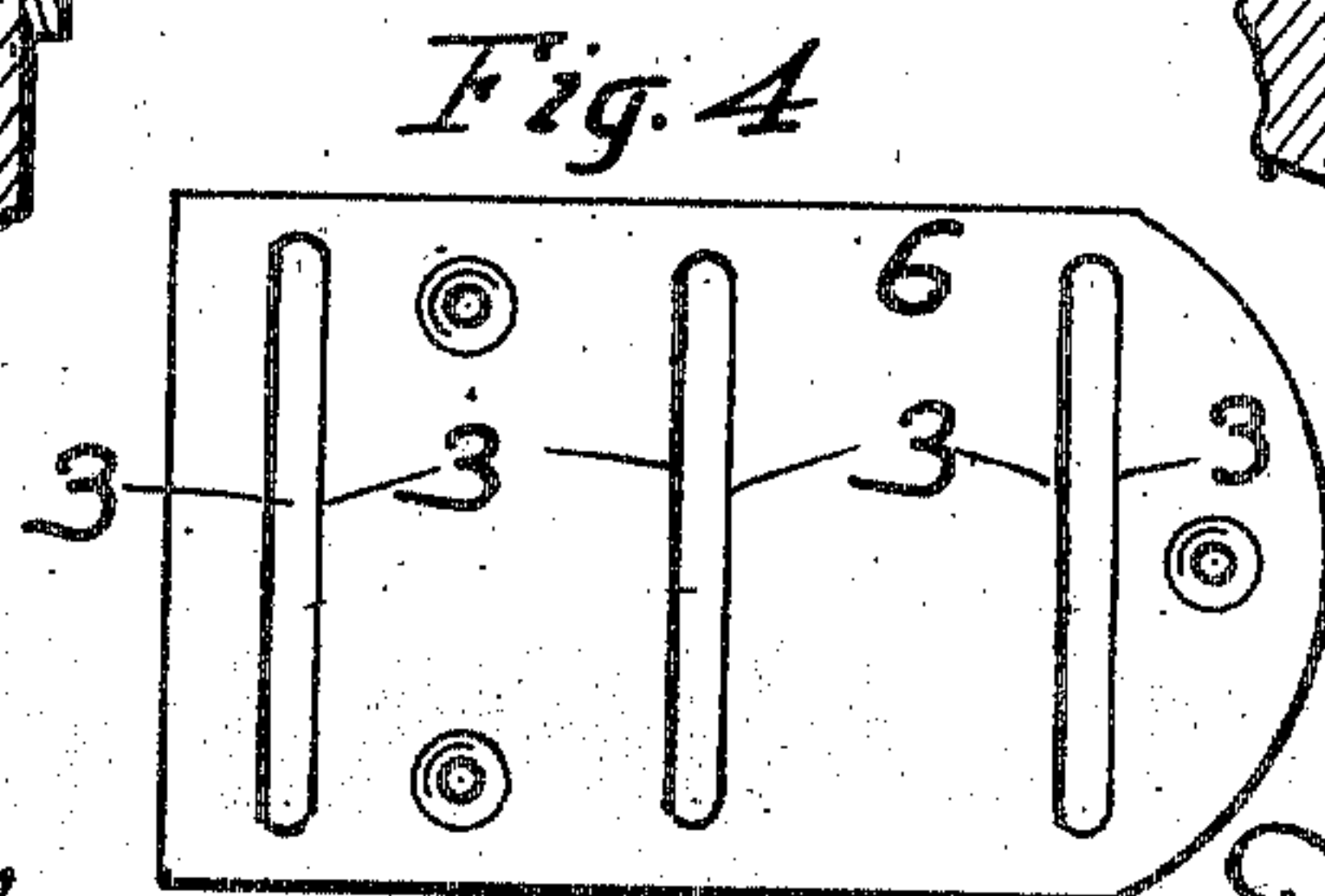
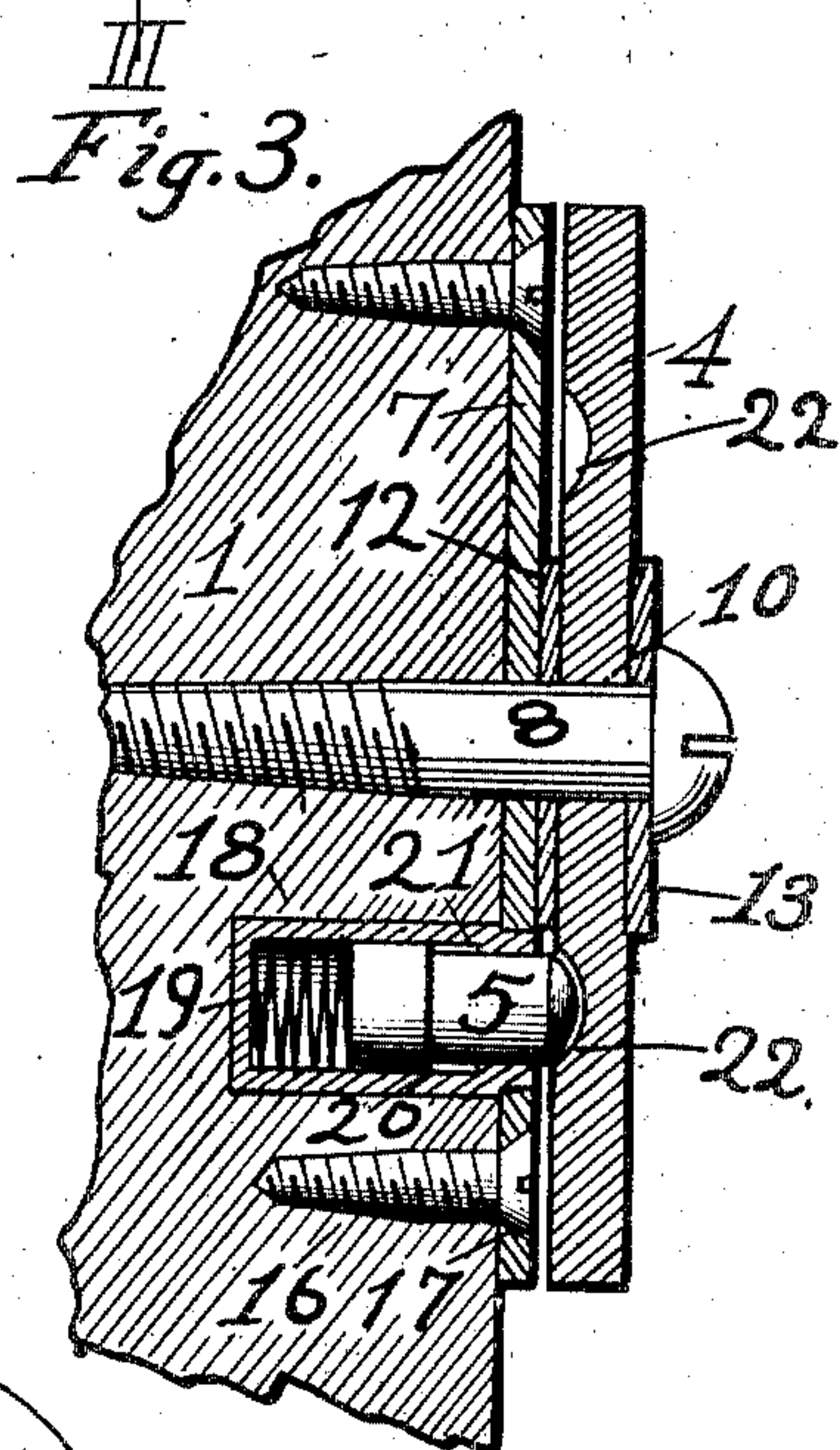
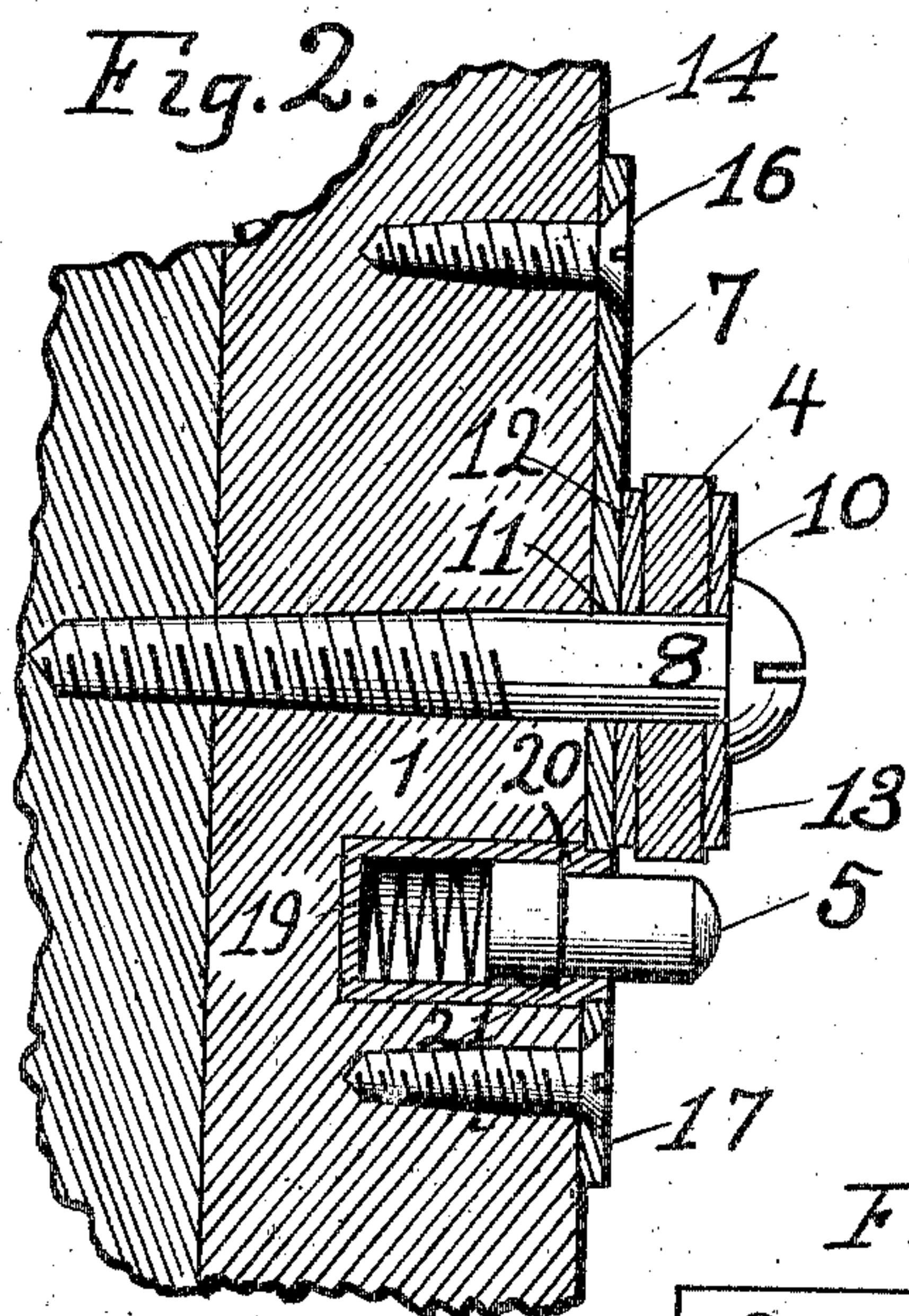
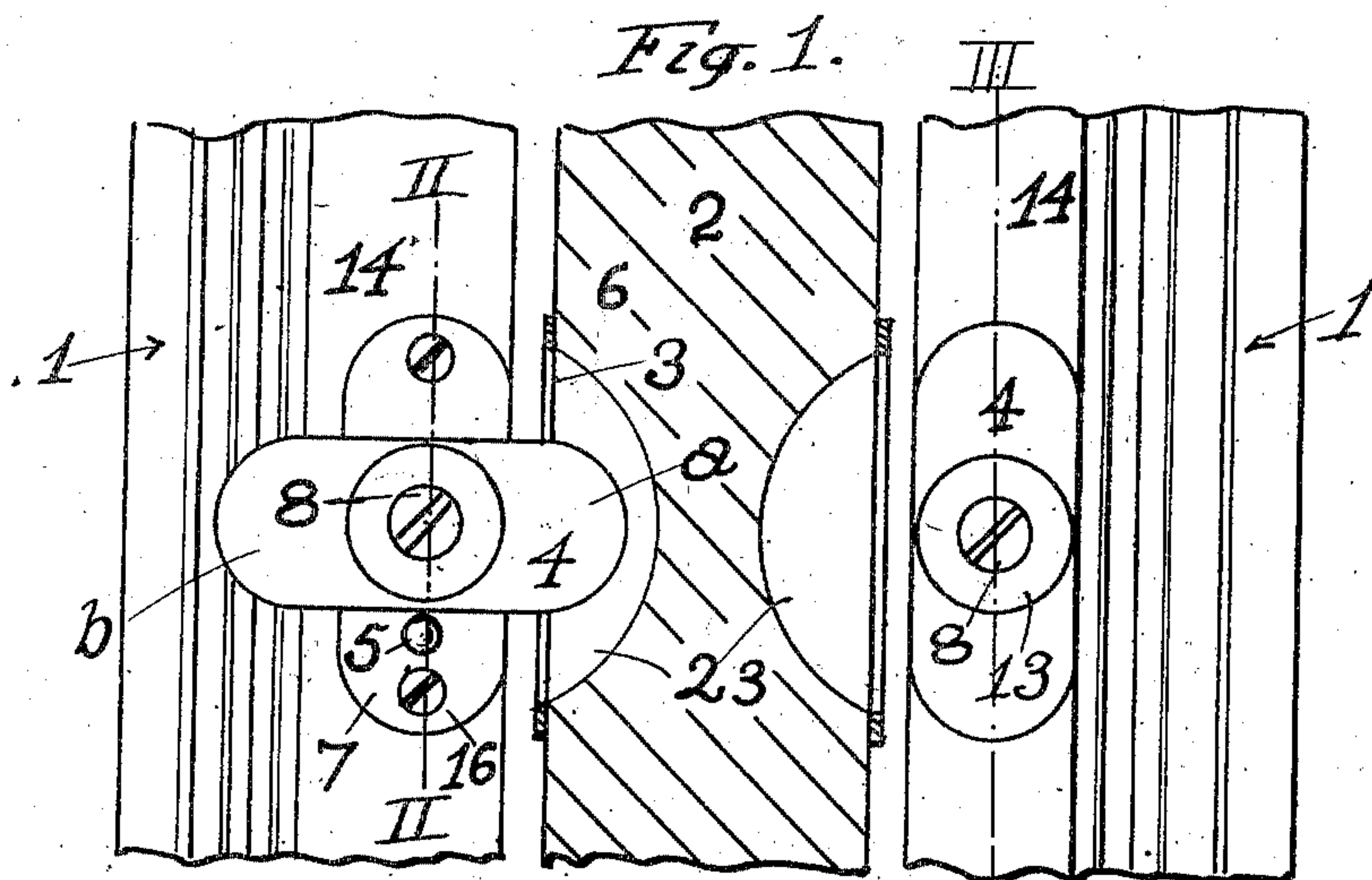


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FASTENING DEVICE FOR EDGEWISE MOVING CLOSURES AND THE LIKE.  
APPLICATION FILED JULY 11, 1904.

966,865.

Patented Aug. 9, 1910.



Witnesses:  
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# UNITED STATES PATENT OFFICE.

DANIEL SCHUYLER, OF BRIDGEPORT, CONNECTICUT, ASSIGNOR TO THE PERFECT SLID-  
ING DOOR COMPANY, OF LOS ANGELES, CALIFORNIA, A CORPORATION OF CALI-  
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FASTENING DEVICE FOR EDGEWISE-MOVING CLOSURES AND THE LIKE.

966,865.

Specification of Letters Patent.

Patented Aug. 9, 1910.

Application filed July 11, 1904. Serial No. 216,120.

*To all whom it may concern:*

Be it known that I, DANIEL SCHUYLER, a  
citizen of the United States, residing at  
Bridgeport, in the county of Fairfield and  
State of Connecticut, have invented new  
and useful Fastening Devices for Edge-  
wise-Moving Closures and the Like, of  
which the following is a specification.

Objects of this invention are to provide a  
neat, attractive, unobtrusive, cheap, simple,  
easily applied and effective means for hold-  
ing a sliding door or the like, wholly or par-  
tially open, and adapted for securely lock-  
ing such door in such positions; to provide  
simple means for holding a self-closing door  
open and also closed; to provide for posi-  
tively locking such door fully open and fully  
or partially closed, and to allow a large ver-  
tical adjustment of the closure without in-  
terfering with the operation of the fastening  
means.

The invention includes a novel manufac-  
tured article in the form of a locking button  
and it also includes other features and com-  
binations hereinafter more particularly de-  
scribed.

The invention includes a post, an edge-  
wise moving door or other closure having a  
keeper, a button on the post to engage the  
keeper and means for holding the button in  
catching engaging position. Desirably a  
door is provided with a plurality of keepers  
in its face, with any of which the engaging  
means may engage for holding the door in  
a partly open or entirely closed position.  
To accomplish this I provide a button in the  
form of a pivoted plate and provide one or  
more vertical slots in the face on the door  
into which the end of the button moves  
when turned crosswise of the post.

Another object is to provide an effective  
and safe keyless fastening means adapted  
for application at a uniform height at both  
sides of a sliding door so that the occupants  
of each of two communicating rooms may  
lock the door independently of the other,  
when the door is closed, but when the door  
is open the symmetry of its appearance will  
not be marred by the keyless fixtures.

The accompanying drawings illustrate the  
invention.

Figure 1 is a view of a device embodying  
this invention applied in combination with  
a sliding door. Fragments of the posts and

door are shown. The door and its catch  
plate are in section. The door is shown  
locked by one button, and the other button  
is shown in unlocking position. Fig. 2 is a  
sectional view of the locking button and a  
stop therefor on line II—II Fig. 1 showing  
the locking button in locked position. Fig.  
3 is a like section on line III of Fig. 1 show-  
ing the button yieldingly held in unlocking  
position. Fig. 4 is a side view of a catch  
plate for the door.

1, 1, designate door posts; 2 an edgewise  
moving door; 3 keepers thereon; 4 a button  
pivoted to each post 1 to swing transversely  
to the door to engage the keepers on the door  
and 5 is an automatic stop holding the but-  
ton in locking position.

6 is a catch plate desirably constructed to  
be applied to the face of the door and hav-  
ing slots which form the keepers 3 in the  
form shown.

7 is a perforated back plate and 8 is a  
pivot screw passing through the button and  
plate and screwed into the door post.

The button 4 and the back plate 7 are de-  
sirably of the same shape so that both may  
be struck from sheet metal by the same die,  
and both are perforated at the center as  
shown at 10 and 11 to admit the pivot screw.

12 is a washer between the plate and the  
button to hold the button slightly away  
from the plate so that it may be readily  
grasped by the fingers.

13 is a washer on the outside of the but-  
ton against which the head of the screw 8  
presses. Said screw is desirably screwed into  
the wooden stop 14 of the door post and can  
be screwed to any desired tightness to allow  
the button to move freely and to take up  
any wear. The back plate 7 is provided  
with means for fastening the same inde-  
pendently to the door post. This is prefer-  
ably done by screws 16 through perforations  
17 in said plate.

18 is a case at the back of the plate 7 in  
which the stop 5 moves being pressed out-  
ward by a spring 19 and retained by a shoul-  
der 20 on the stop engaging a shoulder 21  
in the case.

22 designates beveled recesses on the back  
side of the button into which the stop 5 will  
be pressed when the button is at its unlocked  
position. The recess and the head of the  
stop are rounded to allow the catch thus



formed to be released when pressure is applied to turn the button into door locking position. The button preferably has two arms as *a b* as shown in the drawings, but it is obvious only one arm is necessary to effect the locking. The other arm serves as a convenient handle for the fingers to grasp to turn the button.

When the button is turned into door locking position the stop springs out into the way between the two arms *a b* so that no matter which way pressure may be applied to turn the button it will be securely held by engagement of the stop with one or the other arm. In this position the stop 5 is exposed so that it may be pushed out of the way of the button by a person on the side of the door on which the button is located.

In installing this device on the door the catch plates may be applied at appropriate height on the door directly opposite each other and fastened by screws. Then holes or recesses 23 over which catch plate 6 is secured may be gouged out of the wood of the door. The slots in said catch plates form perfect guides for forming the holes in the door and are preferably of about the length of the button so as to allow considerable vertical adjustment of the door either up or down without interfering with the button. The width of the catch plate preferably corresponds with the length of the button to give a uniform appearance to the fixture.

A locking device of a compact and neat appearance results from the two oblong centrally perforated plates constituting button 4 and back plate 7, being pivotally connected by means of screw 8 in such a manner that the button 4 covers the plate 7 when the button is unlocked. The perforation for the stop 5 is located at a distance from the axis of the pivotal means approximately equal to one-half of the width of the button 4 by reason of which construction the stop 5 is adapted, without the coöperation of any other stop means to hold the plate 4 against swinging in either direction.

By this invention any number of keepers may be employed for locking the door partly and wholly closed, and when it is wished to lock the door wholly open as is often desirable with gravity closing doors, this can be done by simply turning the button into locking position in front of the edge of the door when the door is wholly open.

When the device is in the locked position shown at the left in Fig. 1 it is secure against release by any one attempting to reach and unlock it from the opposite side of the partly closed door by means of a rod or other common instrument.

The stop is arranged so that it is concealed when the button is in unlocking position and the button covers the back plate

thus to give a simple and unobtrusive appearance when the button is not in use.

The stop 5 seating in its socket at the back of the button will invariably bring the button into exact position to cover the back plate and will firmly hold it there in perfect alinement with such plate, thus avoiding all danger that the button may accidentally swing into position to mar the moving door. Said stop, being mounted as shown, is adapted to move into and out of the path of the button, under alternating pressures, respectively, of the spring 19 and of some external object as the finger of the operator, not shown.

The button preferably consists in an oblong plate the ends of which are duplicates and are rounded as shown, so that either end of the button will enter the slot when turned for this purpose.

What I claim and desire to secure by Letters Patent of the United States is,

1. The combination with a door post and an edgewise moving door, of a button pivotally mounted on the post to swing in a plane transverse to the door, one end of said button being adapted to swing into a narrow recess in said door, and a catch plate secured over said recess and having a slot over said recess in position to receive said end of said button.

2. The combination with a door post and an edgewise moving door, of a button pivotally mounted on the post to swing in a plane transverse to the door, one end of said button being adapted to swing into a narrow recess in said door, a catch plate secured over said recess and having a slot over said recess in position to receive one end of said button, said button having a recess on its under side, and a spring actuated plunger tending to move into said recess in the button.

3. The combination of two oblong centrally perforated plates, with means in the central perforation of said plates pivoting the upper of said plates to the lower, there being a second perforation through the lower plate located at a distance from the axis of said pivoted means approximately equal to one-half the width of the pivoted plate, a stop in said perforation, and a spiral spring located beneath the last named perforation to normally hold the stop in the path of the pivoted plate, said lower plate being provided with means for fastening the same to a support.

4. The combination with an edgewise moving door and a door post, of a slotted plate on the door, a fixed plate on the post, a screw in said fixed plate and post, and an oblong plate pivoted on said screw and provided with duplicate rounded ends either of which is adapted to engage said slotted plate.



5. A door fastener comprising a perforated plate, means to secure the same to a post, a stop mounted in said plate, a slotted catch plate, means to secure the same to a door, an oblong centrally perforated plate having rounded ends and also having one or more face concavities for said stop, and a screw to pivotally secure said oblong plate and said perforated plate together.
- 10 6. A fastener comprising a catch plate provided with a plurality of slots, means to fasten the same to the side of a door, a perforated plate, means to fasten the same to a door post, a flat plate having duplicate ends

to enter said slots respectively at different positions of the door, a centrally arranged pivot pivoting said plate to the perforated plate, and a stop in said perforated plate adapted to engage said ends respectively to hold the flat plate in catching and releasing positions.

In testimony whereof, I have hereunto set my hand at Bridgeport Connecticut this 9th day of July 1904.

DANIEL SCHUYLER.

In presence of—

JAMES R. TOWNSEND,  
ELIZABETH LEONARD.