(No Model.)

F. S. CLARKSON.

LOCK.

No. 281,615. Patented July 17, 1883.

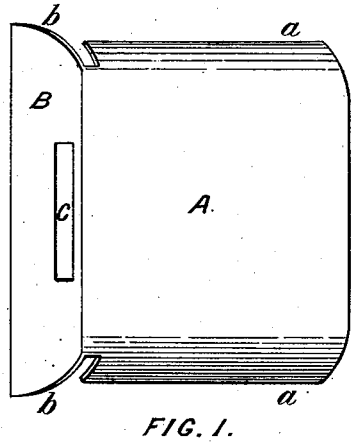


FIG. 1.

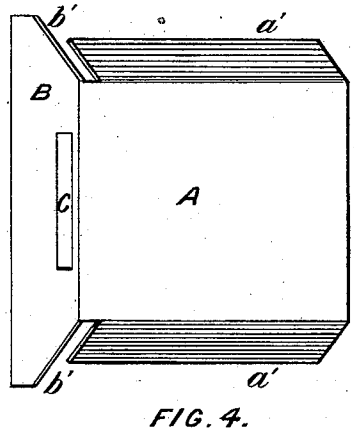


FIG. 4.

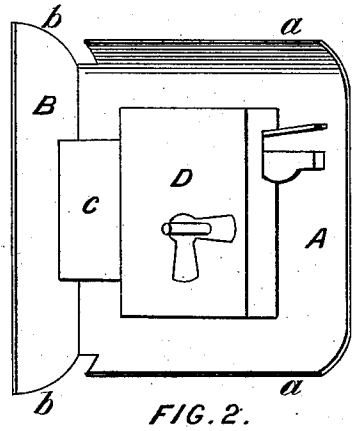


FIG. 2.

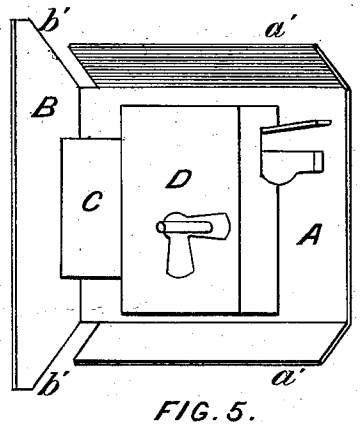


FIG. 5.

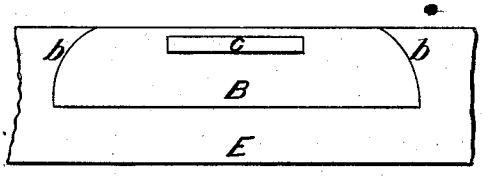


FIG. 3.

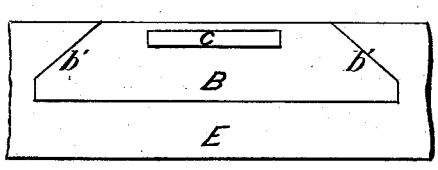


FIG. 6.

WITNESSES

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UNITED STATES PATENT OFFICE.

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LOCK.

SPECIFICATION forming part of Letters Patent No. 281,615, dated July 17, 1883.

Application filed March 1, 1883. (No model.)

To all whom it may concern:

Be it known that I, FRANK S. CLARKSON, a citizen of the United States, residing at Baltimore, Maryland, have invented certain new and useful Improvements in Locks, of which the following is a specification, reference being had to the accompanying drawings, forming part thereof, in which—

Figure 1 is a perspective view of the outside of my improved lock. Fig. 2 is a similar view of the inside of the same. Fig. 3 is a top plan of the same inserted in the wood. Figs. 4, 5, and 6 are similar views to Figs. 3, 4, and 5 of a lock bent in a straight rather than a curved line.

Like letters indicate the same parts in all the figures.

The object of my invention is to provide a lock which may be inserted into the wood of a drawer front, door, &c., in a cut made by the tool of an ordinary variety-molder, and which will be retained in position without the aid of screws, nails, &c.; and to this end my invention consists in the construction, combination, and arrangement of parts, which will be first fully described hereinafter, and then specifically pointed out in the claim.

Referring to the drawings by letter, A is the back plate of the lock; B, the selvage, cut away as shown at *b b'*; D, the box containing the bolt and its operating devices; *a a'*, wings of the back plate, being parts thereof which extend laterally, and which are curved or bent at an angle, as shown in all the figures. C is the bolt.

The invention having no reference to the manner of shooting the bolt or the style of construction of the interior or of the key, no reference need be made to these particulars.

It has been ordinarily the custom to cut away the wood to form the mortise in which the lock is inserted by hand. This has been found troublesome and expensive, and efforts have been made to obviate the necessity of so doing by so constructing the lock that the mortise may be made by machinery. In such cases the use of special tools is rendered necessary, while my invention permits of the cutting of the mortise by means of the cutter of an ordinary Boult's carver or variety-molding machine.

Figs. 3 and 6 show the wood provided with the mortise cut by the cutter named.

The wings of the back plate, when bent ready for insertion, are slightly farther apart than the mortise is wide, so that it is necessary to exert a little force to put it into position, the elasticity of the metal being sufficient to retain it in such position. It is, of course, well known that the force exerted to open the drawer or door to which the lock is secured will be in the direction of the arrow in Fig. 3, and not parallel with the length of the wings *a a'*. It will thus be seen that this lock may be placed in position and held therein by simply forcing it into the mortise, thus dispensing with the necessity of using hand labor to prepare the mortise, or of providing any special cutting-bit to cut it, or of using either screws, nails, or nibs to hold it in.

The back plate and wings and the selvage may be stamped into shape by one operation, and will cost no more than that of an ordinary lock. I also save in the weight of the metal composing the lock by leaving the space *d* between the upper end of the box and the selvage, it being unnecessary to continue the box any farther.

Having thus fully described my invention, what I claim, and desire to secure by Letters Patent, is—

A lock having the edges of one of its plates bent to form wings whose outer ends are free, whereby the lock is retained in an undercut recess without other fastening, substantially as set forth.

In witness whereof I have hereunto set my hand in presence of two witnesses.

FRANK S. CLARKSON.

Witnesses:

S. BRASHEARS,

JNO. T. MADDOX.