(No Model.)

E. HAMBUJER.

COMBINED LATCH AND LOCK.

No. 366,829. Patented July 19, 1887.

Fig. 1

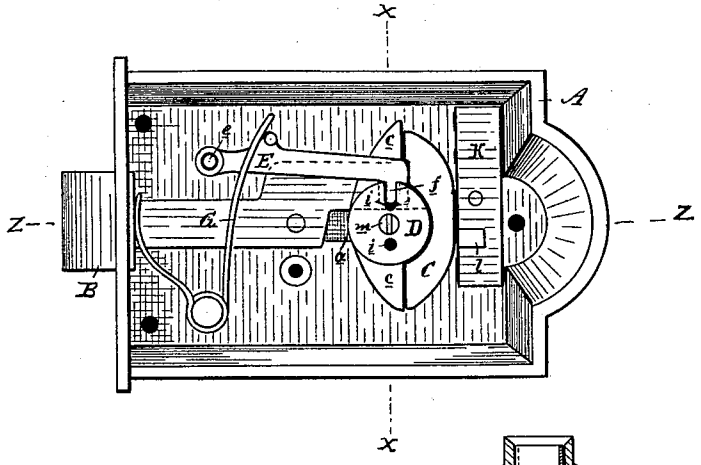


Fig. 5

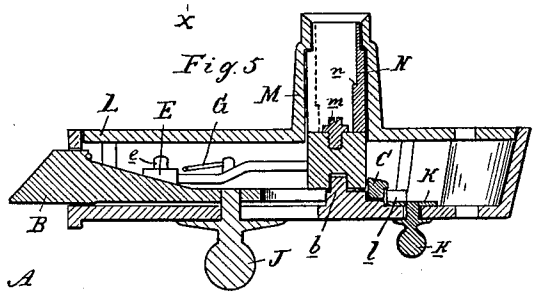


Fig. 2

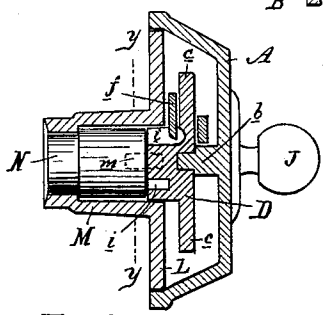


Fig. 3

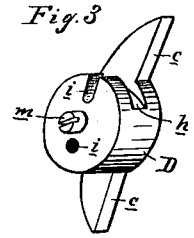


Fig. 6

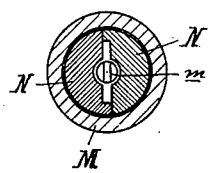
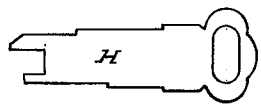


Fig. 4



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UNITED STATES PATENT OFFICE.

EPHRAIM HAMBUJER, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO J. CHARLES EICHHORN, OF SAME PLACE.

COMBINED LATCH AND LOCK.

SPECIFICATION forming part of Letters Patent No. 366,829, dated July 19, 1887.

Application filed May 12, 1887. Serial No. 237,947. (No model.)

To all whom it may concern:

Be it known that I, EPHRAIM HAMBUJER, of Detroit, in the county of Wayne and State of Michigan, have invented new and useful Improvements in Combined Latch and Lock; and I do hereby declare that the following is a full, clear, and exact description thereof, reference being had to the accompanying drawings, which form a part of this specification.

This invention relates to certain new and useful improvements in combined latches and locks.

The invention consists in the peculiar construction, arrangement, and combinations of the various parts, all as more fully hereinafter set forth.

Figure 1 is a plan of my improved latch and lock with back plate removed. Fig. 2 is a cross-section of the same on line *x x*. Fig. 3 is a perspective view of the actuating-barrel. Fig. 4 is a plan of the key. Fig. 5 is a horizontal section on line *z z*, Fig. 1. Fig. 6 is a cross-section on line *y y*, Fig. 2.

In the accompanying drawings, which form a part of this specification, A represents the lock-case, which incloses the operating parts of the lock.

B is the latch-bolt, which has a sliding movement between the guide *a* and post *b*. The rear end of this bolt is provided with a T-head, C. Upon the post *b* is stepped the barrel D, which latter has laterally-projecting arms *c*.

E is a tumbler pivotally secured upon the post *e*, located near the front end of the case, its free end being provided with an arm, *f*, to engage with a recess, *h*, in the edge of the barrel D and in the pathway of the key.

In the face of the barrel D are formed two or more keyways, *i*, to receive the prong ends of the key H, one of such prongs being beveled off, so that as it is inserted in the lock it will force the tumbler outwardly and allow the barrel to be partially rotated for retracting the latch-bolt.

Secured to the latch-bolt and projecting through the front face of the case is a stud, J, by means of which the bolt may be retracted, as in the usual manner in locks of this character.

K is a locking-slide, which has a stud, *k*, projecting through the case, by means of which it may be moved so as to bring its stop *l* in the path of the latch-bolt to prevent the latter from being retracted.

In the center of the barrel D is formed a threaded hole, into which a screw-plug, *m*, of greater or shorter length, may be put to correspond to the depth of the step cut in the end of the key.

G is a spring which actuates both the latch-bolt and the tumbler.

The back plate, L, is secured to place in the usual manner, and is provided with a hollow boss, M, in which is located a key barrel or guide, N, for directing the key to its proper engagement with the operating parts of the lock. This key-barrel is split in halves longitudinally, and each half is provided with a flange, *n*, one or both of which may be notched, as shown, to engage with a shoulder or shoulders on the key. By changing the positions of these notches and lengthening or shortening the plug in the barrel D, the lock can be changed so that it will require a special key for each lock.

What I claim as my invention is—

1. In a combined latch and lock, the combination of the latch-bolt B, key-barrel D, provided with the adjustable central plug, *m*, recess *h*, and arms *c*, with the tumbler E, formed with arm *f* to engage said recess, and spring G, actuating both the bolt and tumbler, substantially as and for the purposes set forth.

2. In a combined latch and lock, the combination of the latch-bolt B, key-barrel D, tumbler E, spring G, hollow boss M, and key-guide N, provided with notched flanges *n*, substantially as described.

3. In a combined latch and lock, the combination of the latch-bolt B, key-barrel D, tumbler E, spring G, hollow boss M, key-guide N, and locking-slide K, when the parts are constructed, arranged, and operated substantially in the manner and for the purposes specified.

EPHRAIM HAMBUJER.

Witnesses:
H. S. SPRAGUE,
E. J. SCULLY.