(No Model.)

L. S. SHELLY.

LATCH.

No. 386,271. Patented July 17, 1888.

Fig. 1.

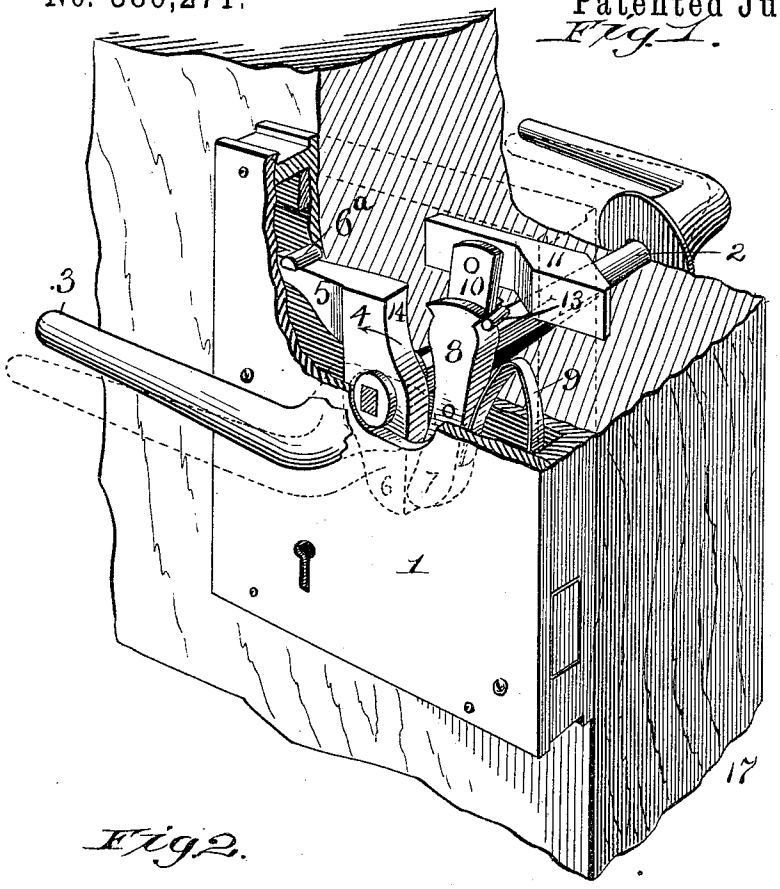


Fig. 3.

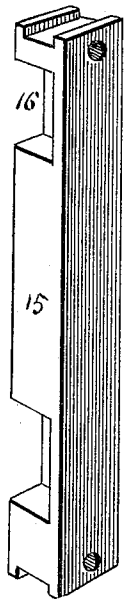
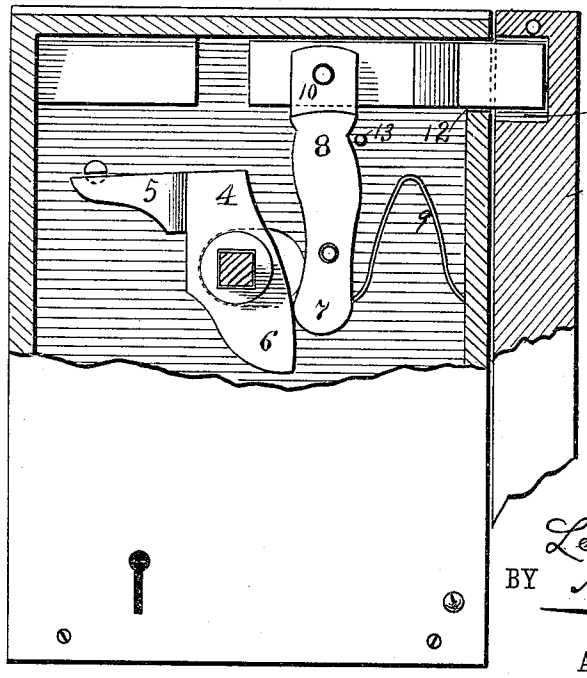


Fig. 2.



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LATIMER S. SHELLY, OF STEELTON, PENNSYLVANIA.

LATCH.

SPECIFICATION forming part of Letters Patent No. 385,271, dated July 17, 1888.

Application filed February 21, 1888. Serial No. 264,708. (No model.)

To all whom it may concern:

Be it known that I, LATIMER S. SHELLY, of Steelton, in the county of Dauphin and State of Pennsylvania, have invented a new and Improved Latch, of which the following is a full, clear, and exact description.

This invention relates to an improvement in latches, and has for its object to provide a latch so constructed and arranged that the latch-bolt may be easily operated by handles, the invention being set forth in the following description, and pointed out in the claims.

Reference is to be had to the accompanying drawings, forming a part of this specification, in which similar figures of reference indicate corresponding parts in all the views.

Figure 1 is a perspective view of the latch attached to a door, parts being broken away. Fig. 2 is a side view of the latch and the keeper on the door jamb for receiving the latch-bolt, with parts broken away; and Fig. 3 is a perspective of the keeper containing the recess for receiving the latch.

In the construction of this latch the operating parts are mounted in a suitable casing, 1, through which projects the spindle 2, provided at its ends with handles 3, extending parallel with the door. On the spindle 2, within the casing, there is mounted a dog, 4, having an angular projection, 5, at one end, which extends beneath a stop-pin, 6^a, projecting from the side of the latch-casing. The lower end 6 of the dog 4 abuts against the lower end 7 of a lever, 8, pivoted to one side of the latch-casing. A bow-spring, 9, secured at one end to the latch-casing, has its other free end bearing against the lower end 7 of the lever 8. The upper end of the lever 8 is formed with a projection, 10, which is pivoted to the sliding latch-bolt 11, projecting through the opening 12 in the latch-casing. The upper end of the lever 8 is limited in its movement in one direction by means of a stop-pin, 13, projecting from the side of the casing. The upper portion of the dog 4 is curved, as at 14, to afford room for the movement of the upper end of the lever 8, and the lower end of the lever 8 is curved in one direction and has a sliding movement on the lower end of the dog 4.

The normal position of the several parts hereinbefore described is shown in Fig. 1. On pushing down on the handles 3 the lower end of the dog 4 acts upon the lower end of the lever 8, and thereby throws back its upper end, carrying with it the latch bolt 11. The action of the lever 8 is such as to compress the spring 9, so that upon releasing the handle 3 it will react and throw back the lower end 7 of the lever 8, pushing back the lower end of the dog 4, and at the same time carrying the latch-bolt 11 forward. The return movements of the dog 4 and lever 8 are limited by means of the stop-pins 6^a and 13, projecting from the lock-casing.

A keeper, 15, adapted to be secured to the door-jamb, has a recess, 16, with which the latch-bolt 11 engages when the door 17 is closed. The action of pushing down the handle 3 to unlatch the door is such as to cause the door at the same time to be pulled open as soon as the latch-bolt 11 is disengaged from the keeper.

Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

1. A door-latch constructed with a spindle having handles, a dog mounted on the spindle and having an angular projection at one end, a stop projecting from the side of the casing adapted to limit the movement of the dog, a lever pivoted to the side of the casing having a reacting-spring bearing against its lower end, which in turn bears against the lower end of the dog, a stop-pin secured to the casing, which limits the return movement of the lever, and a sliding latch-bolt pivotally connected to the upper end of the latter, substantially as described.

2. A door-latch consisting of the following parts: a spindle, 2, having handles 3 and dog 4, with angular projection 5 integral therewith, stop-pin 6^a secured to the side of the casing 1, a lever, 8, having its lower end bearing against the lower end of the dog 4 and its upper end pivoted to the sliding latch-bolt 11, a stop pin, 13, secured to the casing 1, and a reacting-spring, 9, bearing against the lower end of the lever 8, substantially as described.

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Witnesses:
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