

GEORGE BAYER.

Improvement in Locks.

No. 123,444.

Patented Feb. 6, 1872.

Fig 1.

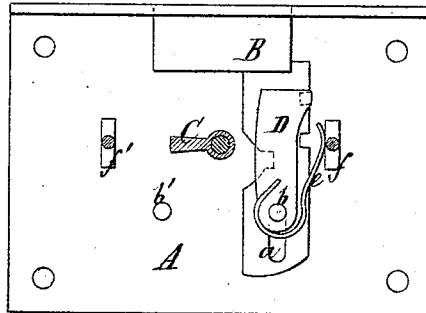
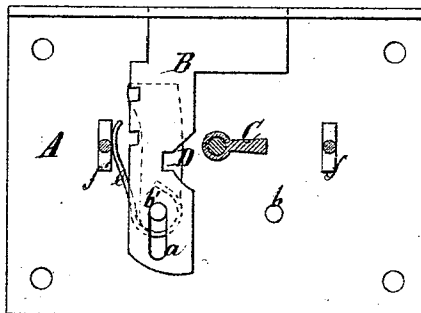


Fig 2.



Witnesses

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IMPROVEMENT IN LOCKS.

Specification forming part of Letters Patent No. 123,444, dated February 6, 1872.

To all whom it may concern:

Be it known that I, GEORGE BAYER, of the city, county, and State of New York, have invented a new and useful Improvement in Locks; and I do hereby declare the following to be a full, clear, and exact description thereof, which will enable those skilled in the art to make and use the same, reference being had to the accompanying drawing forming part of this specification, in which drawing—

Figure 1 represents a sectional side view of my lock when arranged for a door which opens to the right. Fig. 2 is a similar view of the same when arranged for a door which opens to the left.

Similar letters indicate corresponding parts.

This invention relates to a lock, the bolt and tumbler of which are so arranged in relation to two guide-pins and the key-hole that the same can be changed from one side of the key-hole to the other, and thereby the lock is converted from a right-handed to a left-handed lock, or vice versa, and the owner of the lock is enabled to apply the same to a door opening to the right or to a door opening to the left, as occasion may require.

In the drawing, the letter A designates a lock-plate, one edge of which is turned up at right angles and provided with a guide-slot for the head of the bolt B. The shank of this bolt is furnished with a slot, *a*, which, when said bolt is in the position shown in Fig. 1, catches over the guide-pin *b*, and when the bolt is in the position shown in Fig. 2 said guide-slot catches over the guide-pin *b'*. These guide-pins are secured in the lock-plate A, at equal distances from the key-hole, and on opposite sides thereof, so that the key C will act on the bolt as

well when said bolt is in the position shown in Fig. 1 as in the position shown in Fig. 2. D is the tumbler, which is provided with a hole to catch over one of the guide-pins *b* or *b'*, according to the position of the bolt, and the tumbler-spring *e* bears either against the stud *f* or against the stud *f'*, said studs being intended to support the inner plate of the lock, and being placed at equal distances from the key-hole. By this arrangement of the pins *b b'* and studs *f f'* in relation to the key-hole, and by the form and construction of the tumbler and bolt, I am enabled to change the position of these last-named parts from that shown in Fig. 1 to that shown in Fig. 2; and by these means the lock can be readily converted from right-handed to left-handed, or vice versa, according to the position of the door to which the lock is to be applied. In the drawing I have represented a key with a hollow stem to catch over a guide-pin secured in the lock-plate, but it is obvious that my invention is applicable with equal advantage to locks with key-holes in the front and in the back plates.

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

A reversible lock, provided with two guide-pins, *b b'*, for the bolt B and tumbler D, and with two studs, *f f'*, for the bearing of the tumbler-spring *e*, said guide-pins and studs being at equal distances from the key-hole or guide-pins of the key, substantially as shown and described.

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Witnesses:

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