

No. 688,675.

Patented Dec. 10, 1901.

W. ORB.
SEAL LOCK.

(Application filed July 28, 1900)

(No Model.)

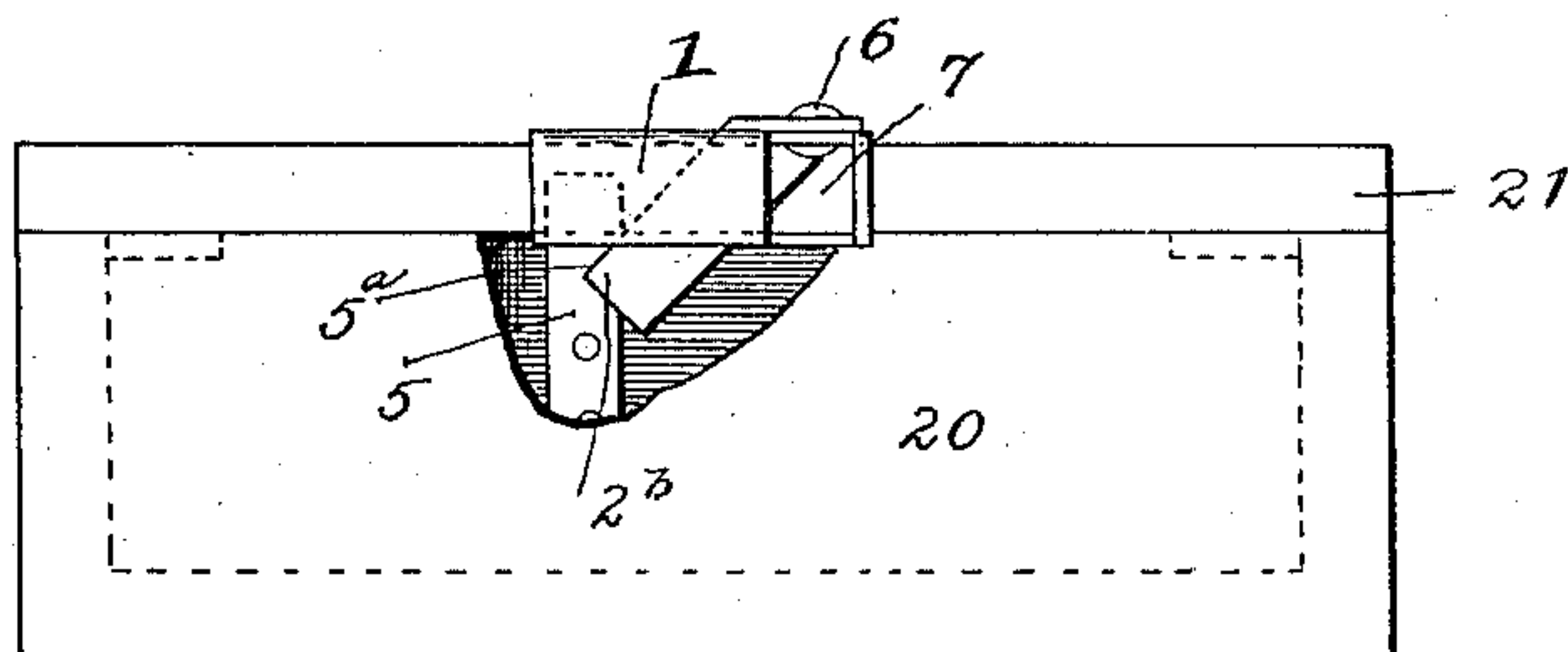


FIG. 1.

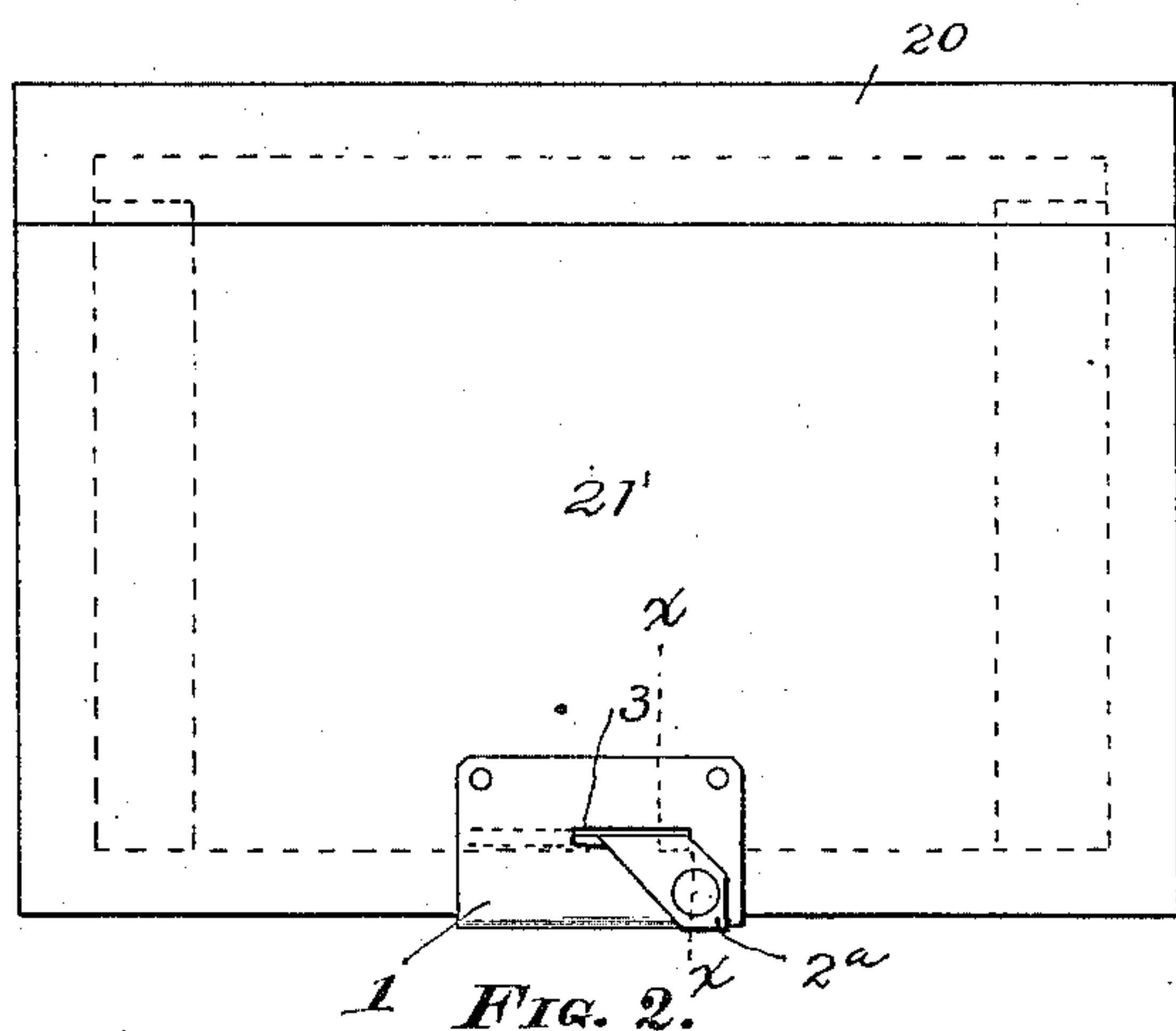


FIG. 2.

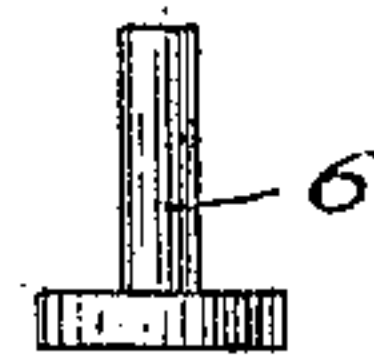


FIG. 7.

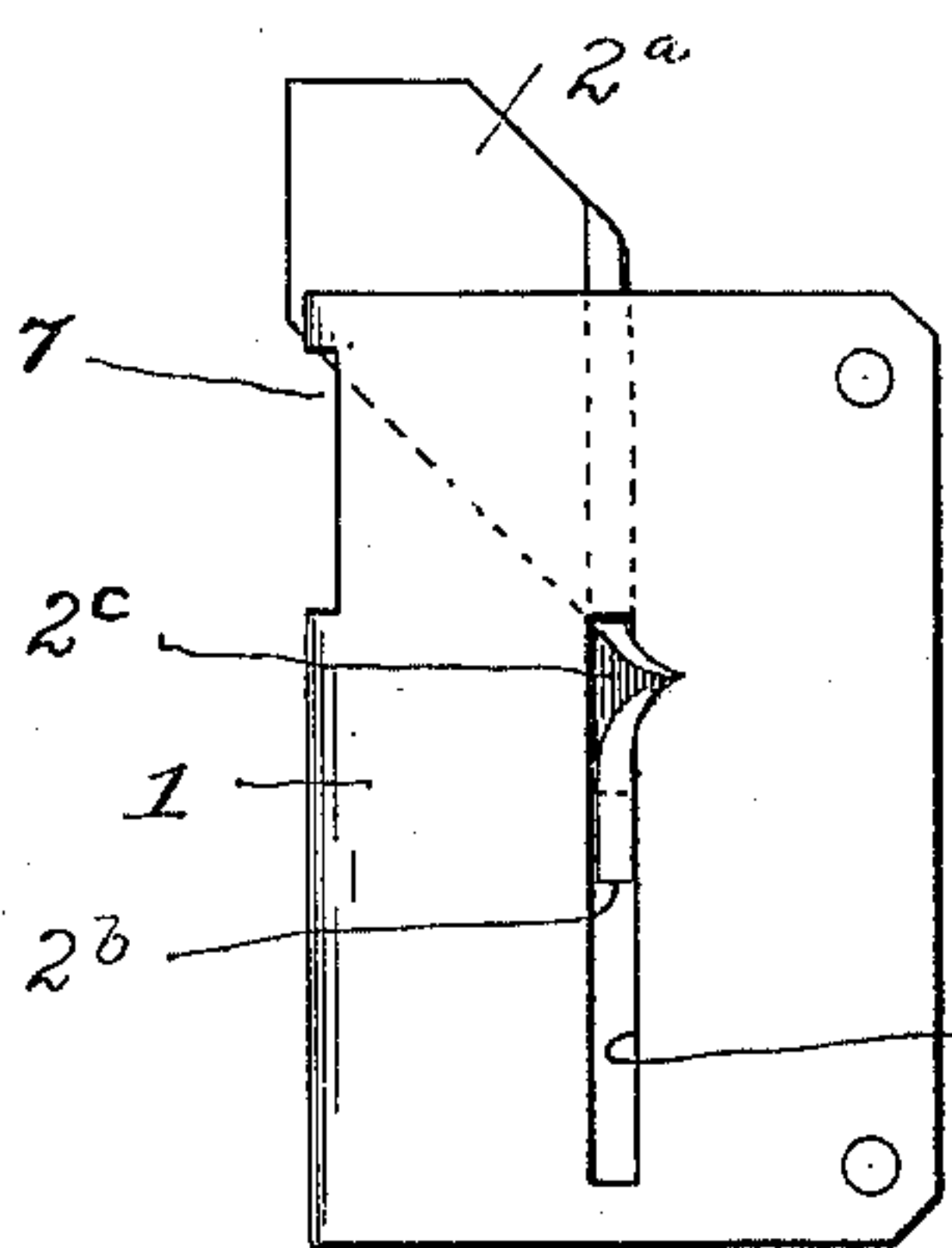


FIG. 3.

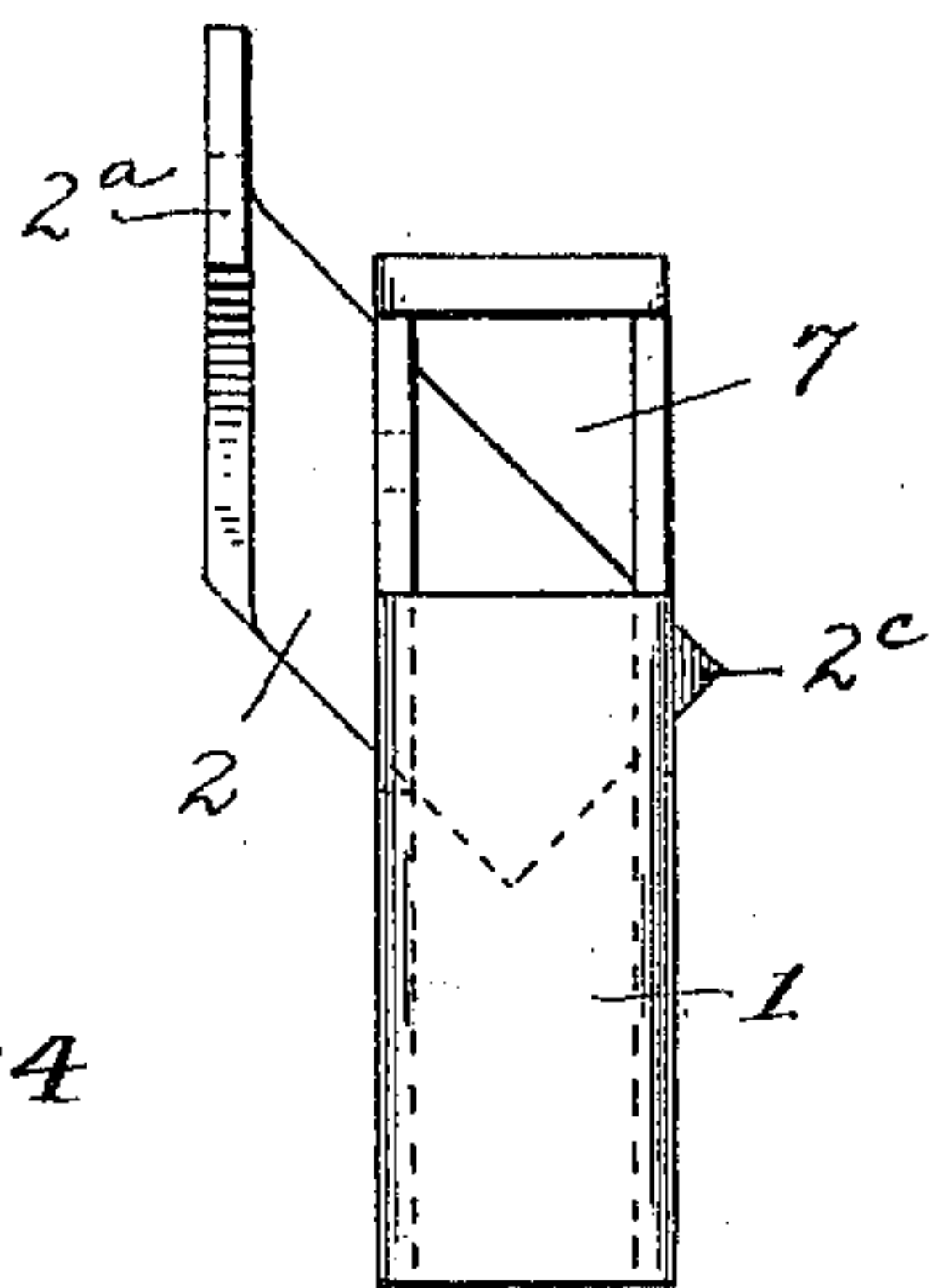


FIG. 4.

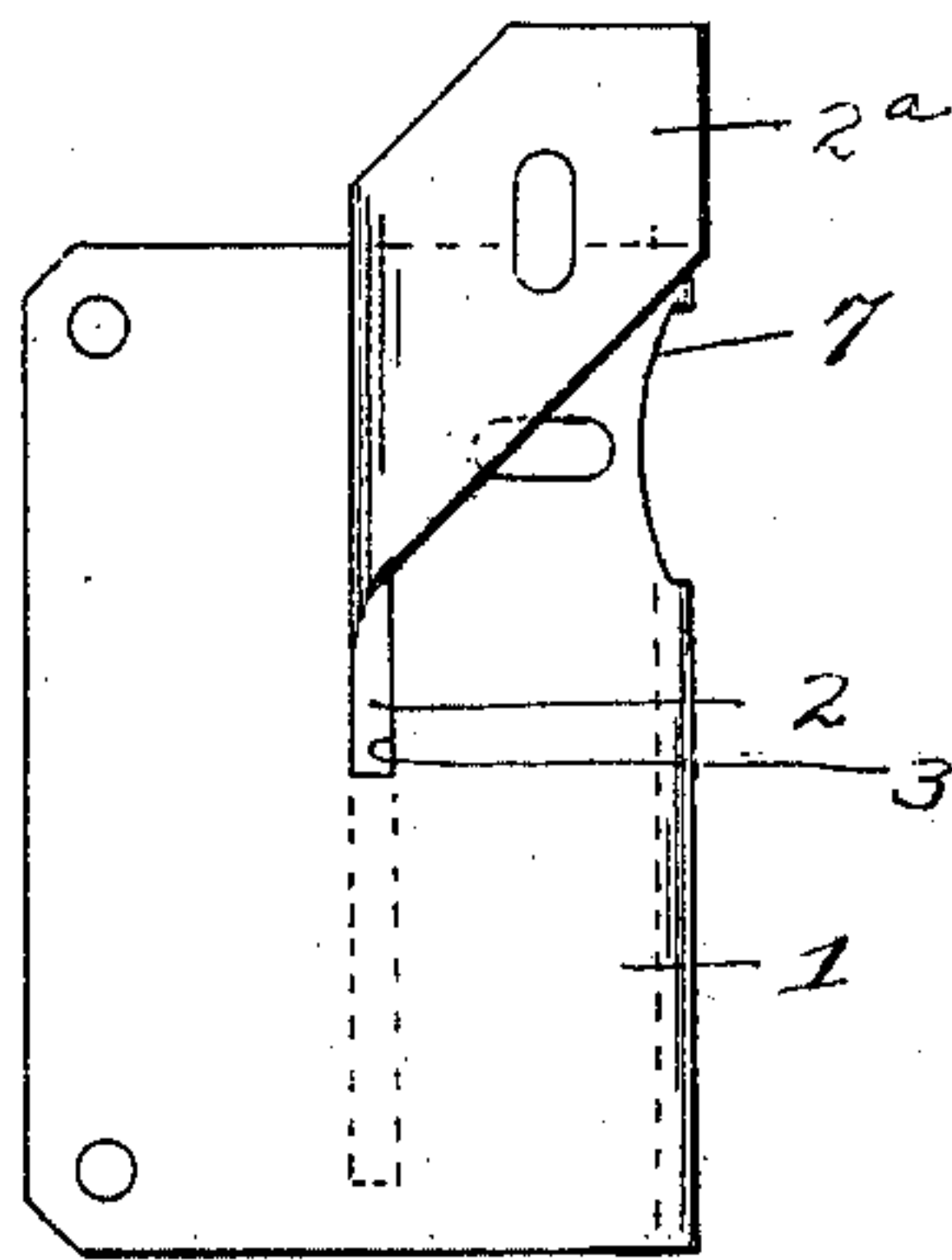


FIG. 5.

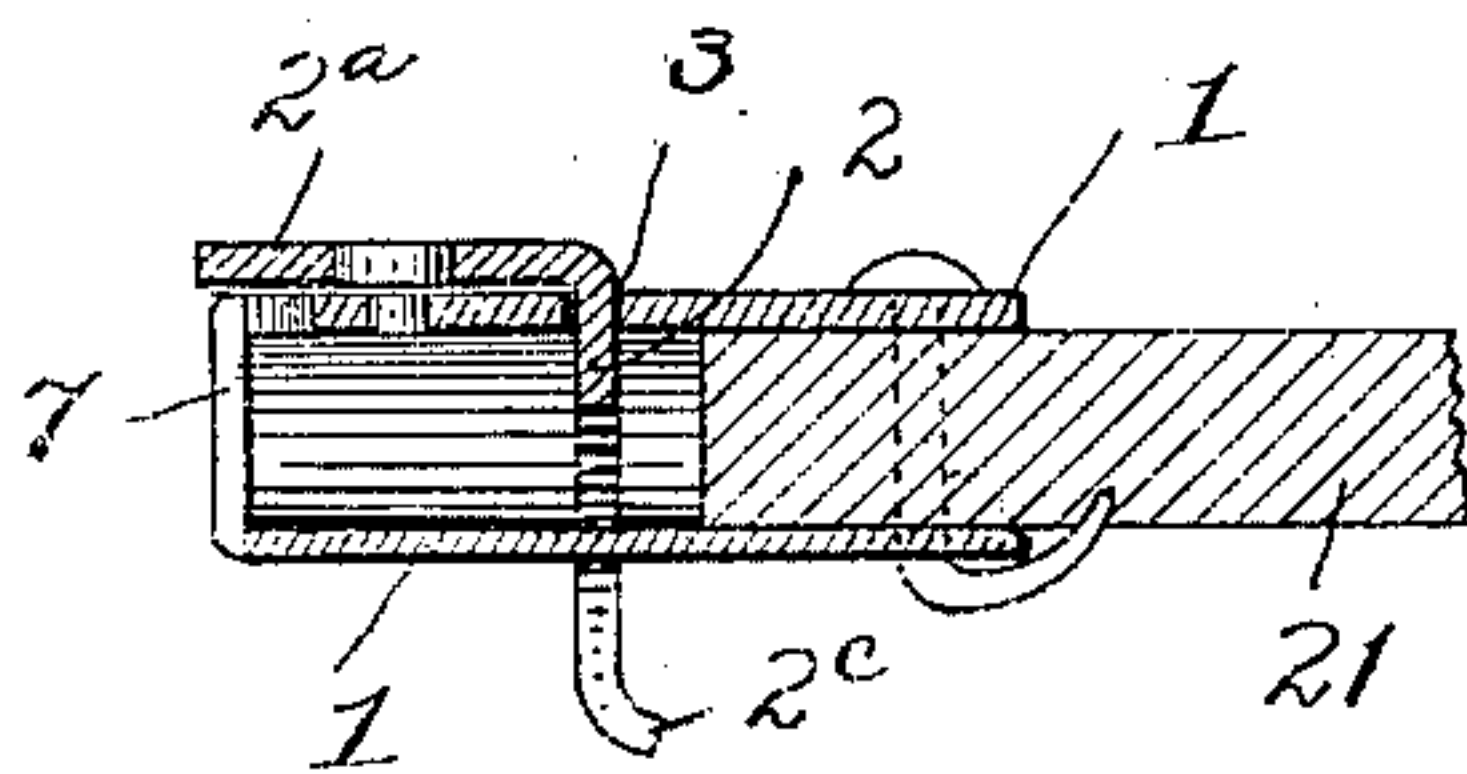


FIG. 6.

WITNESSES:

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UNITED STATES PATENT OFFICE.

WILLIAM ORB, OF COLUMBUS, OHIO, ASSIGNOR OF ONE-HALF TO FREDERICK W. ZIPF, OF COLUMBUS, OHIO.

SEAL-LOCK.

SPECIFICATION forming part of Letters Patent No. 688,675, dated December 10, 1901.

Application filed July 28, 1900. Serial No. 25,162. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM ORB, a citizen of the United States, residing at Columbus, in the county of Franklin and State of Ohio, have invented certain new and useful Improvements in Seal-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.

Manufacturers, dealers, and consumers suffer considerable loss in the aggregate through the pilfering of expressmen and freightmen handling goods *in transitu*. This is especially true of palatable goods like beer, wine, and fruits, because they can often be abstracted from their packages and appropriated with reasonable security against detection.

The object of the present invention is to provide a lock for boxes, crates, and the like, of simple and economical construction, adapted to be sealed or secured with an easily-applied and easily-removed seal that if tampered with or removed shall proclaim that fact. By a system of checks on the workmen the guilty one can be located.

In the accompanying drawings, illustrating one embodiment of my invention, Figure 1 is a front elevation of a box containing the lock, a portion being broken out to show the catch for the bolt. Fig. 2 is a top plan view. Fig. 3 is a bottom view of the lock case and bolt alone, the bolt pulled out. Fig. 4 is a front edge view of the same. Fig. 5 is a top plan view. Fig. 6 is a sectional view taken on the line *x x*, Fig. 2, looking to the left. Fig. 7 is a view in side elevation of a seal before it is secured in its seat or place.

In the several views, 20 is the box, and 21 the lid or cover thereof.

1 designates the case proper of the lock or bolt. This is conveniently formed of a plate of sheet metal bent to straddle and fit against the upper and lower sides of the front edge of the lid of the box. This lock or bolt case is best secured by headed nails driven from the upper side of the lid through holes in the case and clenched at the under side of the lid, as indicated in Fig. 6. The edge of the lid is mortised to provide room for the play of the

bolt 2, that is passed through slots 3 and 4 on the upper and lower walls, respectively, of the case. In the form shown the slots permit no lateral play of the bolt, but diagonal movement only. The upper end of the bolt is shown to be bent at right angles to the plane of the main portion of the bolt, as indicated at 2^a, so as to lap upon the upper side of the case and to constitute a handle by which the bolt can be lifted to release or unlock the lid. Both the said handle and the upper wall of the lock-case are perforated, each preferably with a slotted opening, one lying at right angles to the other, so that if through wear or inaccurate fitting the handle should not happen to fall in the same place the resultant opening will nevertheless always be practically the same. The lower or inner end of the bolt is shown to be formed with a corner or projection 2^b, that when pushed down projects below the inclined edge 5^a of the catch or keeper 5, secured on the inner side of the front wall of the box, thus preventing the lifting of the lid. To prevent the entire removal of the bolt and its probable loss, the lower corner of the bolt is slightly bent to form a stop, as indicated at 2^c.

I have shown in my drawings a bolt standing at an incline to the vertical; but I do not limit myself to the position or to the form shown, because it is quite obvious that a bolt can be adapted to stand vertically. I have made numbers of them in this last-indicated way; but the form herein shown does away with the necessity for peculiar and expensive cutting-dies in making the bolts.

The seal 6 can be a rivet-like device of lead or other soft metal first made in the form shown in Fig. 7. When the lid is closed upon the box and the bolt down in engagement with the catch, the shank of the seal is passed through the holes in the handle of the bolt and the case, after which the protruding end of the shank can be pressed and spread out with a pair of proper pincers. One or both jaws of the pincers can contain arbitrary characters, which being impressed upon the heads of the seal afford additional security against tampering. The front of the bolt-case is made with an opening 7 to afford

access to the handle of the bolt as well as for the application of the pincers to secure the seal.

The bolt and catch can be made in many forms without departing from the scope of the invention; but I do not deem it necessary to multiply illustrations of such various forms and have only shown what I deem at this time to be the simplest and cheapest embodiment of the invention.

What I claim, and desire to secure by Letters Patent, is—

1. A seal-lock comprising a bolt-case, a bolt moving back and forth only therein, a catch having a notch or recess cut or formed in one side thereof and engaged by the bolt, the lock applied to a box to prevent the lifting of the lid, and a seat in the bolt and bolt-case for the reception of a seal-fastening, substantially as described.

2. In a seal-lock, a bolt-case consisting of a frame adapted to straddle the lid of a box, slots in said case, a bolt passed through and guided by said slots, a handle on said bolt adapted to overlap the bolt-case, holes or seats on both the said handle and the bolt-case to receive a seal, and a catch for the box adapted to be engaged by said bolt, substantially as described.

3. In a seal-lock, a bolt-case consisting of a frame adapted to straddle the lid, slots in said case, a bolt passed and guided diagonally through said slots, a corner or projection on said bolt to engage a catch within the box, a finger-piece or handle on the upper end of said bolt, holes or seats in both the handle or finger-piece for the reception of a seal, and a catch within the box to be engaged by the corner or projection on the bolt, substantially as described.

4. In a lock for receptacles, the combination with a bolt capable of direct movement back and forth with relation to the lid, of a bolt-case provided with non-registering slots in which said bolt reciprocates, said bolt and bolt-case provided with apertures for the reception of a seal, said seal adapted to fasten said bolt and bolt-case together in such a manner that it will have to be broken before the bolt can

be unlocked and a stop to prevent the entire disengagement of the bolt and bolt-case.

5. In a lock for boxes or other receptacles the combination with a bolt bent at right angles to itself, of a bolt-case provided with slots in which the bolt reciprocates, said slots being non-registering, a catch within the box, said catch having a notch in its edge adapted to catch and hold a portion of the bolt whereby to lock the box.

6. In a lock, the combination with a bolt-case provided with non-registering openings, of a bolt adapted to slide independently therein, said bolt bent at right angles to its body portion whereby to overlap the bolt-case, said case and bolt each provided with an elongated aperture, adapted to register when the bolt is in locked position, they being thus constructed to allow for wear or inaccurate fitting of the parts, and a seal adapted to be passed through said registering apertures and be fastened therein.

7. The combination with a keyless lock and a bolt-case in the cover of a receptacle provided with non-registering openings, of a bolt received and operating in the openings, the bolt capable of movement back and forth with relation to the lid, and a keeper which is engaged by the bolt when the lid or cover of the receptacle is closed to hold the bolt in locked position whereby the cover is locked with relation to the box.

8. In a box, the combination with a cover, of a keyless bolt-case located in the closure of a receptacle and bolt therein, the bolt capable of movement back and forth with relation to the lid, which direction of movement is at an angle to the direction of movement of the lid or cover when opened or closed, and a keeper, the bolt operating by gravity to engage the keeper when the lid or cover of the box is closed whereby the lid or cover is locked with relation to the box.

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

WILLIAM ORB.

Witnesses:

G. W. ALFRED,
GEORGE M. FINCKEL.