

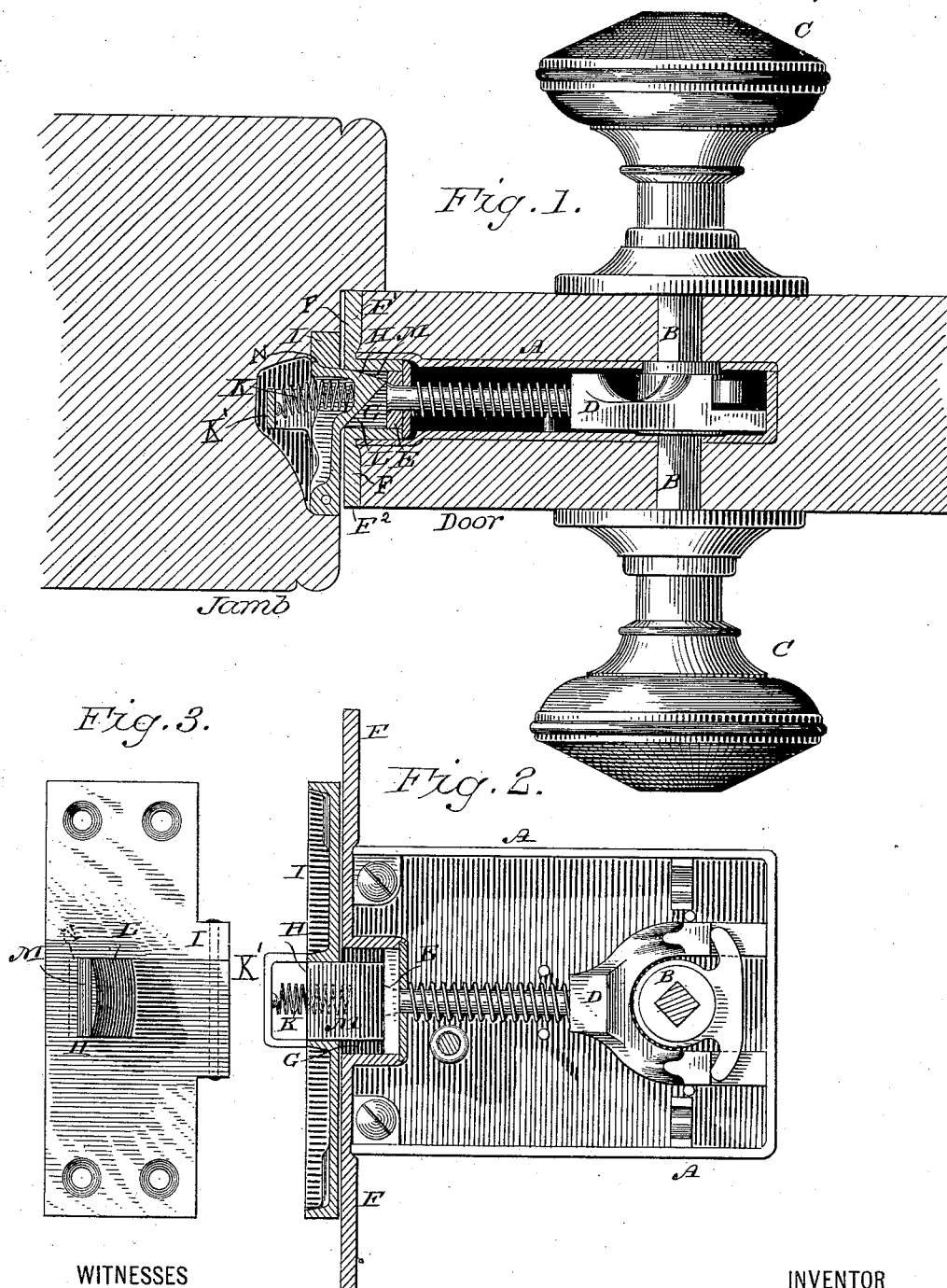
(Model.)

W. H. TAYLOR.

LATCH.

No. 343,348.

Patented June 8, 1886.



WITNESSES

Ed. A. Newman.
Al. C. Newman.

INVENTOR

Warren H. Taylor,
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UNITED STATES PATENT OFFICE.

WARREN H. TAYLOR, OF STAMFORD, CONNECTICUT, ASSIGNOR TO THE
YALE & TOWNE MANUFACTURING COMPANY, OF SAME PLACE.

LATCH.

SPECIFICATION forming part of Letters Patent No. 343,348, dated June 8, 1886.

Application filed February 3, 1886. Serial No. 190,668. (Model.)

To all whom it may concern:

Be it known that I, WARREN H. TAYLOR, of Stamford, in the county of Fairfield and State of Connecticut, have invented a certain new and useful Latch, of which the following is a specification, reference being had to the accompanying drawings, which illustrate one form of embodiment of my invention.

My invention consists in certain improvements in mortise locks or latches, whereby they are rendered more satisfactory in their operation.

In the accompanying drawings, Figure 1 is a horizontal section of my device complete, as applied to an ordinary door. Fig. 2 is a section showing only the latch appliances taken at right angles to that shown in Fig. 1. Fig. 3 is a face view of the latch and latch plate or holder.

Referring to the letters upon the drawings, A indicates an ordinary door-latch or lock-case on a door, operated by a partially-rotating spindle, B, and knobs C, and any usual or suitable mechanism, D, connecting the spindle and latch push or plunger E, which corresponds in position, movement, and connections generally with the ordinary sliding latch or latch-bar in common locks for doors, &c. This latch push or plunger E, however, in my device, as illustrated, has a plane surface on its outer end at right angles to its sides instead of an inclined surface, as in ordinary latches or latch-bars, and it is arranged and connected so that the limit of its outward throw brings its outer end only flush with the edge of a door or the like, or with the end plate, F, of the lock-case, which is countersunk in the door. Normally the plunger rests within the lock-case, so as to leave a keeper-cavity, G, in front of it. The end plate, F, is shown as provided with lips or wings F' F² on both sides of the lock-casing, extending to the edge of both sides of the door. The wing F² may be omitted, or rather it may be shortened; but the wing F' should extend to the edge of the door, so as to form a strike for the latch. The wing need only be of a depth sufficient to accommodate the latch.

H indicates the latch pivoted to any suitable plate or holder, I, countersunk in and secured to a door-jamb. This latch is provided with any suitable light spring, K, tending to press it gently outward, so that it will project in the path of the end or face plate, F, as illustrated, when shutting a door or drawer, which end plate is really the strike, or corresponds in function with the ordinary strike in pushing in the latch when shutting a door or drawer. The spring K is preferably a delicate helical spring mounted in a yoke or frame, K', located directly behind the inclined end of the latch. This construction offers the minimum resistance to the necessary movement in shutting the door.

The latch is inclined on its face L, as usual, so that when it is struck in the act of shutting a door, &c., it will be pushed inward out of the way, and then its spring will throw it out again into the cavity G and latch the door.

I prefer to slightly curve or incline the surface M of the latch end, as shown, for the better fitting or workmanship.

I provide a stop, N, on the latch, to strike the plate or holder I, as shown, and limit its outward oscillation.

I do not claim that a pivoted oscillating spring-latch is broadly new; nor do I claim broadly, a latch pivoted to the jamb of a door in combination with a pusher mounted in the door; but

What I do claim to be new, and desire to secure by Letters Patent of the United States is—

The combination of the plate I, the latch E pivoted thereto, the yoke K', mounted on the plate I, the spring K, attached to the latch and to the yoke just behind the head of the latch with the latch-operating mechanism, substantially as set forth.

In testimony whereof I have hereunto subscribed my name.

WARREN H. TAYLOR.

Witnesses:

SCHUYLER MERRITT,
GEO. E. WHITE.