

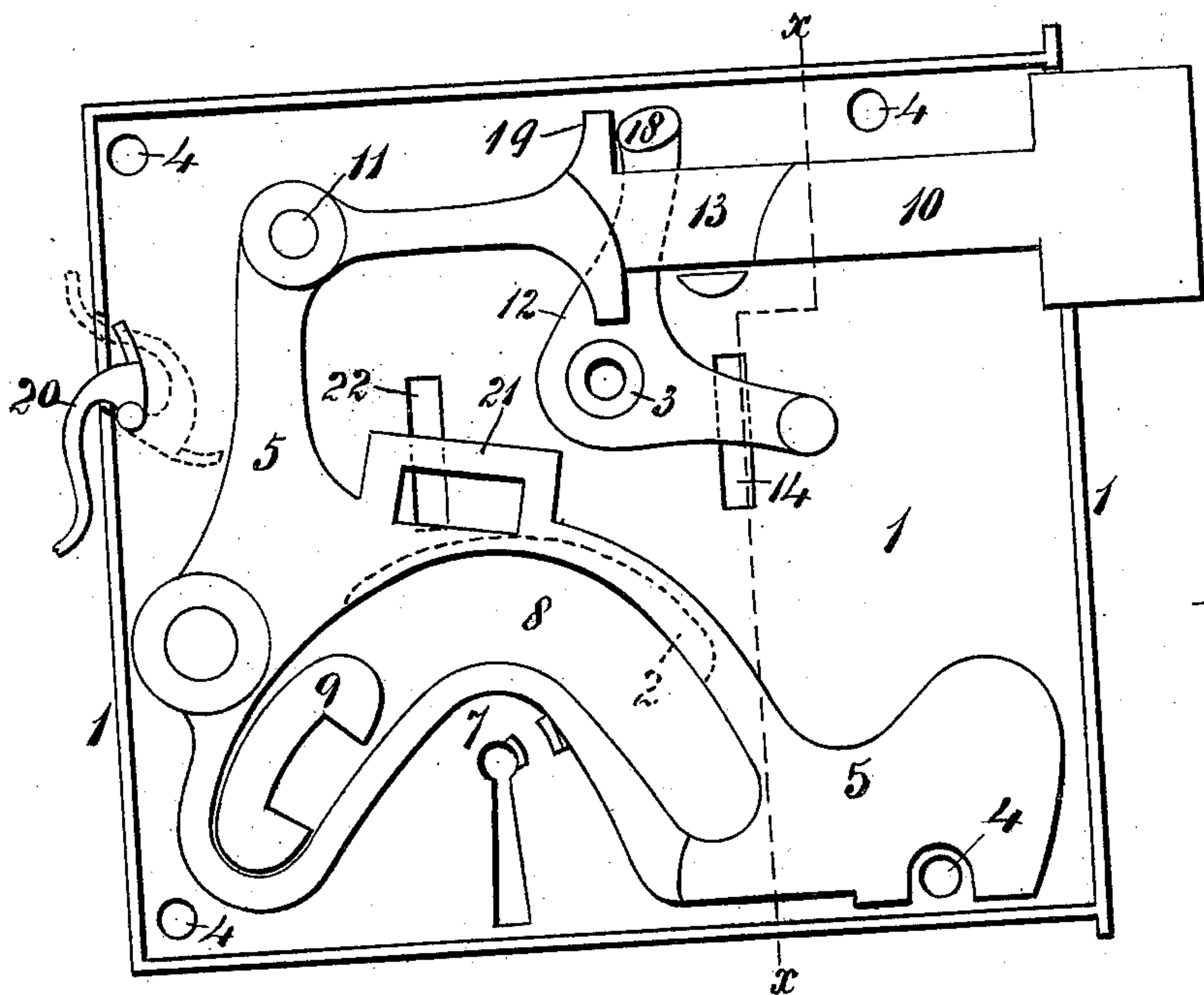
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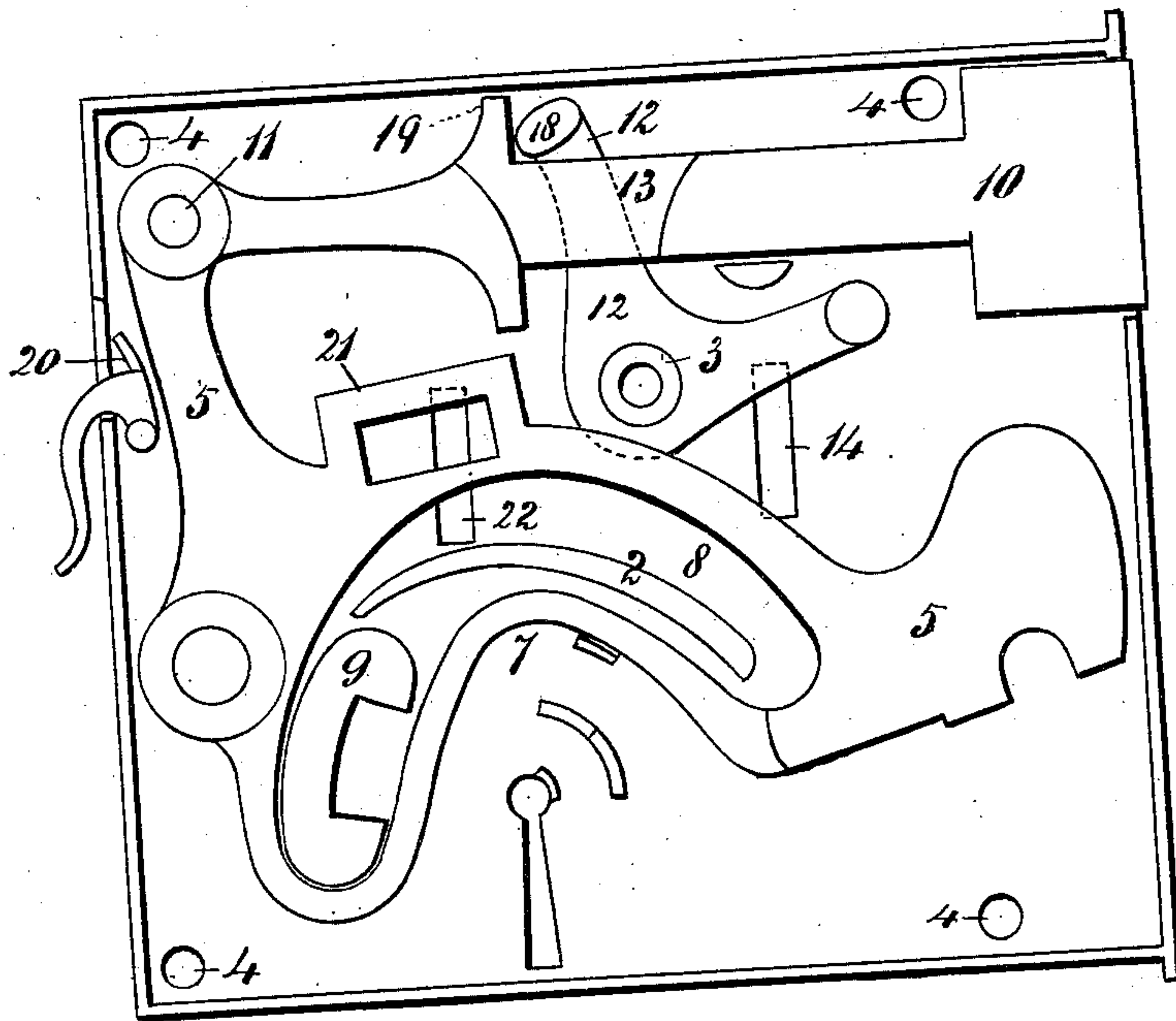
J. C. CRAIG.  
COMBINED LATCH AND LOCK.

Patented Feb. 22, 1887.

No. 358,385.



*Fig. 1.*



*Fig. 2.*

Witnesses:  
John Grist  
C. K. Kinnock

Inventor:  
J. C. Craig  
By Henry Grist  
Attorney.

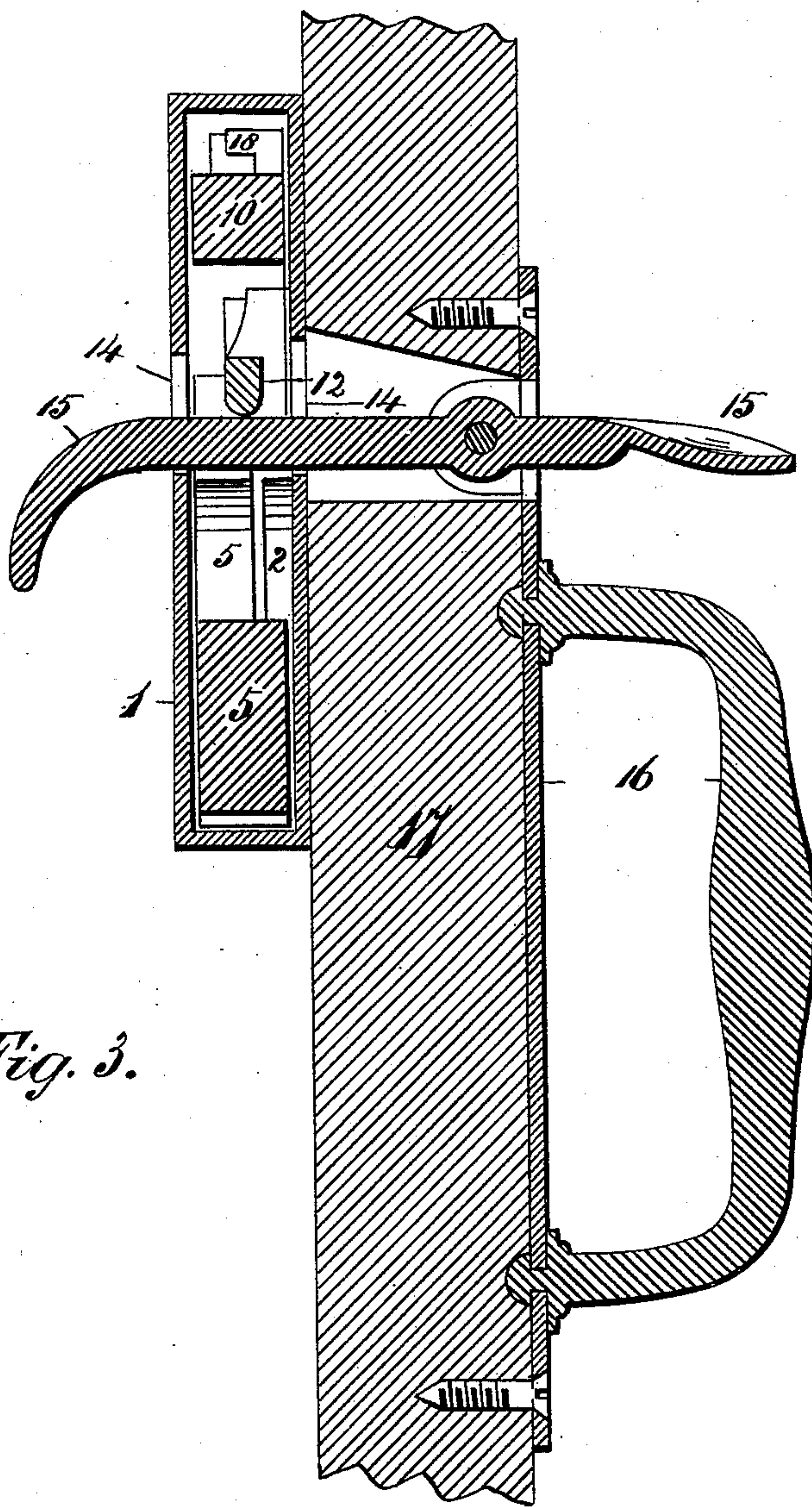
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*Fig. 3.*

*Witnesses:*  
*John Grist*  
*C. G. Hemlock*

*Inventor:*  
*J. C. Craig*  
*By Henry Grist*  
*Attorney.*



# UNITED STATES PATENT OFFICE.

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

## COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 358,385, dated February 22, 1887.

Application filed October 21, 1886. Serial No. 216,884. (No model.)

*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 certain new and useful Improvements in a 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 accompanying drawings, in which—

Figure 1 is a plan of the interior of my improved latch and lock combined, showing the position of the parts when the bolt is projected. Fig. 2 is a like view showing the position of the parts when the bolt is retracted. Fig. 3 is a sectional view on line X X, Fig. 1, showing application to a door and operation by a thumb-latch.

My invention relates to improvements in a combined latch and lock for which a patent, No. 338,141, was granted to me March 16, 1886; and the object of my present invention is to dispense with the knob, spindle-socket, and trippet, and construct the latch and lock whereby the bolt can be operated by the thumb-piece of a thumb-latch secured to the side of the door opposite to the lock, and the thumb-latch have two adjustments to suit doors differing in width of stile.

My invention consists in the construction, operation, and combination of parts, as will be hereinafter particularly described and claimed.

1 is the lock-case, the cover being removed to show the interior parts, and said case has a curved projection, 2, to form an arc above the key-hole, a central post, 3, to receive the screw to fasten the cover-plate to the case, holes 4 for screws to fasten the lock to a door, and a lever, 5, engaging with the inner end of the latch-bolt, and having a curved recess, 7, on its lower side to allow of admission of a key, and a curved slot, 8, concentric with the curved recess 7, and in said slot a dog, 9, to engage with the curved projection 2, all as described in the before-mentioned patent, and for the purposes therein set forth.

10 is my improved latch-bolt, constructed to be reversible to adapt the lock to suit doors hung to open either to the right or left, or opening inwardly or outwardly. The rear

end of the bolt is provided with an eye which sleeves on a stud, 11, of the upwardly-extending arm or lever 5, and said lever projects the bolt automatically, as described in the before-mentioned patent.

12 is an elbow-lever fulcrumed at the angle to post 3 of the lock-case, and bolt 10 has a transverse notch, 13, to receive the vertical arm, whereby the bolt and lever will be flat against the lock-case 1, and said arm is provided with a crooked end, 18, having contact with an abutment, 19, on the bolt to force the bolt inwardly when the opposite end of the lever is lifted to overcome the resistance of lever 5, which projects the bolt.

The horizontal arm of the elbow-lever extends across a vertical slot, 14, in the lock-case and cover, said aperture or slot admitting the thumb-piece 15 of a thumb-latch, 16. (Shown in Fig. 3 as attached to a door, 17.) The vertical arm of the lever is provided with a stud, 18, to engage with a projection, 19, on the bolt, so that by depressing the thumb-piece of latch 16 the bolt will be retracted; but when the pressure is removed the bolt will be projected by the gravity of lever 5, and may be locked by the movement of dog 9 by a key, as described in the before-mentioned patent.

20 is a stop-lever fulcrumed to the lock-case and cover, one end engaging the vertical arm of lever 5, and the other end projecting through a slot in the rim of the lock-case, so that when the projecting end of the lever is raised the inner end will stop against the lever and resist retraction of the bolt.

To adapt the lock to suit doors having a wider stile, and thereby admit of the latch being set farther from the edge of the door, lever 5 is provided or cast with a loop, 21, at the top of the curve, and the lock-case and cover provided with a slot, 22, whereby the thumb-piece 15 of the latch may be inserted in the loop to lift the gravity-lever 5 and retract the bolt independently of lever 12.

I claim as my invention—

1. The combination, with the lock-case having slot 22, of the gravity-lever 5, pivoted within the case and having a loop, 21, a thumb-piece, 15, and a latch-bolt, 10, pivoted to an arm of said lever, whereby the bolt will be re-

tracted by lifting the gravitating lever by the loop, as set forth.

2. The combination, with the lock-case having slots 14 and 22 and curved projection 2, 5 of the thumb-piece 15, elbow-lever 12, sliding bolt 10, gravity-lever 5, having a loop, 21, and dog 9, sliding in a curved slot in the

gravity-lever and engaging with the projection on the lock-case, as set forth, for the purpose described.

J. C. CRAIG.

Witnesses:

HUGH McDUGALL,

WM. McCLENNEN.