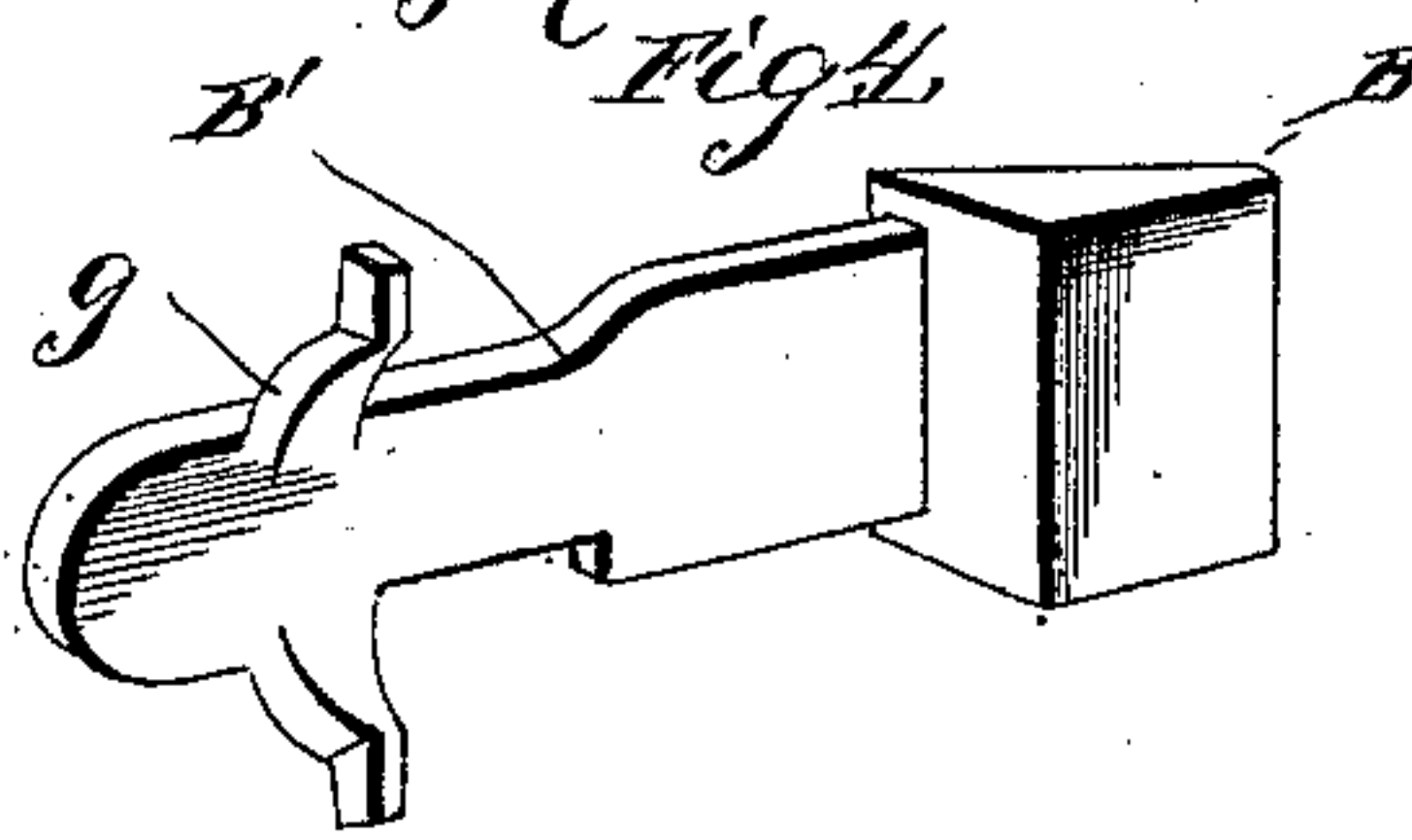
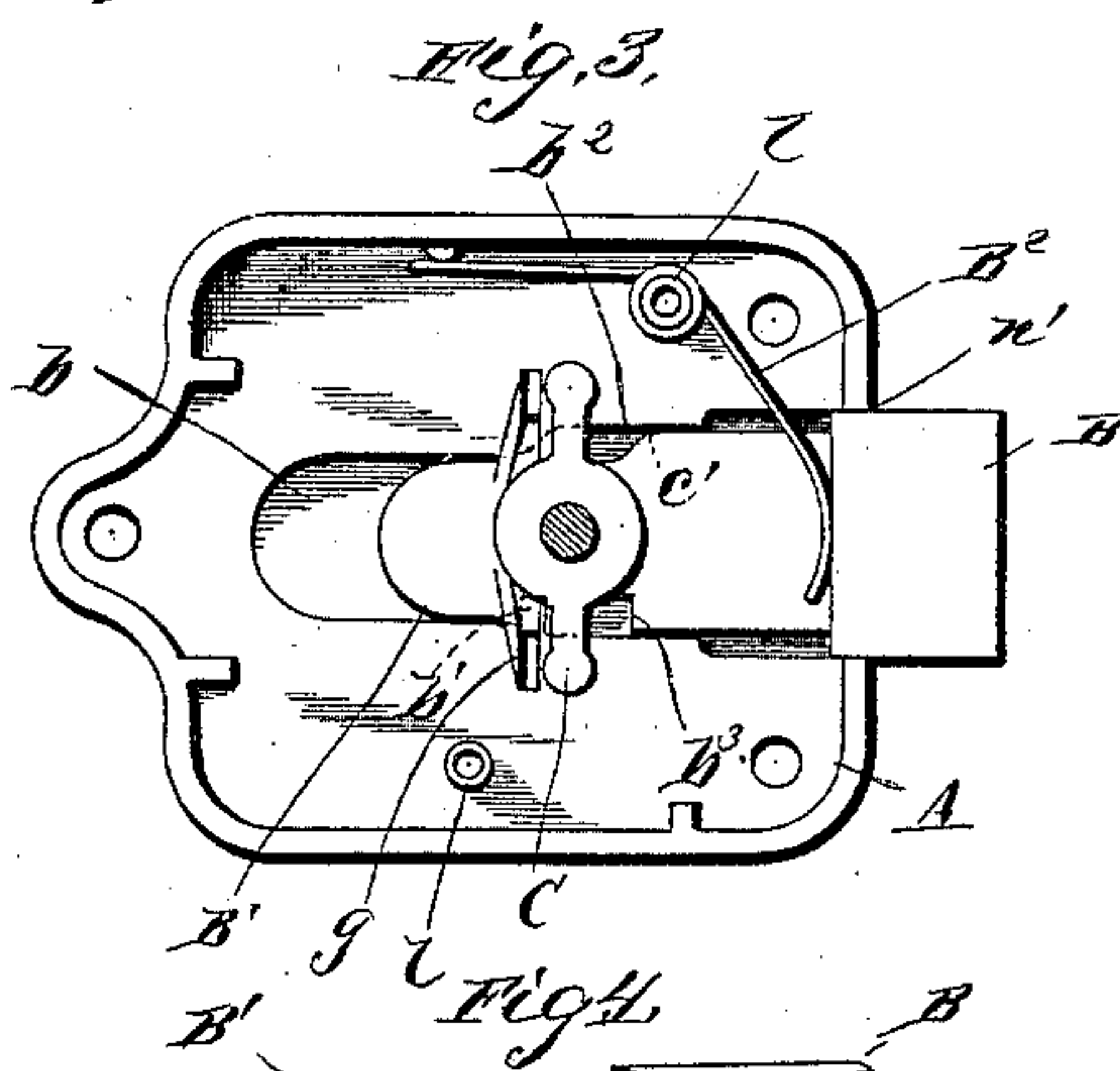
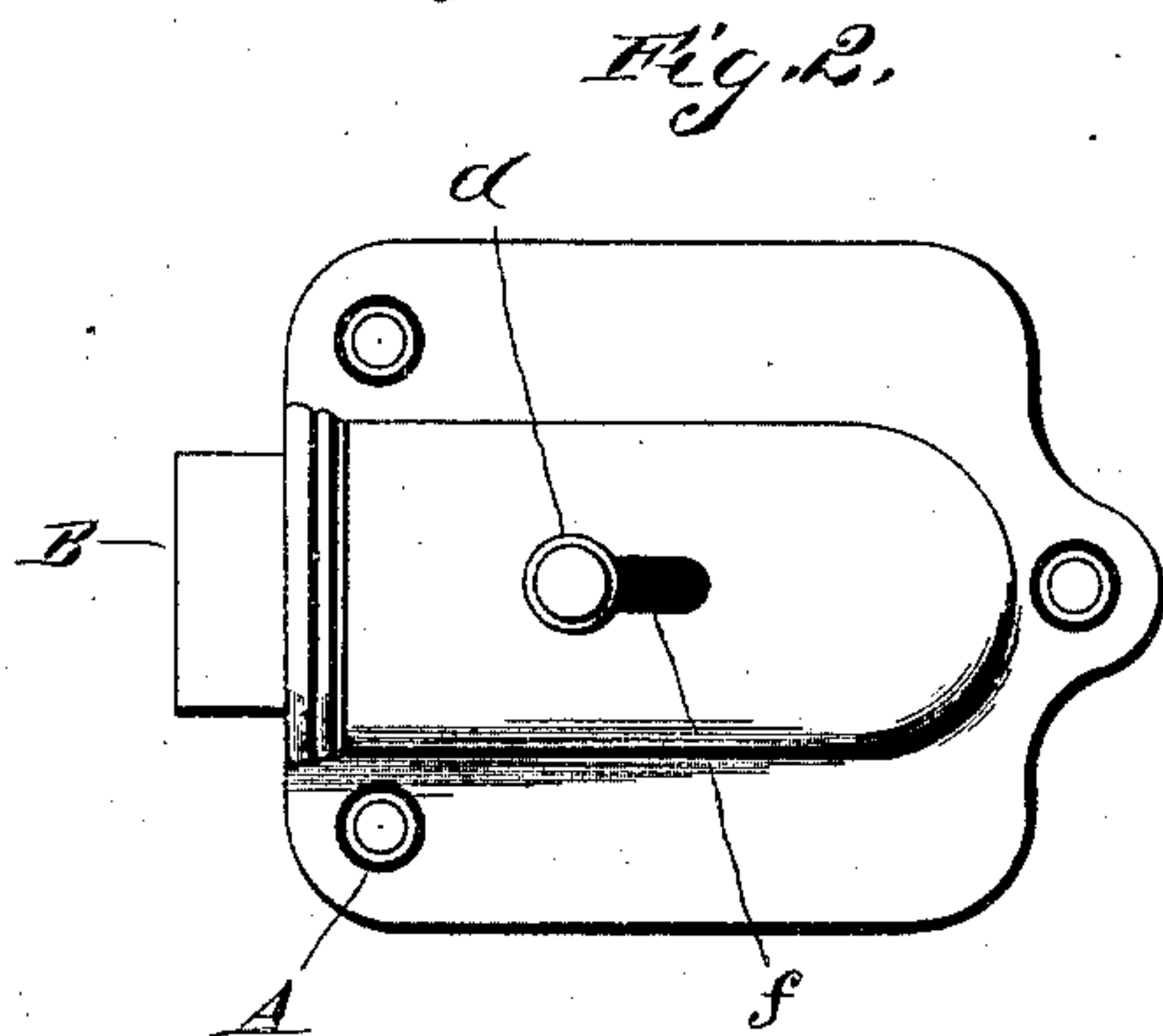
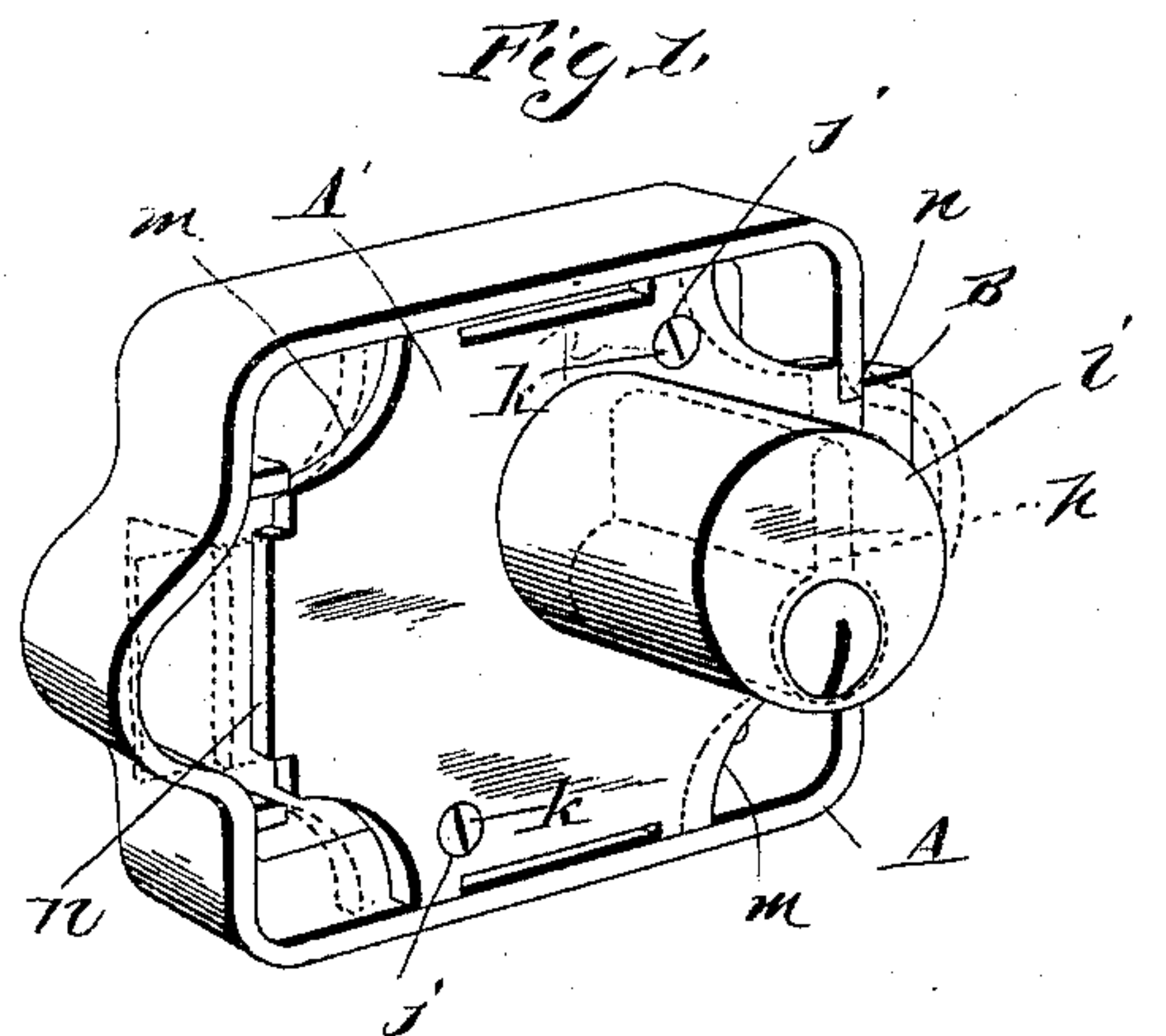


(Model.)

F. B. CASE.  
REVERSIBLE LATCH.

No. 433,325.

Patented July 29, 1890.



Witnesses

*W. B. Taylor*  
*Philippi.*

Inventor

Frank Bell Case

By his Attorney

*E. W. Anderson.*



# UNITED STATES PATENT OFFICE.

FRANK BELL CASE, OF BROOKLYN, NEW YORK.

## REVERSIBLE LATCH.

SPECIFICATION forming part of Letters Patent No. 433,325, dated July 29, 1890.

Application filed March 7, 1890. Serial No. 342,982. (Model.)

*To all whom it may concern:*

Be it known that I, FRANK BELL CASE, a citizen of the United States, and a resident of Brooklyn, in the county of Kings and State of New York, have invented certain new and useful Improvements in Locks; and I do 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.

Figure 1 of the drawings is a perspective view from the rear. Fig. 2 is a front or face view. Fig. 3 is a view of the interior of the lock, and Fig. 4 is a detail view.

This invention relates to certain improvements in latch-locks more especially for doors, and has for its object to adapt the lock for right or left hand doors; and it consists of the novel combination and construction of parts, as will fully appear from the following description and accompanying illustration.

In accordance with my invention, I employ the usual form of lock-case A, which contains the latch-bolt B. The bolt B projects, as usual, through an opening in the front edge of the case A, and has a plate-like extension B', which slides in a recess or depression b in the inner surface of one side of the said case. Projecting about midway of and from one side wall of the case A into said depression or recess b is a stop or lug b'. At an opposite point upon the opposite wall of said recess or depression is a shoulder or offset b<sup>2</sup>. The lug b' and shoulder b<sup>2</sup> engage, respectively, a wall of a recess b<sup>3</sup> and a shoulder or offset c' upon opposite side edges of the bolt extension or slide B', limiting the movement of the bolt. A headed pin or knob d, arranged upon the outside of the case A for manipulating the bolt upon the inside of the door, has its shank connected or riveted to the bolt extension B' and projecting through a slot f in the said case. The bolt extension B' has projecting from opposite points on its side edges offset arms or lugs g, which are for engagement with the tumbler-actuated lever C in shooting the bolt. The bolt is normally held projected by a spring B<sup>2</sup> applied, as shown, thereto.

A' is the removable cap-plate of the lock-case A, which has the usual projecting tumbler-cylinder h, with its contained tumblers, which cylinder is itself inclosed by a cylindrical case i, fast to said plate. This cap-plate is adapted to fit just inside the case A, and has diagonally-opposite openings j j, through which are inserted the plate-securing screws or fastenings k k, engaging correspondingly-arranged internally-screw-threaded sockets l l, cast upon the inside of said case. By this arrangement it will be seen that the cap-plate A', being removed or detached, the lock-case, with its contained bolt and other mechanism, can be reversed end for end, so that it is adapted for use in connection with a right-hand or left-hand door, the arms or lugs g being designed to stand in an operative position with relation to the tumbler-actuated lever in whichever of the two positions the case may be arranged. The cap-plate A' has also, in addition to the openings j, four notches m m—one at each corner—which permit the passage of the screws or fastenings inserted through apertures in the lock-case A for securing it to the door. This cap-plate is also provided with opposite end extensions n n, each adapted to separately engage or fit a recess n' in the front end or edge of the case A, thus permitting the engagement or adaptation of either end of the cap-plate to the front end of the said case as it is reversed end for end, for the purpose aforesaid.

It is obvious from the foregoing that the cap-plate A', having the tumbler-cylinder, always maintains the same position with relation to the door, whether the lock-case be reversed or not or used for a right or left door, thus enabling the tumbler-cylinder, with its key-opening, to retain their normal position in either case named.

Having described my invention, what I claim, and desire to secure by Letters Patent, is—

1. The reversible or right and left hand door-latch comprising the lock-case, having diagonally-arranged internally-screw-threaded sockets and the recessed forward edge or end, and the removable or detachable cap-plate having the opposite end extensions and diagonally-arranged screw-receiving openings coinciding with said sockets, said forward

end recess of the lock-case being engaged by either end extension of the cap-plate as the case is reversed end for end, substantially as set forth.

- 5 2. In a reversible latch-lock, the combination, with the bolt having a recess and shoulder at opposite points in its side edges and offset arms, of the tumbler-actuated lever having opposite studs engaging said arms of the  
10 bolt, and the case having a shoulder and a stud standing opposite each other and engag-

ing said recess and shoulder of the bolt, together with the reversible end-for-end cap-plate, and means to effect the securement of said plate, substantially as set forth. 15

In testimony whereof I affix my signature in presence of two witnesses.

FRANK BELL CASE.

Witnesses:

GEORGE C. DEMERITT,  
EGBERT S. MOTT.