

No. 854,938.

PATENTED MAY 28, 1907.

F. X. ECKSTEIN.  
LOCK.

APPLICATION FILED OCT. 10, 1906.

Fig. 1.

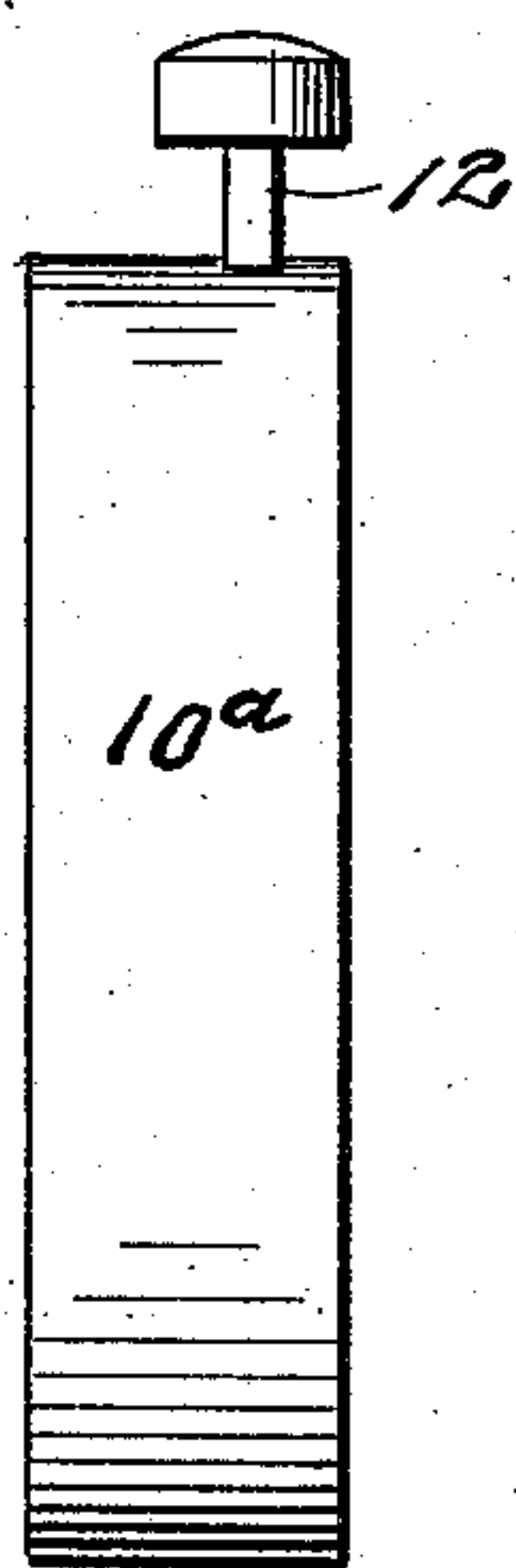
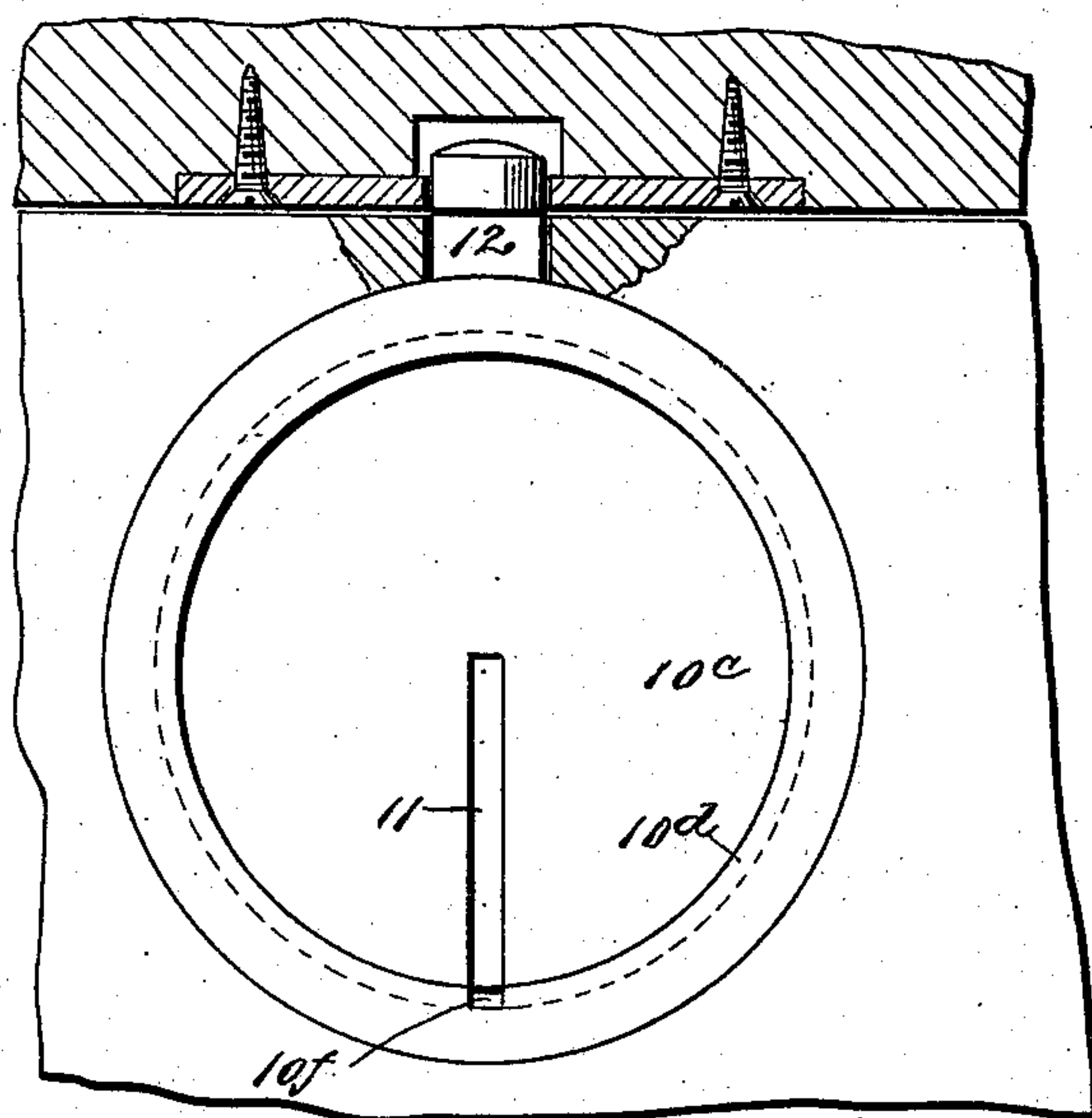


Fig. 2.

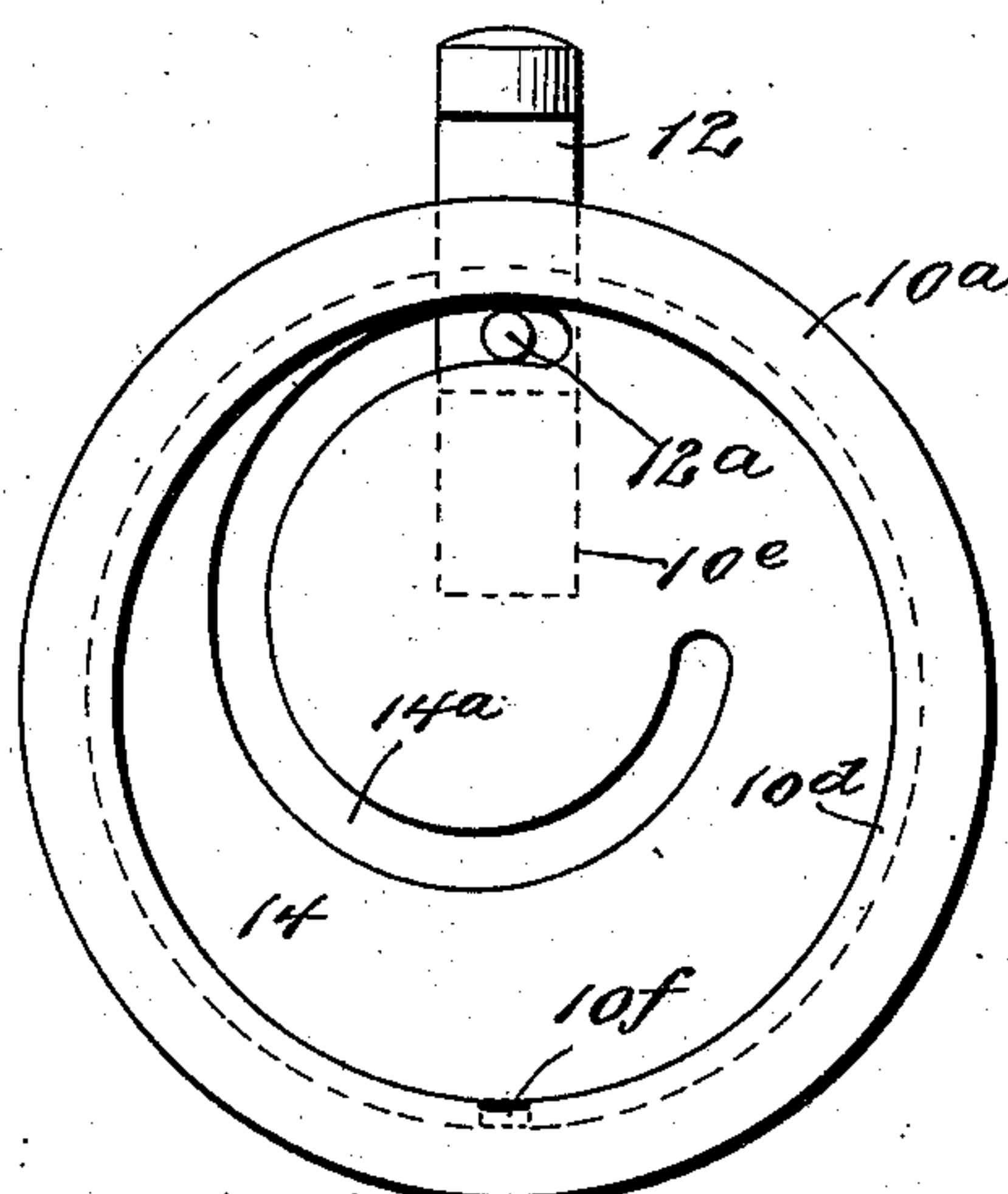


Fig. 3.

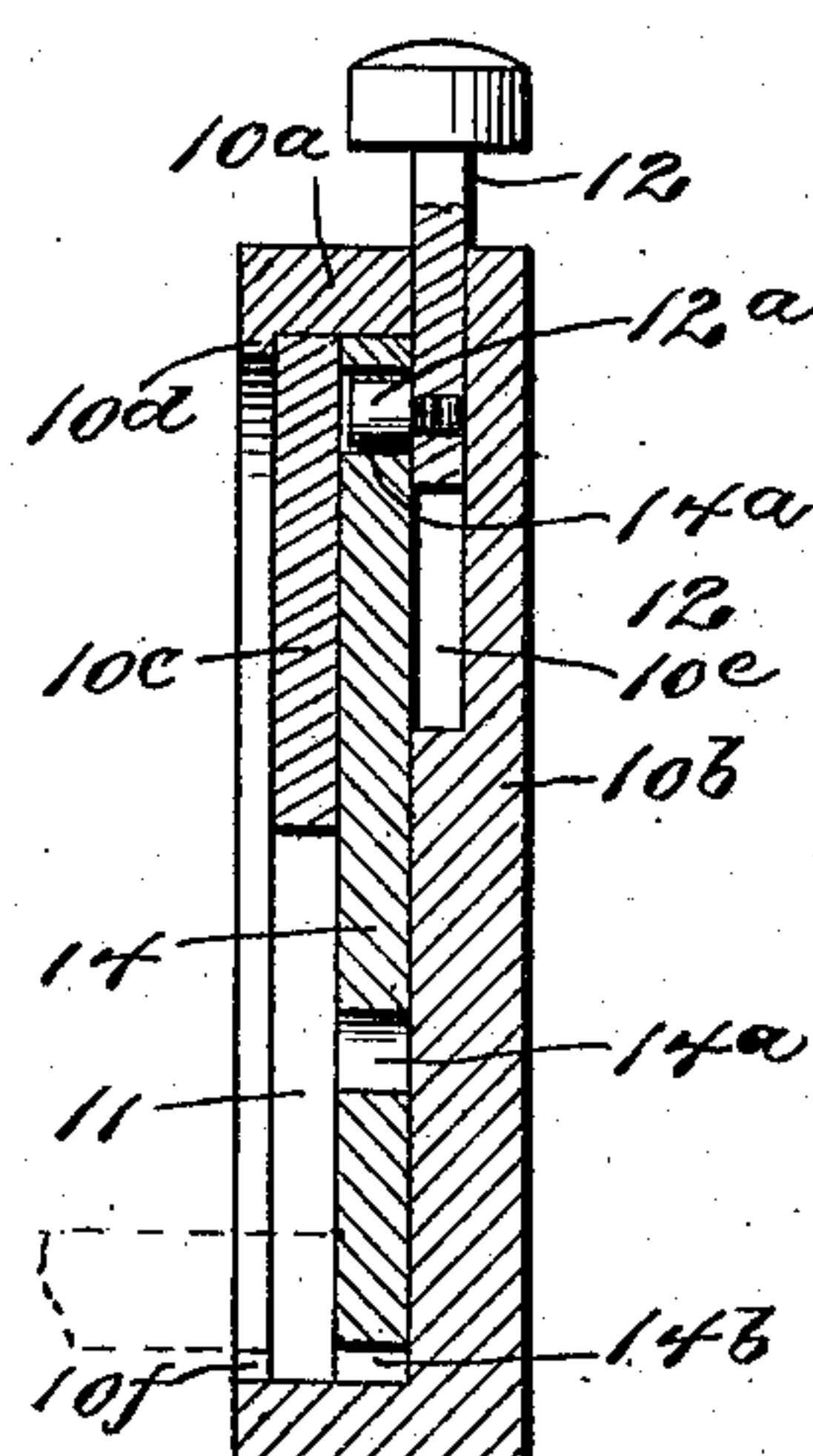


Fig. 4.

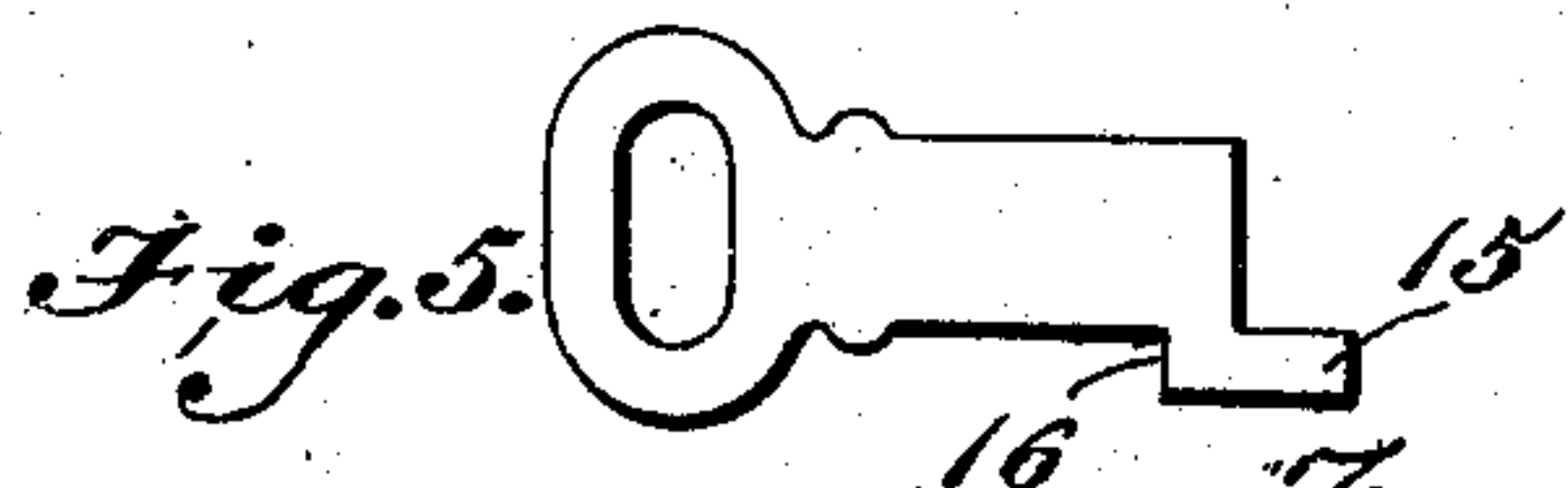


Fig. 5.

Inventor

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Witnesses

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# UNITED STATES PATENT OFFICE.

FRANCIS XAVIER ECKSTEIN, OF STEGER, ILLINOIS.

## LOCK.

No. 854,938.

Specification of Letters Patent.

Patented May 28, 1907.

Application filed October 10, 1906. Serial No. 338,333.

*To all whom it may concern:*

Be it known that I, FRANCIS XAVIER ECKSTEIN, a citizen of the United States, residing at Steger, in the county of Cook and State of Illinois, have invented new and useful Improvements in Locks, of which the following is a specification.

This invention relates to locks particularly adapted for furniture, for use on drawers, doors of cabinets and the like.

A feature of the invention is that the lock is set in the wood and can be put in by boring two round holes, no chiseling or other cutting being necessary. One of the holes contains the casing and the other the bolt.

A further object of the invention is to provide a lock of few and simple parts, which can be cheaply made.

A further feature of the invention is a construction by which the key cannot readily drop out of the lock and become lost.

The lock is illustrated in the accompanying drawings, in which

Figure 1 is a front elevation showing the lock applied, parts being shown in section. Fig. 2 is an edge view of the lock. Fig. 3 is a face view with the front plate removed. Fig. 4 is a section on the line 4—4 of Fig. 3. Fig. 5 is a plan of the key.

Referring specifically to the drawings, the casing of the lock is circular in form, having a rim 10<sup>a</sup>, a back 10<sup>b</sup>, and a front plate 10<sup>c</sup>. The front plate is loose or rotatable in the casing, being held in place by a flange 10<sup>d</sup> on the rim 10<sup>a</sup>. This plate has a key slot 11, and the flange 10<sup>d</sup> has a notch 10<sup>f</sup> with which the slot may register.

Within the casing, between the back and front plates, is a circular disk 14, which is rotatable in the casing. This disk has a cam slot 14<sup>a</sup> which receives a pin 12<sup>a</sup> on the bolt 12, which works in a recess 10<sup>e</sup> in the rim of the casing. The disk 14 also has at its edge a notch 14<sup>b</sup> adapted to receive the bit of a key inserted through the slot 11. A plan of the key is shown in Fig. 5, the bit which engages in the notch 14<sup>b</sup> being indicated at 15. This bit is dropped or off-set to form a shoulder 16. When the key is inserted

through the notch 10<sup>f</sup> and slot 11, and then turned, the shoulder 16 will be engaged behind the flange 10<sup>f</sup>, as shown in dotted lines in Fig. 4. Consequently the key cannot drop out or be taken out until the face plate is turned to register the key with the notch 10<sup>f</sup>. It can then be easily withdrawn. When the key is inserted and turned the face plate 10<sup>c</sup> and the cam plate 14 turn together and the bolt 12 is either advanced or retracted.

In putting the lock in place on a drawer, say, it is only necessary to bore a hole of large diameter from the front, to receive the casing, and then bore another hole of small diameter from the top, to receive the bolt, and the lock can then be set in ready for operation. The bolt is preferably made round, at least at the head, but it may be made flat or any other shape desired. The back and rim of the casing may be made in one piece, and the flange 10<sup>b</sup> swaged down after the plates are put in, or the rim and flange, and the back, can be made in separate pieces and secured together when the lock is assembled.

I claim:

In a lock, in combination, a cylindrical casing closed at the rear end and open at the front end and having an inwardly-projecting flange around the edge of the open end, the flange having a notch, a circular face plate fitting and rotatable in the casing, behind the flange, and having a key slot adapted to register with the notch, a circular disk fitting and rotatable in the casing, behind the plate, and having a cam slot, and a key notch in its edge adapted to register with the slot in said face plate, and a bolt slidable radially in the casing behind the disk and having a pin extending into the slot.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

FRANCIS XAVIER ECKSTEIN.

Witnesses:

N. A. ECKSTEIN,  
J. A. WACHS.