(Model.) 2 Sheets—Sheet 1.

G. VOLL.

LOCKING LATCH.

No. 265,474. Patented Oct. 3, 1882.

Fig. 1.

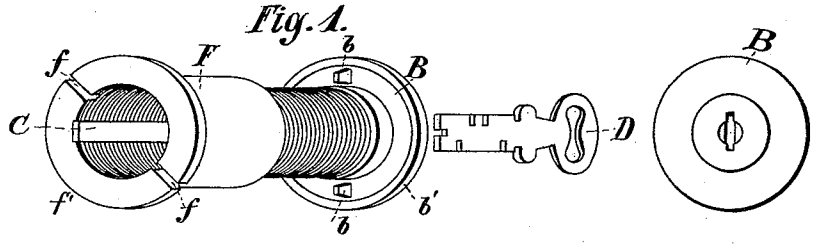


Fig. 2.

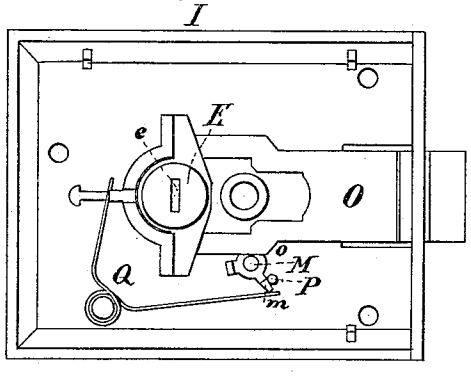


Fig. 3.

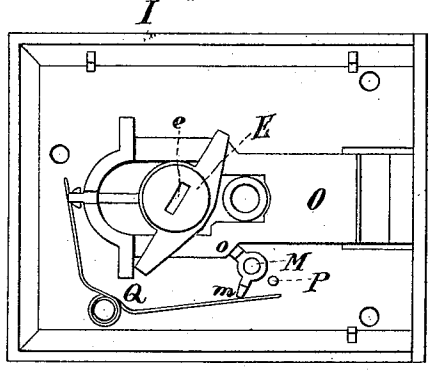


Fig. 5.

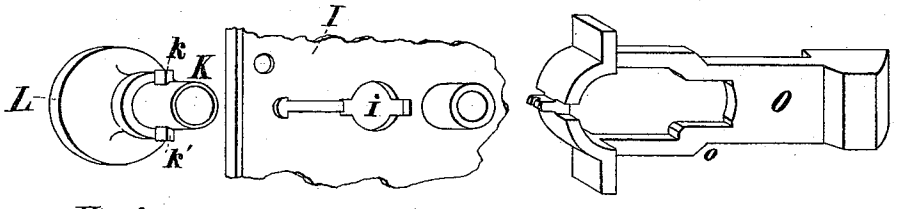
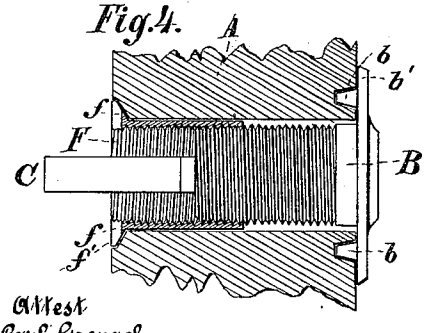
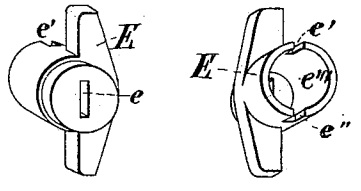


Fig. 4.





Attest
Carl Spengel
Hm. L. Sayers

Inventor
George Voll
By Knight Bros.
Att'y's.

N. PETERS. Photo-Lithographer. Washington, D. C.

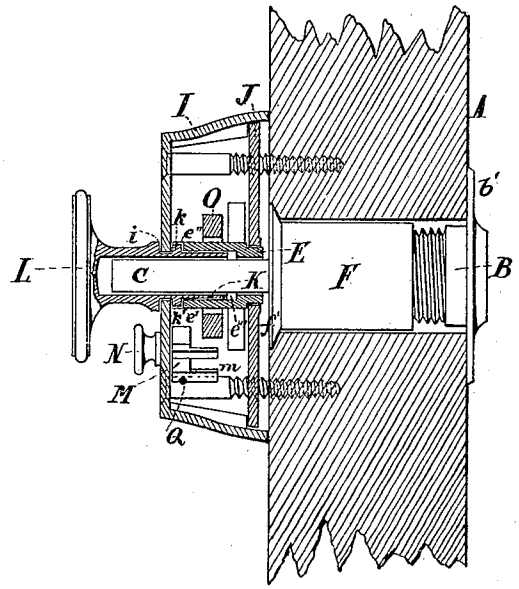
(Model.) 2 Sheets—Sheet 2.

G. VOLL.

LOCKING LATCH.

No. 265,474. Patented Oct. 3, 1882.

Fig. 6.



Witnesses
Carl Spengel
Wm. S. Sayers

Inventor
George Voll
by Knight Bros.
Atty's.

N. PETERS, Photo-Lithographer, Washington, D. C.

UNITED STATES PATENT OFFICE.

GEORGE VOLL, OF CINCINNATI, OHIO, ASSIGNOR TO THE MORRIS SASH LOCK MANUFACTURING COMPANY, OF SAME PLACE.

LOCKING-LATCH.

SPECIFICATION forming part of Letters Patent No. 265,474, dated October 3, 1882.

Application filed June 17, 1882. (Model.)

To all whom it may concern:

Be it known that I, GEORGE VOLL, of Cincinnati, Hamilton county, Ohio, have invented new and useful Improvements in Latch-Locks, of which the following is a specification.

In the accompanying drawings, Figure 1 is a perspective view of my independent safety-cylinder and a key suitable for use therewith. Figs. 2 and 3 are elevations of my latch-lock proper without its cap, Fig. 2 in the normal condition of the lock and Fig. 3 with the latch retracted and stopped back. Fig. 4 is a partly-sectioned elevation of my safety-cylinder in place upon the door. Fig. 5 shows a portion of the lock-case and the latch, the knob and the follower detached therefrom. Fig. 6 is a partly-sectioned view of the entire device in place upon the door.

A may represent a portion of a door.

B is my safety-cylinder proper, having a flat or other non-circular tongue, C, which is capable of rotation by key D in the manner customary with locks of this description, and which, when the parts are all in place upon the door, occupies a cavity, *e*, of corresponding shape and size, in the follower E. The cylinder B is screw-threaded exteriorly to fit a corresponding interiorly-threaded sleeve, F, which may be screwed so far onto the said cylinder as to fit a door of any thickness which has been previously bored to receive it. Spurs *b* on cylinder B occupy indentations in the door and prevent the rotation of the cylinder, and nicks *f* in sleeve F enable it to be screwed in or out by the use of a suitable driver. The safety-cylinder may have affixed to its interior any suitable system or arrangement of wards, of which no specific description is here necessary. Flange *b'* on cylinder and flange *f'* on sleeve F serve to completely close the excavation in the door on both sides and to secure a neat finish.

I may represent the case of my latch-lock proper, and J the cap of same. The oblong slot *i* in case I permits insertion of shank K of knob L, the said knob being so presented for insertion as that its lugs K K' pass easily through the slot, after which it is turned a quarter round, so as to permit its lugs to enter notches *e' e''* in the follower-hub and its shank K to occupy the counterbore *e'''* in said hub, and inasmuch as the vibrations of the follower when in use never reach a quarter-turn from the vertical, the knob-shank is thus securely retained within the case without screws or other extraneous fastening devices other than the cap J of the lock.

M is a vibratable latch-stop, which, by means of knob N, can be made to bear against shoulder *o* on latch O, as seen in Fig. 3, or can be retracted to the position shown in Fig. 2, in which a spur, *m*, upon the stop is brought to rest against a stump, P. The stop M is securely retained to either its effective or its non-effective position by the same spring, Q, which operates the latch.

It is apparent that my latch-lock proper is capable of removal from the door at any time without disturbing the safety device, which latter is separately applied to the door and so formed as to fit a door of any thickness, and when secured in place to completely close the boring or excavation made in the substance of the door for its reception and to make a neat finish which excludes dust.

I claim as new and of my invention—

1. In a latch-lock, the combination, with case I, having oblong slot *i*, of knob L, whose shank K has two diametrically-opposite lugs, *k k'*, follower E, having cavity *e*, notches *e' e''*, and counterbore *e'''*, latch O, spring Q, and cap J, substantially as set forth.

2. In combination, substantially as described, with a latch-lock having notched or indented follower E, the separable safety-cylinder consisting of cylinder proper, B *b b'*, tongue C, and sleeve F *f f'*, substantially as set forth.

In testimony of which invention I hereunto set my hand.

GEORGE VOLL.

Witnesses:
GEORGE H. KNIGHT,
JAS. R. FORAKER.