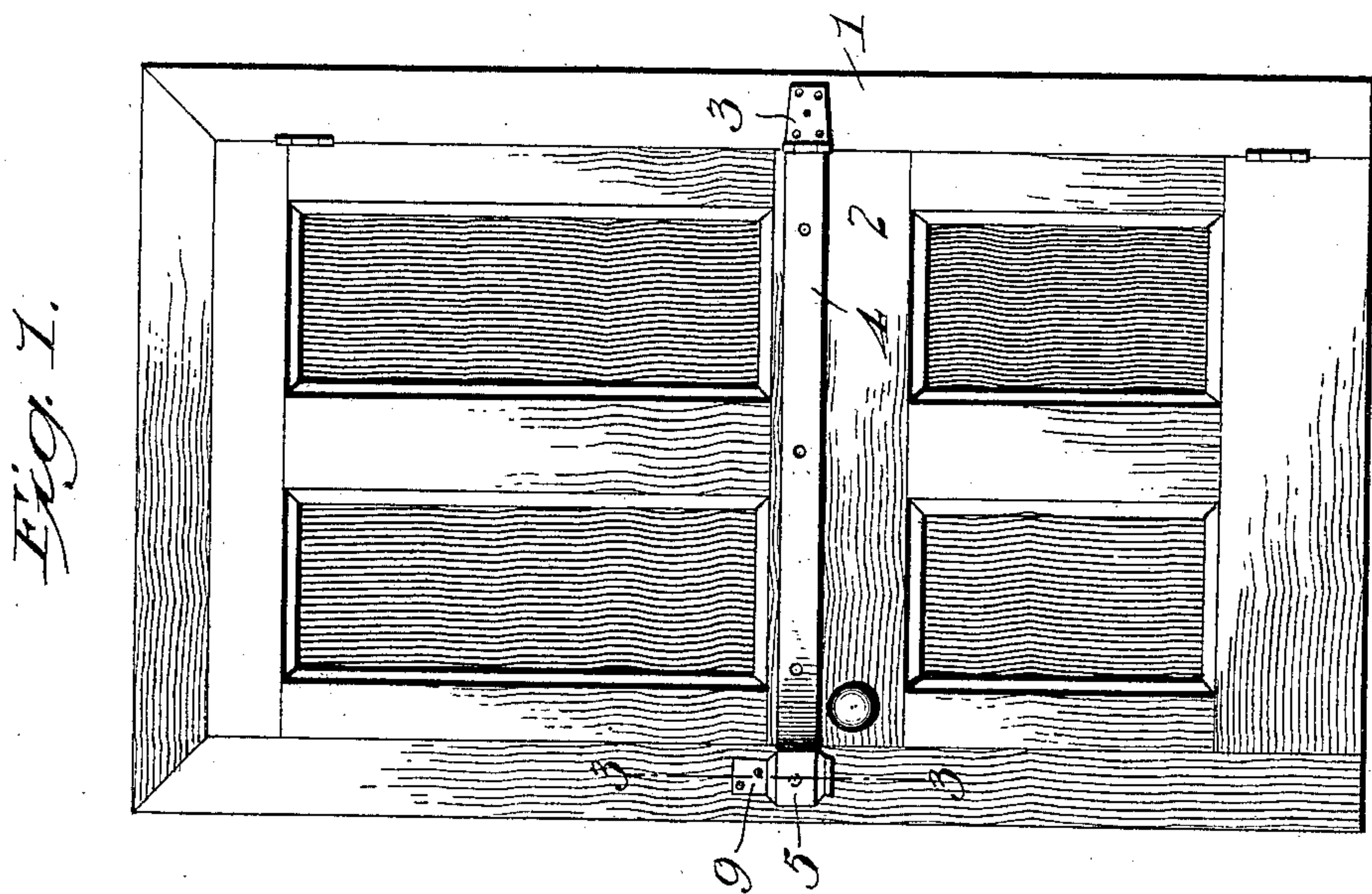
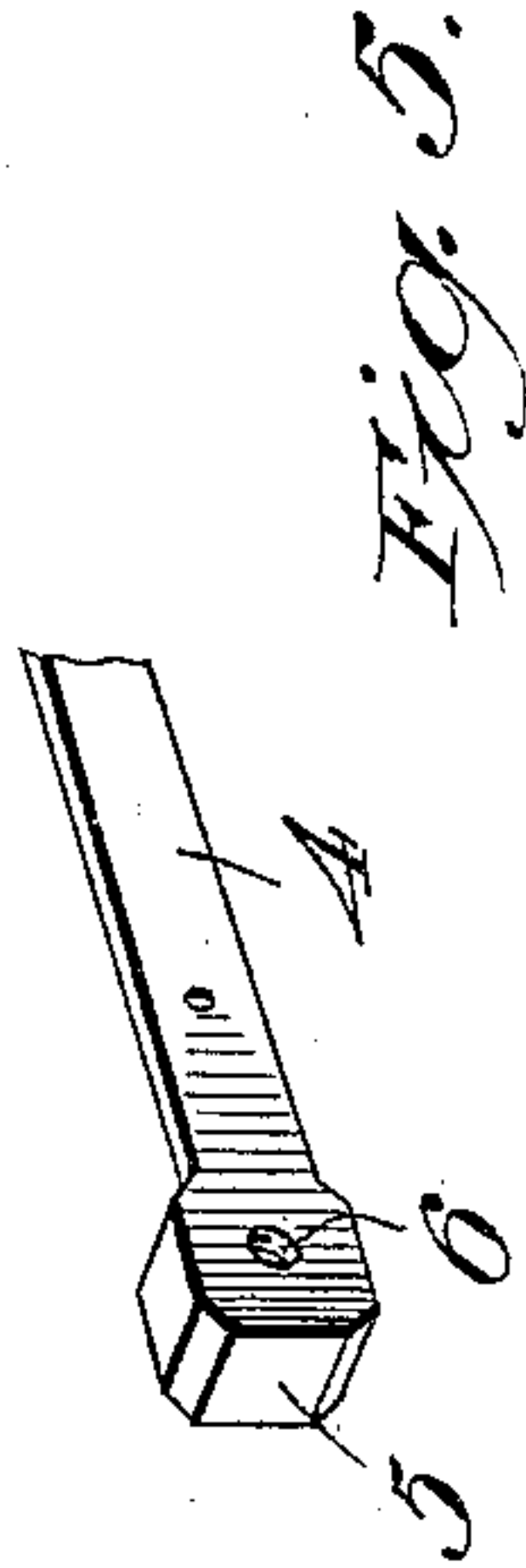
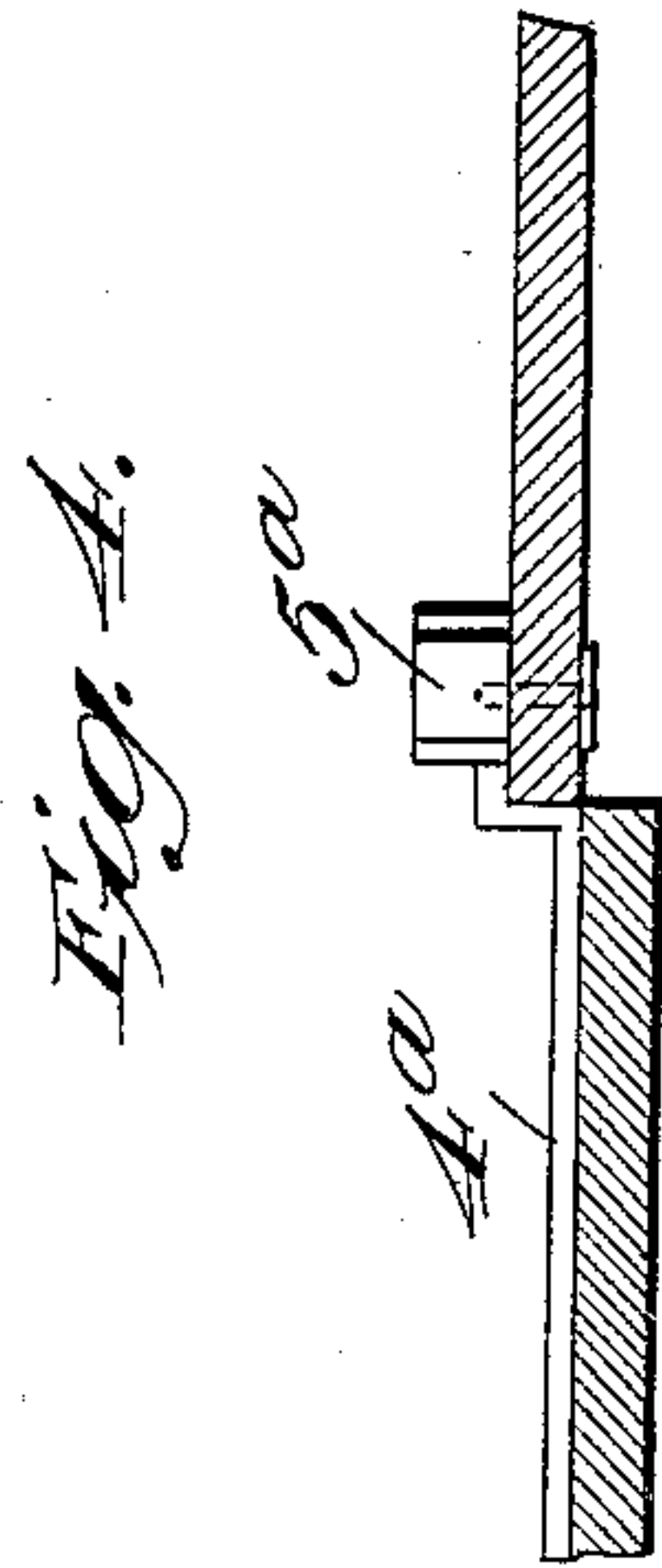
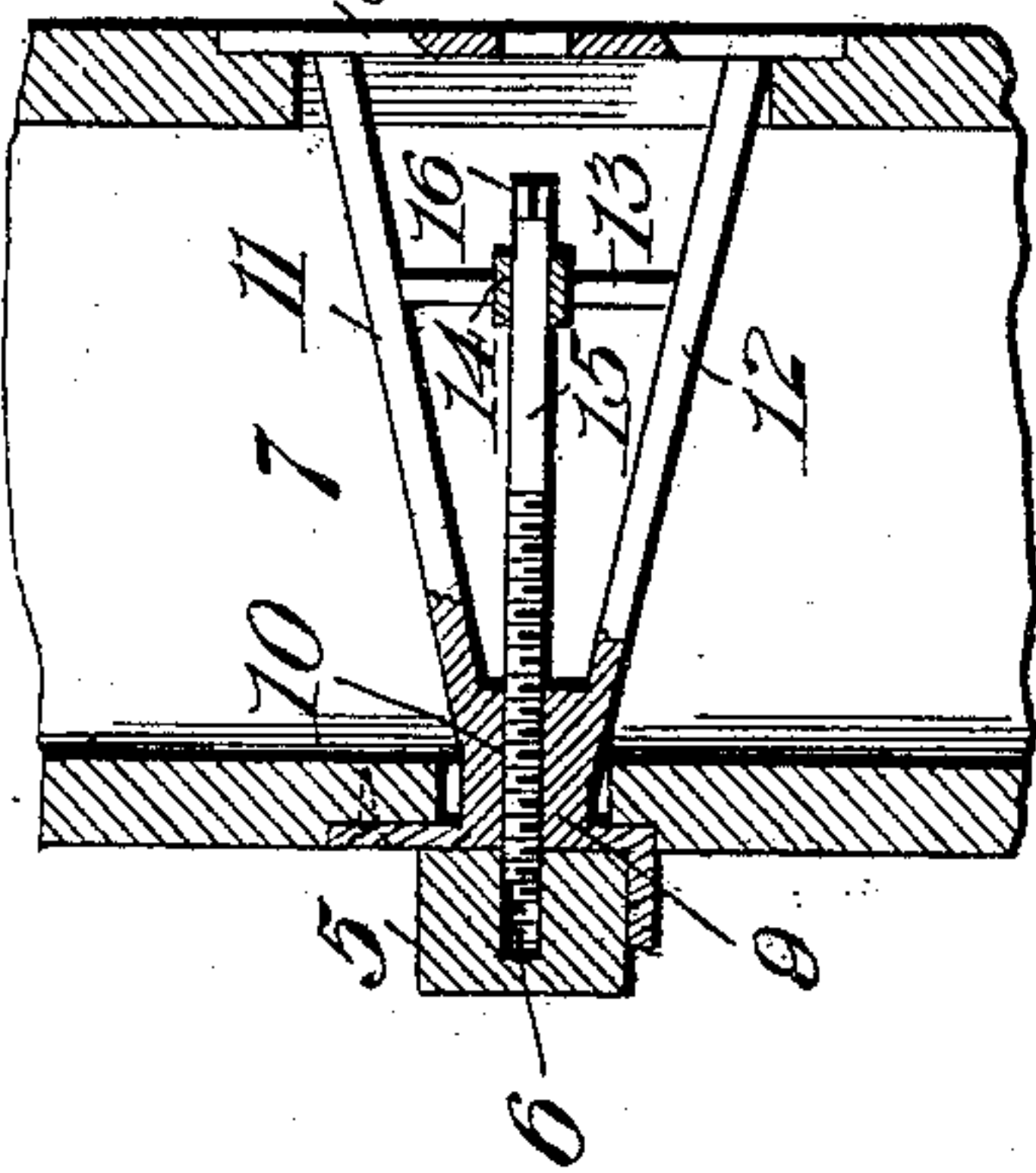
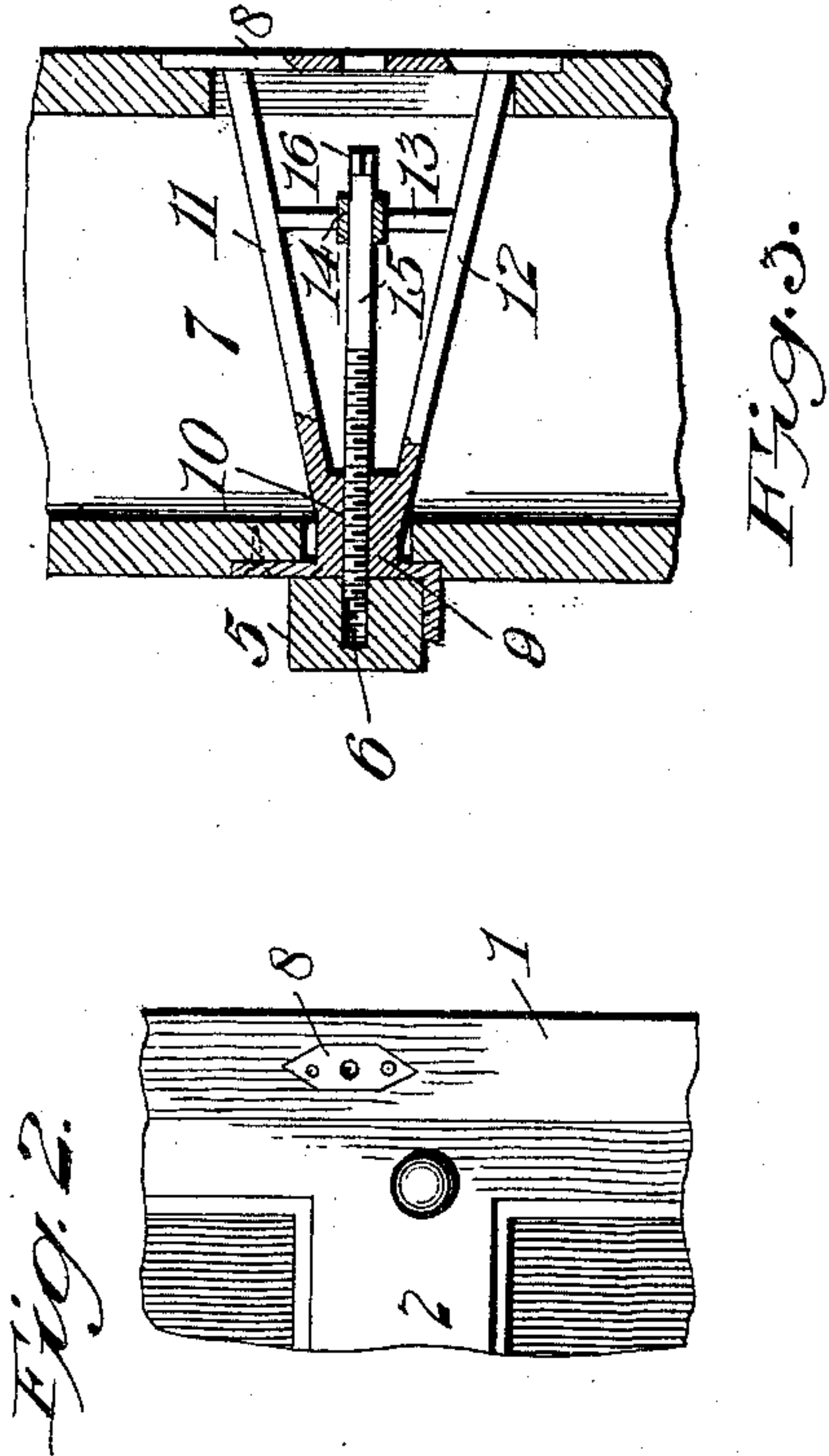


M. RITCHEL.
DOOR FASTENING DEVICE.
APPLICATION FILED FEB. 2, 1909.

940,362.

Patented Nov. 16, 1909.



Inventor

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UNITED STATES PATENT OFFICE.

MAX RITCHEL, OF CENTERVILLE, IOWA.

DOOR-FASTENING DEVICE.

940,362.

Specification of Letters Patent.

Patented Nov. 16, 1909.

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To all whom it may concern:

Be it known that I, MAX RITCHEL, a citizen of the United States, residing at Centerville, in the county of Appanoose and State of Iowa, have invented certain new and useful Improvements in Door-Fastening Devices, of which the following is a specification, reference being had therein to the accompanying drawing.

This invention relates to fastening devices for doors or gates, and has for its object the provision of means for facilitating the locking of a door and preventing the same from being unlocked without the use of the proper key.

Another object of this invention is the production of a lock, which is efficient in operation and consists of a comparatively small number of parts.

With these and other objects in view this invention relates to certain novel constructions, combinations and arrangements of parts as will be hereinafter fully described and claimed.

In the drawings: Figure 1 is a plan view of a door, showing my locking device applied thereto. Fig. 2 is a fragmentary view, showing an outside view of the door. Fig. 3 is a sectional view taken on lines 3—3 of Fig. 1. Fig. 4 is a modification of the locking-member, and Fig. 5 is a detail perspective of the enlarged head of the hinged locking-member.

Referring to the drawings by numerals 1 designates a support to which is hinged a door 2. To the support 1, near the center thereof is secured the primary portion 3 of the locking-member, and to the door 2 is secured the auxiliary hinged portion 4 of the locking-member. The auxiliary hinged portion 4 is provided at its opposite end with an enlarged head portion 5, which head portion is provided with screw-threaded socket 6 adapted to receive a screw-threaded locking-member hereinafter described.

Positioned in the support 1 and adapted to engage the enlarged head portion 5 of the locking-member 4 is a locking-device, which comprises a bracket 7 carrying at one end a face plate 8, adapted to be positioned on the outside of the support, and at the other end an enlarged portion 9 substantially L-shaped in cross section. It will be obvious that by having the enlarged portion 9 substantially L-shaped, in cross section, a ledge will be formed upon the lower side

thereof, and will constitute a rest for the enlarged head portion 5 of the locking-member 4. Formed in the enlarged portion 9 is a screw-threaded aperture 10. The bracket 7 comprises a plurality of diverging arms 11 and 12, which are braced or connected by means of a transverse support, or brace 13, which is provided intermediate its end with a collar 14. Rotatably mounted in the collar 14 is positioned a locking-member, or plunger 15, which is screw-threaded at one end and is adapted to engage the screw-threaded aperture 10 in the enlarged portion 9. Upon the opposite end of the plunger 15 is formed a key receiving portion 16. The screw-threaded portion of the plunger 15 is adapted to engage the screw-threaded socket 6 in the enlarged head portion 5 of the hinged locking-member, as hereinbefore described.

In Fig. 4 I have shown a modification of my invention, which shows the locking-member 4^a provided with an off-set enlarged head portion 5^a. This style of device is adapted to be used when the locking-member is secured to a sliding door, or when the door is narrower than the support upon which it is secured.

From the foregoing description it will be obvious that by having the plunger 15 screw-threaded at one end and provided with key-receiving means at the other end that when the plunger 15 is rotated and the enlarged head portion is positioned upon the enlarged portion 9 the screw-threaded portion will readily engage in the screw-threaded socket 6 of the head portion 5 and securely hold the door in a locked position upon its support.

It will also be obvious that it will be possible to unlock the door without first having the proper key to fit over the key-receiving portion 16 of the plunger 15.

What I claim is:

1. In a device of the class described the combination with a support, of a gate-member, a locking member secured to said gate-member and extending entirely across the same, and being provided with an enlarged head-portion at one end thereof, having a screw-threaded socket formed therein, a lock carried by said support, and provided with a screw-threaded member adapted to engage said socket in said enlarged head-portion for holding said gate-member in a locked position upon said support.

2. In a device of the class described the

combination with a support, of a gate-member carried by said support and a locking-device carried by said support, and comprising a supporting bracket, provided near one
5 end with a screw-threaded aperture and a transverse apertured brace intermediate the sides of said bracket, a screw-threaded member positioned in said apertured end and
10 said brace, and adapted to engage said gate-member for securing the same in a locked position.

3. In a device of the class described the combination with a support, of a gate-member carried by said support, a locking-device
15 carried by said support and comprising a substantially A-shaped supporting bracket carrying near one end a plate substantially L-shaped in cross section, and a locking-member carried by said bracket and passing
20 through said plate and adapted to engage said gate-member for holding the same in a locked position.

4. In a device of the class described the combination with a support, of a gate-member,
25 provided with a hinged locking-member secured thereto, a locking-device carried by

said support comprising an enlarged head-portion provided with diverging arms and supporting at their opposite end a plate, a transversely extending brace secured at its
30 end to said diverging arms and carrying intermediate its ends a collar, a longitudinally adjustable locking-means rotatably mounted in said collar and engaging said head, and
35 adapted to engage said locking-member carried by said gate-member for securing said gate-member in a locked position.

5. In a device of the class described, the combination with a support, of a gate member, a locking device carried by said support
40 and comprising an enlarged end and a plurality of rearwardly-extending portions constituting braces, and means carried thereby and adapted to engage said gate member for securing the same in a locked position. 45

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

MAX RITCHEL.

Witnesses:

R. O. DUREE,
H. HUSTON.