

(No Model.)

J. C. CRAIG.  
COMBINED LATCH AND LOCK.

No. 368,324.

Patented Aug. 16, 1887.

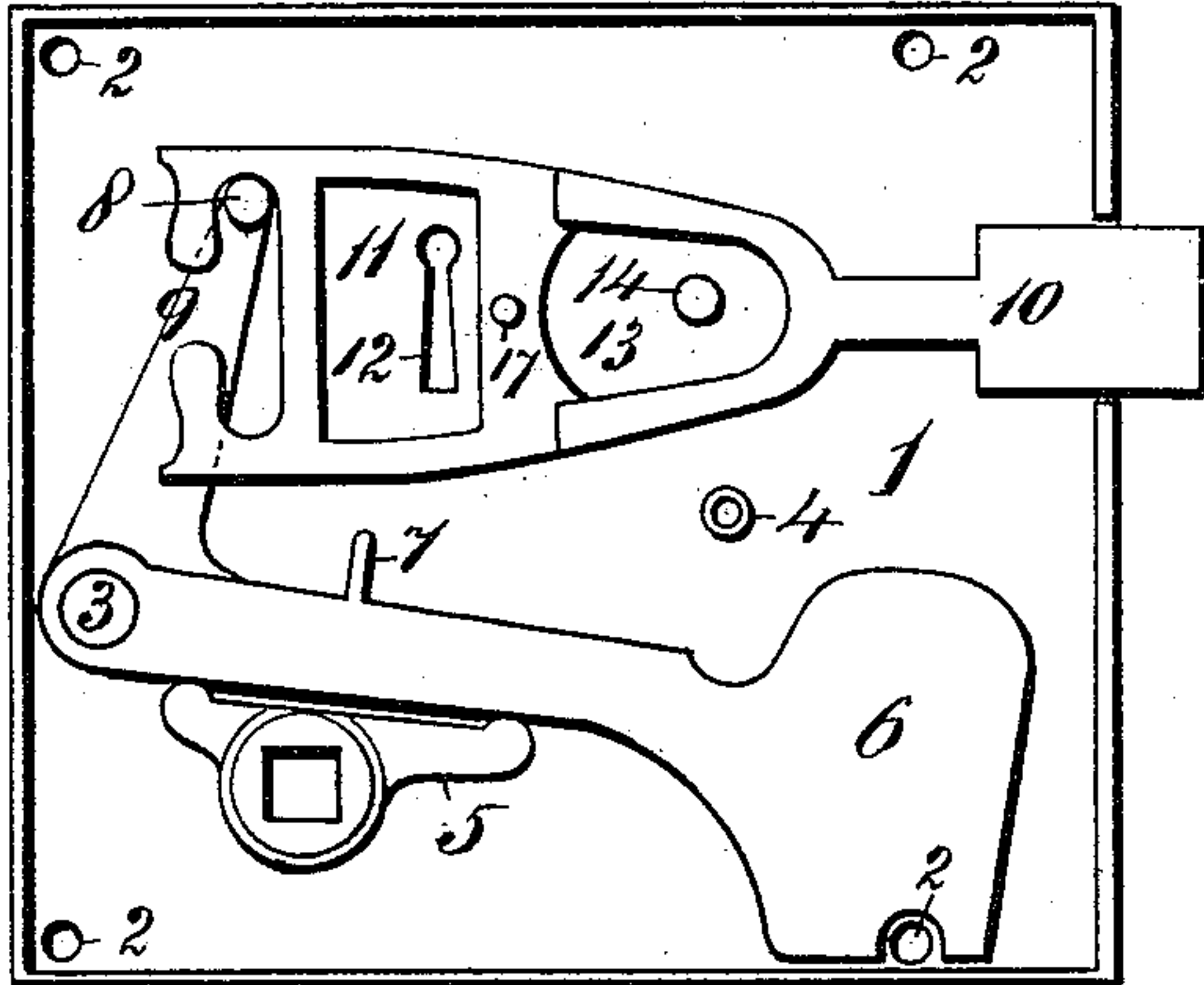


Fig. 1.

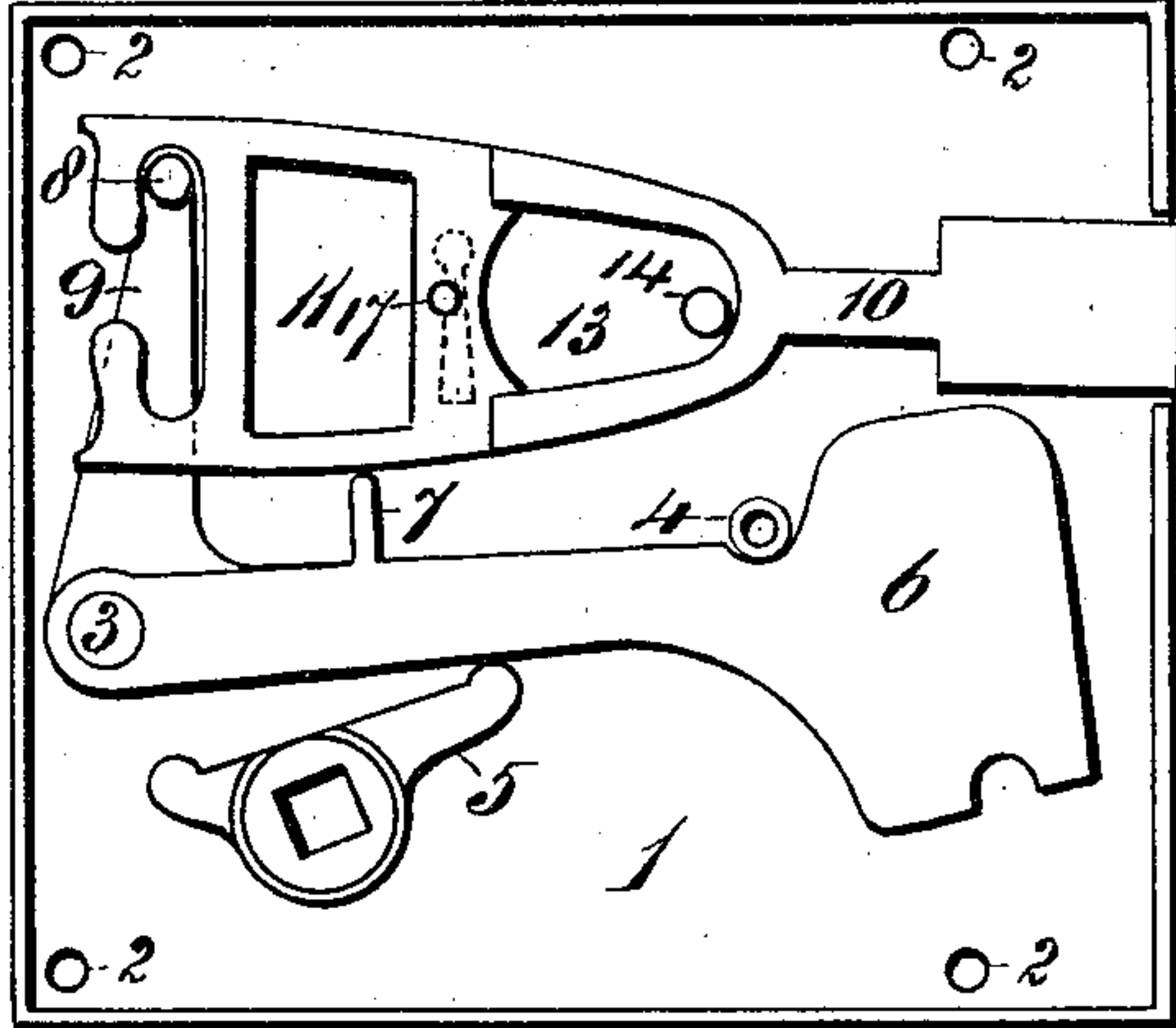


Fig. 2.

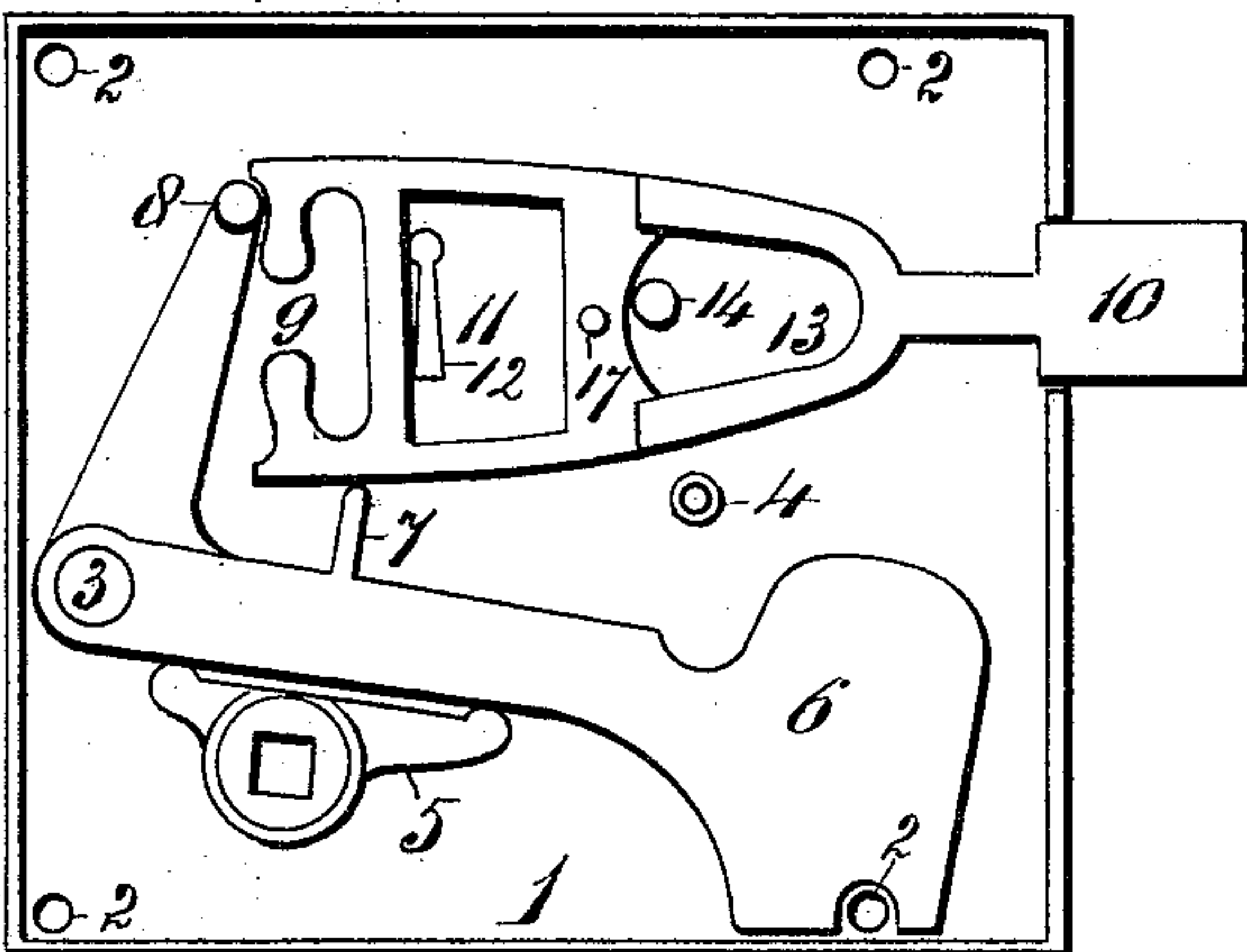


Fig. 3.

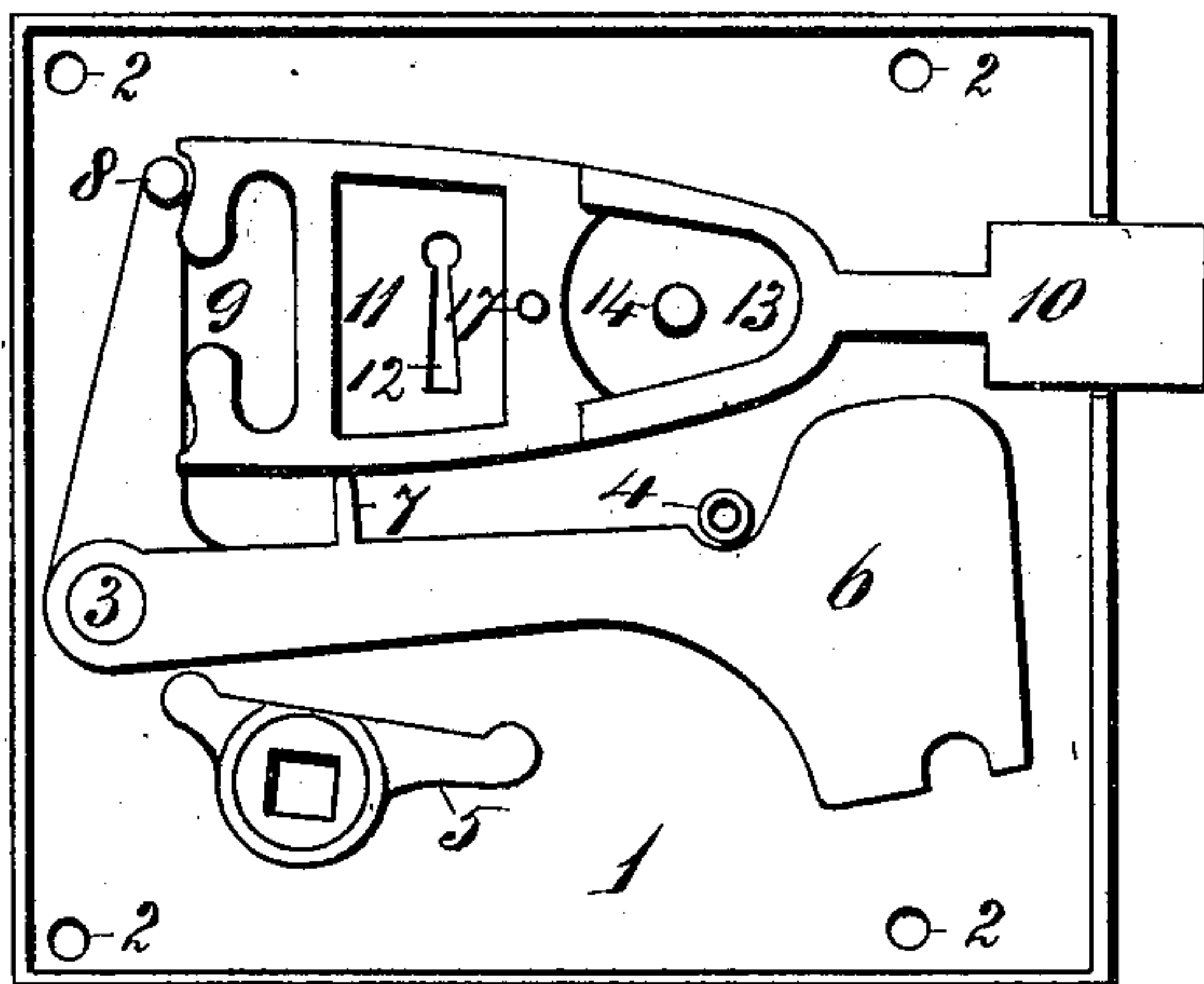


Fig. 4.

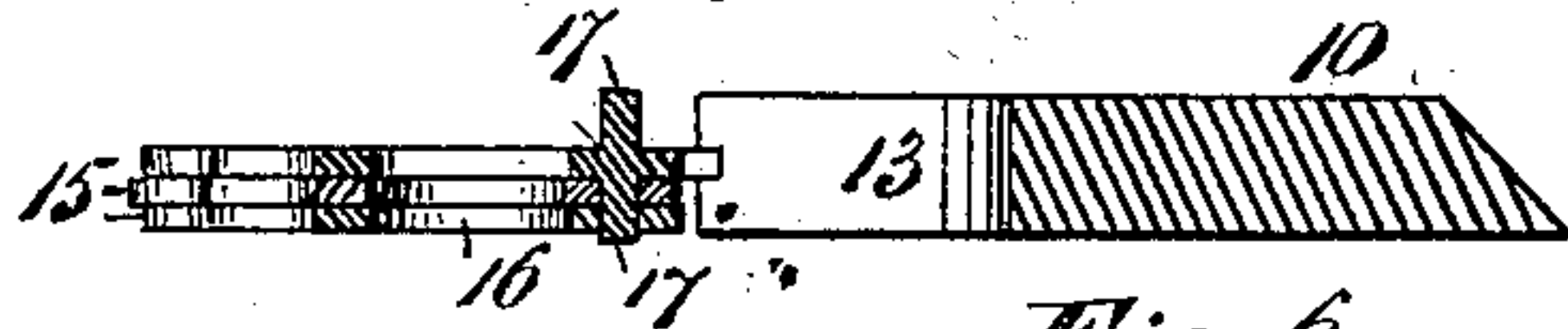
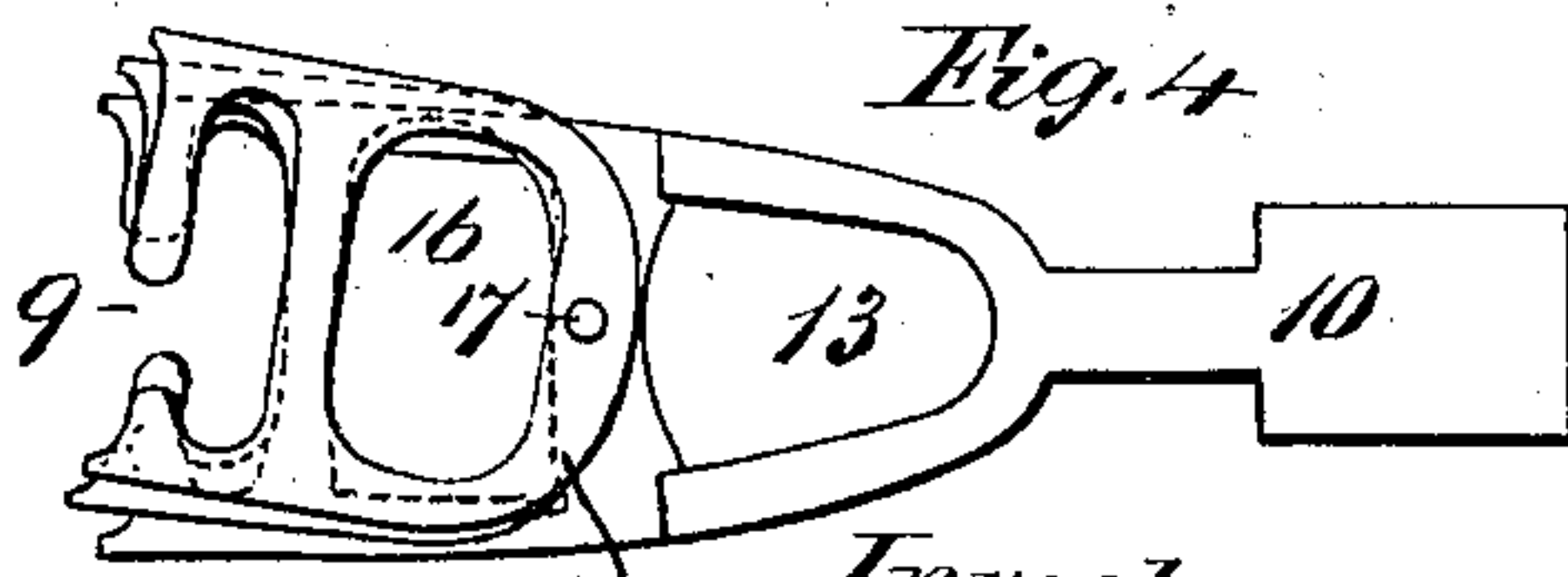


Fig. 5.



Witnesses:

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# UNITED STATES PATENT OFFICE.

JOHN C. CRAIG, OF FENELON FALLS, ONTARIO, CANADA.

## COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 368,324, dated August 16, 1887.

Application filed May 5, 1887. Serial No. 237,164. (No model.) Patented in Canada March 15, 1887, No. 26,236.

*To all whom it may concern:*

Be it known that I, JOHN CHARLES CRAIG, of Fenelon Falls, in the Province of Ontario, in the Dominion of Canada, have invented

5 certain new and useful Improvements in Combined Latch and Lock; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, in which—  
10 Figure 1 is a plan of the interior of my improved latch and lock, the bolt advanced as when latched. Fig. 2 is a like view showing the bolt retracted from latching position. Fig. 3 is a like view of the parts when the bolt is  
15 advanced locked. Fig. 4 is a like view of the parts when the bolt is retracted locked. Fig. 5 is a view of the bolt detached from the case and provided with tumblers, and Fig. 6 is an edge view of the same.

20 My invention relates to the construction of gravitating-lever latches and locks, and has for its object to effect lifting the lever by a tappet or cam to withdraw the latch-bolt and subsequently projecting the latch-bolt by a  
25 key to cause the lever to lock the same.

My invention consists of a gravitating lever having an arm provided with a stud and a bolt slotted at the heel to receive the stud, so that  
30 by lifting the lever the bolt is retracted, and projecting the bolt by a key brings the end of the bolt outside the stud on the lever-arm, whereby the bolt cannot be fully retracted without application of the key to return the slot to the stud.

35 1 is the lock-case, the cover removed to show the interior; 2, the holes for screws to fasten the lock to a door.

3 is a post, and 4 14 stop-pins, all cast with the lock-case.

40 5 is a tappet journaled in the cover and back of the lock-case, and has a socket to receive a knob-spindle.

On post 3 is sleeved pivotally a gravitating elbow-lever, 6, the horizontal arm of  
45 which impinges against pin 4, and the vertical arm is provided with a stud, 8, which en-

gages a T-shaped slot, 9, in the heel of the latch-bolt 10, and said bolt has an opening, 11, opposite key-hole 12 in the lock-case to receive the bit of a key, and an opening, 13, to  
50 receive stop-pin 14 to limit the forward movement of the bolt when reciprocated by a key entering the key-hole 12 and engaging with the side of opening 11 in the bolt. The key turning in the opening raises the heel of the bolt  
55 and projects the same, so that the slot in the heel passes from engagement with the stud of the lever, and said stud will then engage with the end of the bolt by said end dropping onto  
60 a seat, 7, on lever 6, which supports such bolt horizontally. When the bolt is thus locked outward, pressure will then succeed in only partially forcing the same into the lock-case, the limit being reached when the lever strikes  
65 stop-pin 4.

The bolt 10 may be provided with tumblers 15, having an opening, 16, coinciding with opening 11. The tumblers are hung on a pin, 17, projecting from opposite sides of the bolt,  
70 so that they may be on one or both sides thereof, and the bolt be reversed to suit doors opening to the right or to the left hand.

I claim as my invention—

1. In a latch and lock, the combination, with the lock-case having stop-pin 14 and key-hole  
75 12, of bolt 10, having a T-shaped slot in the heel and openings 11 13 in front, gravitating lever 6, engaging the bolt, and tappet 5, independently journaled in the case to lift the lever, as set forth. 80

2. In a latch and lock, the combination of bolt 10, having a T-shaped slot in the heel, and opening 11, opposite to the key-hole in the lock-case, tumblers 15, pivoted to the bolt, said tumblers having a T-shaped slot and  
85 opening 16 corresponding to the opening and slot in the bolt, and gravitating lever 6, as set forth.

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Witnesses:

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