

No. 683,206.

Patented Sept. 24, 1901.

**M. F. HUTCHISON
LOCK.**

(Application filed Dec. 27, 1900.)

(No Model.)

Fig. 1.

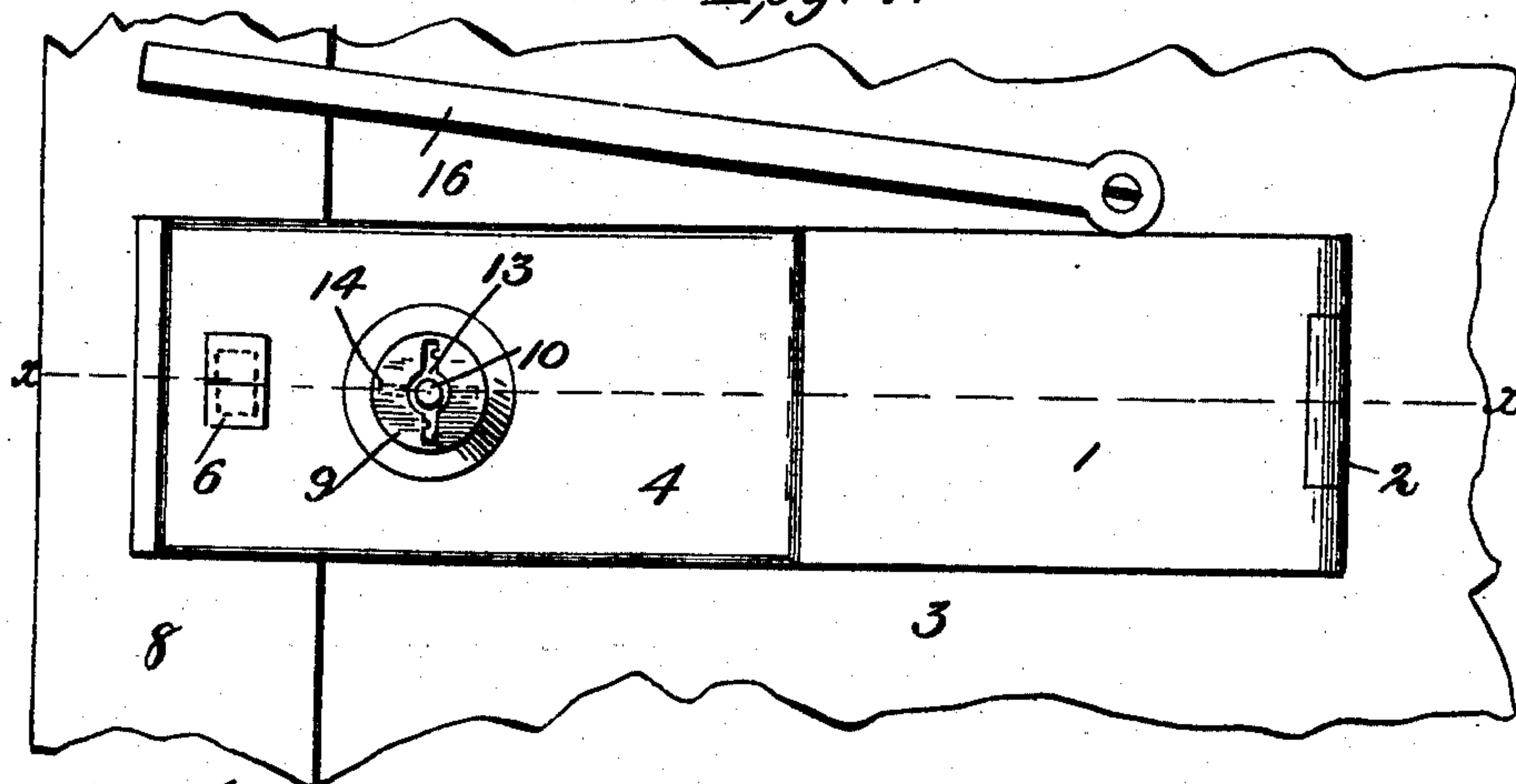


Fig. 2.

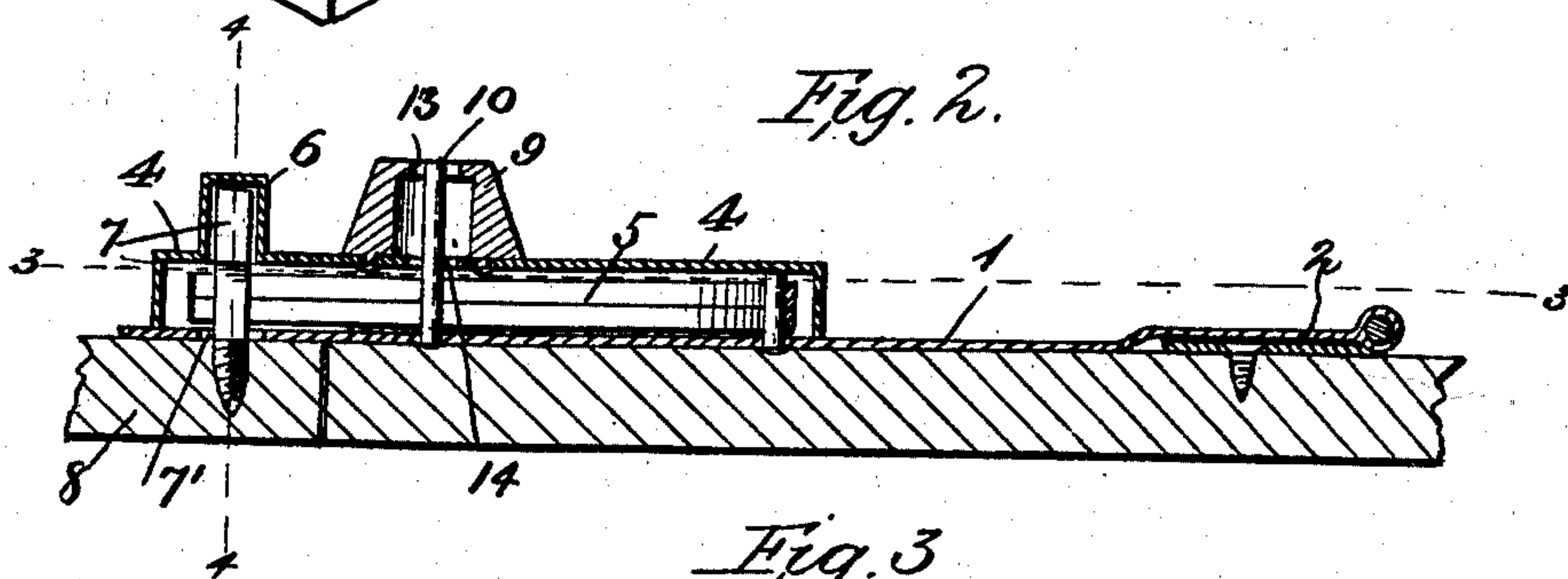


Fig. 3

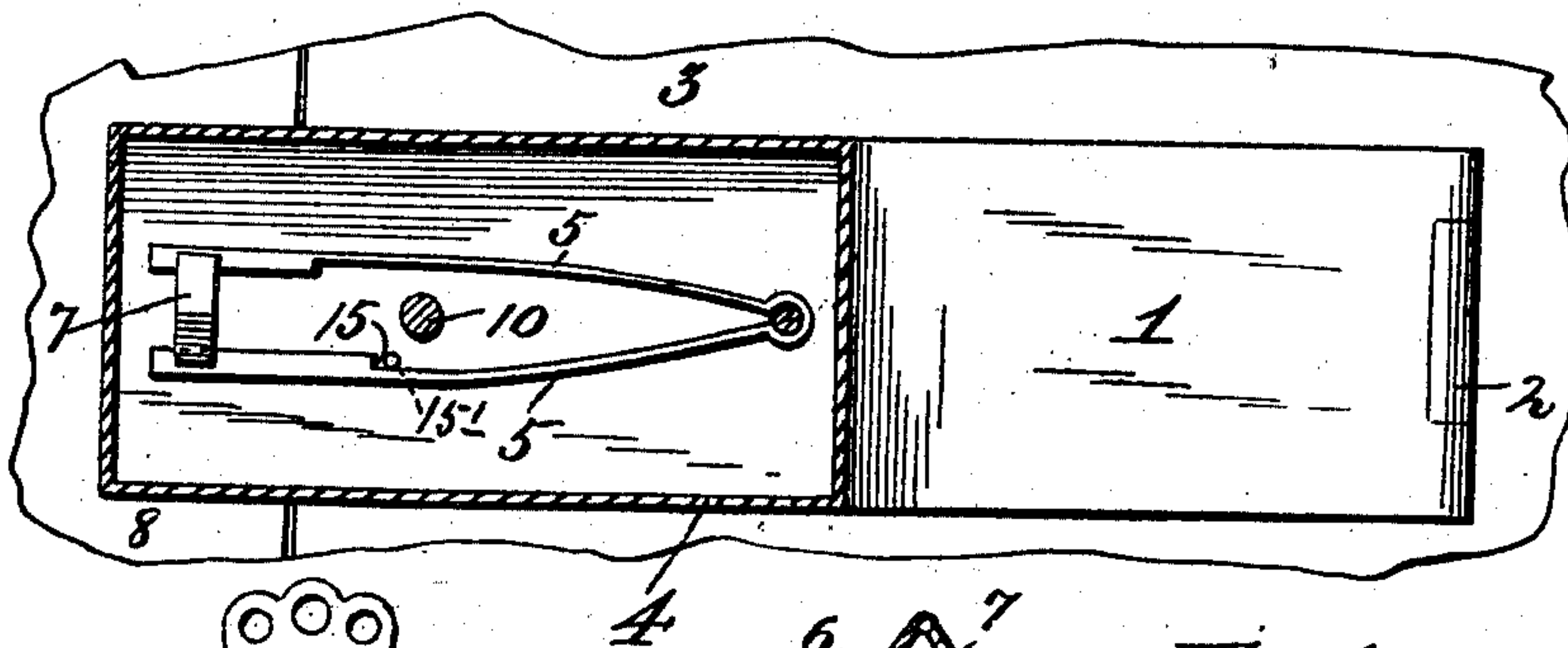


Fig. 4.

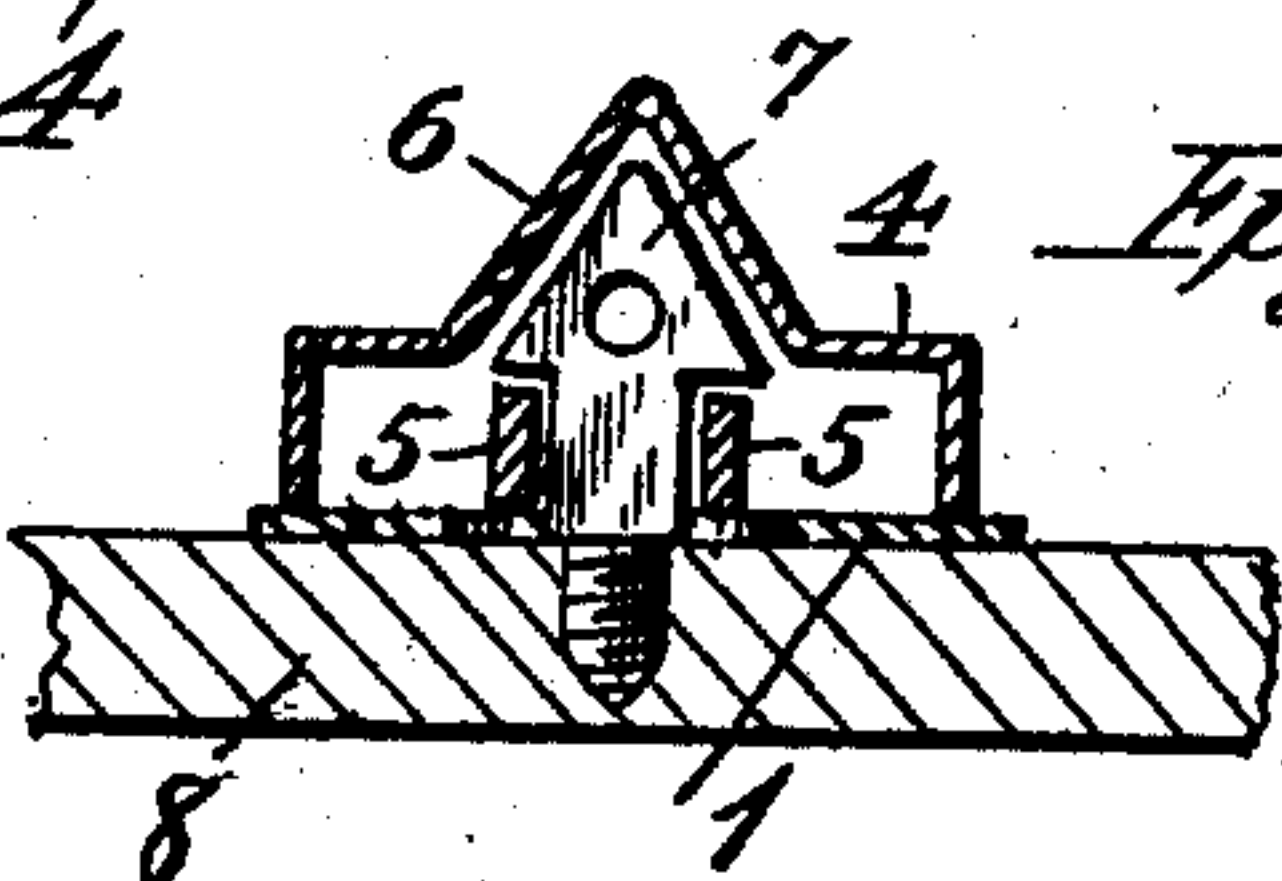
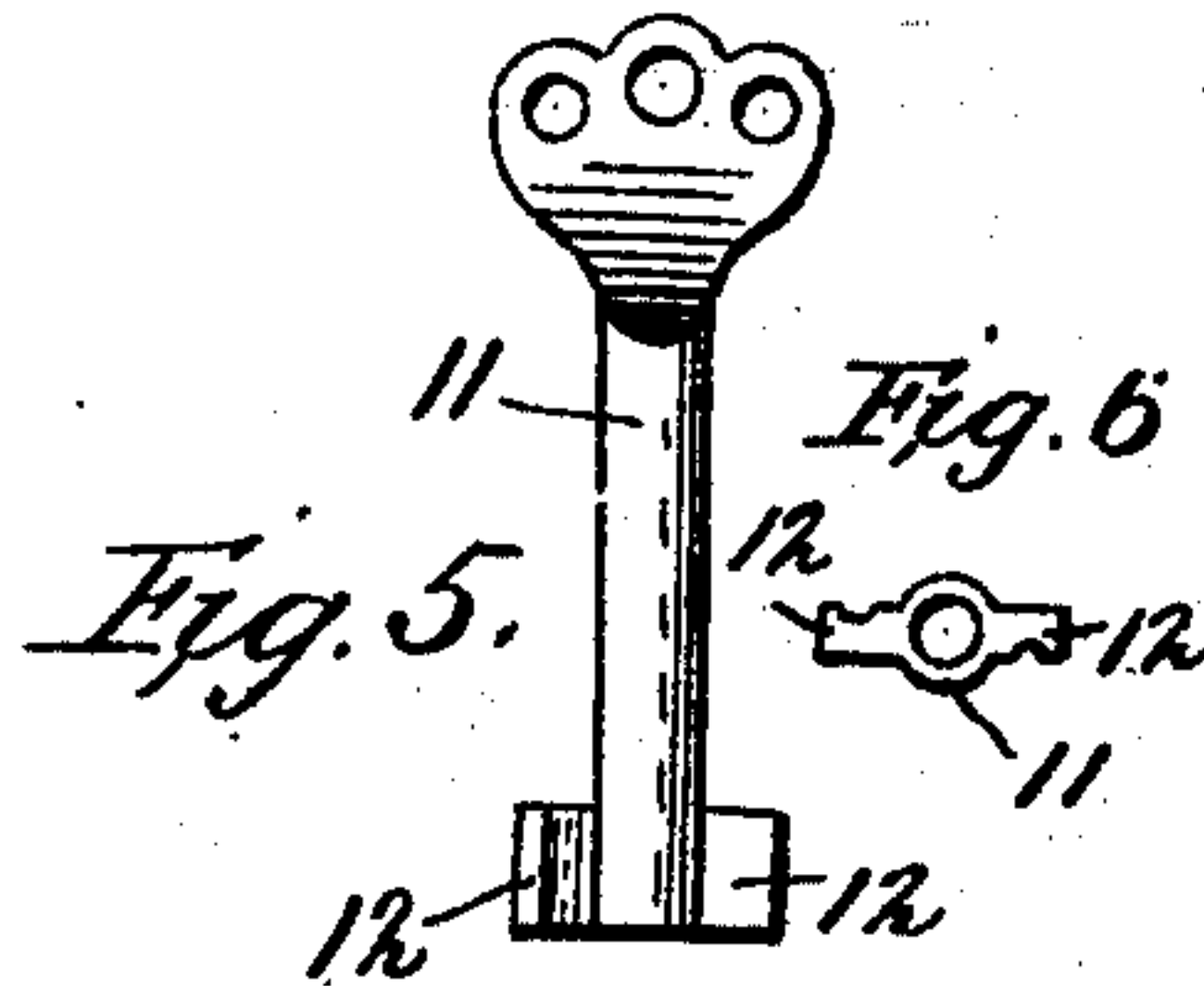


Fig. 6



Witnesses
F. L. Ouraud.
J. E. Lambert.

Inventor
Maurice F. Hutchison

UNITED STATES PATENT OFFICE.

MAURICE F. HUTCHISON, OF FLORIS, VIRGINIA, ASSIGNOR OF ONE-HALF
TO RUDOLPH CHARLES EICHBERG, OF ALEXANDRIA, VIRGINIA.

LOCK.

SPECIFICATION forming part of Letters Patent No. 683,206, dated September 24, 1901.

Application filed December 27, 1900. Serial No. 41,227. (No model.)

To all whom it may concern:

Be it known that I, MAURICE F. HUTCHISON, a citizen of the United States, residing at Floris, in the county of Fairfax and State of Virginia, have invented certain new and useful Improvements in Locks; and I do hereby 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.

My invention is a lock; and it consists in the novel construction and arrangement of its parts.

My lock is adapted to doors of any kind, also to trunks, boxes, valises, &c.

In the accompanying drawings, Figure 1 is a face view of my invention. Fig. 2 is a longitudinal horizontal sectional view of Fig. 1, cut on the line X X. Fig. 3 is a longitudinal vertical sectional view of Fig. 2, cut on the line 3 3. Fig. 4 is a cross-sectional view of my invention, cut on the line 4 4 of Fig. 2. Fig. 5 is an elevation of the key. Fig. 6 is an end view showing the operative end of the key.

My invention is described as follows:

1 represents the base-plate.

2 represents a short plate to which the base-plate is secured by a hinge, or it may be secured by a staple or other suitable means.

3 represents the door, to which said short plate 2 or staple may be secured.

4 represents a box secured to the outer face of the base-plate 1. The purpose of this box is to protect one or more pairs of plate-springs 5, which operate to lock the lock. These springs may be made in one or two pieces, or there may be one pair of springs situated above the edges of the other springs, as shown. (See Fig. 2.) This double construction of springs makes the lock doubly hard to pick. When two pairs of springs are used, they are not so wide as when only one pair is used. At the forward end of box 4 is another box 6, (which may be or may not be integral with box 4,) which covers an arrow-head 7 and the forward ends of the springs. The arrow-head is secured to the jamb 8 of the door and passes up through an opening 7' in the forward end of the base-plate 1. Secured to the base-plate and running up

through a keyhole 14 in said box 4 and through a keyhole 13 in the key-house 9, secured on the outer face of box 4, is a pintle 10.

11 represents a hollow key, which is provided with two wings 12. Said key is made to enter the outer keyhole 13, cut crosswise through the top face of the key-house 9, and when the wings of said key strike the outer face of box 4 the key is arrested; but there is cut longitudinally through the top of box 4 another keyhole 14, (represented in Fig. 1 by the dotted lines 14 and in Fig. 2 by a space 14,) so that when the key reaches the top of said box 4 it must be turned one-fourth around before it can pass through said second keyhole and before it can unlock the lock. On one of the springs is a shoulder or elevation 15, which arrests the key when it is turned across the face of the plate 1. When so turned, the springs 5 are pressed sufficiently open to allow the arrow-head to escape from between them. An elevation 15' may be secured to the base-plate, which will perform the same function as said shoulder. When this lock is secured to trunks, boxes, valises, and the like, the short plate 2 may be dispensed with, as the lock may be secured to such articles in any suitable manner. A latch 16 is secured to the door in such position that its free end may drop behind one of the beards of the arrow-head, and thus latch the door. When it is not desired to lock the door and when said latch is thus down, the door cannot be accidentally locked. The operation of my lock is very simple. The arrow-head is secured to the jamb of the door or to one side of a trunk, box, valise, or the like and the locking part to the other or opposite side in such position that the locking part will receive the arrow-head in the boxes 4 and 6, when the springs 5 will open and then close behind the beards of said arrow-head. To unlock the lock, insert the key through keyhole 13, turn it one-fourth around and then through keyhole 14, and then turn it another fourth around and the springs are open and the key is arrested by the shoulder or elevation 15 holding the springs open, so that the arrow-head may be withdrawn from the lock.

Having described my invention, what I

claim as new, and desire to secure by Letters Patent, is—

The combination of base-plate 1; a lock-casing secured thereto; plate-springs 5, with-
5 in said casing; an abutment or shoulder 15, on said springs; an arrow-shaped projection adapted to enter the lock-casing and be engaged by said springs 5; a housing formed on the lock-casing for the arrow-shaped pro-
10 jection; an additional housing on the casing

provided with a keyhole-slot, and a keyhole-slot in the locking-casing at an angle to the first-mentioned keyhole-slot, substantially as set forth.

In testimony whereof I affix my signature 15 in presence of two witnesses.

MAURICE F. HUTCHISON.

Witnesses:

J. E. LAMBERT,
S. A. TERRY.