

H. G. VOIGHT.
NIGHT LATCH CONSTRUCTION.
APPLICATION FILED NOV. 16, 1909.

953,075.

Patented Mar. 29, 1910.

2 SHEETS—SHEET 1.

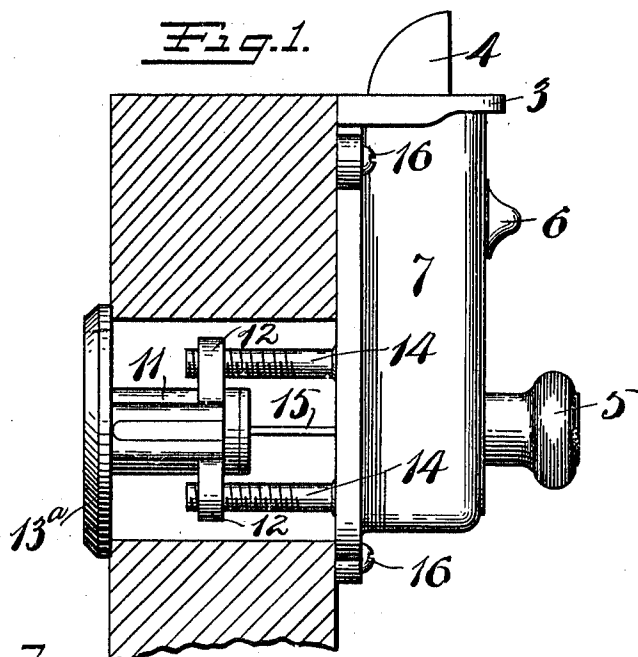


Fig. 2.

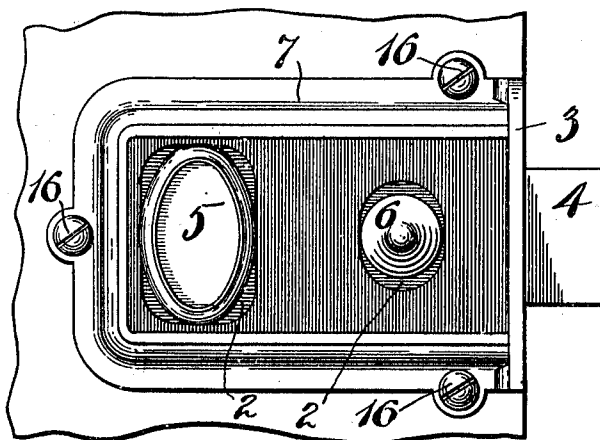


Fig. 3.

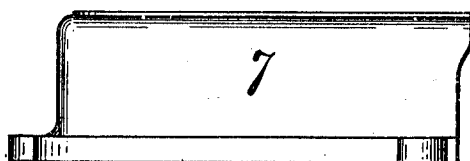
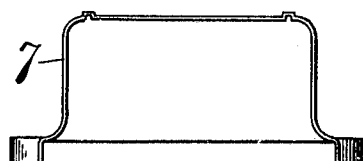


Fig. 4.



Witnesses:
Charles Reed
Ida M. Hungken

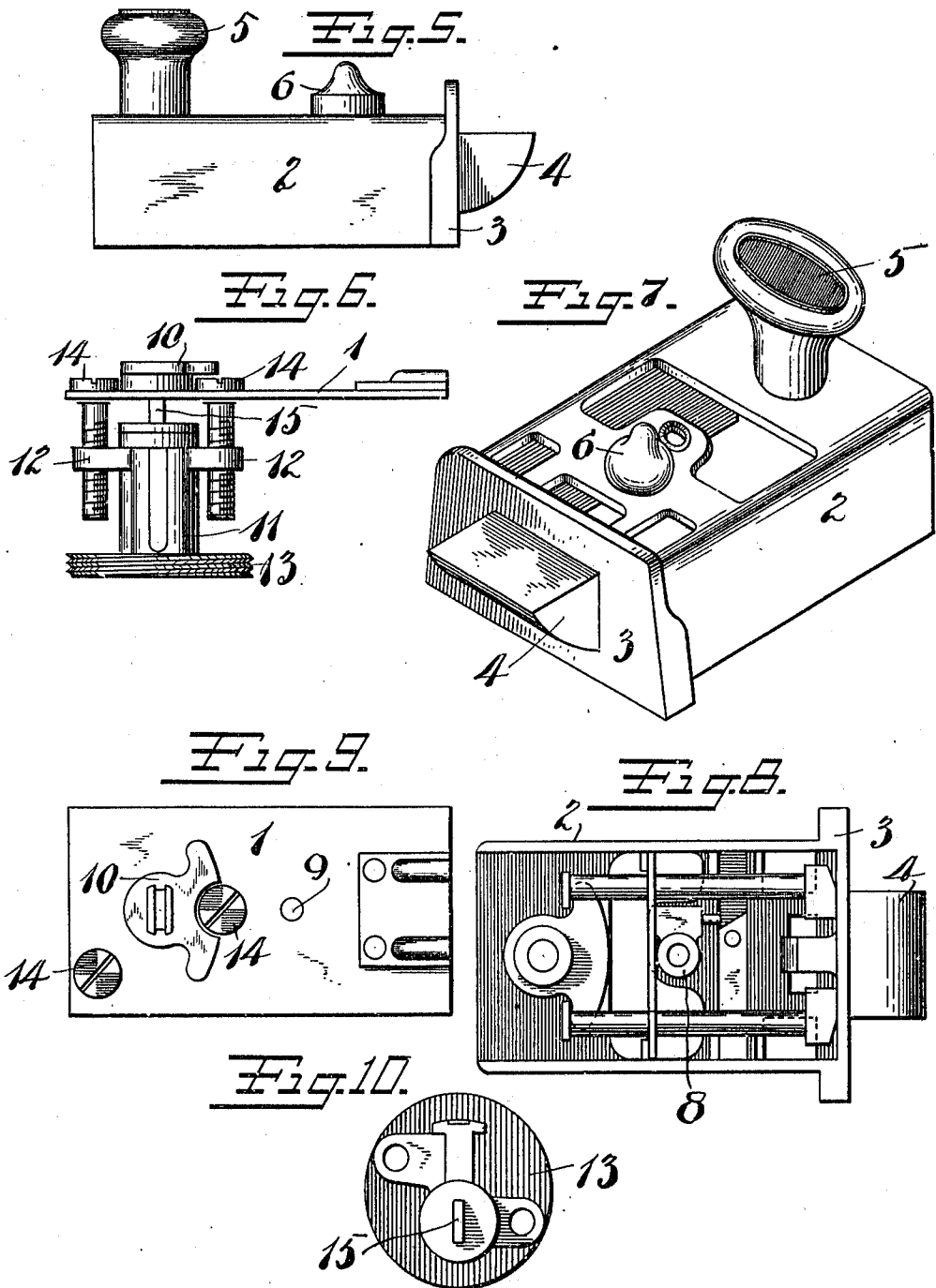
Inventor
H.G. VOIGHT
By *L. S. Attorneys*
Barth & Co. New York

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2 SHEETS—SHEET 2.



Witnesses:
Charles R. R. R.
John M. H. H.

Inventor
H. G. VOIGHT
By *his Attorneys*
Robert B. B. B.

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.

NIGHT-LATCH CONSTRUCTION.

953,075.

Specification of Letters Patent.

Patented Mar. 29, 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 Night-Latch Construction, of which the following is a full, clear, and exact description.

My invention relates to improvements in locks and latches and particularly to a so-called night latch mechanism, the object being to improve the construction of such a device in a number of respects as hereinafter more fully pointed out.

In the drawings, Figure 1 is an edge view of my invention as applied to a door, the portion of the door being in section. Fig. 2 is a front view of the latch mechanism in position on a door. Fig. 3 is a side elevation of a detail. Fig. 4 is a front edge elevation of the detail shown in Fig. 3. Fig. 5 is a side elevation of a part of the latch frame. Fig. 6 is a side elevation of other details. Fig. 7 is a perspective view of the latch frame with the internal parts removed. Fig. 8 is a view of the under side of the main body of the latch frame, showing the arrangement of the internal parts. Fig. 9 is a view of the base plate of the latch frame. Fig. 10 is a view of the inner end of a pin cylinder lock such as employed with the latch mechanism.

Roughly speaking, the purpose of this invention is to obtain economies hitherto unobtainable; to permit certain internal parts to be standardized whereby the same may be used with a great variety of external finishing plates or covers of any desired design; to combine a structure which as a whole may be applied to a door in such a manner as to be held thereto with the greatest security.

In the drawings, 1 represents what I will term a foundation plate, which is arranged to be fixedly secured to the inner side of a door.

2 represents what I will term a skeleton frame.

3 is the face plate carried by the skeleton frame 2.

4 is the latch bolt.

5 is a knob.

6 is a thumb piece such as provided for stop work, so-called, by which the latch may be "dogged".

It will be unnecessary for me to describe

at length the latch mechanism employed for the retraction of the latch bolt 4 since any suitable mechanism may be provided. This latch mechanism is suitably mounted within the skeleton frame 2 and the knob 5 and thumb piece 6 are likewise mounted therein.

7 is an ornamental cap or scalp which may be of any desired design and which is placed over the skeleton frame 2 so as to cover the same and give to the lock the desired ornamental appearance. Each scalp 7 may be made from sheet metal and since the said scalp constitutes no working part, it is obvious that any desired design may be adopted. The scalp has a passage in its upper face to afford clearance for the knob 5 and it likewise has another passage to afford clearance for the thumb piece 6 when the latter is provided. That part of the skeleton frame 2 just below these clearance passages in the scalp is so designed as to close the opening that would otherwise be present, producing a sort of panel effect. By this arrangement it will be seen that each latch may be made up complete, save for its external ornamental appearance. This permits the manufacturer to manufacture a standard design so far as concerns the latch mechanism, modifying only the scalp for the purpose of providing different ornamentation. The skeleton frame 2 may be secured in any desired manner to the foundation plate 1, it being preferable to have said parts snugly fitted. As a final binder, a screw may be passed down through a boss 8, said screw being arranged to take into a threaded opening 9 in the foundation plate.

10 is a roll-back carried by the foundation plate and arranged to be operated by a key-controlled mechanism at the outer side of the door; in this case, the key-controlled mechanism comprises a pin tumbler construction in which 11 represents a pin tumbler lock having offset ears 12—12 and a threaded flange 13.

14—14 are screws passing through the foundation plate 1 and taking into threaded openings in the bosses 12—12.

13^a is a ring-like flanged extension, the same being threaded on the threaded edge of the flange 13.

15 is a spindle connecting the key-controlled mechanism with the roll-back 10.

In assembling the lock, it is preferable to first secure the cylinder lock to the founda-

tion plate. When this is done, the ring 13^a is removed; the cylinder lock is passed through an opening in the door, as shown in Fig. 1, and the plate 1 is secured to the door by ordinary wood screws. By adjusting the screws 14, the outer end of the cylinder lock, viz., the flange 13, may be adjusted to the right position relatively to the surface of the outside of the door. The flanged extension 13^a may then be applied. By setting up the screws 14, the cylinder lock may be clamped tightly in place; the ring-like extension 13^a being clamped tightly against the door around the opening in which the cylinder lock stands. The skeleton frame 2 is then applied, and, finally, the scalp 7 is applied, the same being passed freely over the knob 5 and button 6, and being secured in place by means of wood screws 16, as shown in Fig. 2.

What I claim is:

1. In a night latch, a frame for supporting the mechanism thereof, a knob and latch mechanism carried thereby, a scalp plate adapted to said frame, said scalp plate having a clearance passage for said knob and covering said latch mechanism.

2. In a night latch, a frame for support-

ing the mechanism thereof, a knob carried thereby, a scalp plate adapted to said frame, said scalp plate having a clearance passage for said knob, that part of the frame surrounding the base of the knob operating in conjunction with the base of the knob to close said clearance passage.

3. In a night latch, a frame for supporting the mechanism thereof, a knob carried thereby, a scalp plate adapted to said frame, said scalp plate having a clearance passage for said knob, means for holding the case in place on a door, and separate means for holding said scalp in place.

4. In a night latch, a frame for supporting the latch mechanism, a plurality of latch mechanism operating and controlling devices carried by said frame and projecting therefrom, a scalp covering for said frame, said scalp covering having clearance for said operating and controlling mechanism, and means to close said clearance passages when the parts are assembled.

HENRY G. VOIGHT.

Witnesses:

M. S. WIARD,
H. S. PARKER.