

B. ERBE.

REVERSIBLE KNOB-LATCH.

No. 172,920.

Patented Feb. 1, 1876.

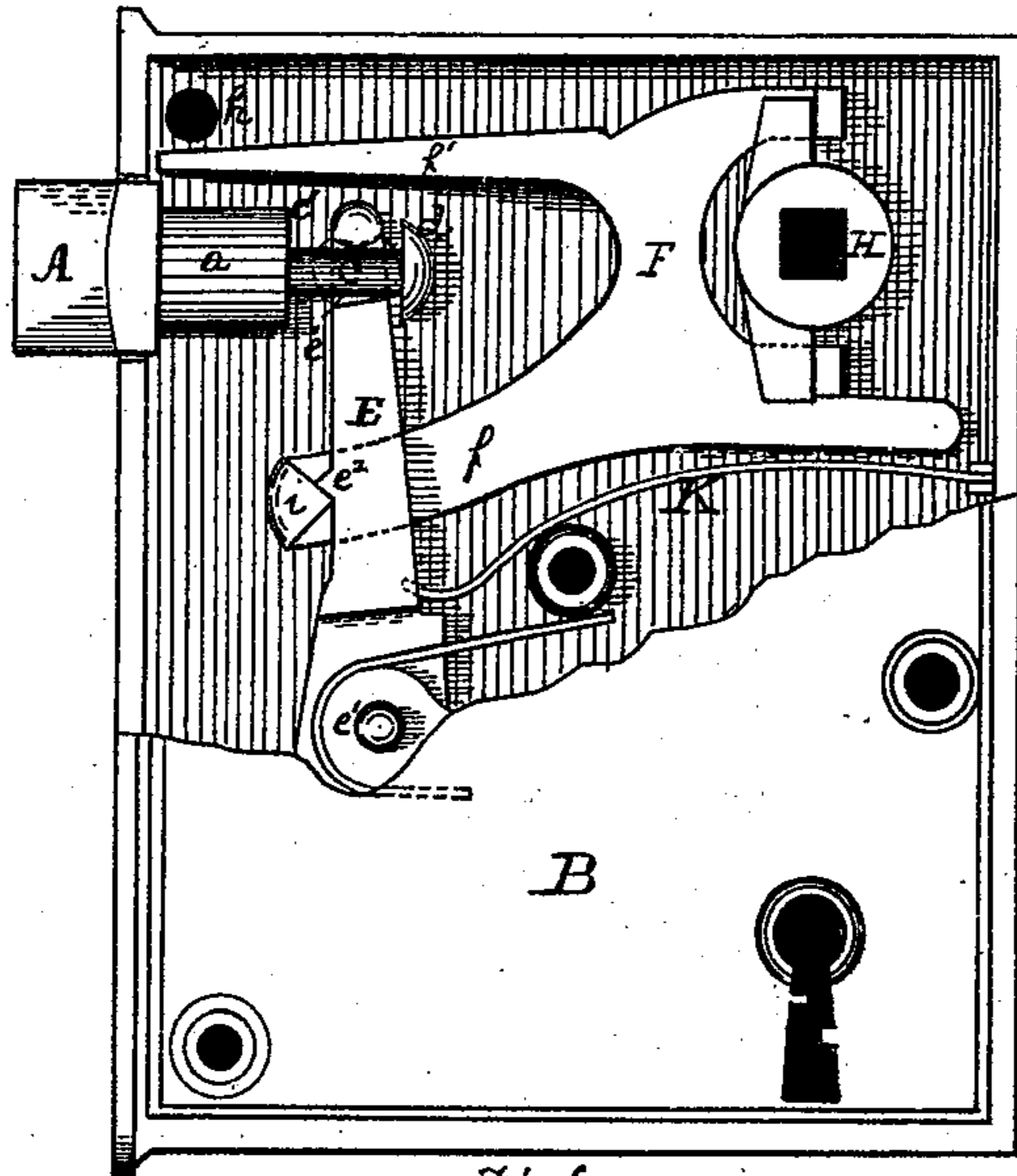


Fig. 1.

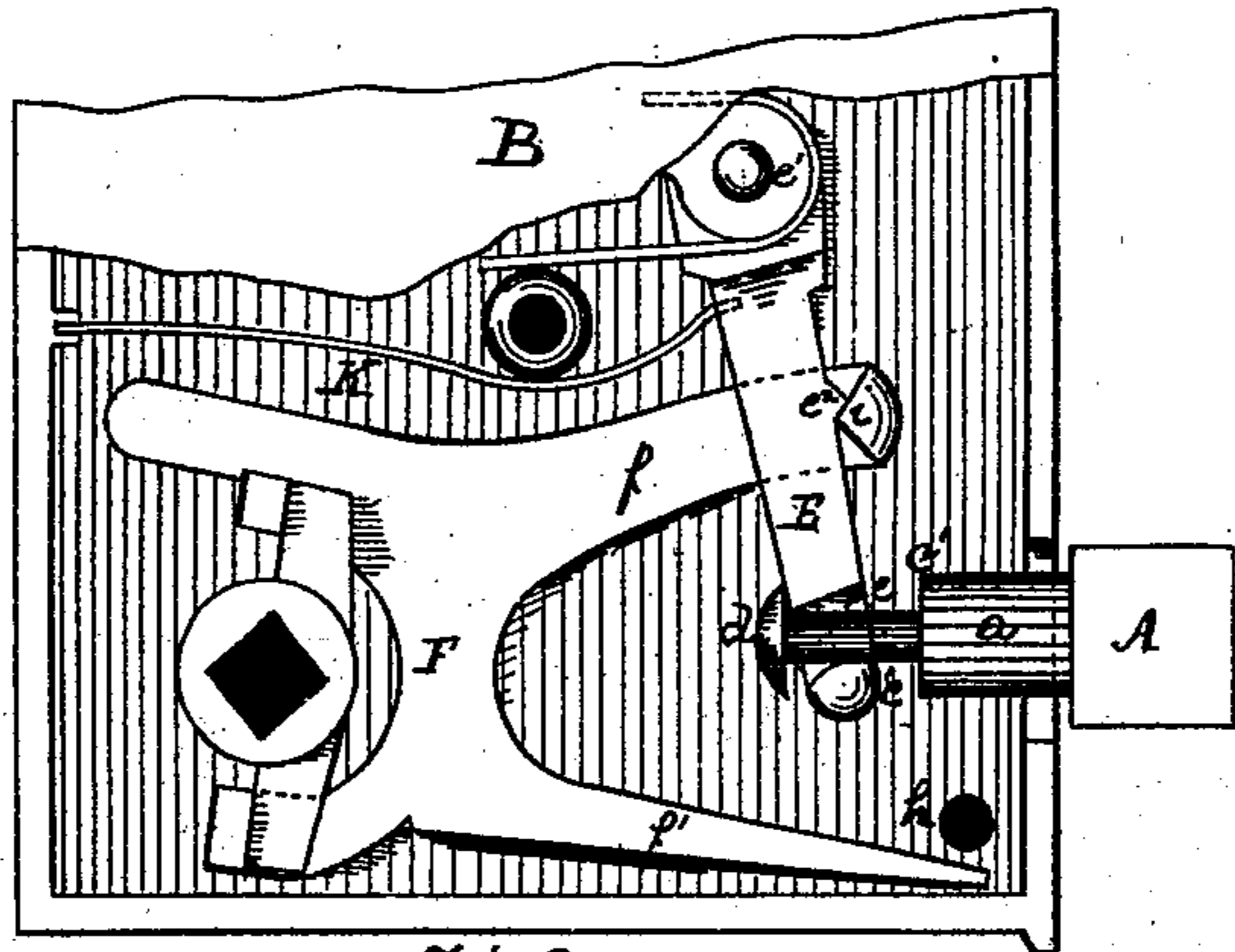


Fig. 2.

WITNESSES.

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# UNITED STATES PATENT OFFICE.

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## IMPROVEMENT IN REVERSIBLE KNOB-LATCHES.

Specification forming part of Letters Patent No. 172,920, dated February 1, 1876; application filed January 3, 1876.

*To all whom it may concern:*

Be it known that I, BARTHEL ERBE, of Pittsburg, in the county of Allegheny and State of Pennsylvania, have invented a new and useful Improvement in Reversible Knob-Latches; 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 side view of my improved latch, the covering-plate being partly broken away, showing the position of the several parts when in use; and Fig. 2 is a like view, showing the position of the several parts when the latch is ready for reversal.

Like letters of reference indicate like parts in each.

My invention relates to that class of latches known as reversible knob-latches, in which the bevel of the bolt can be set in either direction so as to make the latch answer for a right or left hand door; and it consists in attaching the latch-bolt to a pivoted arm or lever, upon which lever the yoke-arm catches, and operates the bolt, so that by changing the position of the yoke-arm upon the lever, sufficient play is given to the bolt to free the square portion from the front part of the case, thus allowing of its reversal.

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

In the drawing referred to, A is the latch-bolt, having the usual bevel on one side, and the square portion that fits in the front part of the case B. The bolt A is provided with the cylindrical stem *a*, terminating in the shank *c*, of less diameter than the stem, thereby forming a shoulder, *c'*, said shank being provided with the head *d*. Pivoted at *e*<sup>1</sup> is the arm or lever E, said lever engaging the shank of the bolt A by means of the recess *e*. Upon the side of the lever E is the lug or projection *e*<sup>2</sup>, which engages with the lug on the yoke-arm. F is the spindle-yoke, provided with the yoke-arms *f*<sup>1</sup>, the arm *f* engaging and operating the lever E by means of the lug *i*, or in any other suitable manner. H is

the hub, and K the spring, working against the lever E.

When the lock is in use the several parts will occupy the relative positions shown in Fig. 1. When the latch is to be operated the yoke F is drawn back by the hub H, and the yoke-arm *f*, operating upon the pivoted arm E, causes it to withdraw the latch-bolt. When the latch is to be reversed the latch-case is inverted, and the bolt is pressed into the case, when the lug *i* becomes disengaged from the lug *e*<sup>2</sup> and permits the yoke-arm *f* to fall down and change its position on the lever E, thus giving sufficient play to the bolt to free the square portion from the front of the case, as shown in Fig. 2, and allowing of its reversal. When the bolt has been reversed the lock is turned to its original position, the bolt again pressed into the case, and the yoke-arm falls to its former position on the pivoted lever, thus shortening the throw of the lever and retaining the square portion of the bolt within the case.

When the latch-case is attached to a door or other place, the screw passing through the screw-hole *h*, precludes the possibility of the yoke-arm *f* rising so as to permit the accidental reversal of the bolt, but the weight of the yoke is, under most circumstances, sufficient for the purpose specified without the screw or other adjuncts.

It is evident that the yoke-arm *f* may be retained in position on the pivoted arm E by other means than the lug or projection *e*<sup>2</sup>, and therefore I do not limit myself thereto.

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

The combination of the pivoted lever and yoke-arm, relatively arranged so that by changing the position of the yoke-arm upon the lever sufficient play is obtained to free the square portion of the bolt, and to allow of its reversal, substantially as described.

In testimony whereof I, the said BARTHEL ERBE, have hereunto set my hand.

BARTHEL ERBE.

Witnesses:

T. B. KERR,  
JAMES I. KAY.