M. P. Warner & E. W. Payne. Lock.

No. 119,673. Patented Oct. 3, 1871.

Fig. 1

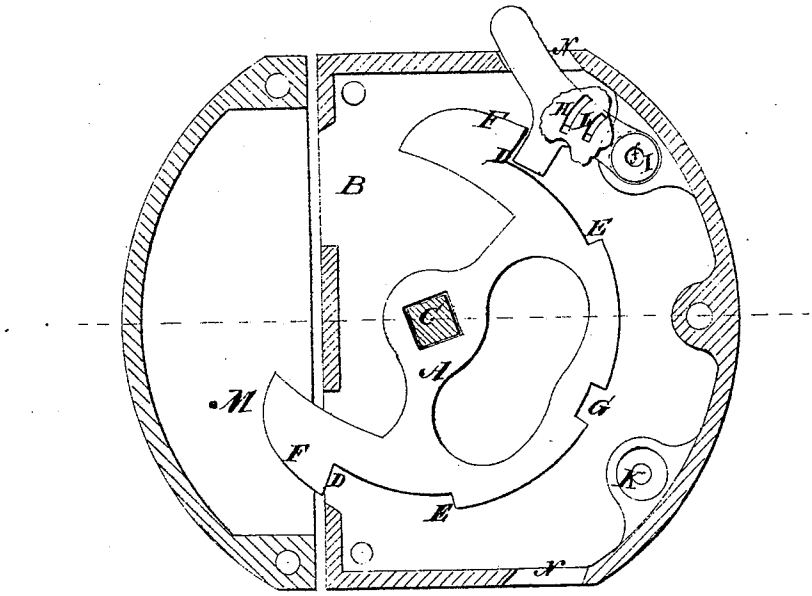


Fig. 2.

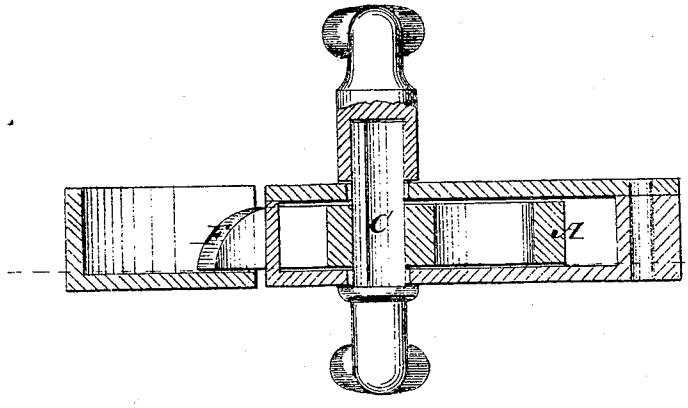
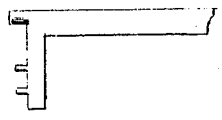


Fig. 3.



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UNITED STATES PATENT OFFICE.

MARTIN P. WARNER AND EDWIN W. PAYNE, OF MORRISON, ILLINOIS.

IMPROVEMENT IN COMBINED LATCHES AND LOCKS.

Specification forming part of Letters Patent No. 119,673, dated October 3, 1871.

To all whom it may concern:

Be it known that we, MARTIN P. WARNER and EDWIN W. PAYNE, of Morrison, in the county of Whitesides and State of Illinois, have invented a new and Improved Door-Lock; and we 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 drawing forming part of this specification.

This invention relates to improvements in door-locks; and it consists in a bolt in the form of a circular ring, with about one-third cut out, mounted on a spindle in front of openings in the case, so that the gravity of the bolt will throw the end of the lower part out into the keeper, the bolt being locked by a pawl at the upper side of it dropping into a notch in its periphery, said pawl being lifted from the outside by a key and from the inside by a knob or by a handle attached to it and projecting through the lock-case, all as hereinafter described.

Figure 1 is a sectional elevation of the lock, and Fig. 2 is a transverse section on the line *x x* of Fig. 1.

Similar letters of reference indicate corresponding parts.

A represents the bolt, which is made in the form of a ring, of metal or other suitable substance, with about one-third cut out at B, and the ends made thicker radially than the other parts. It is pivoted on a square knob-spindle, C, and has a long notch, D E, in the periphery, beginning at the thickened ends F and extending about as far around from said ends as the bolt is required to turn when used as a latch-bolt. G is a notch in the periphery, about midway between the ends. H is a pawl for locking the bolt. It is pivoted in the case by means of hollow trunnions I, which fit into a socket, K, in the front and back of the case, near which, in the back of the case, is an opening, L, through which the wards of the key pass to lift the pawl, said key being preferably arranged to enter the hole *f* in the hollow trunnions of the pivot of the pawl.

For ordinary use as a latch-bolt the pawl will not be raised out of the notch D E, it being long enough to let the bolt escape from the keeper M, when turned by the handle, so that the end E comes against the pawl, the gravity of the bolt keeping it in the position indicated in the drawing. When it is desired to lock the door more securely the pawl is raised and the bolt turned till it drops into notch G. The lock is made reversible by making a notch, D E, on each side of the bolt, also sockets K for the pawl, and a hole, N, for the handle of the pawl.

It may be used for a mortise-lock as well as on the side of the door.

We are aware it is not new to provide a bolt with notches so that it may be operated by a knob-spindle and likewise by a key, and do not claim such construction.

Having thus described our invention, we claim as new and desire to secure by Letters Patent—

The bolt A provided with a long notch, D E, and the notch G, and pivoted on a spindle so as to be thrown out of the case by its own gravity, in combination with the pawl H constructed to be operated by hand and by a key, as specified.

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