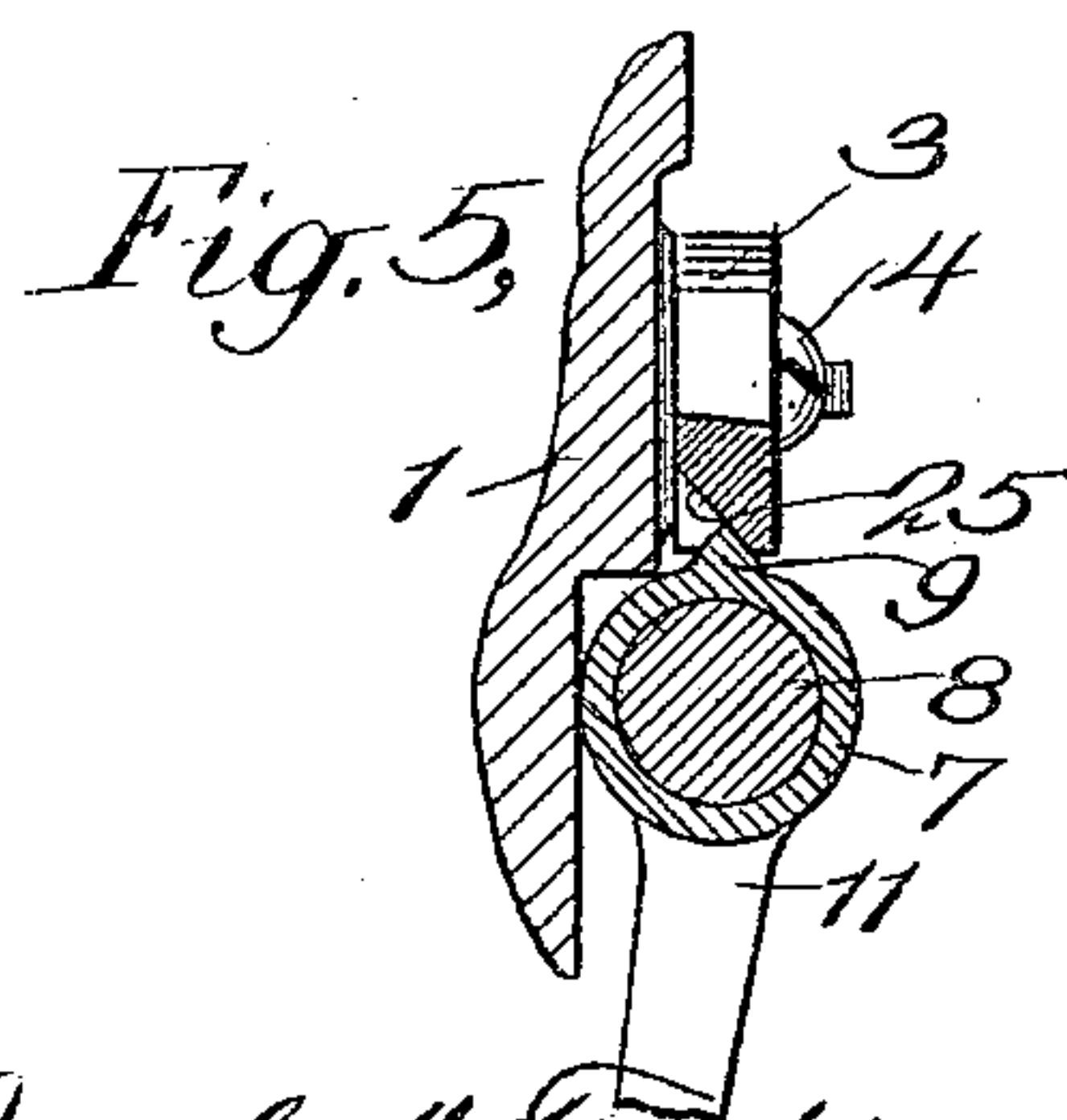
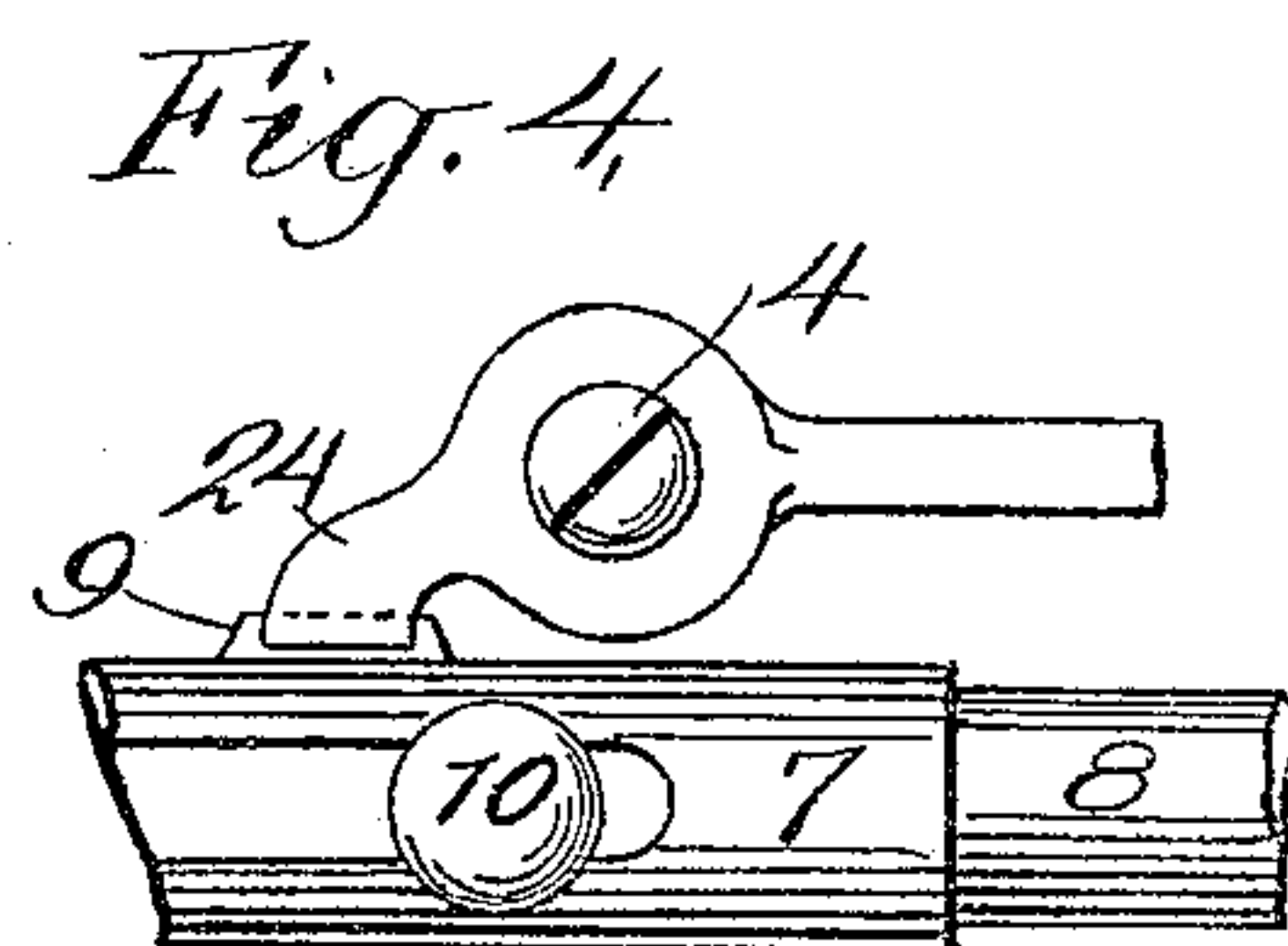
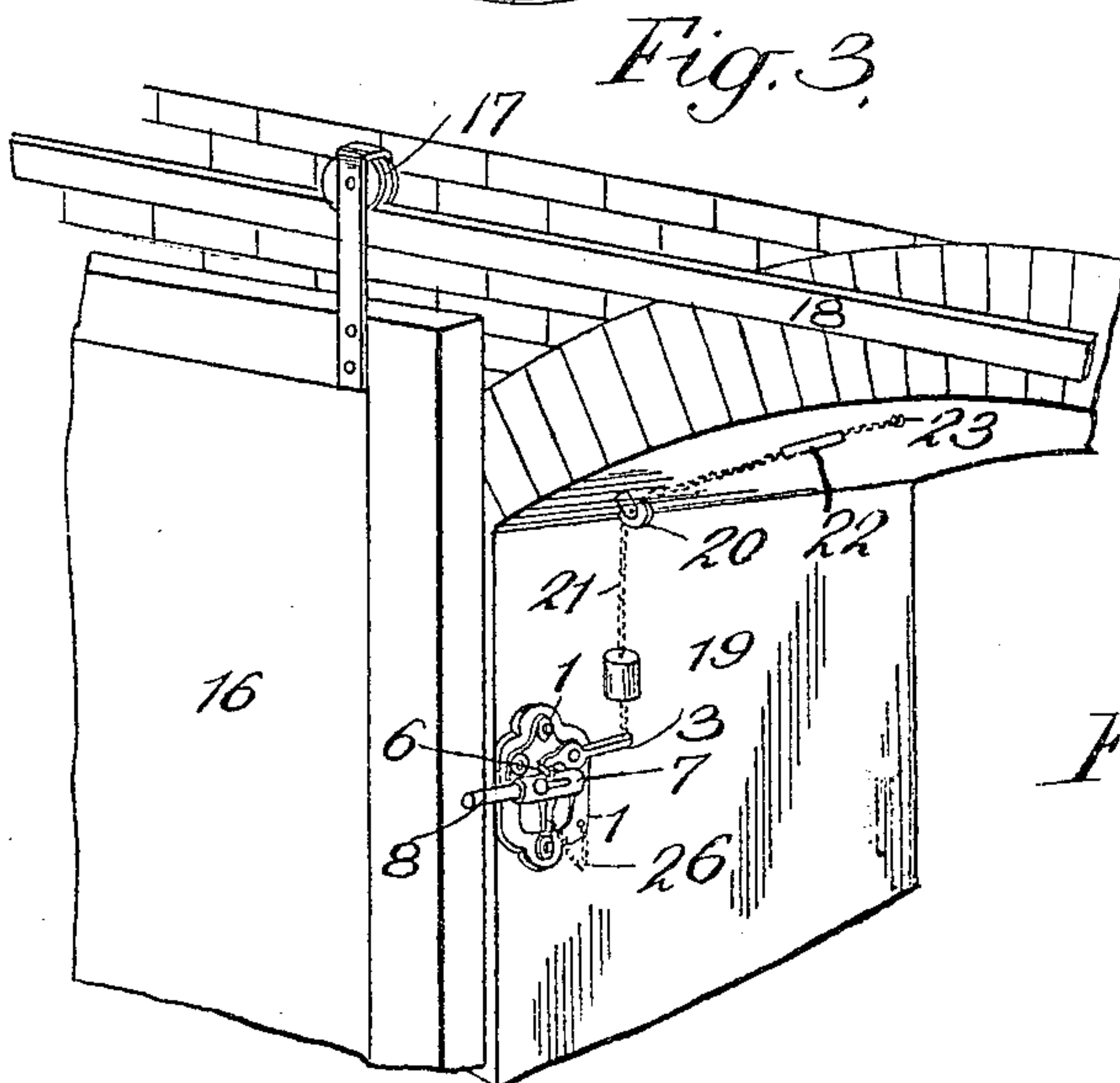
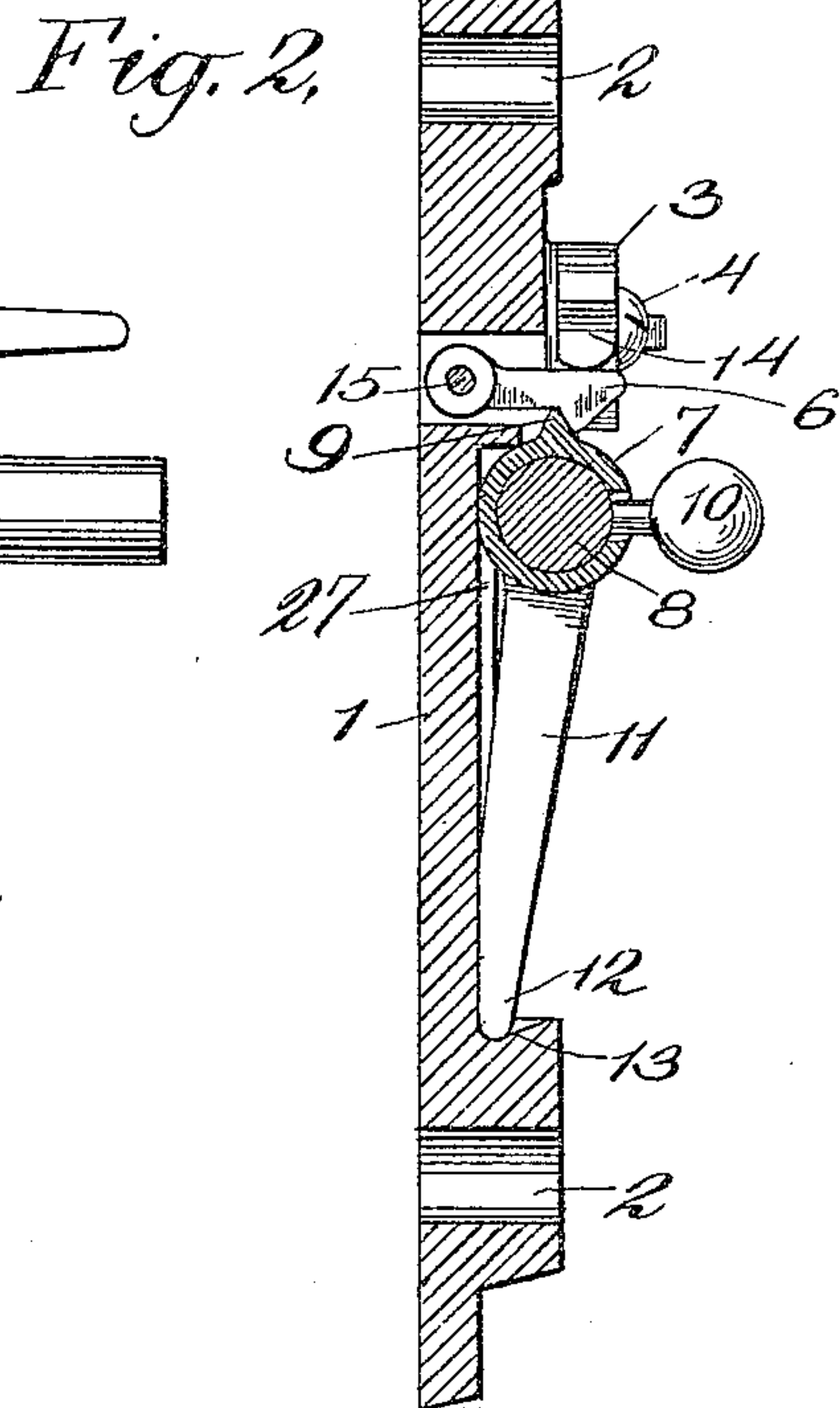
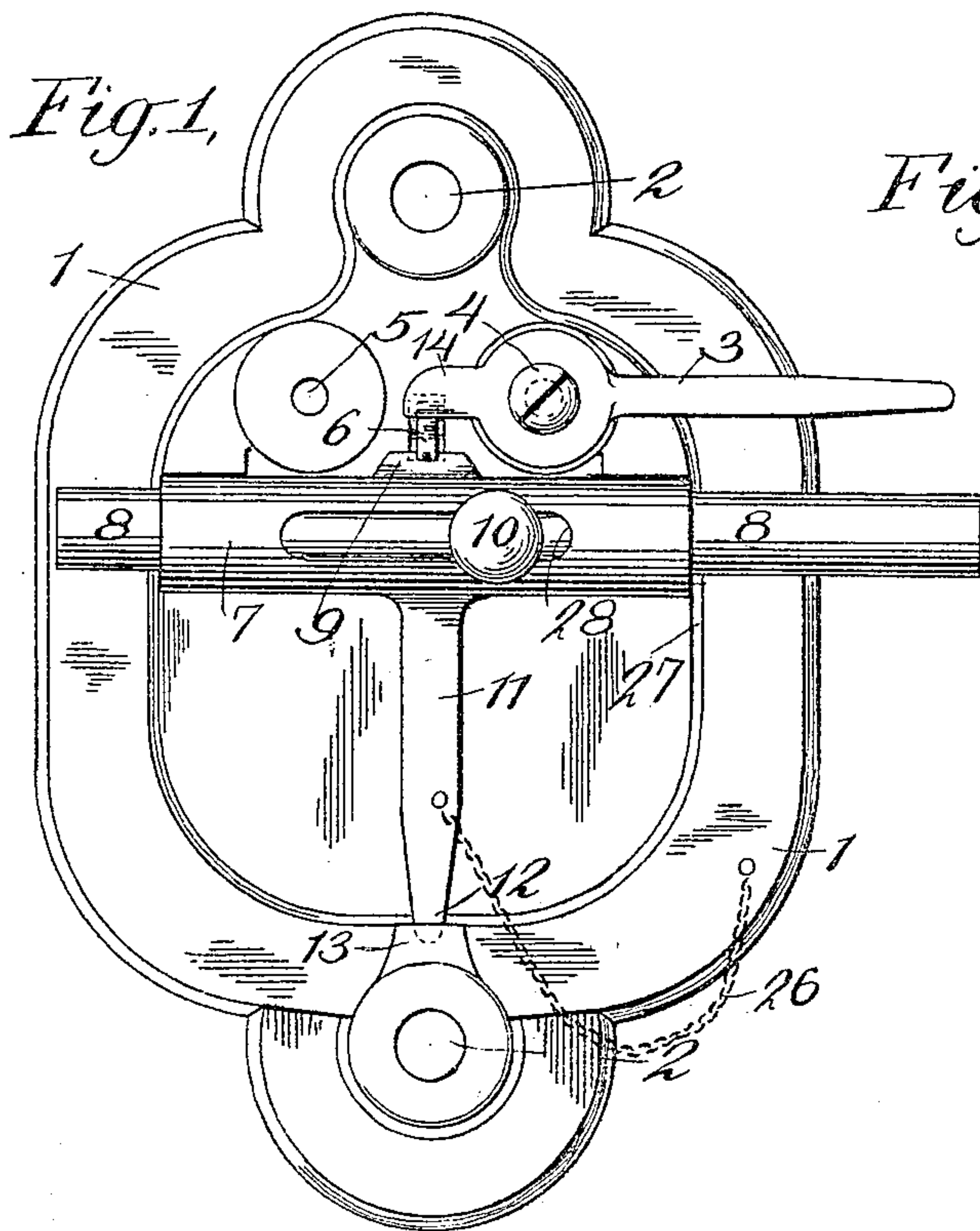


No. 800,958.

PATENTED OCT. 3, 1905.

J. W. TRIPP.
DOOR CONTROLLING APPARATUS.
APPLICATION FILED APR. 17, 1903.



Witnesses
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UNITED STATES PATENT OFFICE.

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DOOR-CONTROLLING APPARATUS.

No. 800,958.

Specification of Letters Patent.

Patented Oct. 3, 1905.

Application filed April 17, 1903. Serial No. 153,061.

To all whom it may concern:

Be it known that I, JACOB W. TRIPP, a citizen of the United States, and a resident of New York city, in the county and State of New York, have invented certain new and useful Improvements in Door - Controlling Apparatus, of which the following is a specification, taken in connection with the accompanying drawings.

10 This invention relates to door-controlling apparatus particularly adapted for use in connection with automatic apparatus for closing fire-doors.

15 In the accompanying drawings, in which the same reference-numerals refer to similar parts in the several figures, Figure 1 is a front view of apparatus embodying this invention. Fig. 2 is a side sectional view of the same. Fig. 3 shows this apparatus mounted to control a door-opening. Fig. 4 is a partial front view illustrating a modified construction. Fig. 5 is a side sectional view of the same.

20 This invention may take the embodiment illustrated in the accompanying drawings and preferably comprises a lock which, as is indicated in Figs. 1 and 2, is formed with the plate 1 constructed with suitable attaching-holes 2 and with a suitable edge flange 27. A movable support is mounted upon this lock-plate, and the support serves to carry a catch or other device preferably movably mounted upon the support to cooperate with the door and to control the closing of the same. The support may be formed as is indicated, the support 11 being detachably mounted upon the plate, the portion 12 of the support engaging a suitable socket or depression in the plate. If desired, the support may be loosely attached to the plate by a suitable chain 26 or other attaching device. The catch may take the form of the sliding bolt 8, which is shown as movably mounted upon the support, being guided by the bolt-sleeve 7, and a suitable handle 10 being provided to operate this bolt, the handle passing through the slot 28 indicated. In this way the bolt may be manually operated so as to properly engage a door or other device to control the closing of the same. As is indicated, the bolt-sleeve engages the flange 27 and is supported longitudinally thereby.

Suitable automatic devices are preferably

employed to normally maintain the support in position upon the plate. The support, as is indicated, is formed with the detent 9, which may be given the beveled or inclined form indicated and with which a retainer, which may be formed as a pivoted lever 14, cooperates to releasably hold the support and bolt in operative position. The retainer 14 is indicated as pivoted to the plate by the screw or bolt 4, which is adapted to cooperate with either one of the two symmetrical holes 5 in the retainer-bosses formed on the plate. The retainer may engage the detent directly, as indicated in Figs. 4 and 5, in which the beveled nose 25 of the retainer has a direct engagement with the detent 9, or, if desired, the latch 6 may be employed, which, as indicated in Figs. 1 and 2, is pivoted about the point 15 and is held in engagement with the detent by the retainer 14, these parts having such engagement that in either case the pressure upon the bolt or catch tends to disengage the parts and to release the support from the holding means cooperating therewith.

Fig. 3 indicates the way in which this device may be used in connection with a self-closing door, the door 16 being indicated as supported by trolleys 17 upon the inclined track 18, so that it normally tends to close the door-opening indicated. The lock-plate is preferably mounted adjacent the path of the door, so that the catch may be projected into engagement with the door extending across the path of travel of the door, as indicated. The end 3 of the retainer is shown as connected by the chain 21 with a thermal fuse 22, this chain passing over the pulley 20 indicated and being secured to a suitable bolt or other fastening device 23. If desired, the weight 19 may be used in connection with this chain, the weight serving in case of the automatic operation of the device to engage the retainer and by its impact secure the automatic operation of the device, positively releasing the parts in this way.

It is of course understood by those familiar with this art that many variations may be made in the form, proportion, and numbers of parts of this device without departing from the spirit of this invention or losing the advantages of the same. I do not, therefore, desire to be limited to the disclosure which

has been made in this case; but what I claim as new, and what I desire to secure by Letters Patent, is set forth in the appended claims.

I claim—

5 1. In door-controlling apparatus, a lock-plate formed with a socket, with an edge flange and with retainer-bosses symmetrical about the center of the same, a support engaging said socket and said flange, a bolt mounted in
10 said support, a beveled detent formed on said support, a latch mounted in said plate and formed with a beveled end engaging said detent, a pivoted retainer mounted on one of
15 said bosses and engaging said latch to hold said support in position and a chain provided with a weight and a thermal fuse secured to said retainer.

20 2. In door-controlling apparatus, a plate formed with a socket, a support engaging said socket and formed with a beveled detent and a pivoted retainer on said plate coöperating with said beveled detent to disengageably secure said support on said plate.

3. In door-controlling apparatus, a plate, a support provided with a relatively movable
25 catch and a movable retainer on said plate to be connected with a thermal fuse and detachably hold said support upon said plate.

4. In door-controlling apparatus, a plate, a support detachably mounted on said plate, a
30 catch relatively movable on said support and a movable retainer on said plate to coöperate with said support to hold the same on said plate.

5. In door-controlling apparatus a plate, a
35 support, a movable catch mounted on said support and a movable retainer on said plate to detachably hold said support in position thereon, the coöperating faces of said retainer being shaped to cause the pressure upon said
40 catch to tend to disengage said catch and said plate.

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Witnesses:

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