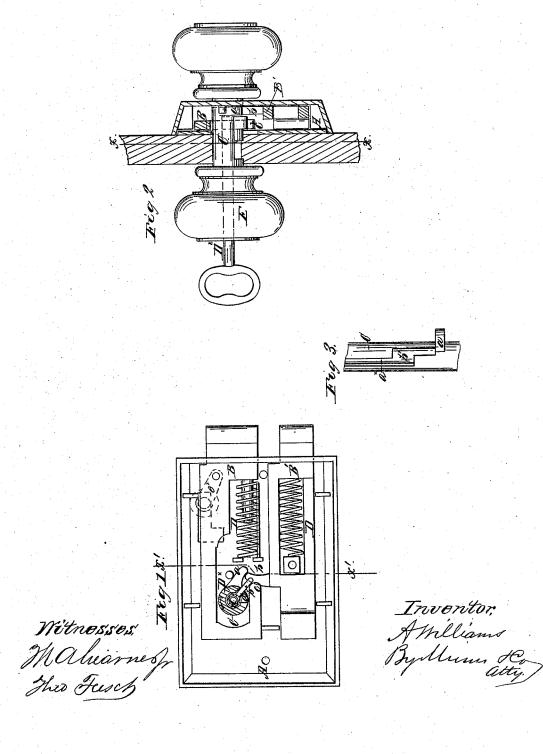
A. Williams,

Latch,

Nº48,123,

Patented June 6, 1865.



AM. PHOTO-LITHO. CO. N.Y. (OSSORNE'S PROCESS.)

UNITED STATES PATENT OFFICE.

ALBERT WILLIAMS, OF NORWICH, CONNECTICUT.

KNOB-LATCH.

Specification forming part of Letters Patent No. 48,123, dated June 6, 1865.

To all whom it may concern:

Be it known that I, ALBERT WILLIAMS, of Norwich, in the county of New London and State of Connecticut, have invented a new and Improved Lock; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to make and use the same, reference being had to the accompanying drawings, forming a part of this specification, in which-

Figure 1 is an external view of my invention, the knob-arbor being in section, as indicated by the line x x, Fig. 2; Fig. 2, a transverse section of the same, taken in the line x' x', Fig. 1; Fig. 3, a detached view of the knob-

arbor pertaining to the same.

Similar letters of reference indicate like

This invention consists in combining in a novel way a dead-latch and an ordinary slidelatch in such a manner that the slide-latch may be operated by the turning of the knobarbor, as usual, and the dead-latch operated by a key, the hole for which passes through one of the knobs and the knob-arbor, as hereinafter fully shown and described, whereby a very simple, economical, and efficient lock is obtained, and one that cannot be readily picked

or opened illegitimately.

A represents the case of the lock, which may be of rectangular or other form, and provided with the latches B B', one, B, being the dead-latch, which is operated by a key, and the other, B', a slide-latch, which is operated by the knob-arbor C. These latches are each provided with a spiral spring, D, which have a tendency to keep the ends of the latches forced out from the case, as will be understood by referring to Fig. 1. The knob-arbor C is provided with a bit, a, which acts against a projection, b, on the slide-latch, pressing against it and forcing it back when the arbor is turned in the direction indicated by arrow This turning of the arbor C, however, does |

not affect the dead-latch B. The dead-latch is operated or thrown back by means of a key, Dx, the hole of which passes through a knob, E, on the arbor C, and the arbor is slotted to admit of the key passing through it into the lock, the slot a^{\times} in said arbor having a right-angular turn, b^{\times} , in it near its inner end, to cause the key to be turned in position in order that its bit b may be brought in a proper relative position with a projection, c, on the dead-latch. (See Figs. 1 and 3.) The arbor C, at its inner end, is provided with a pin, d, which passes into the tubular end of the key when the latter is inserted in the tube. The dead latch is provided with a hook or catch, e^{\times} . (Shown by dotted lines in Fig. 1.) This hook or eatch is to hold in the dead-latch when the slide-latch is only required to be used, and is accessible at the inner side of the door. When the dead-latch is not held back by this hook or catch, it serves as a lock-bolt, and the key D^{\times} is required in order to open the doors from the outer side, the knob E being at the outer side of the door.

The lock may be made as a rim or mortise lock, and used for any purpose where a lock is required. It cannot be readily picked on account of the difficulty of inserting a pick or wire through the knob E and arbor C; a wire would be so thin as not to have sufficient strength to force back the dead-latch.

I claim as new and desire to secure by Let-

ters Patent-

The arrangement of the slotted arbor with the dead and slide latches and knob, substantially as shown, so that the dead-latch may be operated or thrown back by the insertion of a key through the knob and arbor, while the latter is used for operating the slide-latch, as described.

ALBERT WILLIAMS.

Witnesses: M. M. LIVINGSTON, C. L. TOPLIFF.