

J. E. Parker,
Reversible Latch.

N^o 77,909.

Patented May 12, 1868.

Fig. 1

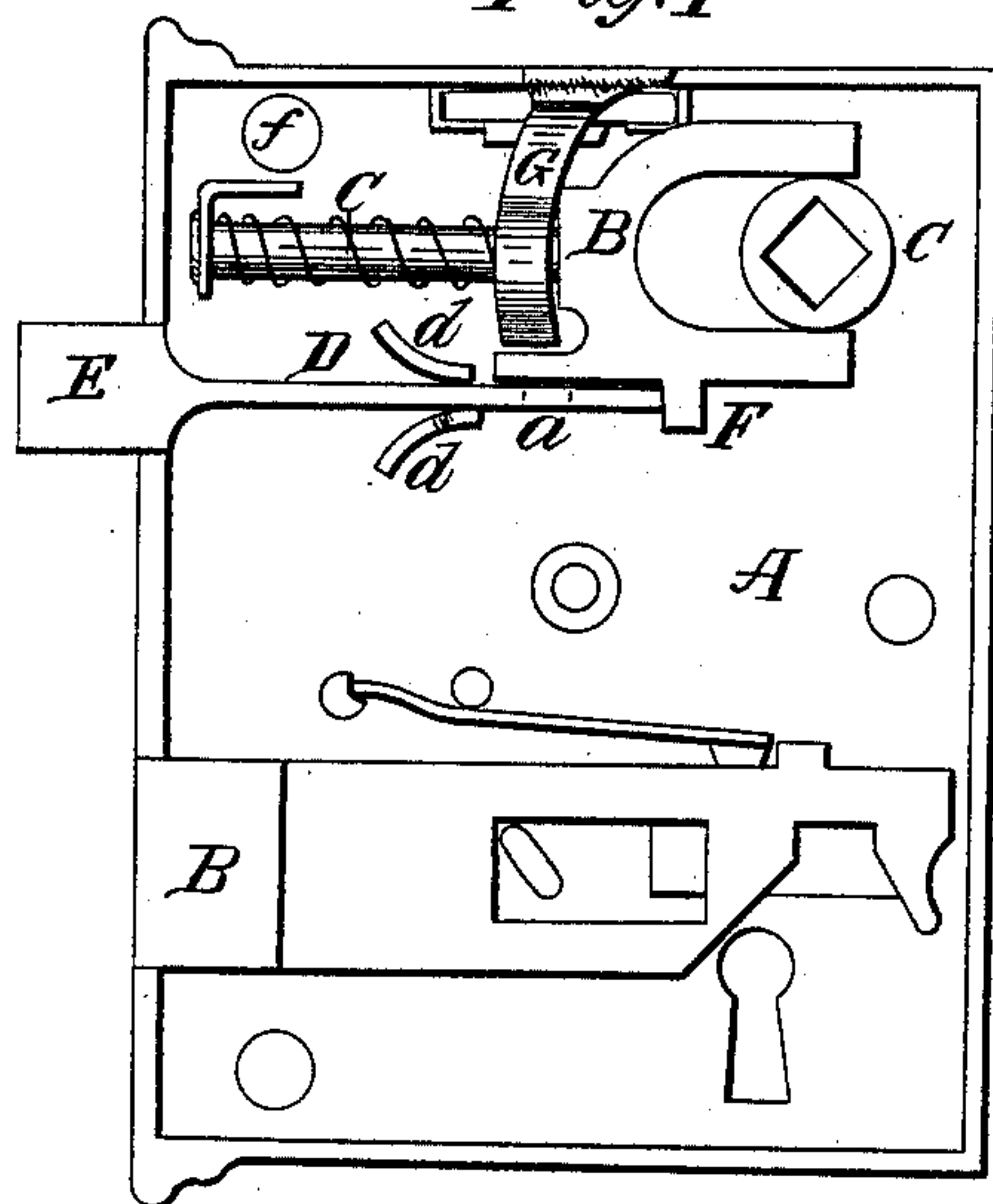
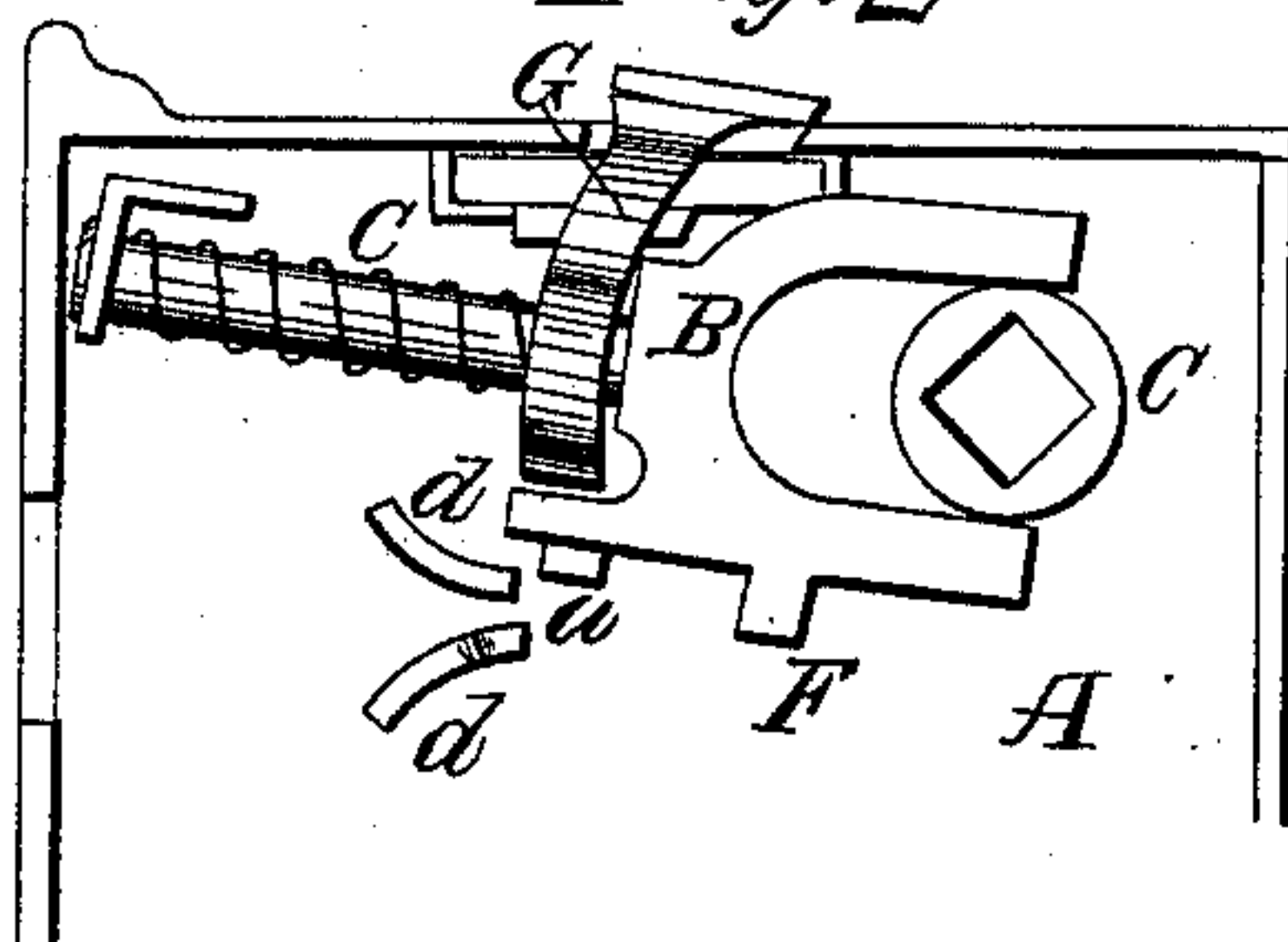


Fig. 2



Witnesses:

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By his Attorney

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United States Patent Office.

JOHN E. PARKER, OF MERIDEN, CONNECTICUT.

Letters Patent No. 77,909, dated May 12, 1868.

IMPROVEMENT IN REVERSIBLE KNOB-LATCHES.

The Schedule referred to in these Letters Patent and making part of the same.

TO ALL WHOM IT MAY CONCERN:

Be it known that I, JOHN E. PARKER, of Meriden, in the county of New Haven, and State of Connecticut, have invented a new Improvement in Knob-Latches; and I do hereby declare the following, when taken in connection with the accompanying drawings, and the letters of reference marked thereon, to be a full, clear, and exact description of the same, and which said drawings constitute part of this specification, and represent, in—

Figure 1, a side view of the lock with one plate removed, and, in

Figure 2, a portion of the same section illustrating this invention.

This invention relates to an improvement in knob-latches, the object being to construct the operative mechanism of the latch-bolt so that the latch-bolt may be reversed for a right or left-hand door, and consists in forming a projection upon the yoke, which enters a hole in the latch-bolt, so as to attach the latch-bolt to the yoke, and combining therewith an arm which projects through the edge of the case, so that the yoke may be raised from the latch-bolt to permit its withdrawal, and the latch-case provided with guides to direct and hold the latch-bolt in place.

In order to the clear understanding of my invention, I will fully describe the same, as illustrated in the accompanying drawings.

A is the latch-case, B the lock-bolt, arranged therein in the usual manner. C is the follower, through which the knob-spindle passes; B, the yoke, constructed with a spindle, C, upon which the spring is placed, which forces the yoke forward to the position denoted in the drawings in the usual manner.

Upon the lower edge of the yoke I form a projection, *a*, and in the tail D, of the latch-bolt E, I form an opening corresponding to the projection *a*, and also a projection, F, upon the yoke, as a rest for the tail-end of the latch-bolt.

Formed upon or attached to the yoke in any convenient manner, is a projecting arm, G, which extends up through the upper edge of the case, and by which the yoke may be raised to the position denoted in fig. 2, and when so raised the latch-bolt may be inserted in either a right or left-hand position, and in being so inserted is guided to its proper position by the converging guides *d d* formed upon the case, and is arrested, when inserted to the proper distance, by the projection F, and when so inserted press upon the arm G and force the yoke back into the position denoted in fig. 1, the projection *a* entering the perforation in the tail of the latch-bolt. This secures the latch-bolt firmly to the yoke, and the latch operates in the usual manner.

If desired to reverse the latch-bolt, raise the yoke, as denoted in fig. 2, withdraw the latch from the guides *d d*, reverse, and return, as before described.

In box-locks, or such as are placed upon the surface of the door, and secured to the door by screws passing through the lock-case, it is necessary to prevent the accidental detachment of the latch-bolt. I therefore form one of the holes *f* in such proximity to the spindle C, or a part attached thereto, that when the yoke is in the proper position, as denoted in fig. 1, a screw, inserted through the hole *f*, will prevent the raising of the yoke. In mortise-locks this arrangement is not essential.

As represented in the drawings, the arm C forms a fixed seat for one end of the spring, while the other end bears against the head on the end of the spindle; therefore, it will be observed that the yoke and spindle, when moved by the door-knobs to operate the bolt, move independent of the arm G.

Having thus fully described my invention, what I claim as new and useful, and desire to secure by Letters Patent, is—

1. The yoke B, provided with a projection, *a*, and arranged so as to be raised from the latch-bolt, substantially as shown.
2. In combination with the above, I claim the fixed guides *d d* for guiding and holding the latch-bolt in position, substantially as described.
3. The arm G, constructed so as to form a seat for the spring on the spindle C, and also as a means for operating the yoke B, to permit the removal of the latch-bolt, substantially as herein set forth.

JOHN E. PARKER.

Witnesses:

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