

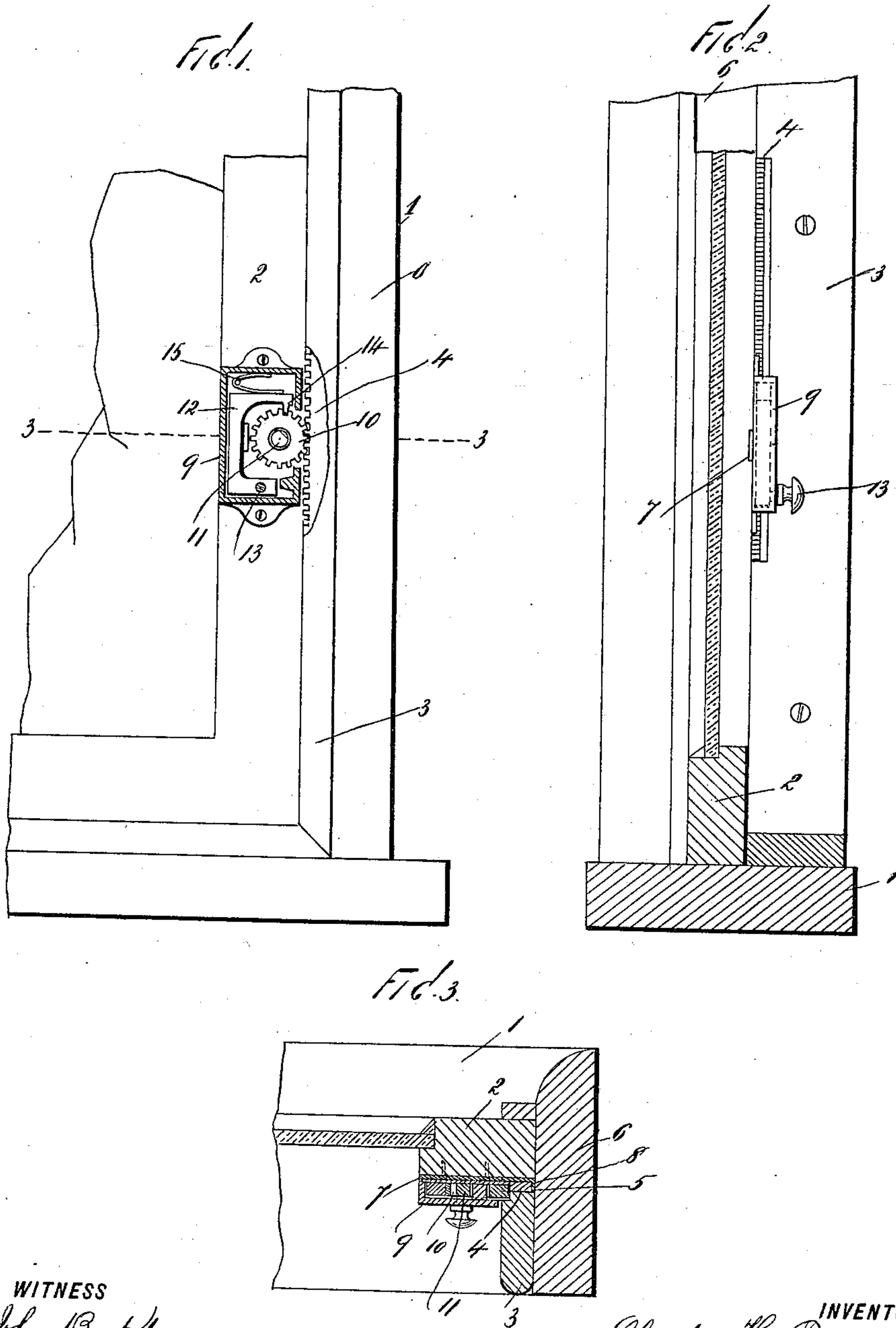
No. 610,369.

Patented Sept. 6, 1898.

C. H. RAYMOND.
SASH FASTENER.

(Application filed Dec. 17, 1897.)

(No Model.)



WITNESS
John Buckler,
L. W. Fuller

INVENTOR
Charles H. Raymond,
BY
Edgar Tate & Co.
ATTORNEYS

UNITED STATES PATENT OFFICE.

CHARLES H. RAYMOND, OF NEW HAVEN, CONNECTICUT.

SASH-FASTENER.

SPECIFICATION forming part of Letters Patent No. 610,369, dated September 6, 1898.

Application filed December 17, 1897. Serial No. 662,298. (No model.)

To all whom it may concern:

Be it known that I, CHARLES H. RAYMOND, a citizen of the United States, residing at New Haven, in the county of New Haven and State of Connecticut, have invented certain new and useful Improvements in Sash-Locks, of which the following is a full and complete specification, such as will enable those skilled in the art to which it appertains to make and use the same.

The sash-lock forming the subject of this invention is chiefly intended for car-windows, although not restricted to such use, and has for its object to provide a readily-operated device for holding and locking a sash at any point within its limit of movement.

The invention consists in the features of construction and combinations of parts hereinafter fully described and specifically claimed.

The invention is fully disclosed in the following specification, of which the accompanying drawings form a part, in which the separate parts of my improvement are designated by the same numerals of reference in each of the views, and in which—

Figure 1 is a front elevation, partly in section, of a portion of a window frame and sash provided with this improvement. Fig. 2 is a vertical section showing an end elevation of the sash-lock, and Fig. 3 is a horizontal section on the line 3 3 of Fig. 1.

This sash-lock consists of a rack and a rotatable toothed wheel intermeshing therewith and having a spring-actuated detent for holding it against rotation. The parts are interchangeable—that is to say, the rack can be secured to the sash or window-frame, and likewise the rotatable toothed wheel, so that when the detent is out of engagement therewith the sash is free to move, but is locked when the wheel is held by the detent.

In the drawings forming part of this specification the rack is shown as applied to the sash and the wheel to the frame and will now be described.

1 indicates the window-frame, and 2 a sash sliding therein, 3 being the inner stop. On the inner face of the inner stop a rack-bar 4 is fastened, being set into the same so that it is flush therewith. The rack-bar is narrower than the stop 3 to form a groove 5 between the outer side of bar 4 and the frame-

piece 6. The sash 2 is provided with a plate 7, set into the same to be flush therewith, but provided with a bent outer end or lug 8, situated within the groove 5 to preserve and insure the proper relative positions of the sash and rack-bar, it being noted that otherwise, by reason of shrinkage of the sash, the locking device carried thereby might be taken out of engagement with said rack-bar.

The locking device consists of a casing 9, fastened to the side rail of the sash and having a rotatable toothed wheel 10 projecting from one side thereof and intermeshing with the rack-bar 4, said wheel being loose upon a stud 11, projecting from the side plate of the casing. Within the casing is a spring-actuated detent 12, operated by a handle 13 from the outside. The detent consists of a frame sliding in suitable guides, with a tooth 14 at one end to engage the wheel, while a spring 15 forces the tooth into engagement. The handle is attached to the other end and extends through a slot in the plate.

It is seen that by retracting the tooth 14 the sash is free to slide, since the wheel rotates. When the sash is adjusted, the detent is released, and its tooth, holding the wheel against rotation, prevents the sliding of the sash and effectually locks the same.

Having fully described my invention, I claim as new and desire to secure by Letters Patent—

The combination with the frame having a rack-bar secured to the inner face of the inner stop, of a sliding sash having a plate provided with a lug or projection engaging the rear edge of said bar, a casing having a rotatable toothed wheel intermeshing with said toothed rack, a sliding detent having a tooth to engage said wheel, a spring pressing said tooth into engagement with the wheel, and a handle secured to the detent and extending through a slot in the plate of the casing, substantially as set forth.

In testimony that I claim the foregoing as my invention I have signed my name, in presence of the subscribing witnesses, this 14th day of December, 1897.

CHAS. H. RAYMOND.

Witnesses:

EDWD. E. MIX,

ROBERT I. COUCH.