

L. WESTON.
Reversible-Latches.

No. 153,209.

Patented July 21, 1874.

Figure 1.

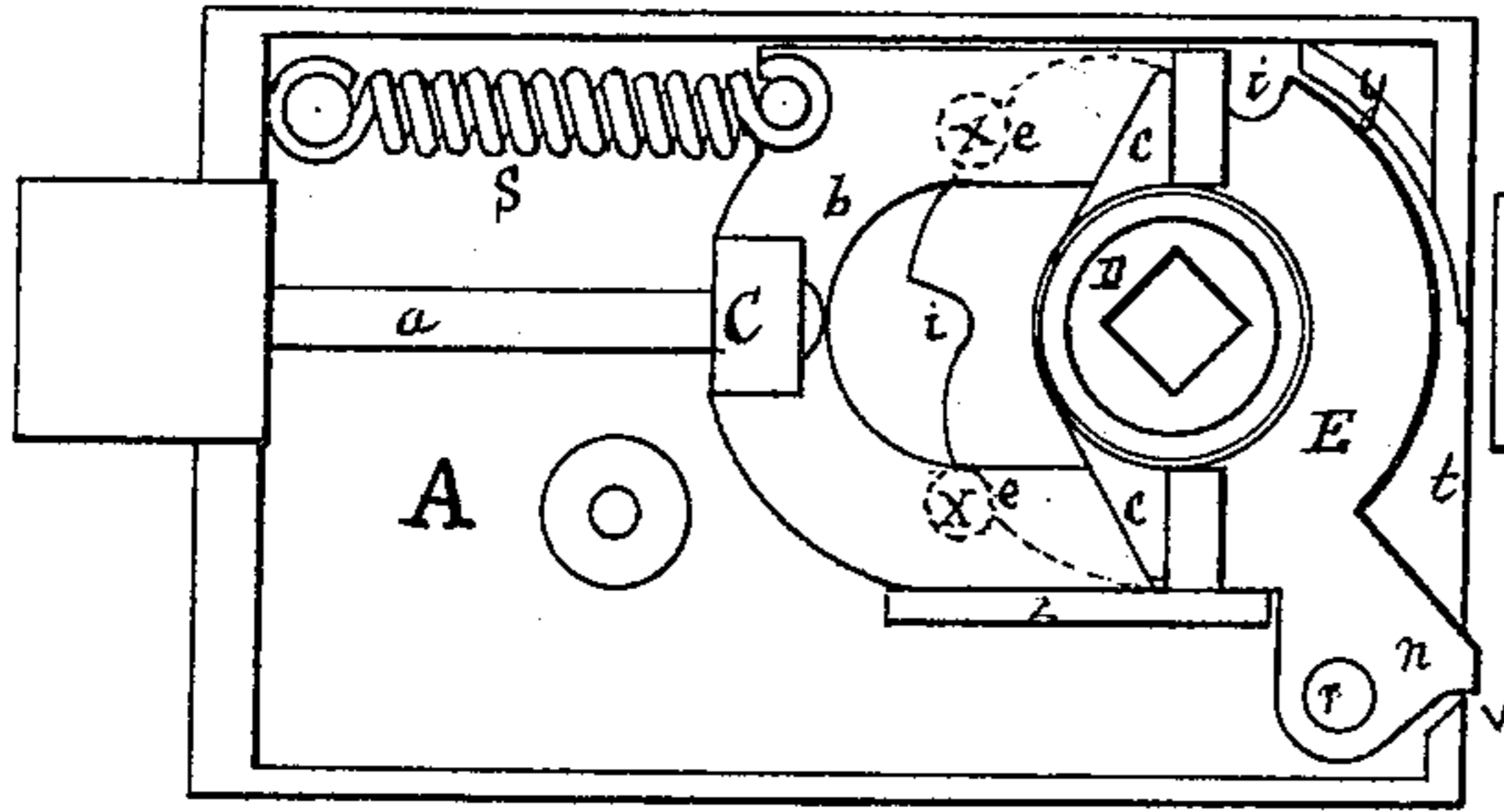


Figure 2.

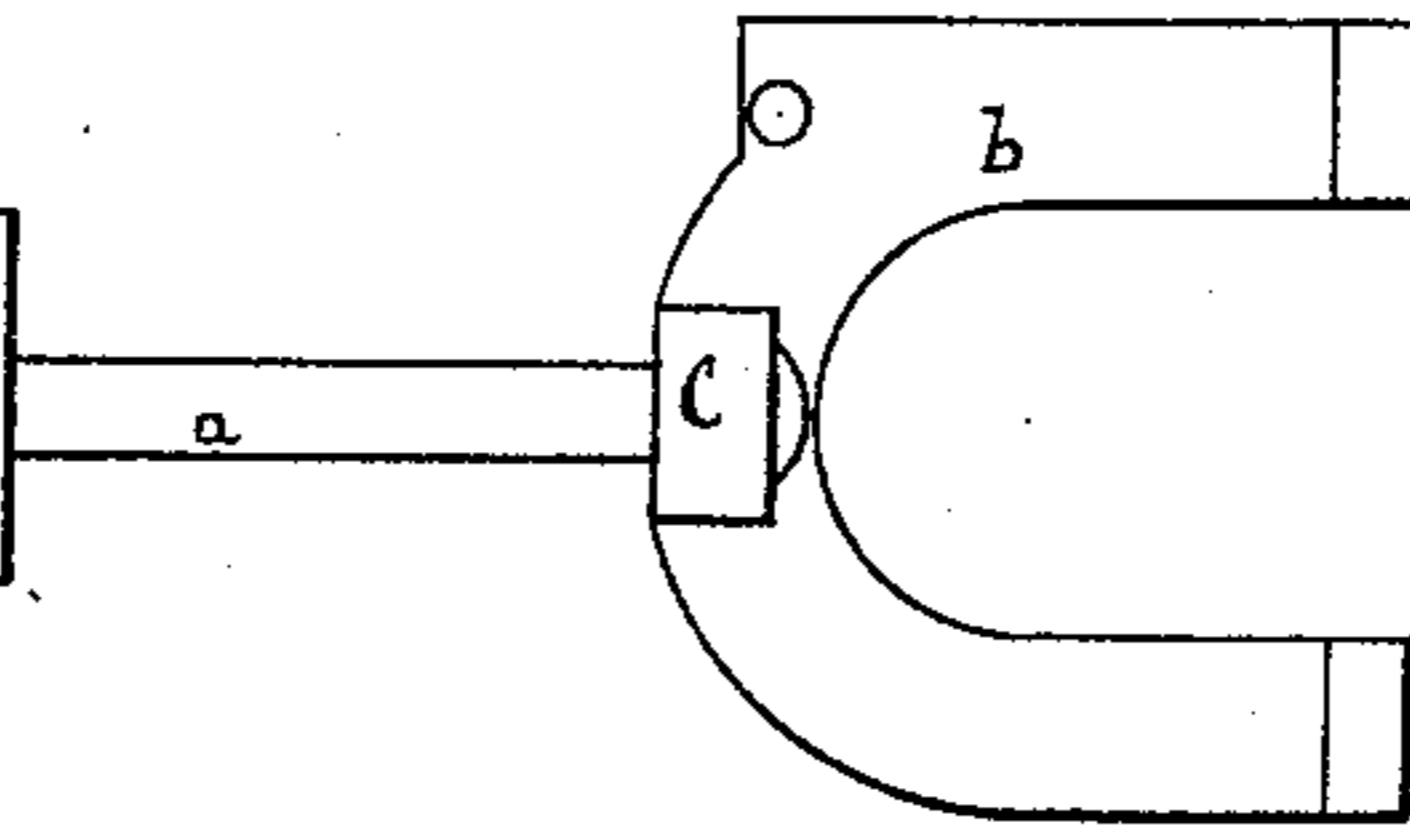


Figure 3.

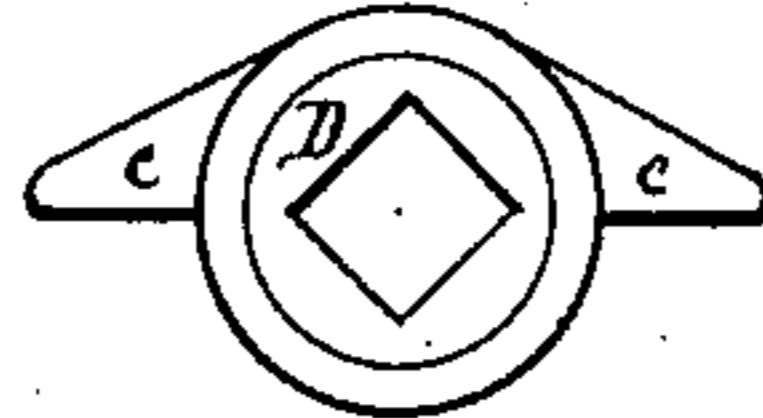


Figure 4.

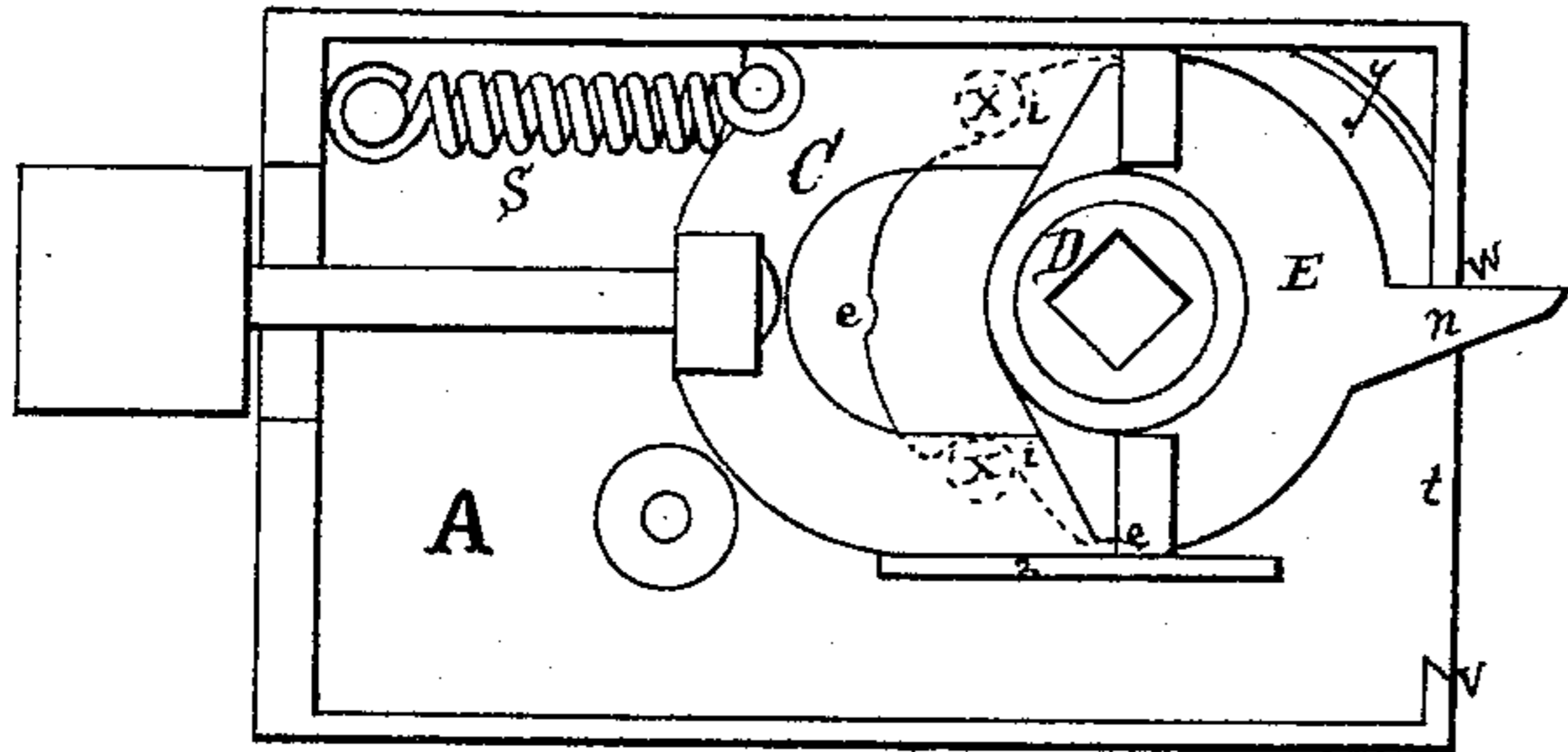
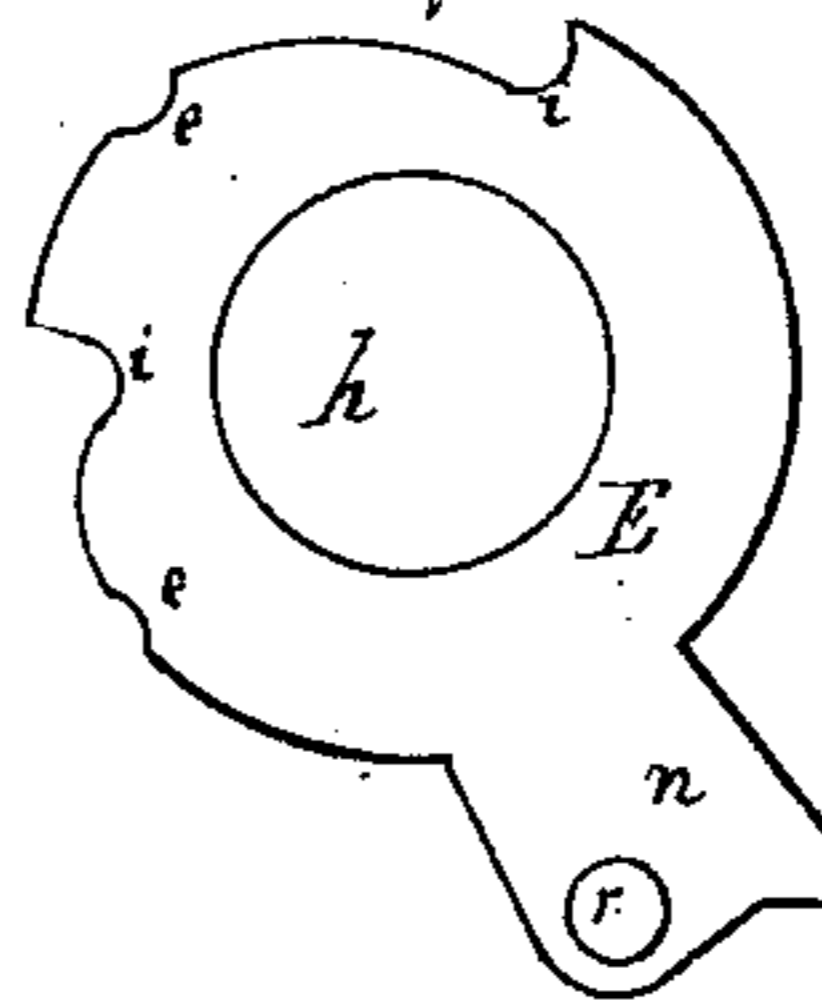


Figure 5.

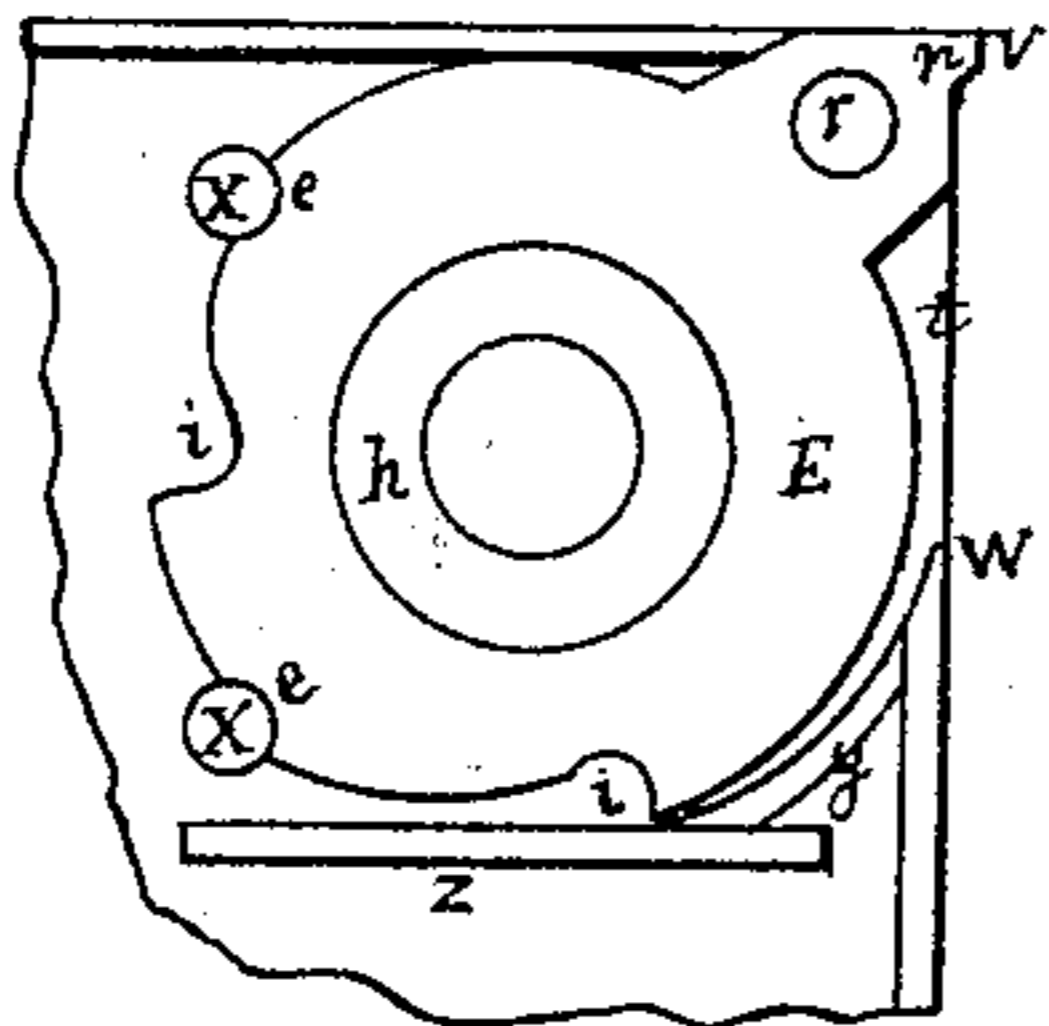


Figure 6.

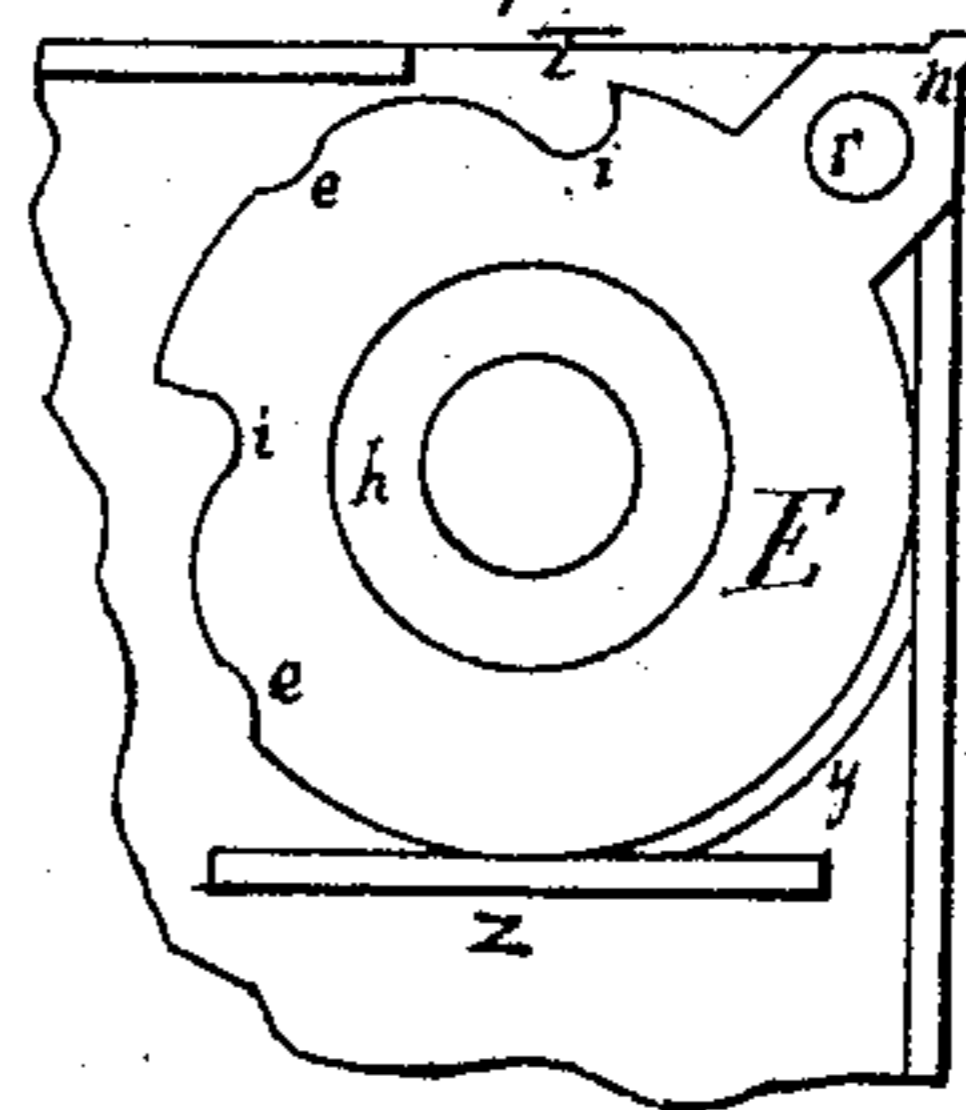


Figure 8.

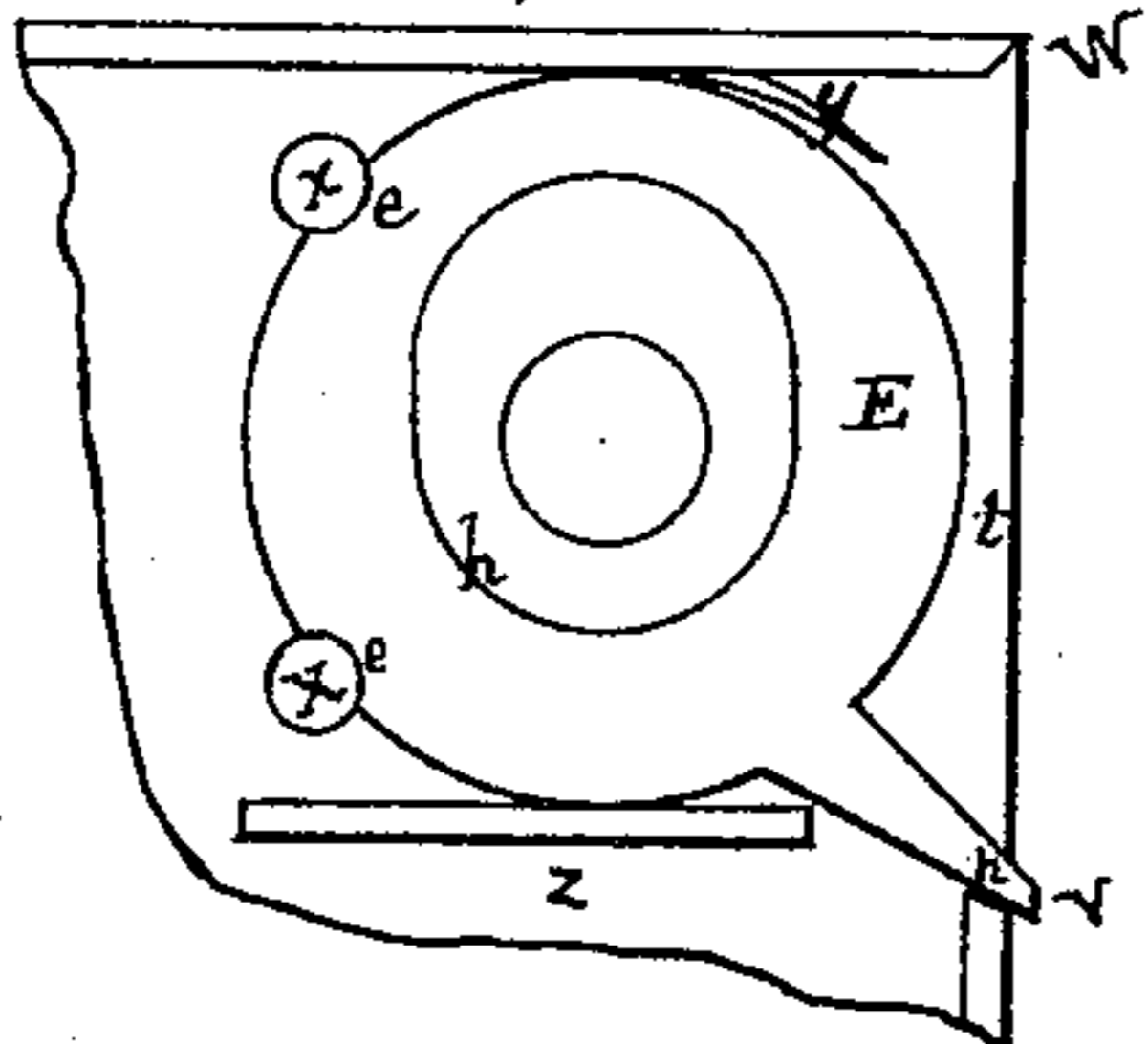
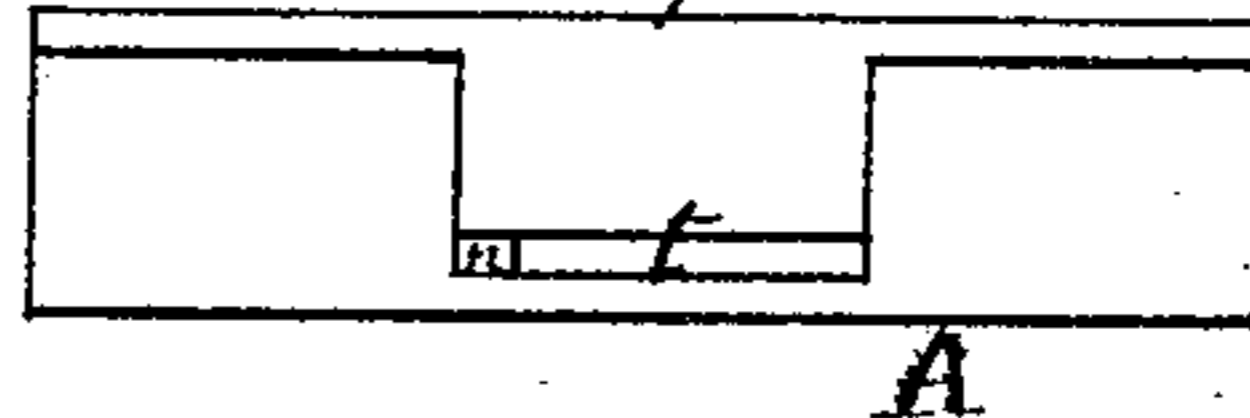


Figure 7.



Witnesses
Chas. H. Beebe
Geo. Greenman

Inventor
Leon Weston

UNITED STATES PATENT OFFICE.

LON WESTON, OF NORWICH, CONNECTICUT.

IMPROVEMENT IN REVERSIBLE LATCHES.

Specification forming part of Letters Patent No. **153,209**, dated July 21, 1874; application filed May 27, 1874.

CASE C.

To all whom it may concern:

Be it known that I, LON WESTON, of Norwich, in the county of New London and State of Connecticut, have invented a new and useful Improvement in Knob-Latches; and I do hereby declare that the following specification, taken in connection with the accompanying drawings and letters thereon, constitutes a full and clear description of the same.

Figure 1 is a front elevation of the latch-case with the cap removed. Fig. 2 represents a swivel latch-bolt made up of the revolving portion *a* and the yoke *b*. Fig. 3 represents a hub made sufficiently thin so as to slide within the case, and at the same time permit the yoke *b* to slide freely one side or the other of the arms *c c*, according to construction. Fig. 4 represents a plate of peculiar form, the principal features of which are the opening *h*, the recesses *e e* and *i i*, the hole *r*, and the rib *n*. The opening *h* is the seat for the hub *D*. Figs. 5 and 6 show the plate *E* in other positions in the case. Fig. 7 represents a back-end view of the case *A*, showing how the two parts may be matched together to form the slot *t* for the nib *n*.

This invention relates to an improvement in knob-latches so constructed as to permit the bolt to be reversed for right or left hand doors, and combines the merits of cheapness and convenience; and consists in the peculiar construction of the plate for operating the hub.

The plate *E* is fitted to its bearings *x x y z* in the case, and is held in position by the spring *s* working through the medium of the yoke and hub, and thence on the plate itself, drawing the recesses *e e* against the bearings *x x*. Now, it will be seen that, by swinging the nib from *v* to *w*, so as to bring the recesses *i i* to match the bearings *x x*, the plate, together with the hub, yoke, and bolt, will be carried forward by the action of the spring *s*, and the bolt protruded so as to admit of being reversed. By bringing the nib *n* back to its former position, the other parts, *C* and *D*, will also assume their former positions. In order that the plate *E* may be rendered immovable in rim-locks when attached to doors, I have contrived to have a hole in the nib *n* correspond

with a screw-hole in the case *A*, so that, when the screw is inserted, the plate may be held fast. The nib *n* may be made to protrude through the case near the cap, or at the other side of the case, by forming a slot of proper dimensions. I have tested its working in all of the several locations about the corner of the case nearest to the hub, and prefer the construction of the case represented by Fig. 7, showing the slot and nib *n* in the back edge of the case. I also have constructed a plate with an oblong opening in the center, as represented in Fig. 8, which, when turned so as to bring the longer axis of the opening in line with the axis of the bolt, the reversion can be accomplished the same as with the plate *E* in Figs. 1, 5, and 6.

The chief merit of my invention over others for the same purpose is its simplicity. The plate *E* can be punched out of common sheet metal, or can be cast in the desired form, with trifling expense. No other extra additions to the lock-case are necessary, and no extra fitting is required. Its location in the case brings the nib *n* in a convenient position to be tripped by the thumb and finger, and the inconvenience of pulling at the latch-bolt is avoided. It requires no extra spring to keep it in position, but is equally effective with a pull, push, or coiled spring acting upon the bolt in the ordinary way.

I am aware of the many devices that have been patented to render knob-latches reversible, and make no claim to a hub sliding within a case. My invention is an improved attachment to the sliding hub; and

What I claim as new, and for which I desire Letters Patent, is—

The plate *E*, with the opening *h*, the recesses *e e* and *i i*, the hole *r*, and the nib *n*, as represented and described, when in combination with the bearings *x x y z*, the slot *t*, the hub *D*, the swivel latch-bolt *C*, and the spring *s*, all constructed substantially as shown, and for the purpose set forth.

LON WESTON.

Witnesses:

CHAS. H. BEEBE,
GEO. GREENMAN.