

B. ERBE.

Securing Cap-Plates to Lock-Cases.

No. 147,051.

Patented Feb. 3, 1874.

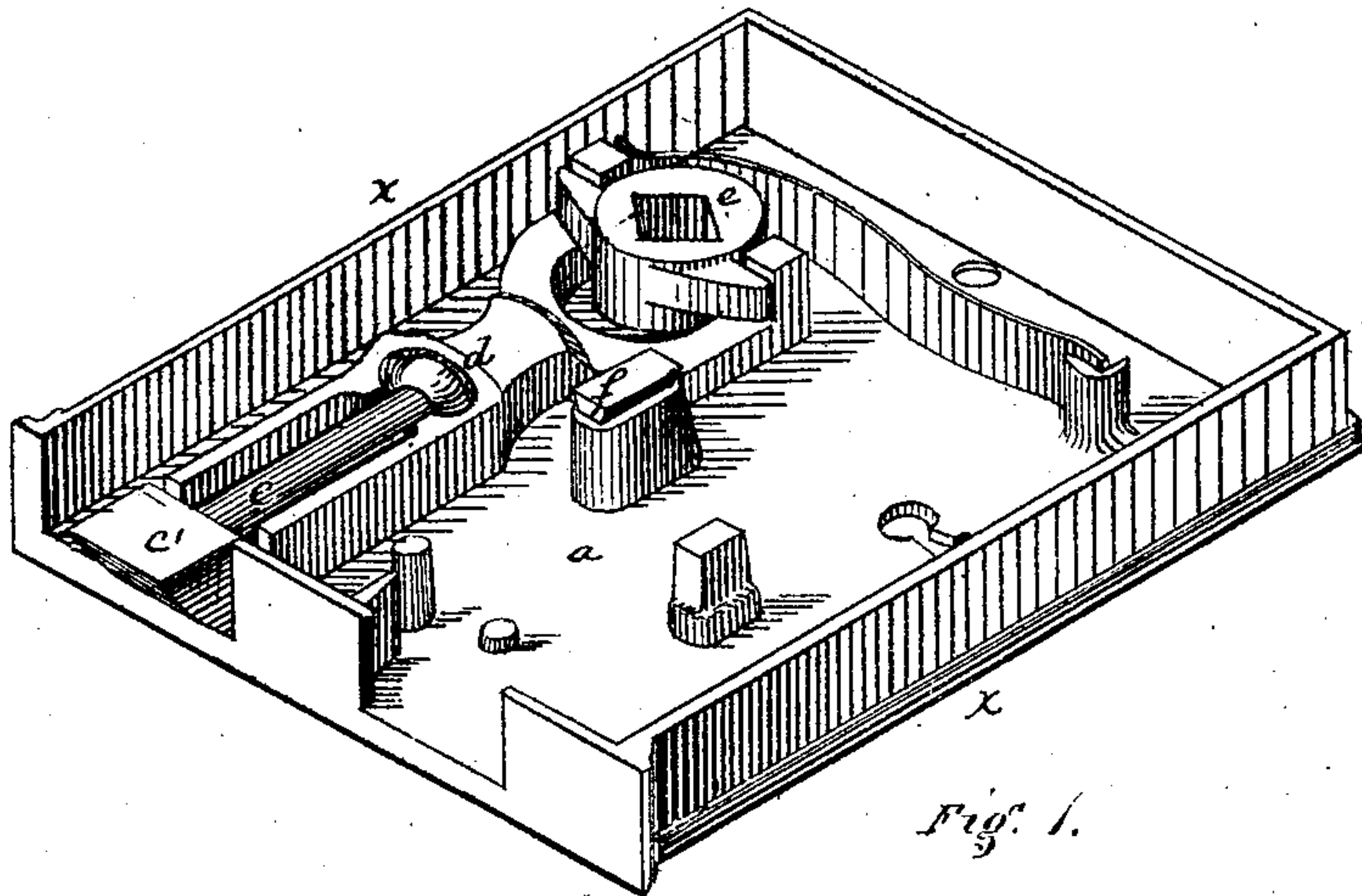


Fig. 1.

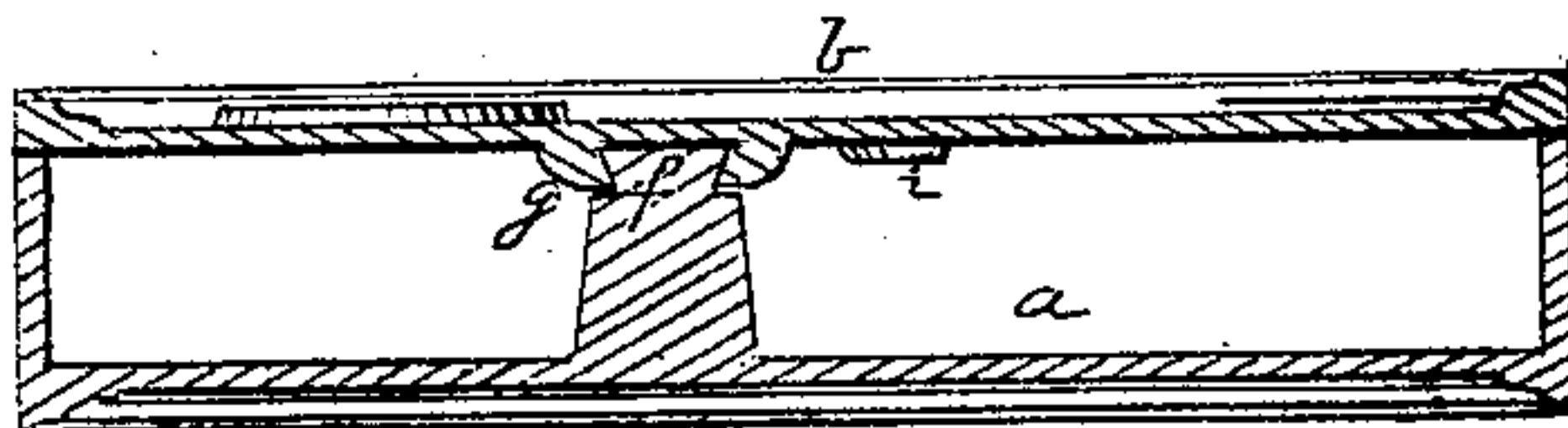


Fig. 2.

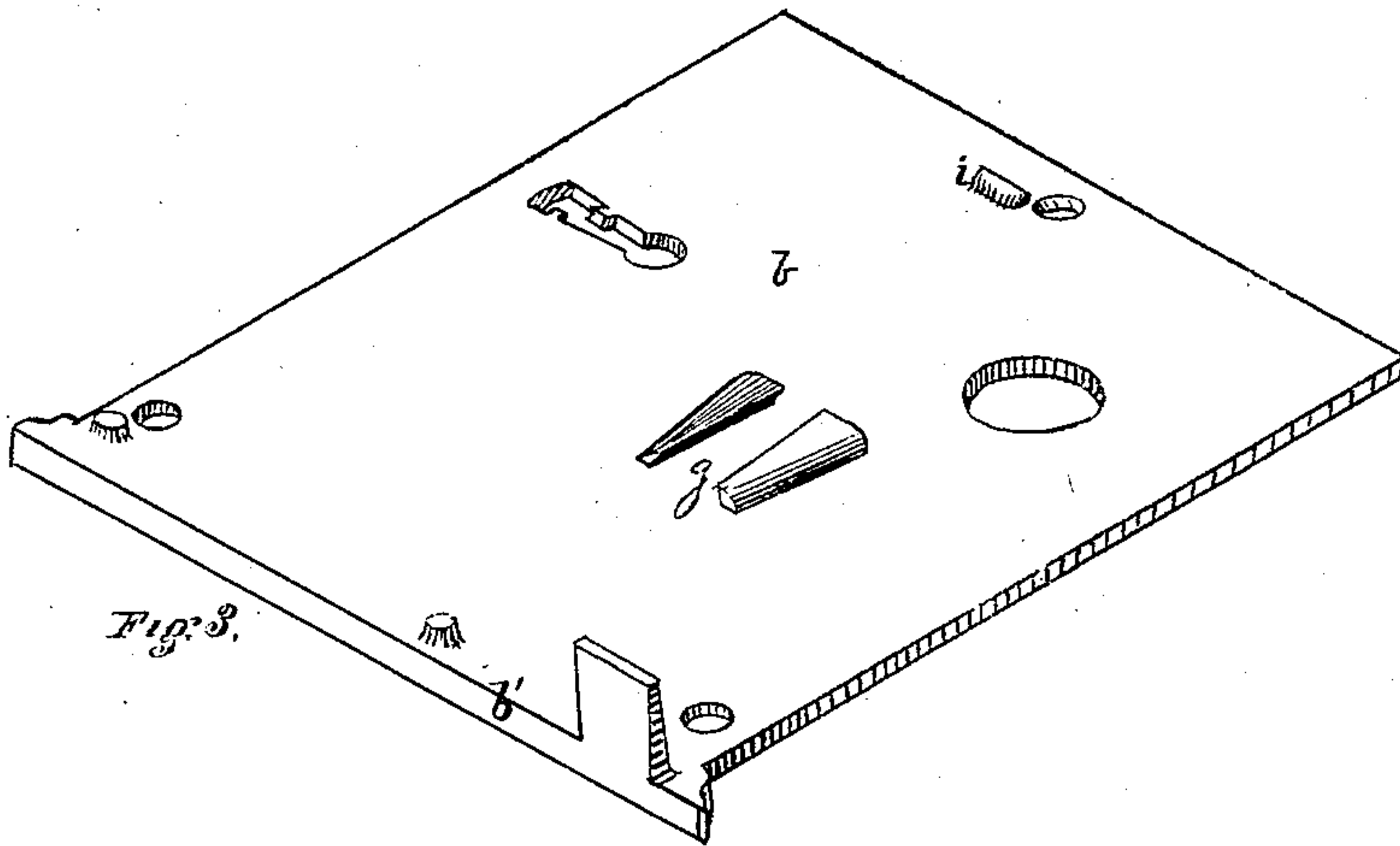


Fig. 3.

Witnesses

James L. Kay
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his attys

UNITED STATES PATENT OFFICE.

BARTHEL ERBE, OF PITTSBURG, PENNSYLVANIA.

IMPROVEMENT IN SECURING CAP-PLATES TO LOCK-CASES.

Specification forming part of Letters Patent No. 147,051, dated February 3, 1874; application filed December 4, 1873.

To all whom it may concern:

Be it known that I, BARTHEL ERBE, of the city of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Locks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing, forming a part of this specification, in which—

Figure 1 is a perspective view of the latch portion of the case with the cap-plate removed. Fig. 2 is a section through *x x*, Fig. 1. Fig. 3 is a view of the under side of the cap.

My invention consists of a lock, in which the cap is secured to the case by means of a hook or key cast on one part, engaging a corresponding slide, socket, or catch cast on the other part, the joint being made by sliding the engaging points into or under each other, and the engaging points being entirely inside of the case, so that the attachment is made without a screw or rivet hole through the cap.

To enable others skilled in the art to make and use my improvement, I will describe its construction and manner of use.

The parts contained in the case *a* are of the usual construction. *b* represents the cap; *c*, the latch-bolt, which is attached to the yoke *d*, and provided with a round shank, by which it may be reversed therein. The follower *e* operates in the usual way. Heretofore the cap *b* has been secured upon the case *a* by means of a screw or other device extending through it. Instead of this, I form upon the case *a* a T head or hook *f*, the upper face of which stands parallel to the edges of the case. Upon the opposite portion of the cap *b* I form a slide or catch, *g*, composed of two overlapping lips. At the rear end of the cap *b* is a stop, *i*, having an inclined inner side. The front edge *b'* of the cap *b* forms one of the bearings of the latch-head *c'*. In order to attach the cap I slide it onto the case *a* from its rear end forward. This causes the hook *f* to engage the catch *g*, and thereby secure these parts together. When the cap has been pushed forward its full extent, the inclined stop *i*, sliding on the rear edge of the case, drops into

it, and holds the cap from any lateral displacement. If it is desired to remove the cap, it is only necessary to spring it slightly up at its back end, when the stop *i* will slip over the rear edge of the case, and permit the withdrawal of the cap. The catch *g* is made of sufficient length, and the stop *i* is placed at a sufficient distance from the rear edge of the case to allow the cap *b* to be moved back to the position shown by the broken lines in Fig. 1. This removes the bearing from one side of the latch-head *c'*, so that the latter may be reversed at pleasure. The portion of the front edge of the case *a*, which forms the bearing of one or two sides of the latch-head *c'*, may be cast along with the cap, as shown in Fig. 3, so that by the lateral movement of the cap upon its slide the latch-head *c'* will be freed upon two sides, making the operation of reversing still easier.

The engaging points or fastening may be cast on any suitable and convenient part of the inside of the lock.

This method of fastening the case together enables me to dispense with the screw-hole heretofore necessary, saves much trouble in joining the parts and in reversing the latch, is a secure fastening, and gives a neater and cheaper article.

The engaging lugs or hooks are cast along with the case and cap, and thereby I save the labor and expense of a subsequent operation, such as drilling and tapping the screw-hole, heretofore necessary.

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

A lock, the case and cap of which are fastened together by a hook cast on one part sliding into and engaging a catch cast on the other, such engaging points being entirely inside the lock, substantially as described.

In testimony whereof, I, the said BARTHEL ERBE, have hereunto set my hand.

BARTHEL ERBE.

Witnesses:

T. B. KERR,
JAMES I. KAY.