

No. 682,508.

Patented Sept. 10, 1901.

C. T. THOMAS.

LOCK.

(Application filed Mar. 29, 1901.)

(No Model.)

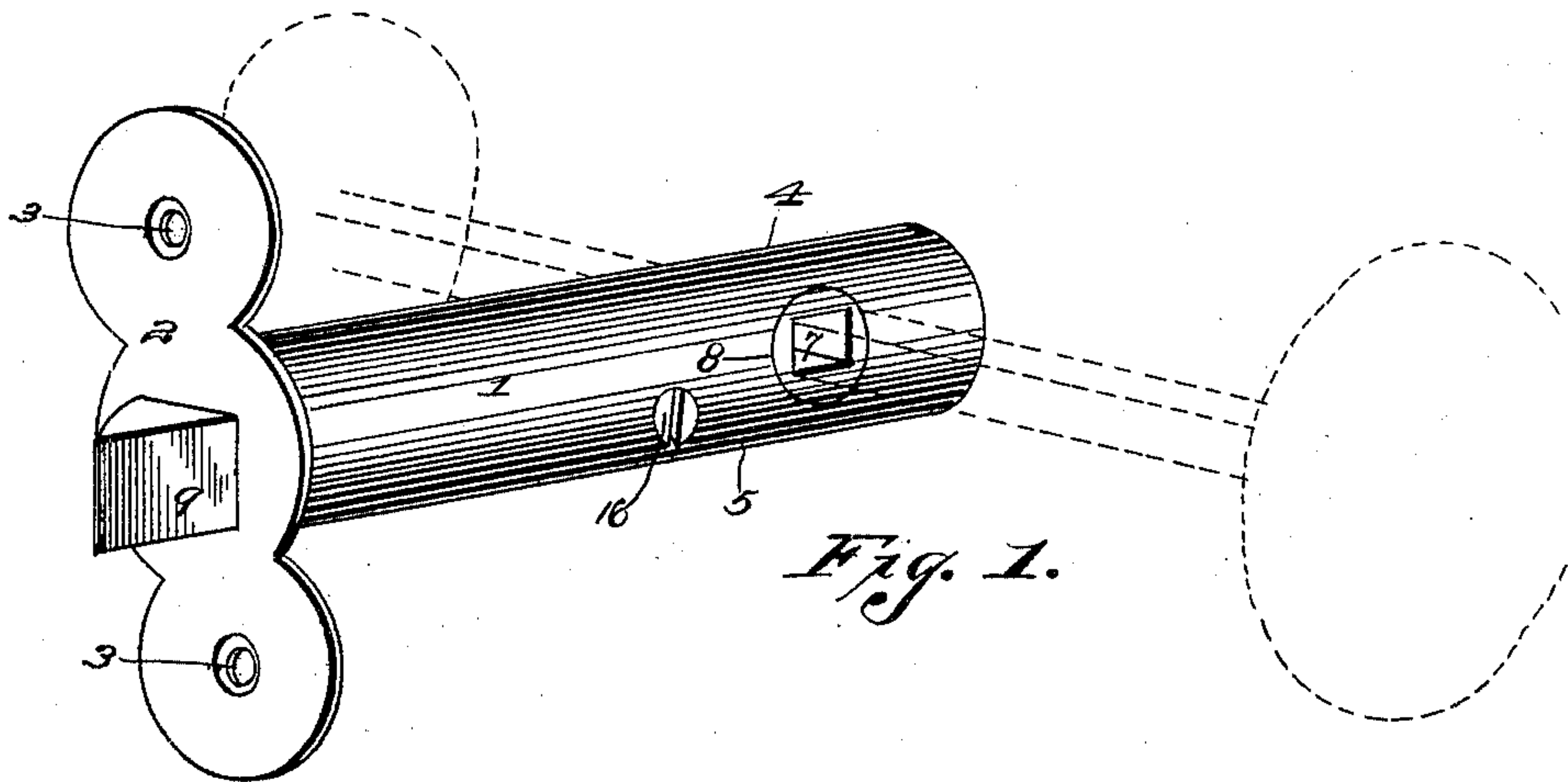


Fig. 1.

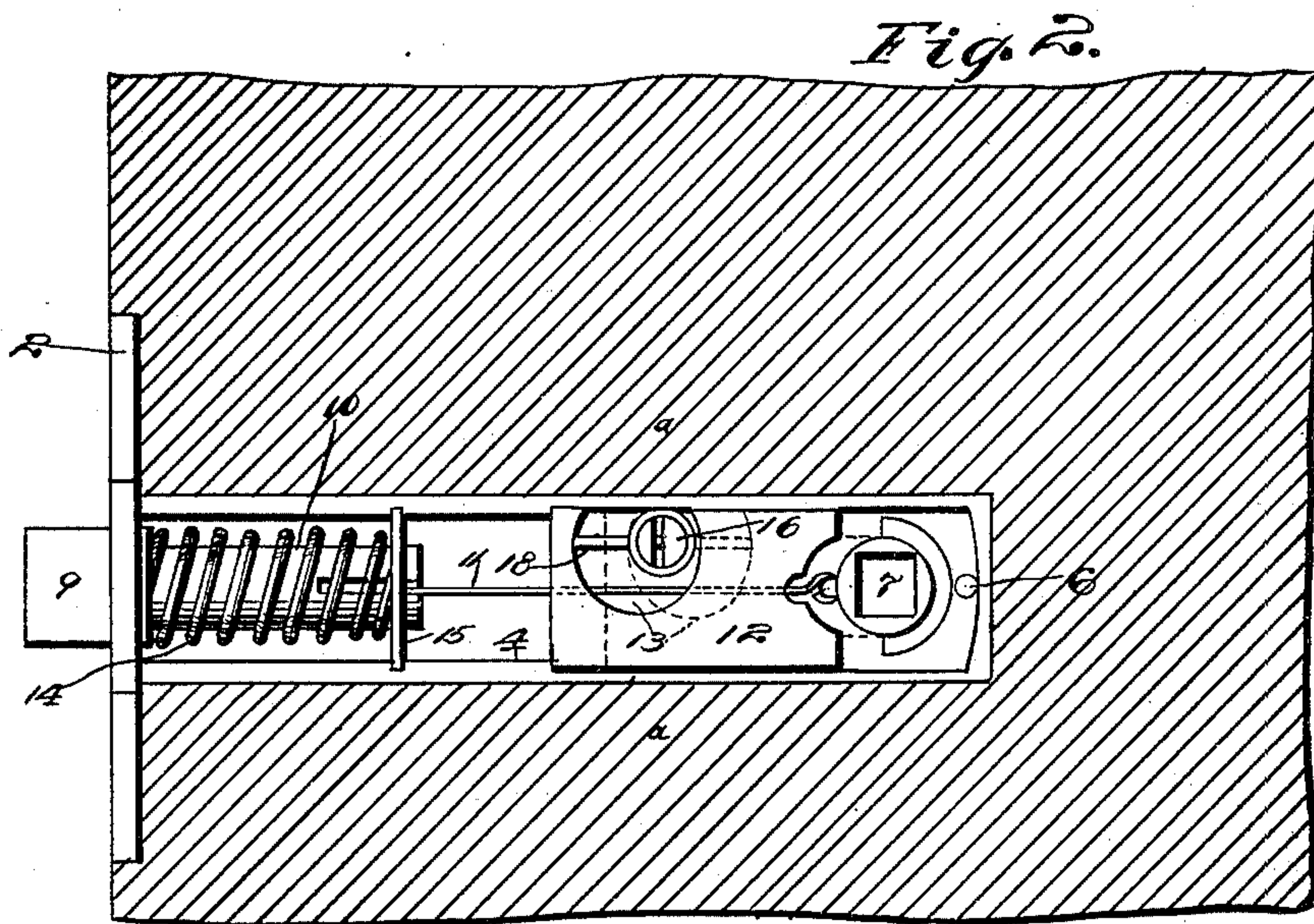


Fig. 2.

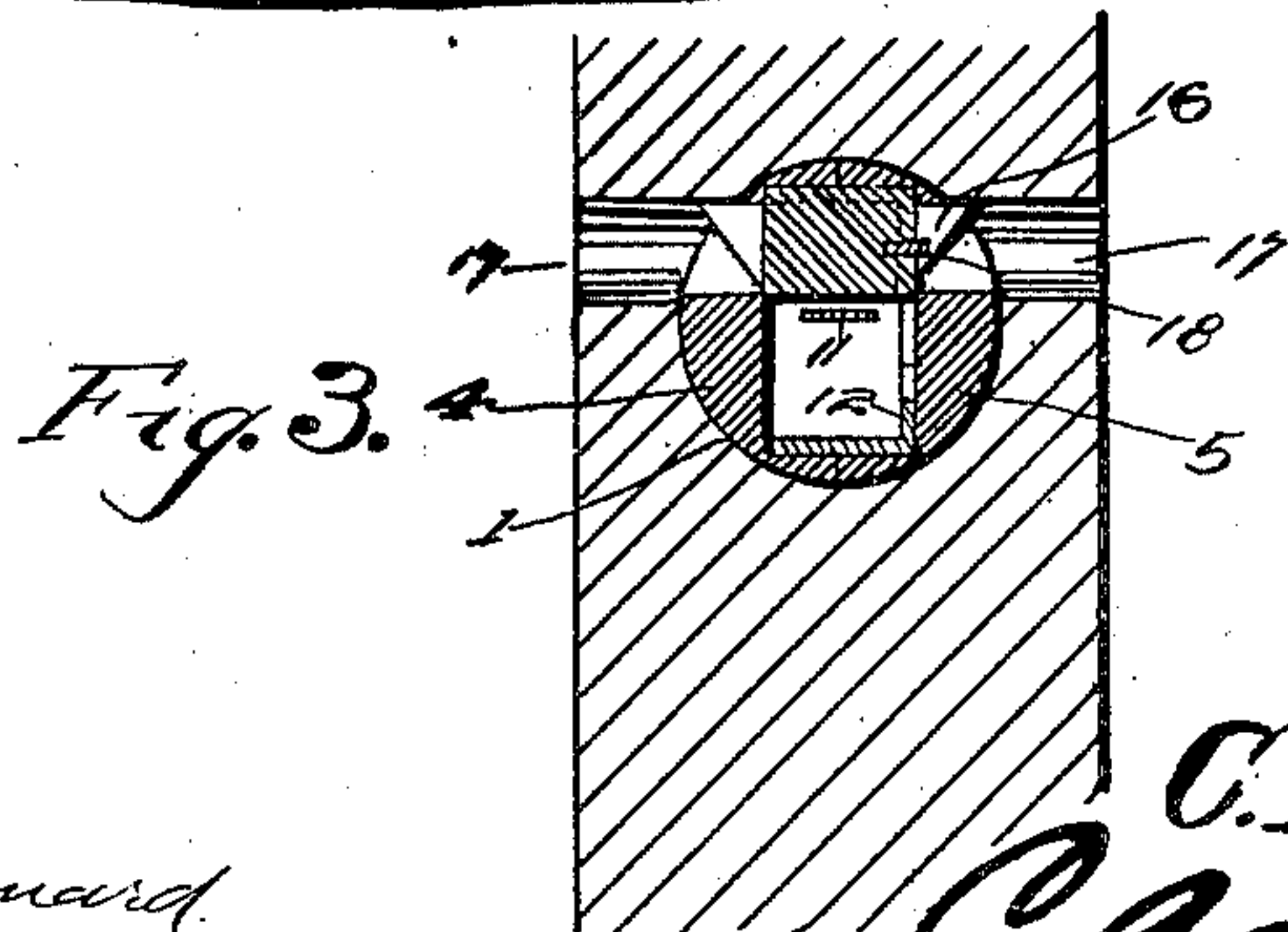


Fig. 3.

Witnesses  
Fred. Maynard  
J. W. Garner

C. T. Thomas, Inventor.  
By C. A. Snow & Co.  
Attorneys



# UNITED STATES PATENT OFFICE.

CHAUNCEY T. THOMAS, OF RUSHVILLE, ILLINOIS, ASSIGNOR OF ONE-HALF  
TO SAMUEL DAVIS, OF SAME PLACE.

## LOCK.

SPECIFICATION forming part of Letters Patent No. 682,508, dated September 10, 1901.

Application filed March 29, 1901. Serial No. 53,459. (No model.)

*To all whom it may concern:*

Be it known that I, CHAUNCEY T. THOMAS, a citizen of the United States, residing at Rushville, in the county of Schuyler and State of Illinois, have invented a new and useful Mortise-Lock, of which the following is a specification.

My invention is an improved mortise-lock; and it consists in the peculiar construction and combination of devices hereinafter fully set forth and claimed.

In the accompanying drawings, Figure 1 is an exterior perspective view of a mortise-lock constructed in accordance with my invention. Fig. 2 is an elevation of the same as mortised in a door, one section of the cylindrical casing thereof being removed. Fig. 3 is a transverse sectional view of the same, taken on a plane indicated by the line *a a* of Fig. 2.

The lock-case 1 is cylindrical in form, whereby it may be readily placed in an opening bored in a door by an ordinary brace and bit, hence avoiding the necessity of chiseling the mortise for the lock. At the outer end of the lock-case is formed a face-plate or head 2, which is countersunk in the edge of the door and secured by screws in countersunk openings 3. The lock-case 1 comprises two semicylindrical sections 4 5, the latter being removable from the former. A screw 6 is employed at one end of the lock-case to secure the section 5 to the section 4. The sleeve 7 for the knob-shaft is journaled in openings in the sections 4 5 of the lock-case, as at 8. A latch-bolt 9, which operates in an opening in the face-plate or head and has its shank 10 disposed in the lock-case, is connected to the sleeve 7 by a metallic link-strap 11. A tumbler 12, which is longitudinally movable in the lock-case, is adapted to engage and lock the sleeve 7 against rotation, and thereby prevent the knobs from being turned and the latch-bolt 9 from being withdrawn, said sleeve and the proximate end of said tumbler being provided with coacting stops, as shown. The said tumbler has an oval-shaped opening 13 in one side. A spring 14 on the shank of the latch-bolt bears against the head of the latter and against a cross or bridge plate 15, which is set in the sections 4 5 of the lock-case. The function of this spring, as will be

understood, is to normally extend the latch-bolt and maintain the same in locking position.

A key sleeve or spindle 16 is journaled in openings in the sections of the lock-case, as shown, and the ends thereof are disposed at the inner ends of the cylindrical keyholes 17 in the door when the lock is affixed thereto. A key of any suitable construction is provided to turn the said spindle 16. The latter passes through the opening 13 in the tumbler 12 and is provided with an arm 18, which when the said spindle is turned by the key operates in the opening 13, the latter forming an eccentric cam, and thereby the tumbler 12 may be moved either into or out of engagement with the knob-sleeve 7 to lock or release the latter.

It should be understood that this lock may be constructed for operation either from the back or the front by means of a knob-shaft and that the tumbler may be either round or square.

Having thus described my invention, I claim—

1. The combination of a lock-case, a spring-pressed latch-bolt, a knob-sleeve revoluble in the lock-case, a link connecting said sleeve to said latch-bolt, a longitudinally-movable tumbler guided in the sides of the lock-case, disposed between said bolt and said knob-sleeve and adapted to directly engage said knob-sleeve and lock the same against rotation, said tumbler having a cam-opening, and a revoluble spindle journaled in the lock-case, adapted to be engaged and turned by a key, said spindle extending through and having an arm operating in the cam-opening of said tumbler, to move the latter into and out of engagement with said knob-sleeve, and lock said tumbler both when engaged with and disengaged from said knob-sleeve, substantially as described.

2. A lock comprising a cylindrical case formed of two semicylindrical separable sections, one of the same having a face-plate at its outer end, a knob-sleeve revoluble in said case, said sleeve having its bearings in openings in said separable sections, a spring-pressed latch-bolt having its shank in said case, a link connecting said bolt-shank to said knob-sleeve, a longitudinally-movable tum-

bler disposed and guided in said case, said  
tumbler being located between said bolt-  
shank and said knob-sleeve, having a cam-  
opening in one side, and at one end adapt-  
5 ed to directly engage and lock the knob-  
sleeve against rotation, and a key-spindle,  
disposed in said cam-opening, having its bear-  
ings in the sections of said lock-case and pro-  
vided with an arm operating in said cam-  
10 opening, said key-spindle, with its arm lock-

ing said tumbler both in engaged and disen-  
gaged position with relation to said knob-  
sleeve, substantially as described.

In testimony that I claim the foregoing as  
my own I have hereto affixed my signature in 15  
the presence of two witnesses.

CHAUNCEY T. THOMAS.

Witnesses:

HERMAN H. BROWN,  
FREDERICA MEAD.