

H. G. VOIGHT.
LATCH AND LATCH CONNECTING APPARATUS:
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956,005.

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Fig. 1.

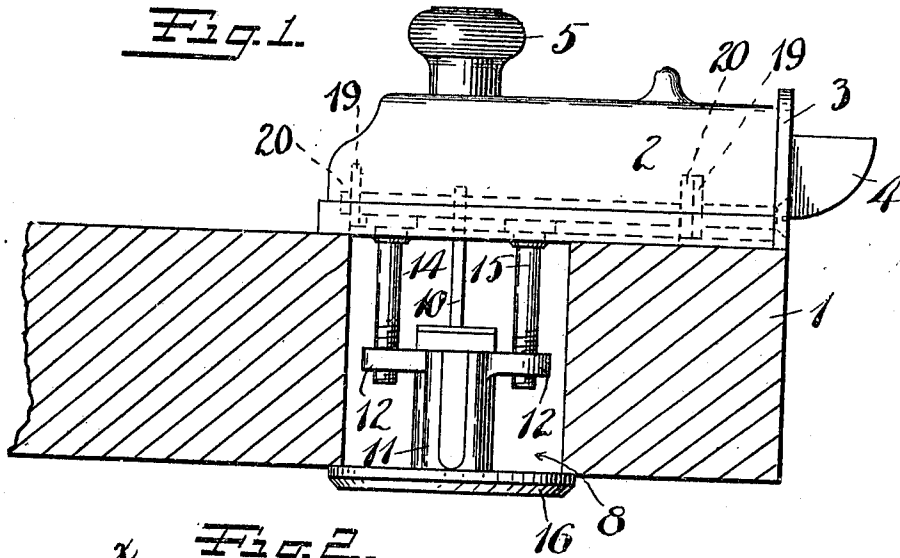


Fig. 2.

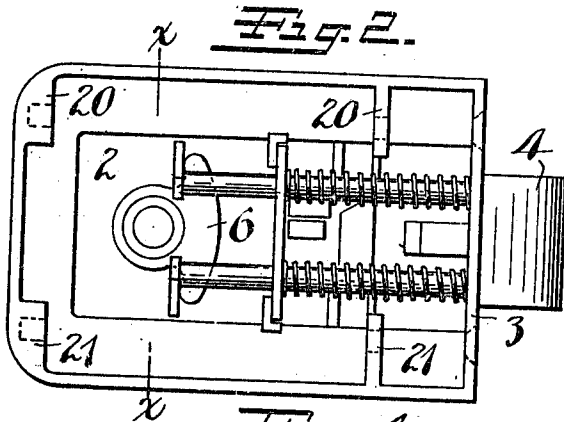


Fig. 3.

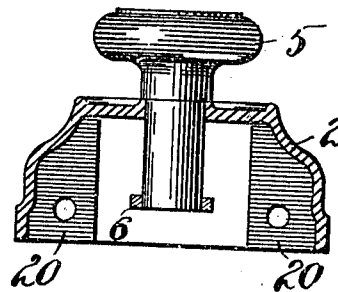


Fig. 4.

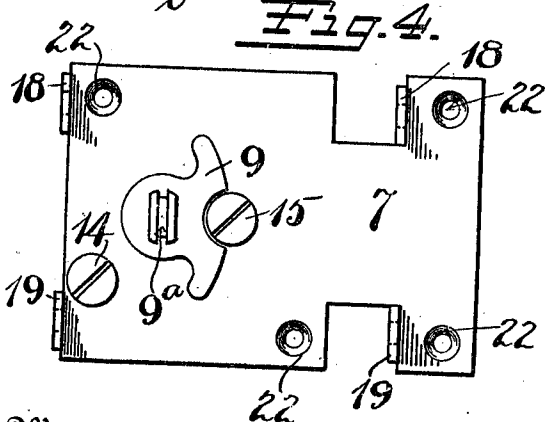
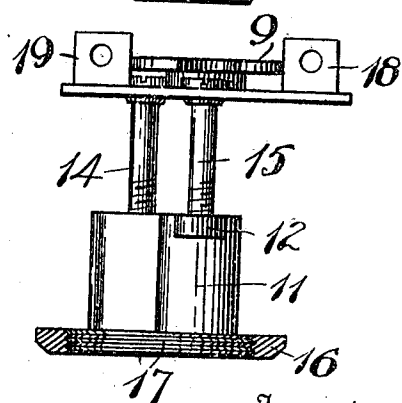


Fig. 5.



Witnesses:
Fred M. Rammer.
A. M. Tract.

Inventor.
H. G. VOIGHT
By his Attorneys
Baker & Gammon & Co.

UNITED STATES PATENT OFFICE.

HENRY G. VOIGHT, OF NEW BRITAIN, CONNECTICUT, ASSIGNOR TO RUSSELL & ERWIN MANUFACTURING COMPANY, OF NEW BRITAIN, CONNECTICUT, A CORPORATION OF CONNECTICUT.

LATCH AND LATCH-CONNECTING APPARATUS.

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Patented Apr. 26, 1910.

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To all whom it may concern:

Be it known that I, HENRY G. VOIGHT, a citizen of the United States, residing at New Britain, county of Hartford, State of Connecticut, have invented certain new and useful Improvements in Latches and Latch-Connecting Apparatus, of which the following is a full, clear, and exact description.

My invention relates to improvements in so-called night latches, the object being to improve and simplify the construction.

Figure 1 is a plan view of my invention as applied to a door, a portion of the door being shown in section; Fig. 2 is a view of the inside of the lock removed from the door; Fig. 3 is a section of Fig. 2 on the line *x-x*; Fig. 4 is a view of the outer side of the foundation plate to which the lock is secured when applied to the door; Fig. 5 is a view of various parts before the latch itself has been applied, said view being at right angles to the same parts as shown in Fig. 1.

1 represents a portion of a door having a transverse passage near its front edge for the purpose hereinafter described.

2 represents the main frame or cover of a lock. 3 is the face-plate thereof.

4 is the latch-bolt.

5 is a knob.

6 is a roll-back controlled by the knob 5 and by which the latch-bolt 4 may be retracted from the inner side of a door, the knob 5 being located at said inner side.

The particular construction of the latch mechanism is immaterial since this invention relates mainly to the means and method of securing the complete lock in position on a door. This connecting means comprises what I shall term a foundation plate 7, which is arranged to rest against the inner surface of the door and cover the transverse passage above referred to, said transverse passage being indicated at 8 (Fig. 1). 9 is a roll-back carried by the foundation plate 7 and arranged to be operated by a key, or other suitable means, from the outer side of the door. In the particular form shown herein, the roll-back 9 has a suitable bearing on the foundation plate 7 and is provided with a passage 9^a arranged to receive a flat spindle 10, which latter is carried by the plug of a cylinder lock 11. 12-12 are laterally off-set arms having screw-passages

arranged to receive screws 14-15 which pass through the foundation plate 7 and project into the passage 8. 16 is a ring or flange preferably detached from the outer end of the cylinder lock, said parts being provided with a screw-threaded connection as the threaded portion 17, shown in Fig. 5, indicates. This threaded portion 17 is preferably slightly smaller than the passage 8 for the purpose hereinafter described. The foundation plate 7 has lugs 18-18, 19-19, which project at right angles relatively thereto and are arranged to stand within the case 2 of the lock when the parts are assembled. The case 2 has internal lugs 20-20, 21-21, arranged to respectively cooperate with the lugs 19-19 and 18-18. Through these lugs are registering passages through which long screws may be passed from the forward side of the face-plate 3, by which screws the lock case 2 is held to the foundation plate 7. One of these screws is indicated in dotted lines in Fig. 1.

In assembling, the foundation plate 7 may be secured to the inner surface of the door by ordinary wood screws arranged to pass through the screw holes 22, but prior to applying said plate to the door, the cylinder lock may be connected thereto by the screws 14-15. By removing the flange ring 16 from the threaded support 17 at the outer end of the cylinder lock, the said cylinder lock may be passed freely through the passage 8, following which the foundation plate 7 may be secured in place. By then applying the ring flange 16 and turning the screws 14-15, the cylinder lock may be clamped tightly in place, the diameter of the flange 16 being such as to overstand the edge of the passage 8. Following this, the lock case 2 may be applied to the foundation plate.

By this arrangement, the application of these locks is materially expedited, since no difficulty is encountered in inserting the flat spindle 10 in the opening 9^a of the roll-back 9, or in connecting the screws 14 and 15 to the lugs 12-12. Were it not for this arrangement, much delay and difficulty would attend the proper engagement of said parts since the limited space afforded by the opening 8 affords neither light nor room for doing this work. So too, by this arrangement the latch may be applied to doors of varying thickness.

What I claim is:

1. In a latch, a latch case, a separable foundation plate therefor, a cylinder lock, a roll-back carried by said foundation plate, means for adjustably connecting said cylinder lock with said roll-back, means for adjustably connecting said cylinder lock with said foundation plate, said foundation plate being arranged to rest against one surface of a door and a flange on the outer end of said cylinder lock removable therefrom and arranged to rest against the opposite side of said door around the opening in which said cylinder lock stands.
2. In a latch, a latch case, a separable foundation plate therefor, a cylinder lock, a roll-back carried by said foundation plate, means for adjustably connecting said cylinder lock with said roll-back, means for adjustably connecting said cylinder lock with said foundation plate, said foundation plate being arranged to rest against one surface of a door, and a removable flange on said cylinder lock arranged to rest against the opposite side of said door around the opening in which said lock stands, said flange being connected to said lock by a screw thread.
3. In a latch, a case, a separable founda-

tion plate therefor, a cylinder lock, a knob carried by said case, a roll-back for said knob, a cylinder lock carried by said foundation plate, a roll-back for said cylinder lock, an adjustable connection between said cylinder lock and said last mentioned roll-back, means for adjustably connecting said cylinder lock to said foundation plate, including a screw connecting said parts, a flange carried by said cylinder lock and a screw-threaded connection between said flange and lock whereby said parts may be separated.

4. In a latch, a case, a separable foundation plate therefor, a cylinder lock, a knob carried by said case, a roll-back for said knob, a cylinder lock carried by said foundation plate, a roll-back for said cylinder lock, an adjustable connection between said cylinder lock and said last mentioned roll-back, means for adjustably connecting said cylinder lock to said foundation plate, including a screw connecting said parts, a ring-like removable flange carried by said cylinder lock.

HENRY G. VOIGHT.

Witnesses:

M. S. WIARD,
HARRY E. MILES.