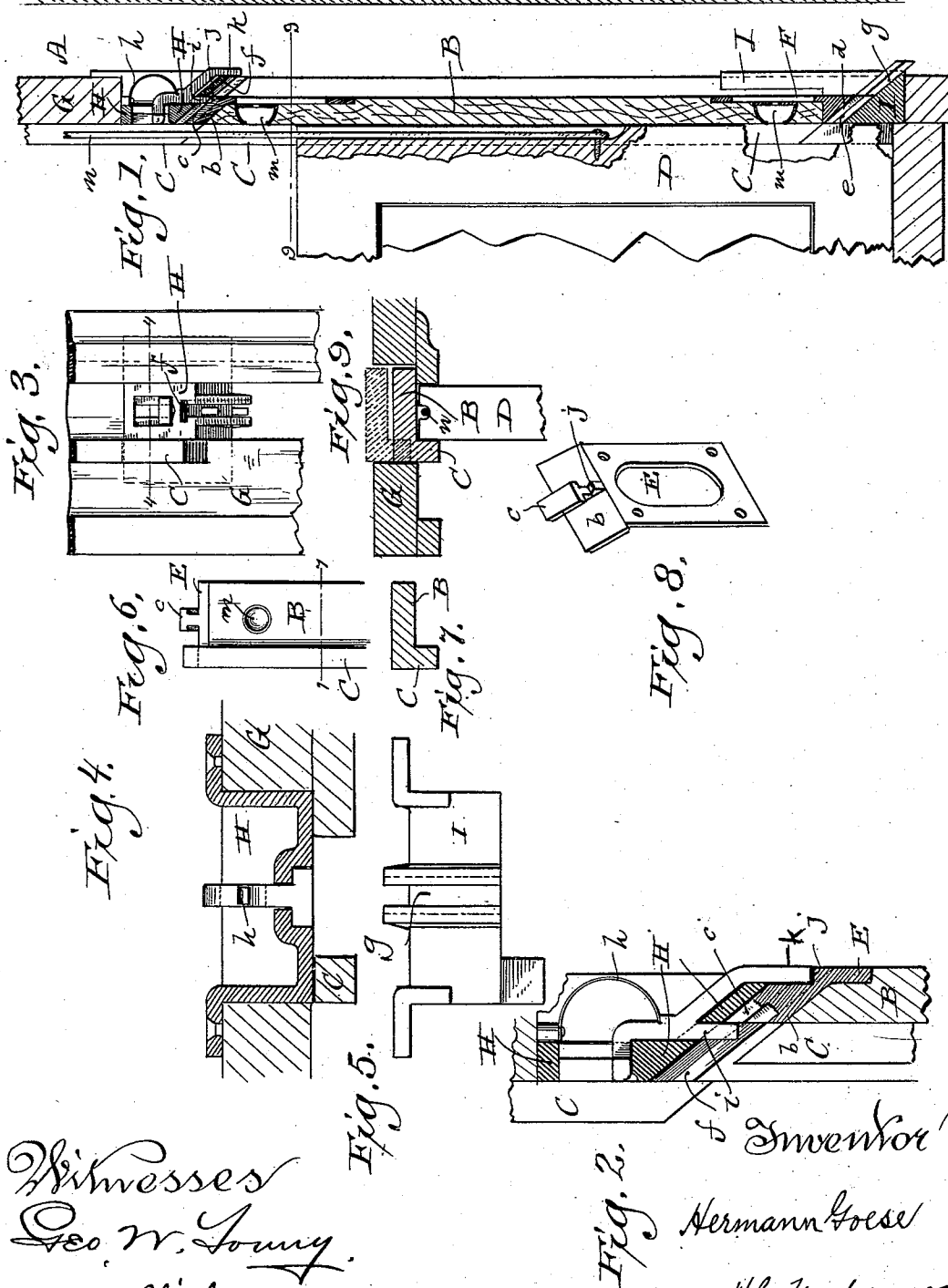


(No Model.)

H. GOESE.
WINDOW FRAME.

No. 472,757.

Patented Apr. 12, 1892.



Witnesses
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UNITED STATES PATENT OFFICE.

HERMANN GOESE, OF MILWAUKEE, WISCONSIN.

WINDOW-FRAME.

SPECIFICATION forming part of Letters Patent No. 472,757, dated April 12, 1892.

Application filed October 2, 1891. Serial No. 407,554. (No model.)

To all whom it may concern:

Be it known that I, HERMANN GOESE, a citizen of the United States, and a resident of Milwaukee, in the county of Milwaukee, and in the State of Wisconsin, have invented certain new and useful Improvements in Window-Frames; and I do hereby declare that the following is a full, clear, and exact description thereof.

My invention has for its object to provide a window-frame from which the sash may be removed without the removal of the finish-strips or parting-rail; and it therefore consists in certain peculiarities of construction and combinations of parts to be hereinafter described with reference to the accompanying drawings and subsequently claimed.

In the drawings, Figure 1 represents a vertical transverse section of a portion of a window-frame embodying my invention; Fig. 2, a detail elevation, partly in section, illustrating a locking mechanism for that portion of the frame that may be disengaged from the remainder for the purpose of removing the sash, this movable portion being shown out of its normal position; Fig. 3, a rear elevation illustrating said locking mechanism; Fig. 4, a horizontal section taken on line 4 4 of the preceding figure; Fig. 5, a plan view of a guide that constitutes part of my invention; Fig. 6, an elevation of a portion of the removable part of the window-frame; Fig. 7, a horizontal section on line 7 7 of the preceding figure; Fig. 8, a perspective view of a portion of the locking mechanism, and Fig. 9 a horizontal section on line 9 9 of Fig. 1.

Referring by letter to the drawings, A represents one side of an ordinary window-frame, provided with the usual removable section B; but in such a window-frame this section thereof is usually independent of the parting-rail C and generally of less length than a sash D, it being only designed as a closure for an opening of sufficient dimensions to permit of the placing of a sash-weight. Therefore to remove a sash from a finished and painted window-frame it requires that at least one of the finish-strips and the parting-rail be displaced, and if a sash-weight is to be reached the removable section of said window-frame has to be pried loose, all of which tends to deface the wood-work.

To overcome the disadvantages just enumerated, I employ the following construction: The removable section B above described is given a length equal to or greater than that of the sash D, and a like length of the parting-rail C is made fast to this removable section or integral therewith, as best shown in Figs. 7 and 9. A casting E, having a beveled top face *b* and a notched tongue *c* centrally disposed on this face, is fitted to the upper end of the frame-section B, and another casting F, having a beveled bottom edge *d* and a centrally-disposed tongue *e*, is fitted to the lower end of said frame-section, the tongue on each casting being at an angle corresponding to that of the adjacent beveled face or edge.

Fitted to the pulley-piece G of the window-frame are castings H I, respectively opposed to the ones E F on the removable part B, the latter being virtually a continuation of said pulley-piece. The casting H is provided with a grooved lug *f*, that serves as a guide for the notched tongue *c* on the casting E at the upper end of the frame-section B, and the casting I is also provided with a grooved lug *g*, that serves as a guide for the tongue *e* on the casting F at the bottom of said frame-section. In addition to the guide-lug *f* the casting H is provided with guides for a vertically-disposed sliding latch that is preferably under the control of a bow-spring *h*, secured at one end to said casting and having its other end impinged against the latch. A prong *i* of the latch extends through a suitable opening in the casting H to engage with the notch *j* in the tongue *c* on the casting E, that is fitted on the upper end of the frame-section B, and said latch is preferably provided with another prong *k*, also designed to engage with the notch in said tongue.

In the normal position of the parts the frame-section B is held flush with the pulley-piece G by the latch-prong *i*, as illustrated in Fig. 1; but if said frame-section is pushed back the latch-prong *k* comes into play to limit its movement, as shown in Fig. 2; but if this frame-section is to be taken out the latch is raised far enough to have the latter prong thereof clear the tongue *c* on the casting E.

To facilitate the handling of the frame-section

tion B, I provide the same with one or more finger-sockets *m* on its outer side, as is best shown in Figs. 1 and 6.

By lifting the spring-controlled latch and pushing back the frame-section B enough clearance is obtained, as shown in Fig. 9, to swing out the sash D if the latter be hung on cords *n*, that connect with sash-weights, (not shown,) or to permit of the taking away of said sash if not so hung. In either event the sash may be cleaned on both sides by the operator within the building to which it belongs, it being understood that either the swinging or taking away of said sash is permissible, because a portion of the parting-rail C having a length equal to or greater than the aforesaid sash is moved back out of the way, this portion of said parting-rail being in one piece with or rigidly secured to the frame-section B, as above described.

To get at a sash-weight the section B and that portion of the parting-rail C virtually in one piece therewith are removed from the window-frame, and as either the moving back or entire removal of said frame-section and accompanying portion of said parting-rail can be easily effected without the aid of tools the advantages of my invention will be readily appreciated.

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

1. In a window-frame, a side thereof provided with an opening, a closure for the opening, tongue-and-groove castings connecting the extremities of said opening with those of the closure, and suitable means for locking said closure in either a normal or retracted position, substantially as set forth.

2. In a window-frame, a side thereof pro-

vided with an opening, a closure for the opening, tongue-and-groove castings connecting the extremities of said openings with those of the closure, and a spring-controlled latch that engages one of the closure-castings when said closure is in either a normal or retracted position, substantially as set forth.

3. In a window-frame, a side thereof provided with an opening, grooved castings secured to the frame at the extremities of the opening, a closure for the opening, tongue-castings secured to the ends of the closure for engagement with the grooved castings aforesaid, and a sliding latch for engagement with one of the tongue-castings, substantially as set forth.

4. In a window-frame, a side thereof provided with an opening, castings secured to the frame at the extremities of the opening and provided with grooved lugs, a closure for the opening, carrying a portion of the relative parting-rail, castings secured to the ends of the closure and provided with tongues for engagement with the grooved lugs on the former castings, one of these tongues being notched, and a vertically-disposed sliding latch having a prong for engagement with the notched tongue on said closure when the latter is in its normal position, and another prong that engages said notched tongue when the aforesaid closure is moved back to give clearance for a sash, substantially as set forth.

In testimony that I claim the foregoing I have hereunto set my hand, at Milwaukee, in the county of Milwaukee and State of Wisconsin, in the presence of two witnesses.

HERMANN GOESE.

Witnesses:

N. E. OLIPHANT,

WM. KLUG.