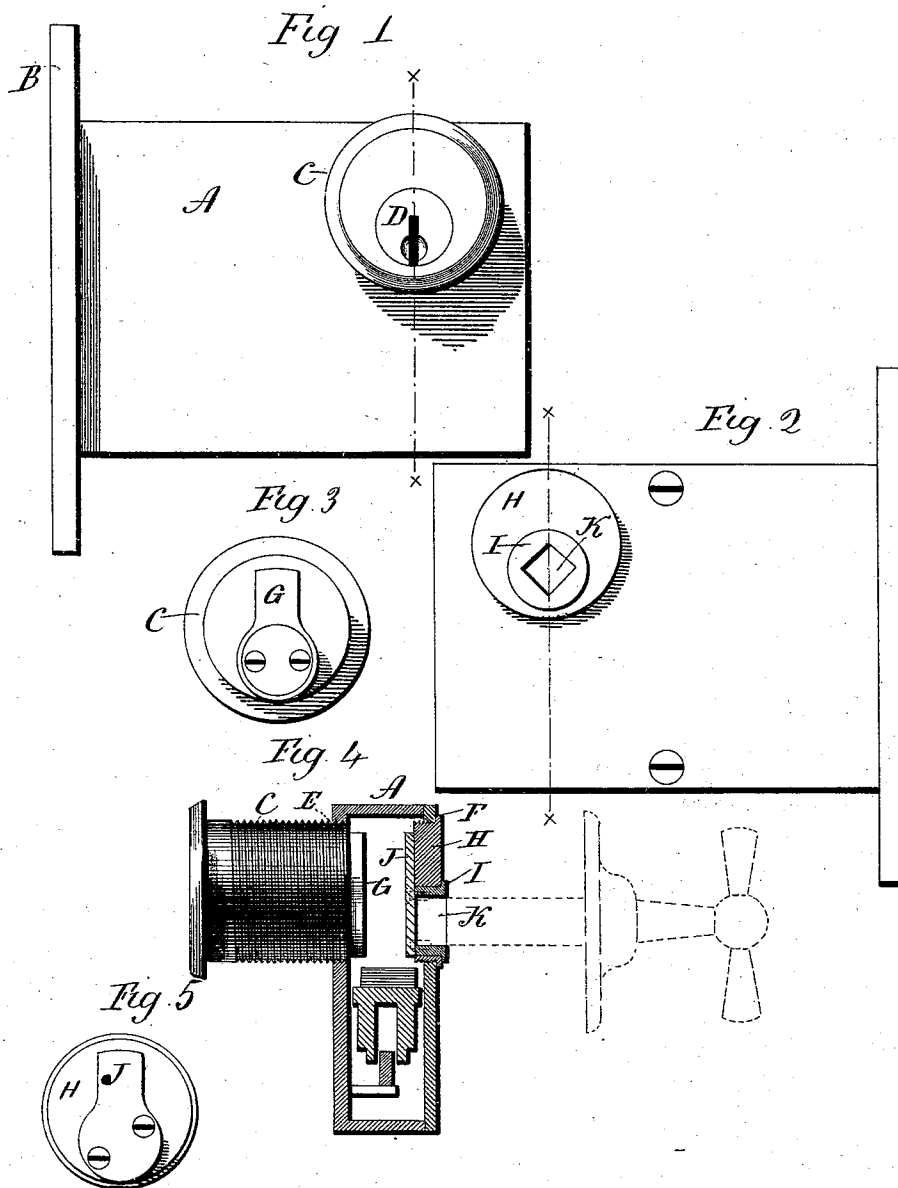


(No Model.)

R. SARGENT.
CYLINDER LOCK.

No. 487,969.

Patented Dec. 13, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

RUSSELL SARGENT, OF NEW HAVEN, CONNECTICUT, ASSIGNOR TO THE
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CYLINDER-LOCK.

SPECIFICATION forming part of Letters Patent No. 487,969, dated December 13, 1892.

Application filed September 19, 1892. Serial No. 446,248. (No model.)

To all whom it may concern:

Be it known that I, RUSSELL SARGENT, of New Haven, in the county of New Haven and State of Connecticut, have invented a new Improvement in Locks and Latches; and I do hereby declare the following, when taken in connection with 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 or latch case, showing face view of the key-cylinder; Fig. 2, the reverse side of the lock or latch case, showing face view of the disk; Fig. 3, a rear end view of the key-cylinder case; Fig. 4, a vertical section cutting through line *x x* of Figs. 1 and 2, and Fig. 5 an inner side view of the cylinder.

This invention relates to an improvement in that class of locks or latches in which the key mechanism is arranged in a cylinder in a case independent of the main case of the lock or latch, the case of the key mechanism being adapted to be introduced through a hole in the face of the door and screw into a corresponding hole in the lock-case, and so that a talon on the inner end of the cylinder is adapted to engage the bolt mechanism, and so that the key introduced the cylinder may be turned, and so as to operate the latch or lock bolt, as the case may be. In some cases the key mechanism is desired upon one side of the door and in others upon the opposite side. Consequently the case of the lock or latch must be constructed so that the case of the key-cylinder may be introduced from either side, according to the position required for the introduction of the key. The key mechanism being upon one side of the door only, it is generally necessary that there shall be some device upon the reverse side by which the bolt may be drawn. Heretofore this device has been a mechanism entirely independent of the arrangement of the key-cylinder.

The object of this invention is the construction of a knob mechanism which may be applied to one side of the lock-case, while the key mechanism may be applied to the oppo-

site side, and these two mechanisms interchangeable, so that either is adapted to be introduced in place of the other; and the invention consists in the construction as herein-after described, and particularly recited in the claim.

A represents the lock or latch case, which is provided with the usual face-plate B. The mechanism of the latch or lock case is immaterial to this invention and does not require illustration or description.

C represents the key-mechanism case, and D the key-cylinder. This case and cylinder, with the key mechanism, may be any of the known constructions. The case of the key mechanism is constructed with a screw-thread upon its surface, as usual, and the lock-case A is constructed with an opening E on one side and a similar opening F upon the opposite side, which are screw-threaded, corresponding to the screw-thread of the case C, so that that case may be introduced from either one side or the other.

In Fig. 4 the case of the key mechanism is represented as screwed into the lock-case on the left-hand side and in the usual manner. The cylinder of the lock-case carries a talon G, as usual, which in the usual manner is adapted to engage the bolt within the lock or latch case, so that the turning of the key-cylinder will correspondingly move the bolt.

H represents a disk, which in diameter corresponds to the diameter of the cylinder and which is correspondingly screw-threaded, so that it may be screwed into the opening either side of the case A in like manner as the cylinder C is screwed into the opposite side of the case. Through an opening in the disk H a cylindrical socket I is introduced, which corresponds in position to the key-cylinder D of the case C. The socket I is flanged upon its outside, so as to bear upon the surface of the disk, and on the inside of the disk the socket I carries a talon J, corresponding to the talon G of the key-cylinder. The socket I is constructed with a recess K in its face side of angular shape, which is adapted to receive the spindle of a knob or handle, as represented in broken lines, Fig. 4, so that the socket I may receive a rotative movement by

the turning of the knob or handle, and such turning of the socket will bring the talon J of the socket to operate upon the bolt in like manner as does the talon G of the key-cylinder. The disk H being adapted to be introduced into the opening in either side of the lock or latch case A, and the lock-cylinder being alike adapted, the key-cylinder case C may be introduced from one side and the disk H upon the opposite side, or vice versa, as occasion may require, the cylinder C and the disk H being interchangeable.

I claim—

A lock or latch case having a like opening through opposite sides, combined with a cylindrical case carrying the key mechanism, the said cylindrical case corresponding to and adapted to set into the said opening on either side of the lock or latch case, a cylin-

dricial disk corresponding to the said cylindrical case and alike adapted to be introduced into either of the said openings in the lock or latch case, a cylindrical socket in the said disk, the opening in the socket of angular shape and adapted to receive a handle-operating spindle, the said socket carrying a talon corresponding to a like talon on the key-cylinder of the said cylindrical case, the said disk and the said cylindrical case being interchangeable with relation to the lock or latch case, substantially as described.

In testimony whereof I have signed this specification in the presence of two subscribing witnesses.

RUSSELL SARGENT.

Witnesses:

ROBERT E. HOFER,
WILLIAM S. COOKE.