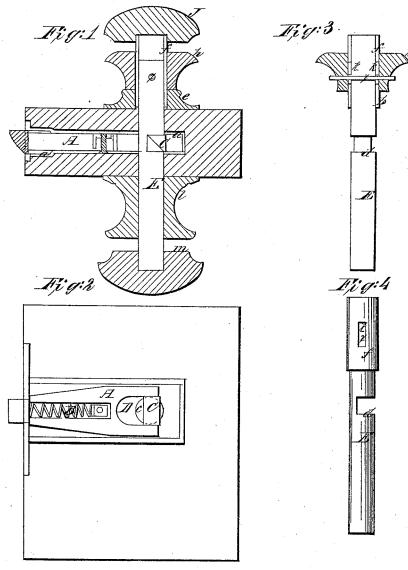
## A.M. Unton,

Door Latch.

JY 953,364.

Patented Mar. 20, 1866.



Mitnesses: Of Mitney Goryl Stranon

Inventor:

Albert M. Mifton

## United States Patent Office.

ALBERT W. UPTON, OF LOWELL, MASSACHUSETTS.

## IMPROVEMENT IN KNOB-LATCHES.

Specification forming part of Letters Patent No. 53,364, dated March 20, 1866.

To all whom it may concern:

Be it known that I, ALBERT W. UPTON, of Lowell, in the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Mortise-Latches for Doors, of which the following is a full, clear, and exact description, reference being had to the accompanying drawings, making part of this specification, in which-

Figure 1 is a transverse section of my invention as applied to the edge of a door. Fig. 2 is a side elevation of the interior portion of my improvement after one side, a, of the case and the knob-arbor have been removed. Fig. 3 is a longitudinal vertical section of a detached knob-arbor and sleeve; and Fig. 4 is a

top view of the same.

In my said invention the sliding latch A is forced outward by a spring, B, as usual; but to facilitate the process of opening the door I make an inclined heel, C, at the back end of the latch A and an opening, D, just forward of said heel, through which and the holes c, in the sides a of the case a knob-arbor, E, is inserted. A shoulder, d, on the knob-arbor E acts against the inclined heel C, so that by moving the knob-arbor longitudinally in the door and transversely therewith the shoulder d, bearing against the inclined heel, forces the latch back, and the door may be opened.

A washer, e, is fastened to one side of the door, and one end of a sleeve, f, is secured within said washer. The outer portion, g, of

one knob is attached to the sleeve f, and the middle portion, h, of said knob slides on the sleeve f, a pin, x, passes through the portion h of the knob, the knob-arbor E, and sleeve f, and slides in longitudinal slots k, made through the bottom and top sides of the sleeve.

The portion l of the opposite knob is secured to the door and the outer portion, m, to the knob-arbor E, which slides in the portion lwhen the latch is moved.

Pushing against the knob m or pulling the portion h of the opposite knob forces the shoulder d against the inclined heel C and moves the latch back to open the door.

I am aware that a door-latch has been patented which consists of two bolts, one in the door and the other in the stile, that in the door being operated by a lever and longitudinal sliding arbor.

I do not claim the above-described latch, neither in principle or operation; but

What I do claim as new, and desire to se-

cure by Letters Patent, is-

The combination of the inclined heel C on the latch A, the shoulder d on the arbor E, the slotted sleeve f, pin x, and the divided knobs, the whole arranged substantially as and for the purpose specified.

ALBERT W. UPTON.

In presence of-J. S. WHITNEY, GEORGE STRATTON.