

JOHN HAMILL.

Improvement in Reversible-Latches.

No. 127,870.

Patented June 11, 1872.

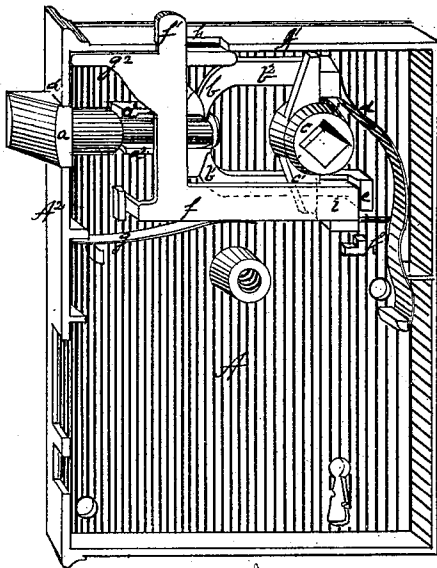


fig. 1

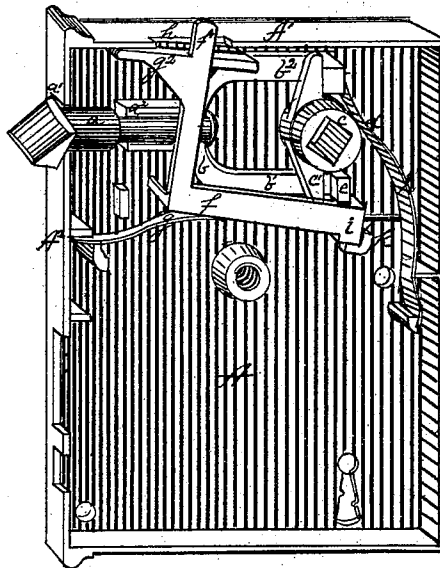


fig. 2

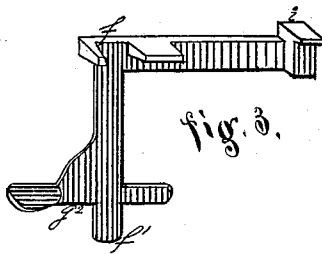


fig. 3.

Witnesses
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UNITED STATES PATENT OFFICE.

JOHN HAMILL, OF ALLEGHENY, PENNSYLVANIA.

IMPROVEMENT IN REVERSIBLE LATCHES.

Specification forming part of Letters Patent No. 127,870, dated June 11, 1872.

SPECIFICATION.

To all whom it may concern:

Be it known that I, JOHN HAMILL, of Allegheny City, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Reversible Locks; and I do hereby declare the following to be a full, clear, and exact description thereof, reference being had to the accompanying drawing forming part of this specification, in which—

Figure 1 is a perspective view of a door-lock embodying my improvement. Fig. 2 is a like view of the same, and illustrates the manner in which the latch is reversed; and Fig. 3 is a detached view of a portion thereof.

Like letters of reference indicate like parts in each.

My invention consists in the combination of a removable block with the hub-arm of a lock and a lug on the end of the yoke-arm, whereby the latch may be reversed without removing the cover-plate of the lock.

To enable others skilled in the art to make and use my invention, I will describe its construction and mode of operation.

The lock A with its latch *a*, yoke *b*, hub *c*, and spring *d* are of an ordinary construction, except that the lower arm *b*¹ of the yoke *b* is longer than the upper one, *b*². The space between the lower arm *c*¹ of the hub *c* and the lug *e* on the end of the long arm *b*¹ of the yoke is filled by a block, *i*, which is carried on the end of the angle-shaped piece *f*. The latch *a* is secured in the journal *a*², in which it may be turned with ease when the square head is drawn forward of the square opening *a*¹. The piece *f* is sustained by the spring *g*, which, when the piece is in position, holds the square edge *g*² against the top side *A*¹ of the lock. The upper end *f*¹ of the piece *f* projects upward through the slot *h*. The function of the piece *f* is to afford a means of operating the block *i* so as to throw it in and out of position without removing the cover of the lock. Just below the block *i* is an L-shaped catch or stop,

k, which is intended to receive and hold the block *i* when thrown down out of position. If the projection *f*¹ is pressed down it forces the block *i* down past the lug *e* onto the stop *k*. Then the yoke *b* may be drawn forward, by means of the square head of the latch *a*, until the lug *e* on the end of the arm *b*¹ encounters the hub-arm *c*¹, which distance is sufficient to allow the latch-head to be drawn through the square opening *a*¹ in the front side *A*², as shown in Fig. 2, and be reversed in the usual manner.

If it is desired to restore the parts to their operative position, as shown in Fig. 1, the latch *a* is pressed back until the lug *e* on the arm *b*¹ is pushed past the block *i*, which is now resting on the stop *k*, as shown in Fig. 2. As soon as the lug *e* slips past the block *i* the spring *g*, pressing against the piece *f*, forces the block *i* up into position between the lug *e* and arm *c*¹ of the hub. The parts are then in position and may be operated.

Instead of the angle-shaped piece *f*, a lug projecting from the block *i* through a slot in the face of the lock may be used for throwing the block *i* in and out of position. In such case the spring *g* and slot *h* would be dispensed with. Thus it will be seen that the block *i*, when in position, affords a bearing for the arm *b*¹, but may be thrown out of position with ease and quickness, and thereby permit the latch to be drawn forward and reversed without removing the cover of the lock.

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

The block *i*, interposed between and in combination with the arm *c*¹ and the lug *e*, substantially as and for the purpose set forth.

In testimony whereof I, the said JOHN HAMILL, have hereunto set my hand.

JOHN HAMILL.

Witnesses:

A. S. NICHOLSON,
THOS. B. KERR.