

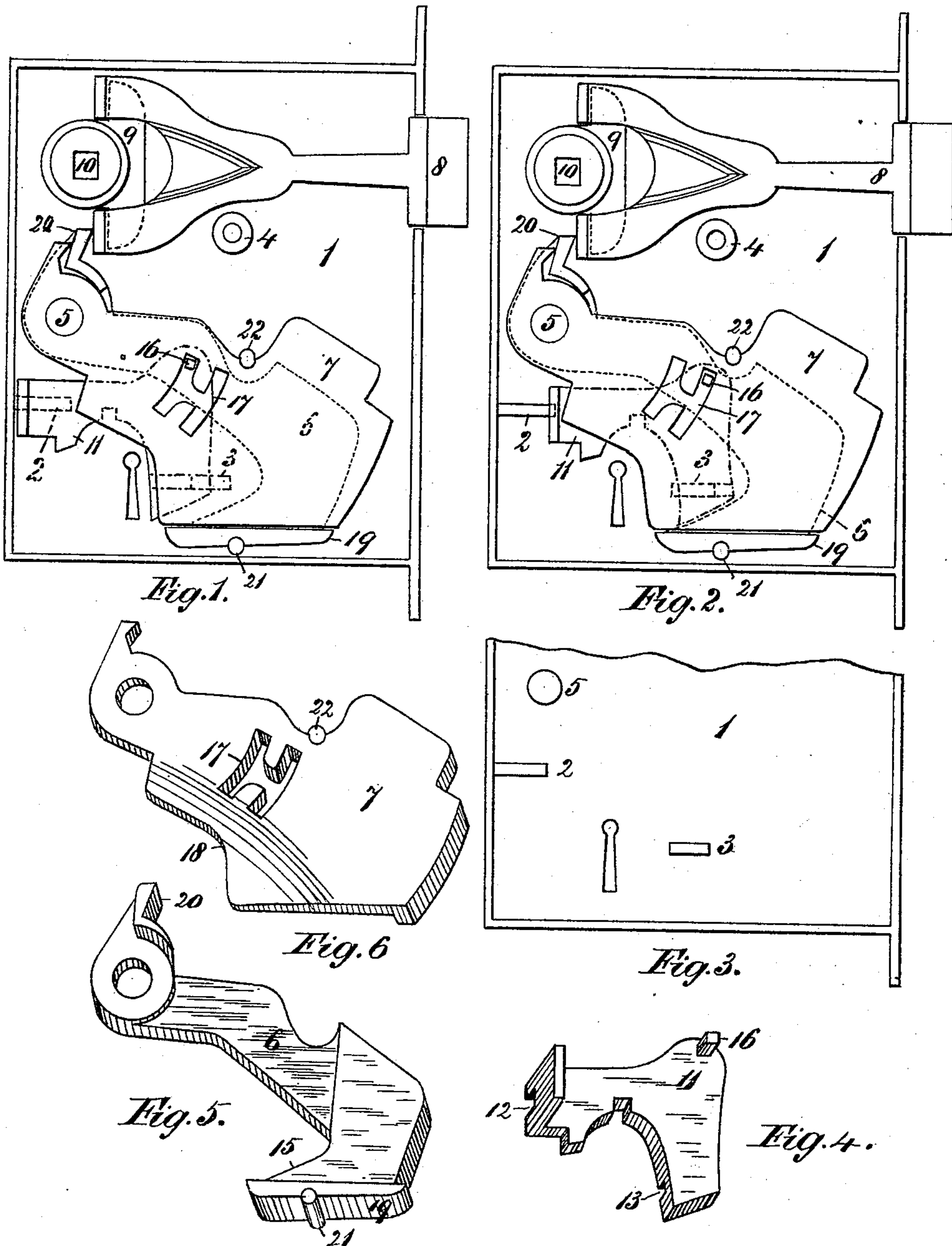
(No Model.)

M. JOBBORN.

COMBINED LATCH AND LOCK.

No. 379,788.

Patented Mar. 20, 1888.



Witnesses:

John Grist.

Walter Farley.

Inventor:

M. Jobborn.

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UNITED STATES PATENT OFFICE.

MOSES JOBBORN, OF HAMILTON, ONTARIO, CANADA, ASSIGNOR TO JOHN H. TILDEN, OF SAME PLACE, AND GEORGE B. UNDERWOOD, OF TORONTO, CANADA.

COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 379,788, dated March 20, 1888.

Application filed January 7, 1888. Serial No. 260,054. (No model.) Patented in Canada May 27, 1887, No. 26,780.

To all whom it may concern:

Be it known that I, MOSES JOBBORN, of Hamilton, in the county of Wentworth, in the Province of Ontario, in the Dominion of Canada, have invented certain new and useful Improvements in a Combined Latch and Lock, (for which George B. Underwood, as my assignee, received a patent of the Dominion of Canada, No. 26,780, dated May 27, 1887;) 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 an elevation of my improved latch and lock, showing the interior parts in unlocked position. Fig. 2 is a like view showing the parts in locked position. Fig. 3 is a like view of a portion of the case, the interior parts removed. Fig. 4 is a perspective view of the locking-slide detached. Fig. 5 is a perspective view of the gravitating lever detached, and Fig. 6 is a perspective view of the gravitating weight detached.

My invention relates to improvements in a combined latch and lock, and has for its object to lock the gravitating lever by a slide operated by a key and to prevent unlocking without lifting the gravitating weight by the key.

My invention consists of a gravitating lever and a gravitating weight to project the bolt, and a slide to engage said lever and weight operated by a key, whereby the gravitating weight will act as a tumbler to make the locking of the bolt more intricate and the lock less liable to be picked; also, in providing the gravitating weight and lever with cushions to lessen pounding against the lock-case.

1 is the lock-case, provided with ridges 2 3 near the key-hole, at right angles thereto, and cast integrally with the lock-case.

4 is a hollow post cast integrally with the case to receive a screw to secure the cover to the case.

5 is a post cast integrally with the case, on which post the gravitating lever 6 and gravitating weight 7 are hung.

8 is the latch-bolt, bifurcated at the inner

end to receive a tappet, 9, having a socket, 10, to receive the knob-spindle, so that by turning the knob the bolt will be retracted in the ordinary manner appertaining to knob-latches.

11 is an elbow-shaped slide having grooves 12 13 on the under side to fit the ridges 2 3 of the lock-case, and cut away circularly in proximity to the key-hole, so that by means of a key entered at the key-hole the slide will be reciprocated to cause lockage and unlockage of bolt 8 by engagement with a recess, 15, in lever 6, the ridge 3 then offering resistance to the rising of the lever, and thereby locking the bolt. The slide 11 is provided with a post, 16, at the angle and engages with an H-shaped slot, 17, in the gravitating weight 7, and the weight is shaped circularly at 18 to have contact with the bit of the key when reciprocating the slide 11, so that the slide cannot be reciprocated until the key has lifted weight 7, the post 16 then passing from one portion of the slot 17 through the intermediate portion. Thus the weight performs the office of a tumbler, while at the same time it assists the lever in projecting the bolt.

If desired, the weight may be made up of several overlying parts, each part graduated at 18 to increase the intricacy of picking the lock or use of a false key.

The lever 6 is preferably formed with a ridge, 19, at the bottom and a ridge, 20, at top to form bearings for the gravitating weight, whereby the weight will exert its influence on the lever to project the bolt. The lever is provided with a groove or cavity at bottom, in which is inserted a cushion, 21, of flexible material, to relieve it of jar against the lock-case and to prevent noise, and the weight is in like manner provided with a like cushion, 22, to relieve it of jar against the post 4 and prevent noise. These cushions may be of india-rubber let into notches in the edge of the parts to be protected, or the cushions may be applied to such parts of the lock against which the lever and weight would come in contact.

I claim as my invention—

1. The lock-case 1, having ridges 2 3, in combination with slide 11, provided with

grooves 12 13, and gravitating lever 6, having recess 15 for locking bolt 8, as set forth.

2. The combination, with the lock-case having bolt 8 and tappet 9, and provided with 5 ridges 2 3, of the slide 11, provided with post 16, gravitating lever 6, locked by said slide, and gravitating weight 7, having slot 17,

whereby the locking of the bolt 8 is effected by lifting the weight and reciprocating the slide independently of the lever, as set forth. 15
MOSES JOBBORN.

Witnesses:

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