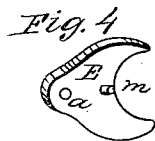
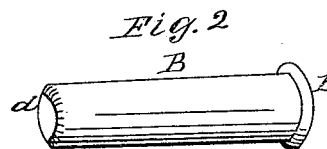
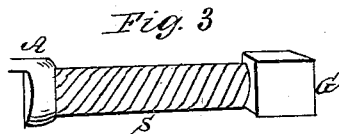
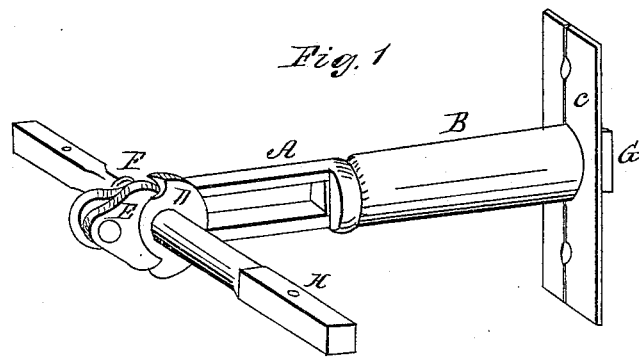


*E. Manley,*  
*Door Latch.*  
*N<sup>o</sup> 51,954. Patented Jan. 9, 1866.*



*Witnesses;*  
*C. C. Huggins*  
*L. W. Wilcox*

*Inventor;*  
*Emmons Manley*

# UNITED STATES PATENT OFFICE.

EMMONS MANLEY, OF MARION, NEW YORK.

## IMPROVED DOOR-LATCH.

Specification forming part of Letters Patent No. 51,954, dated January 9, 1866.

### *To all whom it may concern:*

Be it known that I, EMMONS MANLEY, of Marion, in the county of Wayne and State of New York, have invented a new and Improved Door-Latch; 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, and to the letters of reference marked thereon.

My invention consists in the use of a slotted latch, a crescent-shaped tumbler, a semicircular double cam, and shouldered cross-bar or handle-shaft combined, a combined sheath and face-plate, (the sheath containing a spiral spring,) all so arranged as to be easily applied to any door with no further mortise than a trimmed auger-hole of small size, the latch being at the same time very strong and durable.

Figure 1 represents the latch in working order; *a*, the slotted latch; *B*, the sheath for spring, which sheath is combined with the face-plate *C*, held firmly by being folded under the edges of the face-plate, folded backward and meeting at a line through the center of plate, edges of plate being cut to fit the sides of the sheath. *H D F* represent the double-cammed shouldered cross-bar or handle-shaft combined. *E* represents the crescent-shaped tumbler, pivoted and combined with a stop on opposite side, passing through the slot of latch *A*.

Fig. 2 represents the spring-sheath, detached. *b* represents the lip, which is folded under the edges of the face-plate when bent backward in position. *d* represents the opposite end of sheath, so contracted as to hold the spring in place while working.

Fig. 3 represents a section of latch, showing the spiral spring; *S*, the spring; *G*, the catch end of the latch *A*, as shown in Fig. 1.

Fig. 4 represents the pivoted tumbler combined with the stop; *a*, the pivot; *m*, the stop.

The action of this latch is as follows: The cross-bar or handle-shaft being turned in either direction throws one of the projections of the double cam against one of the limbs of the crescent-shaped tumbler and draws the latch, which slides on the handle-shaft, passing through the slot in the latch. The tumbler *E* is prevented from turning too far by the stop *m*. The latch is again thrown into position by the spring *S*.

What I claim as my invention, and desire to secure by Letters Patent, is—

The slotted latch *A*, with the pivoted tumbler *E*, cam *D*, and stop *m*, constructed and arranged as set forth.

\* EMMONS MANLEY.

Witnesses:

C. C. HUGGINS,  
L. W. WILCOX.