

E. C. GOODWIN.  
LOCK AND LATCH.  
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915,851.

Patented Mar. 23, 1909.

Fig. 1.

Fig. 2.

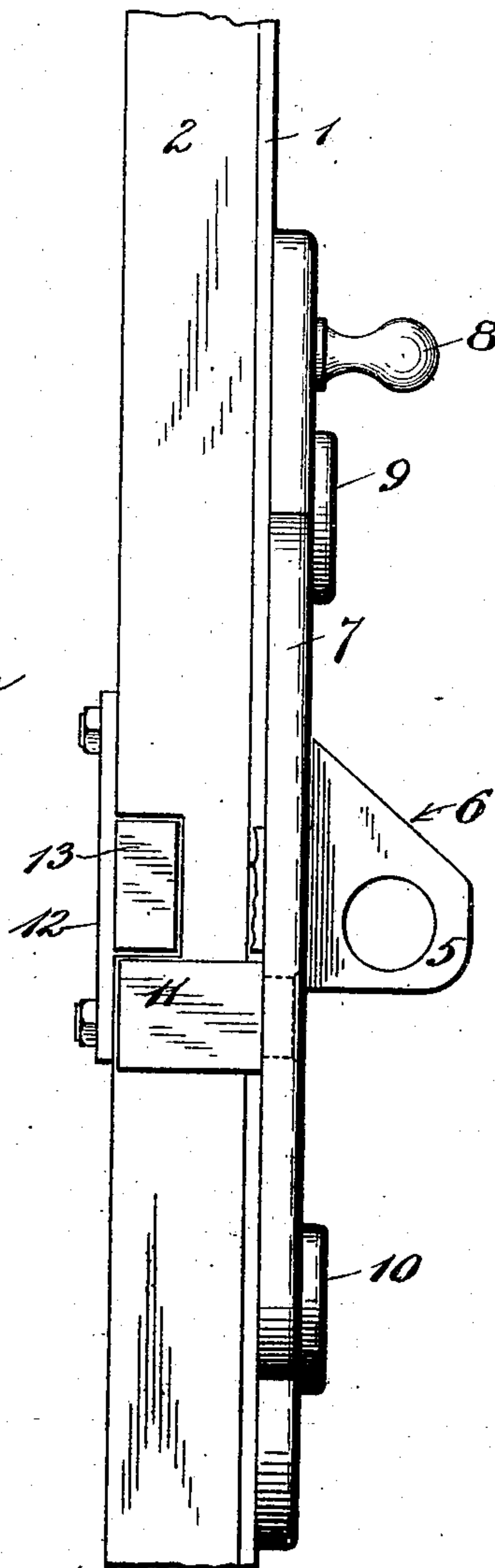
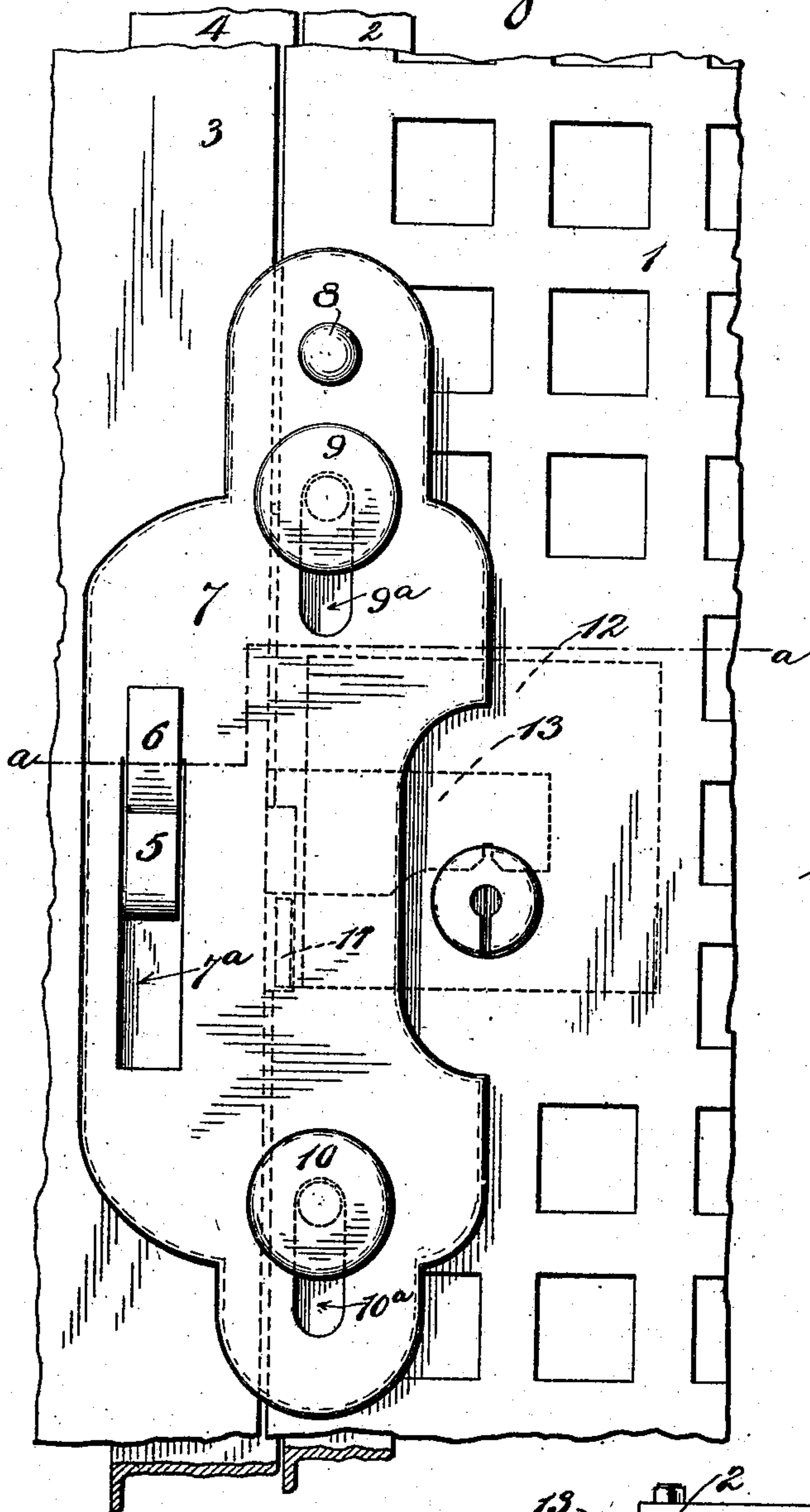
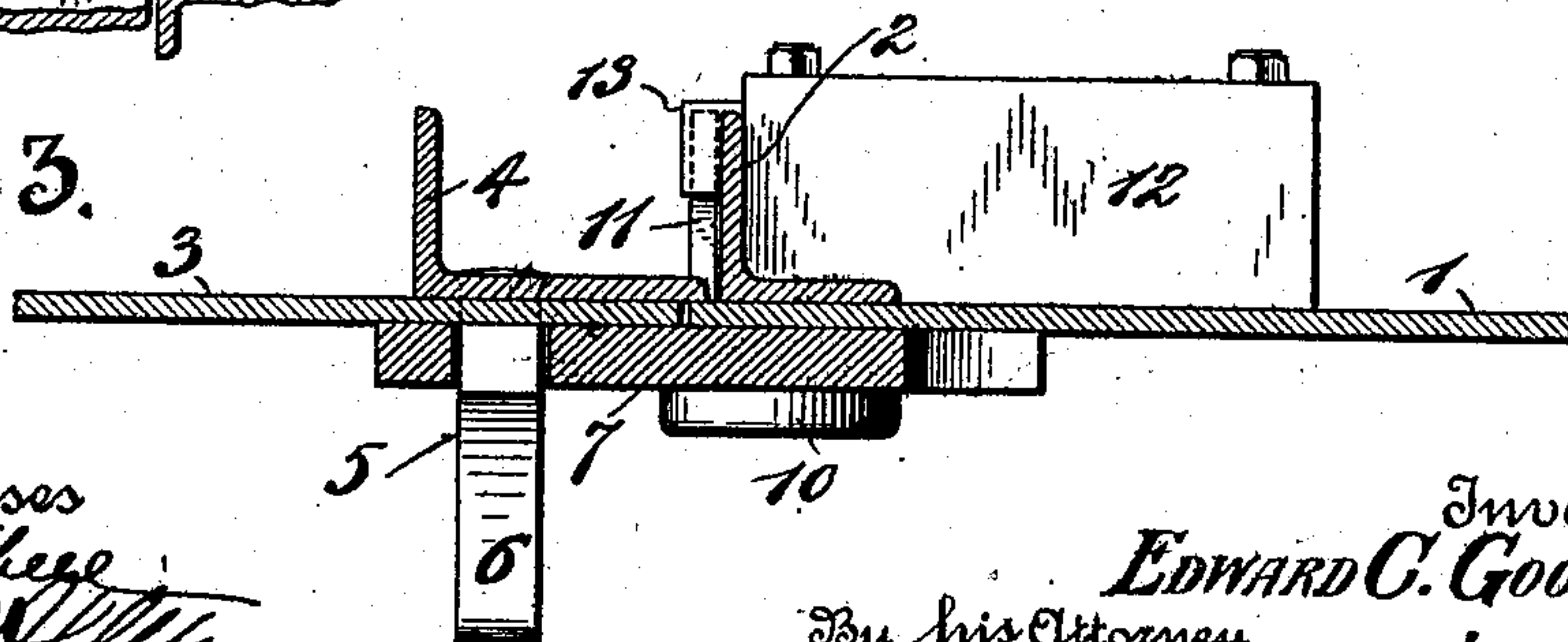


Fig. 3.



Witnesses  
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# UNITED STATES PATENT OFFICE.

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## LOCK AND LATCH.

No. 915,851.

Specification of Letters Patent.

Patented March 23, 1909.

Application filed January 9, 1904. Serial No. 188,278.

*To all whom it may concern:*

Be it known that I, EDWARD CLAYTON GOODWIN, a citizen of the United States, residing at New Britain, in the county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Locks and Latches, of which the following is a full, clear, and exact description.

My invention relates to locks and latches. My invention consists principally in a keeper attached to a door jamb and a sliding gravity latch attached to a door, said latch being adapted to engage said keeper when the door is closed, together with a mechanism for locking said latch.

The main object of my invention is to provide a simple, strong and efficient lock and latch which will be effective for the purpose intended, and at the same time, be economical to manufacture.

It is my purpose to provide a lock and latch which will be adapted especially for use on steel constructed lockers.

In the drawings, Figure 1 is an elevation of my improved device showing it as it appears when attached to a steel constructed locker. Fig. 2 is an edge elevation of the same, the door jamb being removed. Fig. 3 is a horizontal section of the line *a-a* in Fig. 1.

1 is a portion of a locker-door.  
2 is an angular reinforcing rib.  
3 is a portion of a door jamb.  
4 is an angular reinforcing rib.  
5 is a keeper having an inclined upper edge 6.

7 is a sliding latch. 7<sup>a</sup> is a slot therein registering with keeper 5.

8 is a handle on latch 7.

9 and 10 are studs carried by door 1 and projecting through guiding slots 9<sup>a</sup> and 10<sup>a</sup> respectively in the latch 7, said studs flaring at their outer ends for the purpose of holding latch 7 in position against door 1.

11 is a shoulder projecting rearwardly from latch 7.

12 is a casing for a locking-bolt 13. The bolt 13 may be operated in the usual manner by a key which may be inserted in the key-hole shown in Fig. 1.

The operation of this device is as follows: By closing door 1 the slot 7<sup>a</sup> of the latch is made to engage keeper 5 on its inclined edge 6. This engagement forces the latch up-

ward until it drops into the recess back of keeper 5 thus effectually latching the door. To unlatch the door it is merely necessary to lift up the latch by means of the handle 8 until slot 7<sup>a</sup> is in a position to clear the keeper 5. If it is desired to lock the door, it is only necessary to insert a key in the key-hole shown and force out the bolt 13 across the path of shoulder 11 which blocks the latch 7 against any upward movement and hence prevents any opening of the door.

What I claim is:—

1. In a construction of the character described the combination of a door and jamb a vertical sliding latch, a keeper carried by said jamb and adapted to coact with said latch, a shoulder projecting rearwardly from said latch, and a bolt carried at the rear of said door and adapted to coact with said shoulder.

2. In a construction of the character described, the combination of a door and jamb, a vertical sliding latch, a handle thereon, slots therein, studs carried by said door and coacting with said slots to guide said latch, a keeper adapted to coact with said latch, a shoulder projecting rearwardly from said latch and a locking bolt carried on the back of said door and adapted to coact with said shoulder.

3. In a construction of the character described, a metal door, a reinforcing strip therefor, a latch carried at the outer surface of said door, a lug projecting to the rear of and through said door and alongside of said strip, a bolt at the rear of said door adapted to extend through said strip for locking said latch, and a keeper for said latch carried by the door jamb.

4. In a construction of the character described, a door, a pair of outwardly projecting studs permanently secured thereto separated vertically one above the other, said studs having enlarged heads, a door jamb, a keeper permanently secured to and projecting outwardly from said door jamb, a gravity actuated sliding latch having a body portion with guide slots coacting with said studs and an offset from the body with a slot adapted to register with said keeper, and a handle for manually lifting said latch.

5. In a door lock and latch mechanism, the combination of a door, a door jamb, a latch



carried by the door, one of said two latter  
members having a perforation and a keeper  
carried by the other member, a shoulder  
carried by said latch and projecting to the  
5 rear of said door, and a key-operable locking  
bolt carried by the door and accessible from  
the outer side for coacting with said shoulder.

Signed at New Britain, Connecticut, this  
seventh day of January, 1904.

EDWARD CLAYTON GOODWIN

Witnesses:

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