

(Model.)

O. H. GILBERT.
LATCH.

No. 327,157.

Patented Sept. 29, 1885.

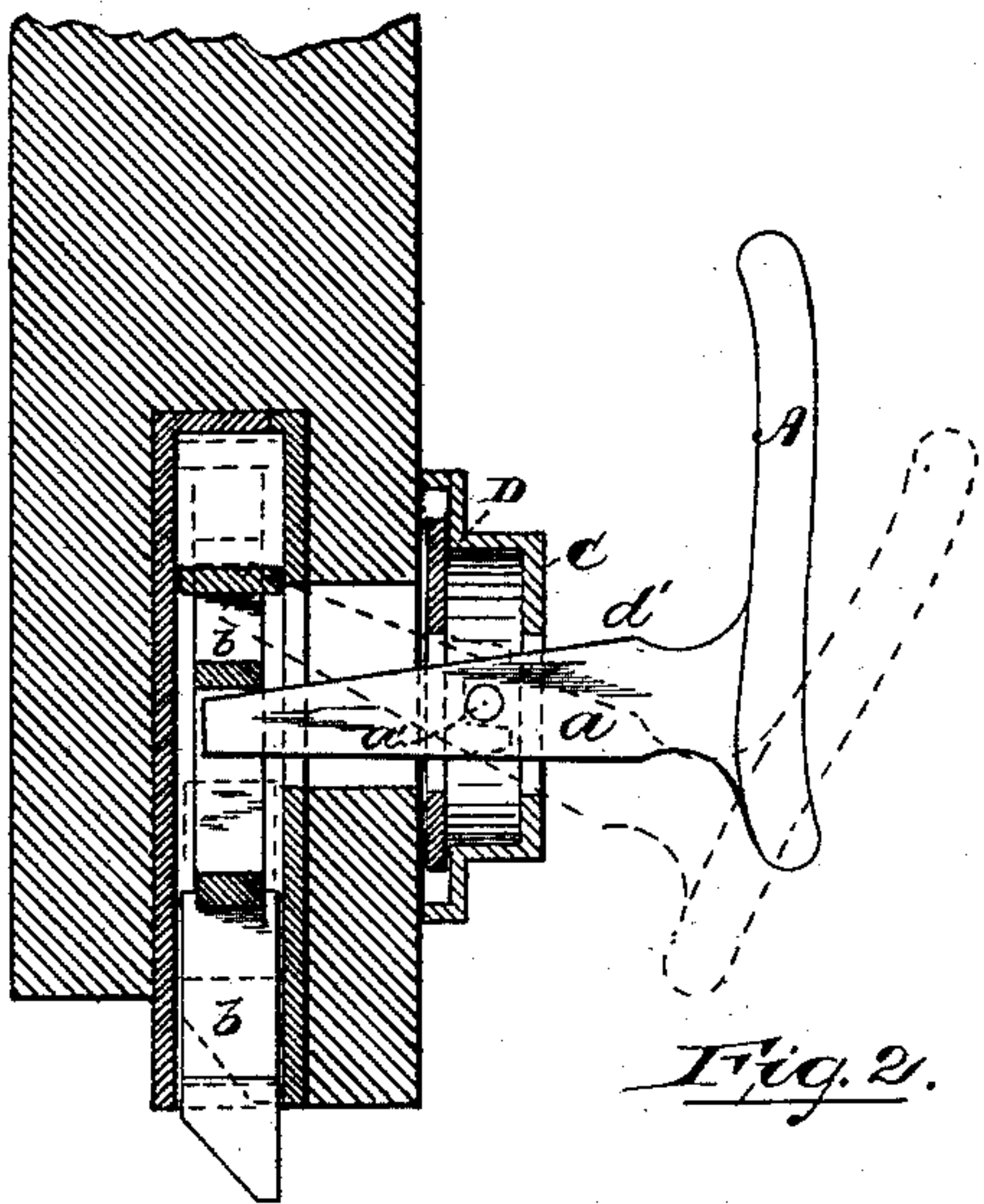


Fig. 2.

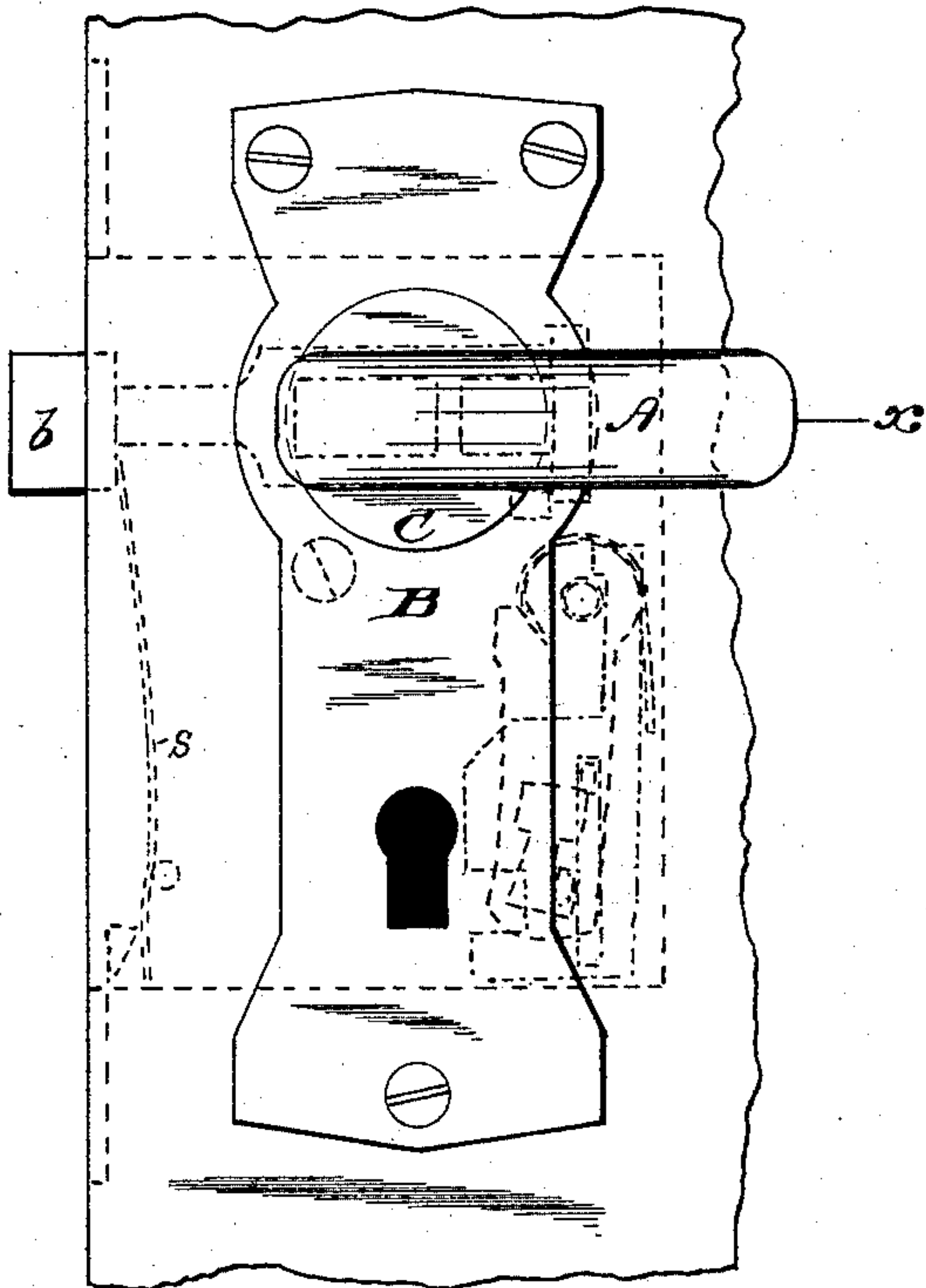


Fig. 1.

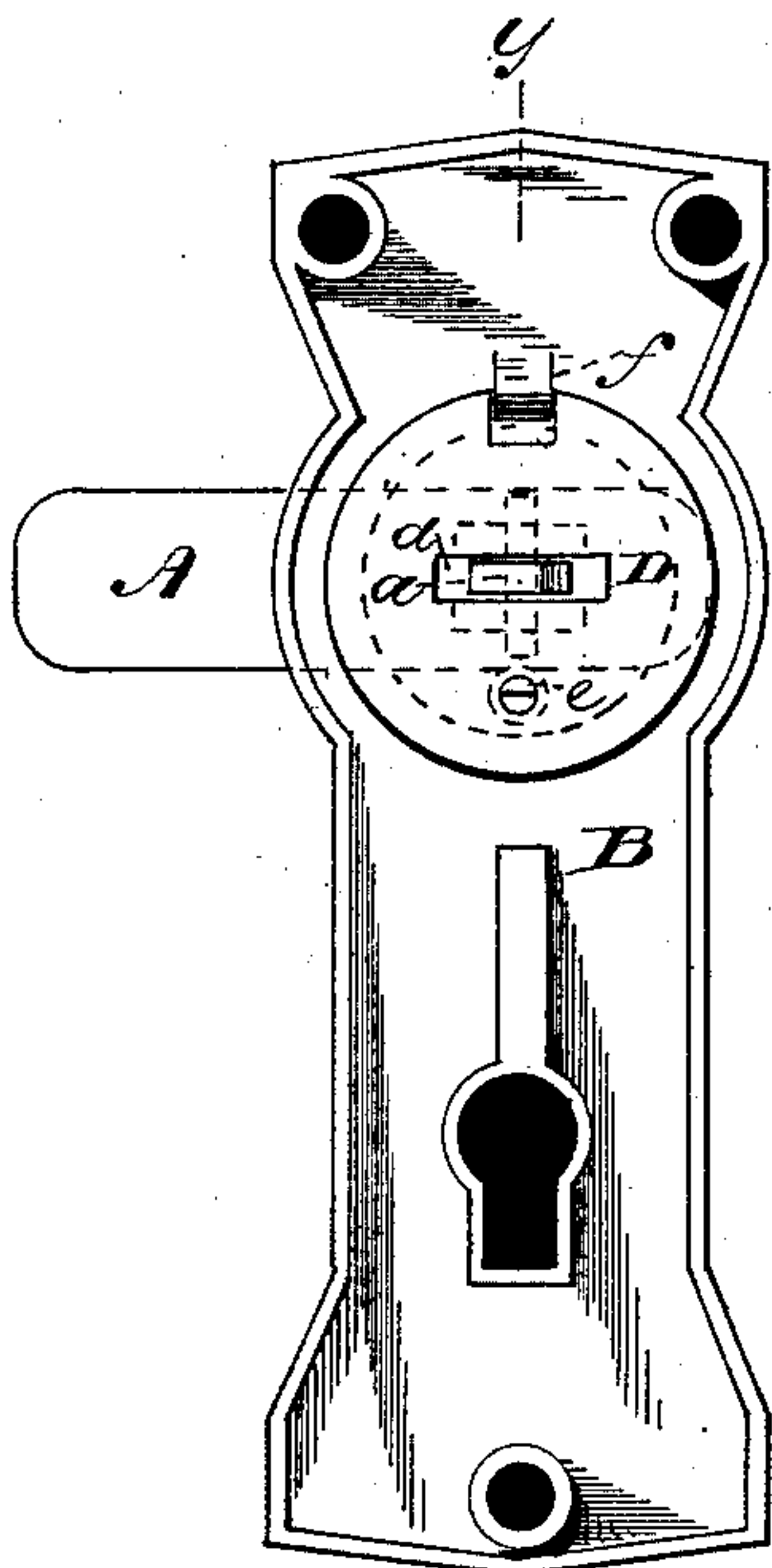


Fig. 3.

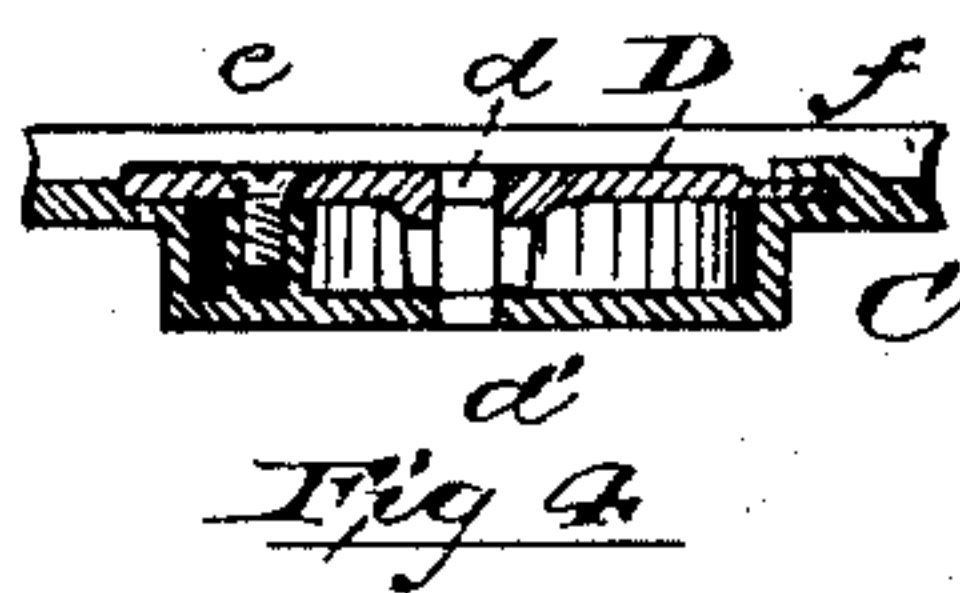


Fig. 4.

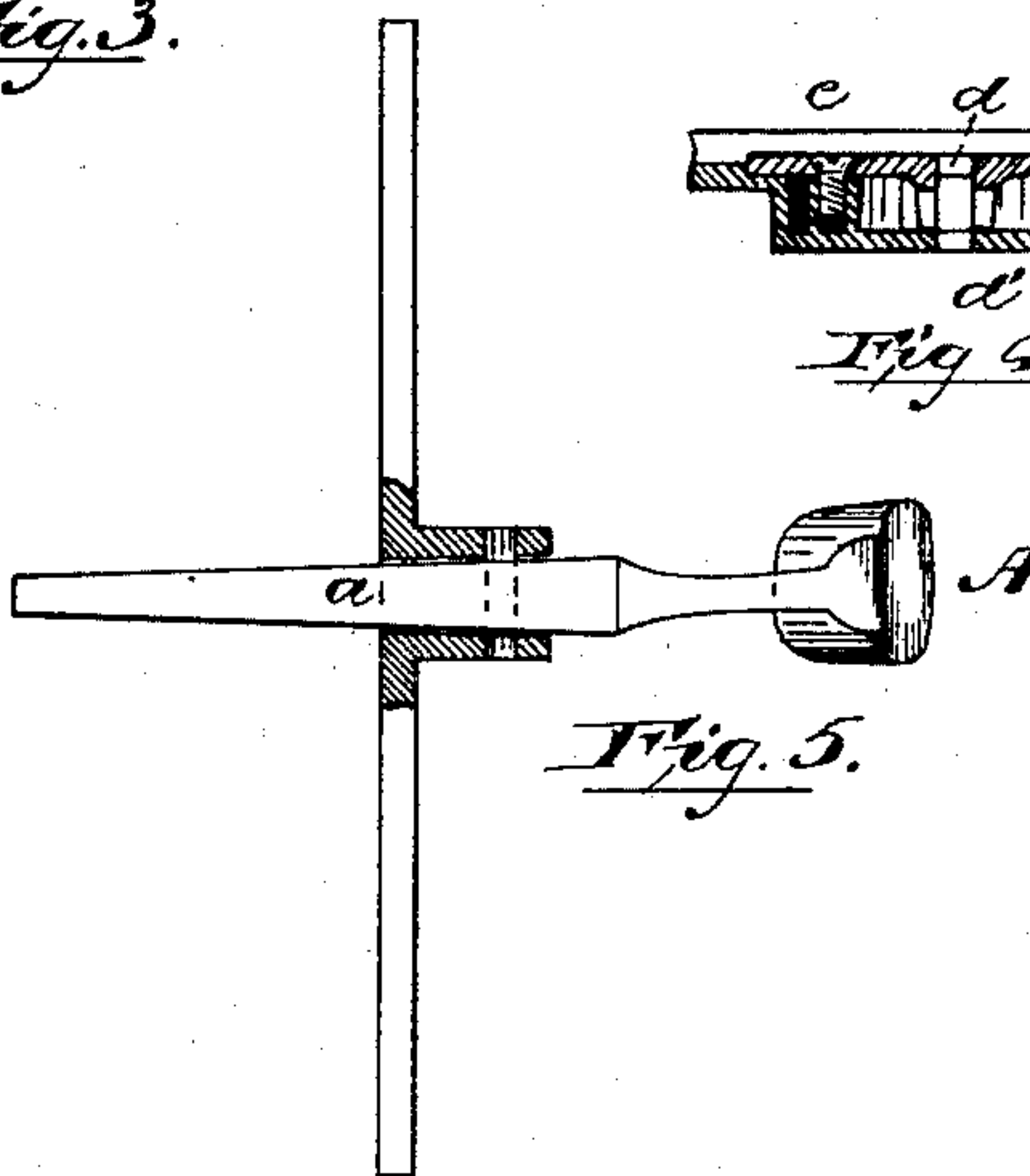


Fig. 5.

Attest:

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UNITED STATES PATENT OFFICE.

ORVELLAS H. GILBERT, OF NEWARK, NEW JERSEY.

LATCH.

SPECIFICATION forming part of Letters Patent No. 327,157, dated September 29, 1885.

Application filed December 20, 1884. (Model.)

To all whom it may concern:

Be it known that I, ORVELLAS H. GILBERT, a citizen of the United States, residing at Newark, in the county of Essex and State of New Jersey, have invented certain new and useful Improvements in Door-Latches; and I do hereby declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to letters of reference marked thereon, which form a part of this specification.

This invention relates to improvements in door-latches, and is intended to secure a simple, effective, and economical latch or bolt operating mechanism, as hereinafter set forth.

The invention consists in the mechanism and its combinations and operations, substantially as illustrated in the drawings, and as described and claimed herein.

Similar reference-letters in the accompanying drawings indicate corresponding parts.

Of the several views therein shown, Figure 1 is a plan of a portion of a door with my door furniture thereon, the lock being shown by dotted lines. Fig. 2 is a section of Fig. 1 through line *x*. Fig. 3 is a plan of the under side of the escutcheon. Fig. 4 is a section of the rose and handle holding device, taken through Fig. 3 in the direction of *y*; and Fig. 5 is a modified form of escutcheon, showing a simple method of pivoting the handle.

The mechanism illustrated in the drawings described above is intended to show one method of carrying out my invention and to indicate the principle upon which the device is based—viz., of utilizing the act of opening the door to draw the latch, or, vice versa, the act of drawing the latch to open the door, both steps being practically performed at the same time. This mode of operation is more specially applicable on the side of the door which swings toward the person opening it, and for that reason is particularly adapted for closet, refrigerator, or similar doors intended to be opened from one side only; but I may employ this device on the side of any door most liable to be used, and operate the latch from the opposite side by any suitable device, one form of which is shown in a contemporaneous

application, in which the handle moves in a plane parallel with the door. In the device herein described the movement of the handle is preferably in a plane at right angles to the door, as dotted on Fig. 2.

In the drawings, A is the handle; *a*, the shank thereof pivoted to the door furniture or escutcheon, the end of which engages with and actuates a latch, *b*, which may be used in connection with a lock or locking device, or independently as a simple latch.

The lock shown in the drawings (being dotted on Fig. 1) is one which has no locking-bolt independent of the latch, but utilizes the latch as a bolt by preventing its movement. Such construction is shown in a contemporaneous application.

The escutcheon B is provided with a rose, C, through which the shank of the handle passes, and within which it is pivoted. Within and at the back of the rose is a plate, D, provided with an opening, *d*, corresponding to that in the rose through which the shank passes, and is provided with lugs *d'* on each side of said opening *d*, between which is arranged the pin *a'* on the shank providing bearings therefor. The pin may be cast integral with the shank, but is preferably inserted through a hole drilled in the shank, so that it can be removed and replaced when desired.

In order that the furniture may be used either for the right or left upon the door, the plate D is removably secured to the escutcheon, a screw, *e*, and projection *f* holding it in place. By unscrewing and removing the plate from the rose and withdrawing the pin from the shank the said shank can be removed and reversed and all the parts replaced with great facility. This arrangement enables the same furniture to be used for either right or left hand doors, avoiding the necessity for separate furniture in each case.

The form and ornamentation of the escutcheon and rose may be varied as desirable.

The construction of the latch is indicated in dotted outline in Fig. 1, and in section in Fig. 2; but any form adapted to engage with the shank may be employed. A spring, *s*, restores the latch, &c., to their normal position.

Having thus described my invention, I desire to claim the following:

1. The combination, in door-latches, with a

lever adapted to actuate a latch, substantially as herein specified, said lever having journals arranged within a recessed plate or rose, through which said lever passes, of a recessed plate or
5 rose and a removable plate arranged within said recessed plate, having lugs, between which the journals of the lever are pivoted, for the purposes set forth.

2. The combination, in door-latches, with a
10 lever adapted to actuate a latch, substantially as herein specified, said lever having journals arranged within a recessed plate or rose, through which said lever passes, of a recessed

plate or rose provided with a lug or projection, *f*, and a threaded post, *e*, and a removable
15 plate having lugs, between which the journals of the lever are pivoted and held within said recessed plate, substantially as and for the purpose set forth.

In testimony that I claim the foregoing I
20 have hereunto set my hand this 17th day of December, 1884.

ORVELLAS H. GILBERT.

Witnesses:

FREDK. F. CAMPBELL,
CHARLES H. PELL.