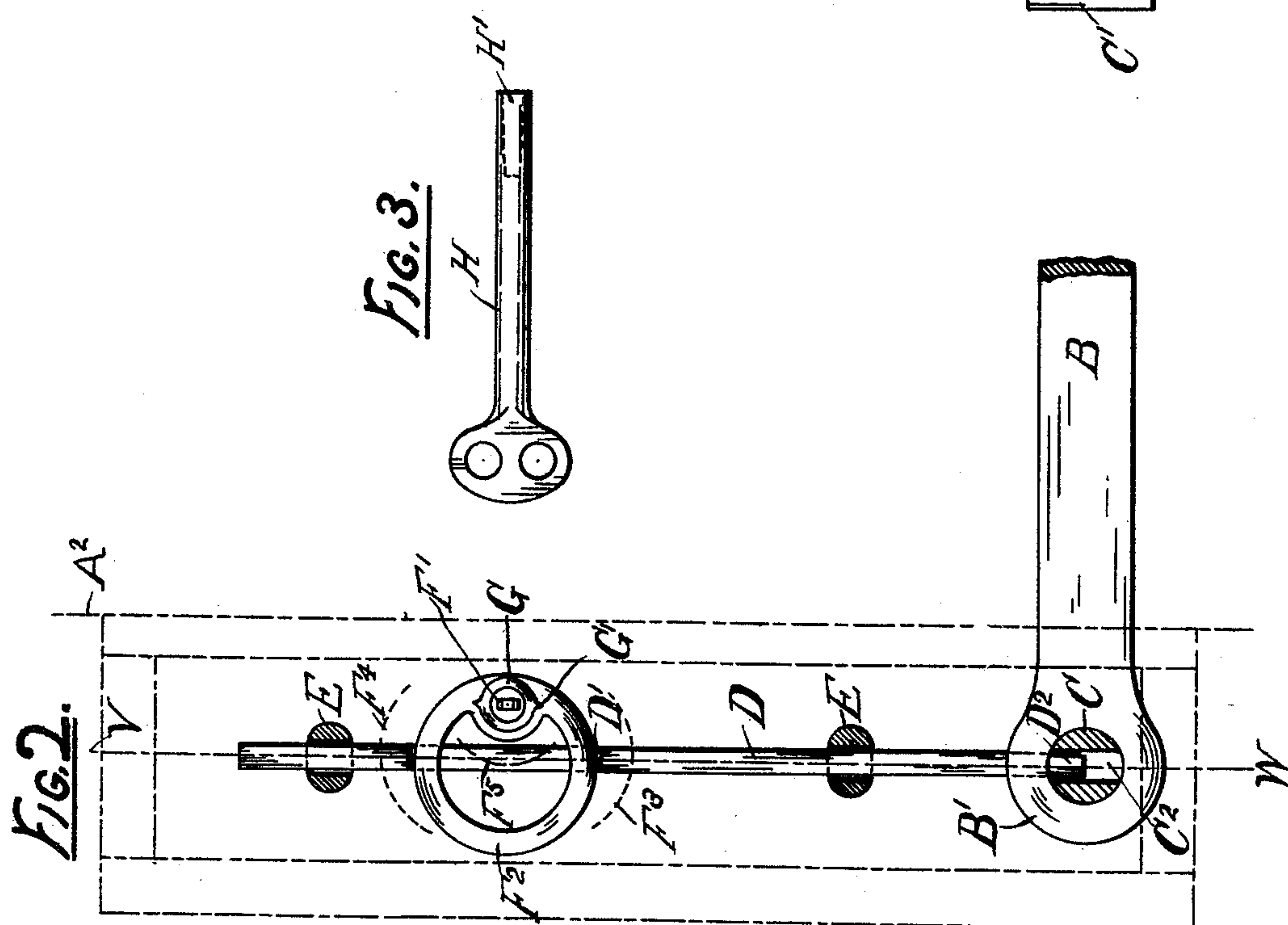
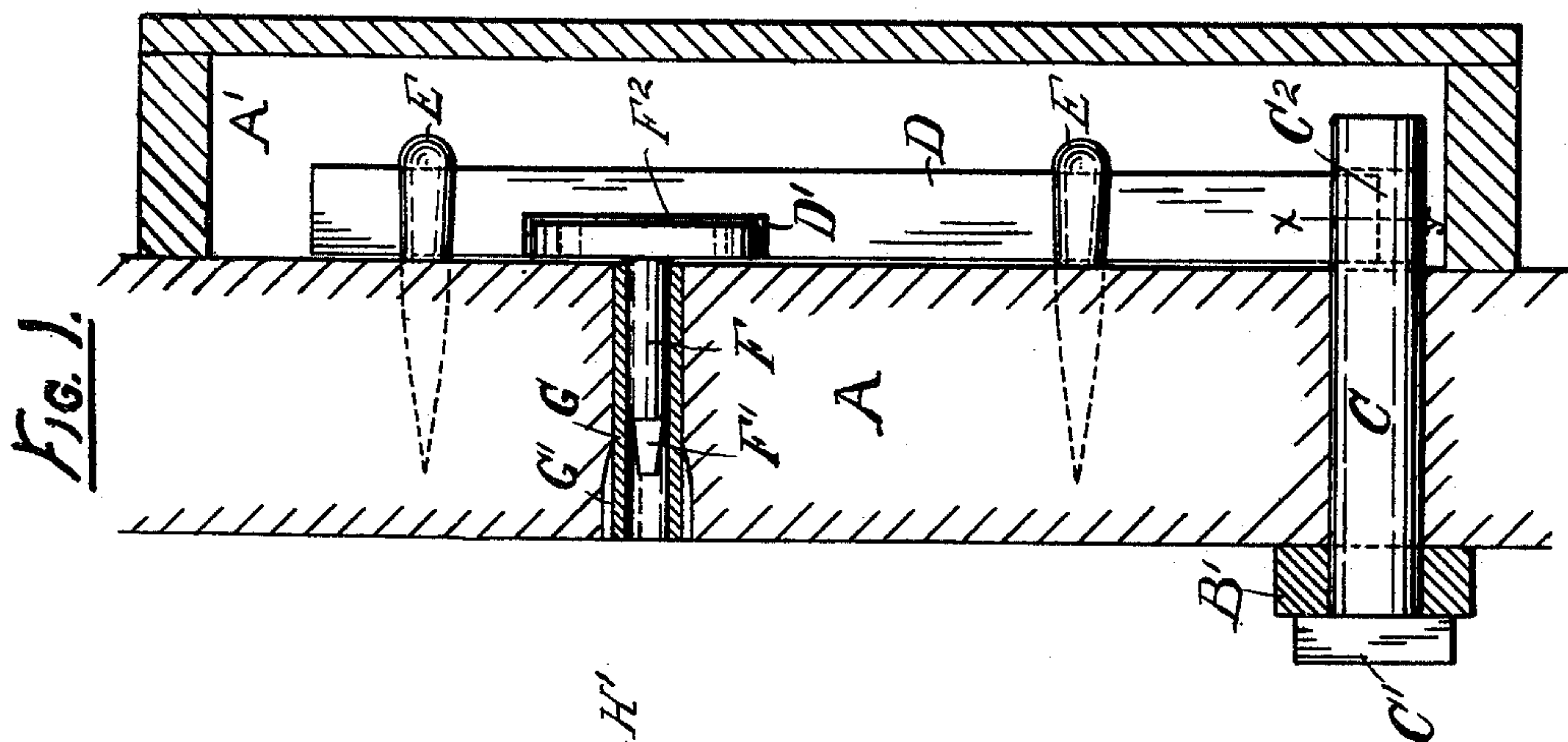


(Model.)

I. R. LASH.
DOOR LOCK.

No. 415,210.

Patented Nov. 19, 1889.



WITNESSES

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ISAAC R. LASH, OF HEIDELBERG, PENNSYLVANIA.

DOOR-LOCK.

SPECIFICATION forming part of Letters Patent No. 415,210, dated November 19, 1889.

Application filed February 28, 1889. Serial No. 301,473. (Model.)

To all whom it may concern:

Be it known that I, ISAAC R. LASH, a citizen of the United States, residing in Heidelberg township, in the county of Berks and State of Pennsylvania, have invented certain new and useful Improvements in Door-Locks; and I do 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, reference being had to the accompanying drawings, and to the letters and figures of reference marked thereon, which form a part of this specification.

This invention relates to a lock intended more particularly for securely fastening large doors, such as are used for barns and similar purposes.

The object is to provide a simple and inexpensive lock which cannot be readily tampered with or get out of order, and which will be strong and effectual.

It consists in the use of a sliding bar on the door-frame adapted to prevent the withdrawal of a slotted bolt or equivalent passing through the door-frame, and also through a projecting hasp or bar on the door, the sliding bar being operated by a key in the manner herein described.

Figure 1 is an edge view of my lock, showing the door-frame in section through V W of Fig. 2. Fig. 2 is a front view showing a portion of the door-frame in dotted lines and the slotted bolt in section through X Y of Fig. 1. Fig. 3 shows a form of key adapted to operate the lock.

A is the door-frame, and the dotted line A² in Fig. 2 the meeting edge of the same.

B is a portion of a hasp or bar, which is secured to the face of the door, and the key end of which B' overlaps the frame. The door itself is not shown.

C is a bolt or bar which passes through the eye B' and through the door-frame, the end being provided with a slot C², similar to a keyway. This dotted end projects through the frame.

D is the locking-bolt, arranged to slide vertically in guides E, secured to the frame, the lower end being shaped to enter the slot C².

F is the operating-shaft, and is journaled in a bushing G in the door-frame, the

bushing having wings G', which prevent it from turning or getting loose. This shaft is provided with a cam or eccentric F², which enters a recess D' in that face of the sliding bolt D which is against the frame. The shaft extends only part way through the bushing, and the end F' is squared or otherwise shaped so as to be readily turned by a key H, correspondingly recessed at H' and adapted to enter the bushing or key-hole G a sufficient distance to engage the end F'. This shaft F is journaled to one side of the sliding bolt D sufficiently to bring the center of the eccentric F² on the dotted curved line F³ in Fig. 2, which crosses the center line of the sliding bolt. The top and bottom lines F⁴ and F⁵ show the extreme positions to which the eccentric is turned, the former raising the end D² of the bolt out of the slot C², and the latter lowering it, so as to effectually prevent the withdrawal of the bolt C.

A' represents a casing which entirely conceals the lock, thus permitting it to be operated only from the one side. It is evident, however, that the shaft F may project from the opposite face of the eccentric also, and the bolt D be arranged to slide within the frame, thus permitting it to be operated from either side when desired. This and other modifications will readily suggest themselves, and I do not, therefore, limit my invention to the exact construction shown.

The head C' on the bolt C indicates when the slot C² is in position to admit the sliding bolt D.

Having thus described my invention, I desire to secure the following claim thereon:

The combination, with a door provided with a bar B and a slotted bolt passing through the end of said bar and the door-frame, of the recessed sliding bolt D, with end adapted to enter said slotted bolt, and the eccentric operating-shaft F, journaled in the door-frame, as described, and all arranged and adapted to operate substantially as set forth.

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

ISAAC R. LASH.

Witnesses:

W. G. STEWART,
P. A. BUSHONG.