

Aug. 7, 1951

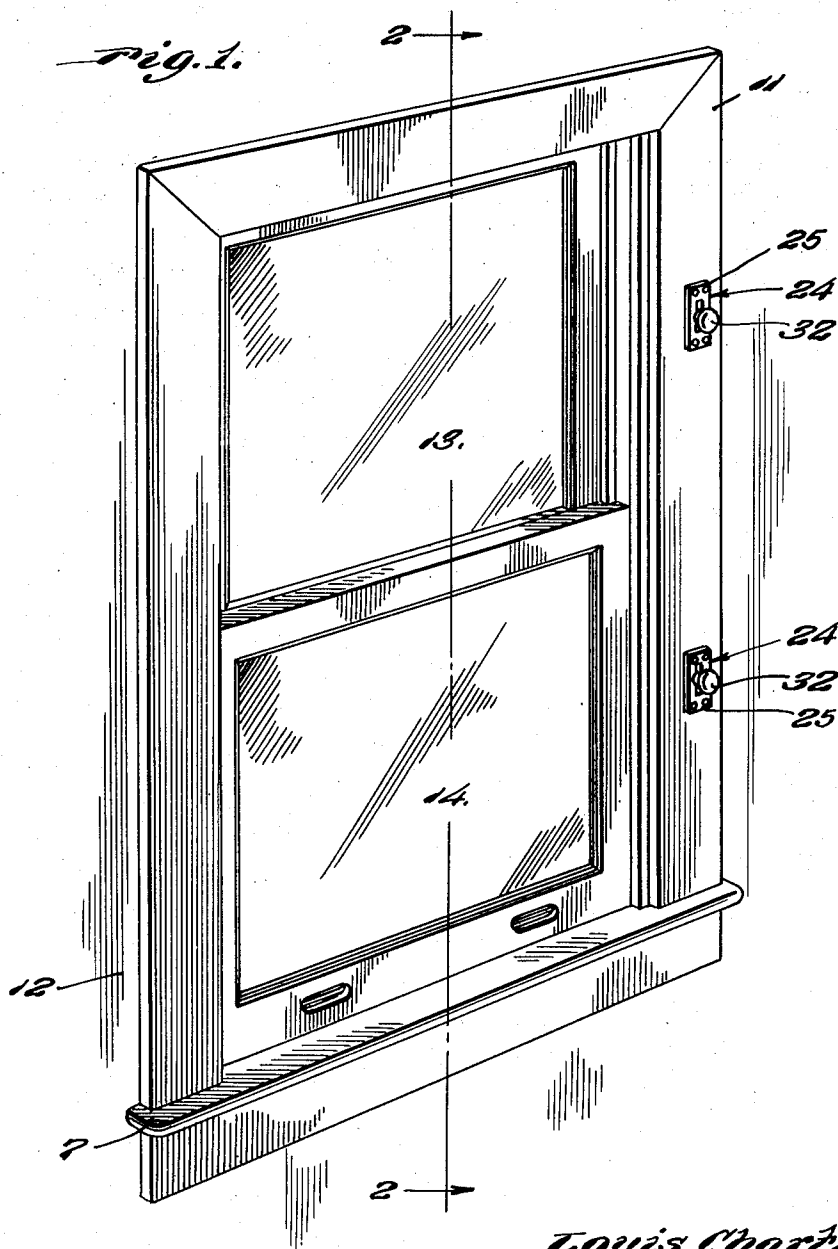
L. CHARTIER

2,563,003

WINDOW

Filed Aug. 9, 1946

4 Sheets-Sheet 1



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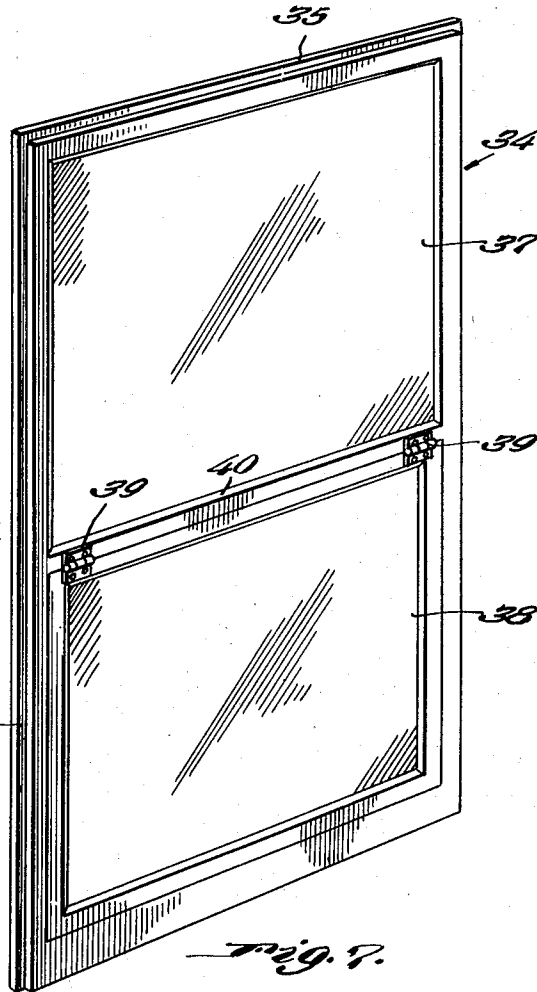
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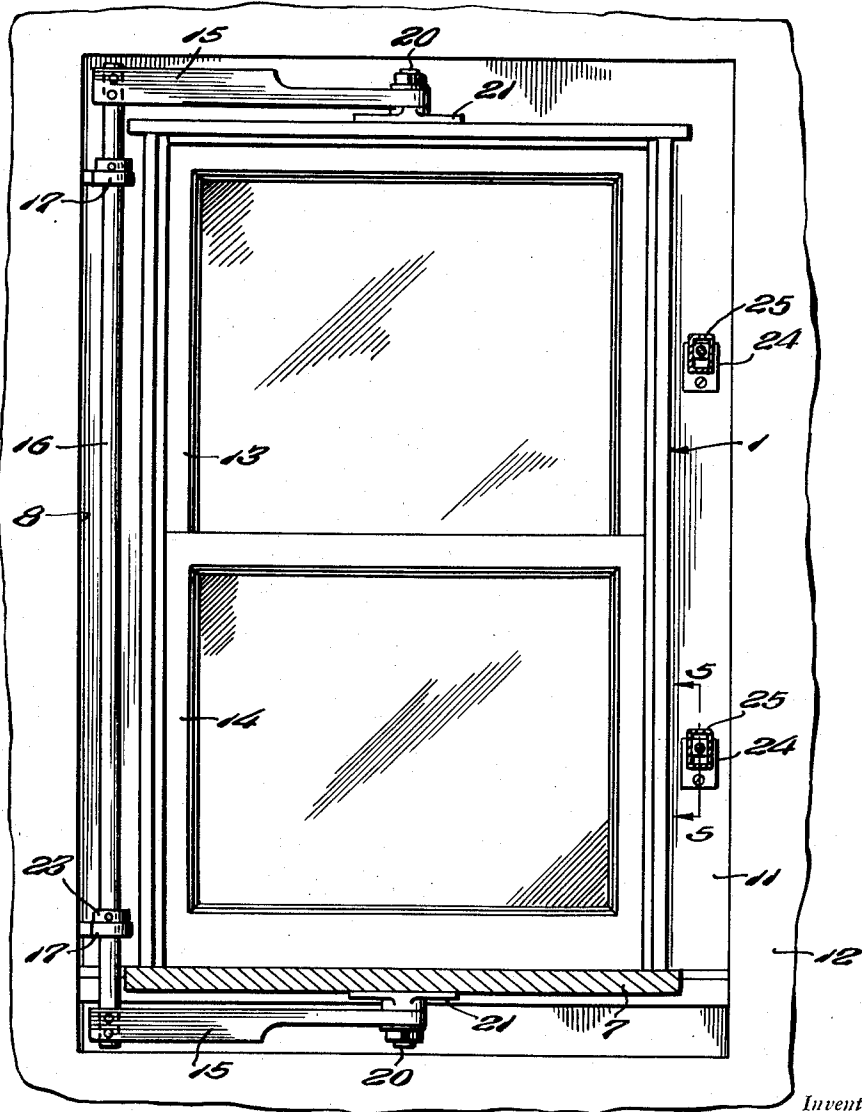
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Fig. 3.



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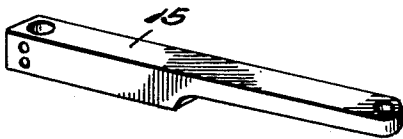


Fig. 8.

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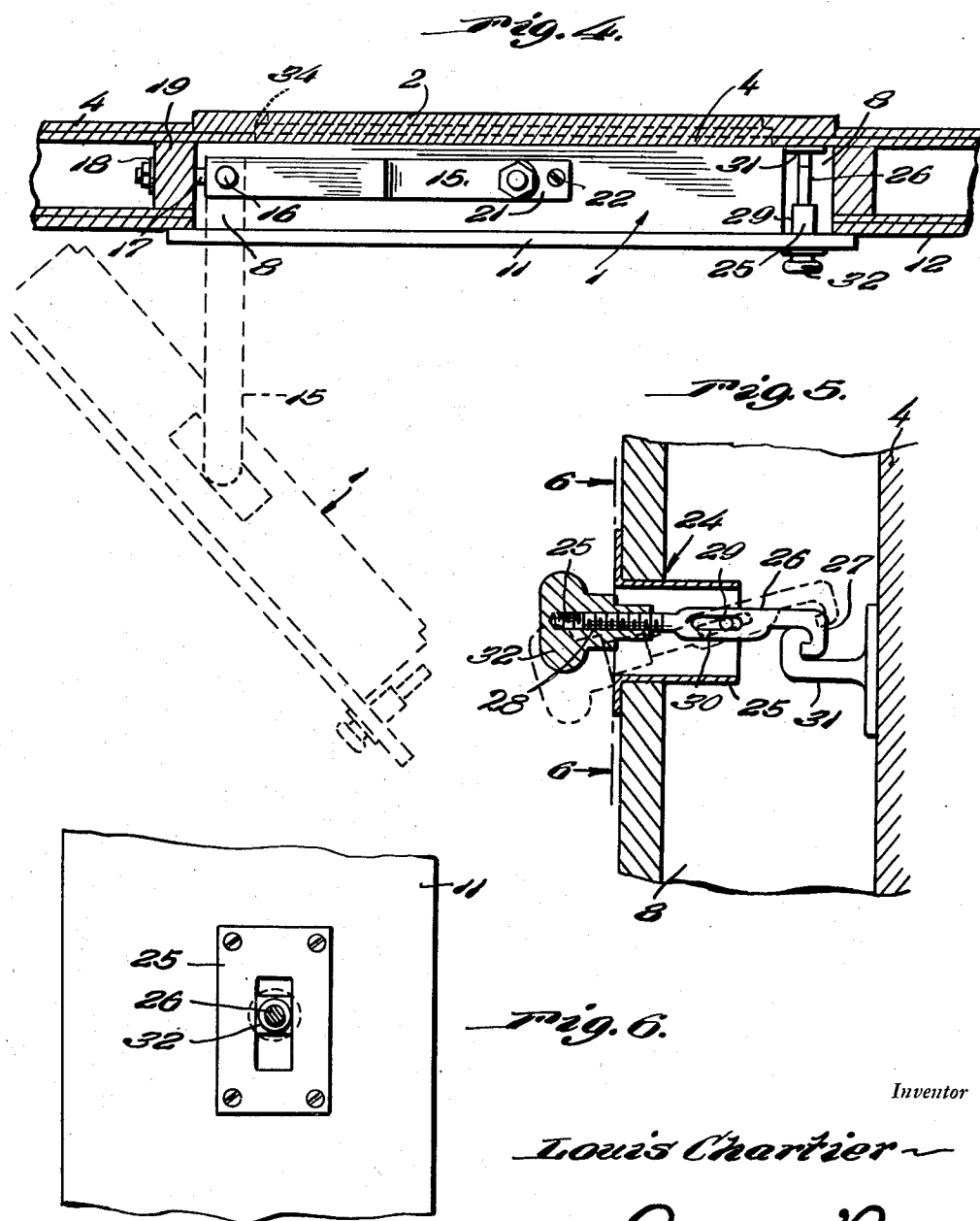
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4 Sheets-Sheet 4



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UNITED STATES PATENT OFFICE

2,563,003

WINDOW

Louis Chartier, Schenectady, N. Y.

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2 Claims. (Cl. 20—51)

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My invention relates to improvements in windows for dwelling and the like.

The invention is designed with the objects in view of providing the usual window frame with an outside storm or screen sash removable and replaceable from the inside of the room without raising or lowering the window sashes, or removing the same from the frame, and providing for access to the outside of the window sashes from the inside of the room, to the end that the storm or screen sashes may be quickly installed, interchanged or cleaned, and the window panes may be quickly and easily cleaned or replaced, all from the inside of the room, the advantage of which will be manifest.

Another object is to accomplish the above without rendering the window structure complicated or expensive to install and manufacture.

Other and subordinate objects, also comprehended by my invention, together with the precise nature of my improvements will be readily understood when the succeeding description and claims are read with reference to the drawings, accompanying and forming part of this specification.

In said drawings:

Figure 1 is a view in perspective of a window embodying my improvements and viewed from the inside of a room.

Figure 2 is a view in vertical section taken on a line 2—2 of Figure 1 and drawn to a larger scale.

Figure 3 is a view in vertical section taken on a line 3—3 of Figure 2 and drawn to a smaller scale.

Figure 4 is a view in horizontal section taken on a line 4—4 of Figure 2.

Figure 5 is a view in vertical section taken on a line 5—5 of Figure 3 and drawn to a much larger scale.

Figure 6 is a view in vertical section taken on a line 6—6 of Figure 5.

Figure 7 is a view in perspective of the storm sash, and

Figure 8 is a view in perspective of one of the supporting arms.

Referring to the drawings by numerals according to my invention, the outside trim of the usual window frame is detached from said frame 1 and the top and side strips 2, 3 forming such trim are attached, as by nails, not shown, to the usual sheathing 4 of the building.

The window sill of the window frame 1 is cut, as at 5 to provide outside and inside sill sections 6, 7 interlapping, with the outside section 6

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suitably fixed in the usual opening 8 for the window frame 1 and bridging the lower ends of the side trim strips 3 as usual, whereas, the inner sill sections 7, together with the sides 9 and top 10 of the window frame 1, forms a complete window frame movable out of the opening 8 inwardly of a room and carrying the usual inside trim 11.

As best shown in Figure 2, the described window frame 1 may be moved into the opening 8 to align the outer edges of the sides 9 and top 10 with the inner sides of the top and side, outer, trim strips 2, 3, the inner edges of which overlap said outer edges of sides 9 and top 10 of the window frame 1, in this normal position of said frame. Also, in the inwardly moved, normal, position of said frame 1, the inside trim 11 fits flat against the inside of the wall 12 in which the opening 8 is formed.

The usual counterbalanced top and bottom sashes 13, 14 are mounted in the window frame for raising and lowering in the usual manner, counterbalancing means not being shown since the same forms, per se, no part of my invention.

A swingable mounting for the window frame 1 is provided comprising a pair of upper and lower, horizontal arms 15 suitably fixed at the ends thereof on a vertical shaft 16 mounted in the opening 8 at one side thereof in a pair of upper and lower bearing members 17 fixed by nuts 18 in one of the usual uprights 19, a pair of which are arranged in the wall 12 to define the sides of the opening 8. The window frame 1 is pivotally mounted on said arms 15, between the same, by a pair of vertical studs 20 having base flanges 21 by means of which, and screws 22, said studs 20 are secured to the window frame in the vertical center thereof, one of said studs 20 being secured on top of the top 10 of said window frame and the other stud 20 being secured to the bottom of the sill section 7. Collars 23 on shaft 16 support said shaft in said bearing members 17.

As will now be seen, the window frame is swingable out of the opening 8, together with the arms 15, about the axis of the shaft 16 into a room, and then swingable about the axis of studs 20 into a position, shown in dotted lines in Figure 4, in which the panes of the window sashes 13, 14 may be readily cleaned both on the outside and within the room, or replaced by a person working in the room.

A pair of latches 24 are provided for latching the window frame 1 in the described normal position in the opening 8, and which are operative

to tighten the inside trims 11 against the wall 12 to form a tight seal around the window.

The latches 24 are arranged at the side of the frame 1 opposite the side upon which the shaft 16 is located.

Each latch 24 is provided with a flanged bushing 25 extending through one side of the inside trim 11 and suitably fixed therein, a latch bolt 26 slidably extended through the bushing 25 with a hooked inner end 27 and a threaded outer end 28, a cross pin 29, in said bushing 25 traversing a slot 30 in the latch bolt 26 and upon which said bolt is endwise slidable and vertically swingable, a hooked keeper 31 suitably fixed in the opening 8 to the sheathing 4 and with which the hooked end 27 may be interlocked by sliding and swinging of the latch bolts 26, and a knob 32 on the threaded end 28 of said latch bolt 26 adapted, when turned in one direction, to engage the bushing 25 and pull the latch bolt 26 outwardly to tighten the hooked end 27 of said latch bolt in the hooked keeper 31.

Reverting now to the outside trim, the top and side trip strips 2, 3 thereof are rabbeted, as at 33, 33', along the inner longitudinal edges thereof, from the inner sides of said strips, and a storm sash 34 is provided with rabbeted top and side edges 35, 36 fitting in the rabbets 33, 33' and adapted to be clamped therein by the outer edge of the window frame 1, when said frame 1 is moved into the opening 8 into the described normal position thereof.

The storm sash 34, preferably, comprises an upper glassed in section 37 and a lower glassed in section 38 hinged, as at 39, to a cross bar 40 of said sash 34, to be swung outwardly for ventilation purposes.

As will be obvious, instead of being glassed in, the storm sash 34 may be screened in by the usual screening, not shown.

As will now be seen, by swinging the window frame 1 out of the opening 8, in the manner described, the storm sash 34 may be installed and removed, inwardly of the opening 8 for cleaning and replacement, while at the same time, the pair of sashes 13, 14 may be swung into a room for cleaning of the panes, or replacement thereof. Also, the sashes 13, 14 may be raised and lowered, as occasion may require, in the usual manner, and when the window frame 1 is swung into the opening 8 and latched therein by the latches 24. To unlatch the window frame 1, it is merely necessary to loosen the knobs 32 on the latch bolts 26 sufficiently to permit said latch bolts to be moved endwise and swung on the pins 29 out of interlocking engagement with the keepers 31.

The foregoing will, it is believed, suffice to impart a clear understanding of my invention, without further explanation.

Manifestly, the invention, as described, is susceptible of modification without departing

from the inventive concept, and right is herein reserved to such modifications as fall within the scope of the appended claims.

What I claim as my invention is:

1. A window for a wall having a window opening therein comprising a sash frame in said opening, trim on said wall on one side of the opening, a storm sash interfitting with said trim and removable therefrom inwardly of said opening, means pivotally mounting said frame in said opening for swinging bodily into and out of said opening into and from clamping engagement with said storm sash respectively, said means being swingable into said opening with said frame, a sill section extending across said opening and fixed therein, a sill section forming a part of said frame and interfitting with the first sill section when the frame is swung into the opening, and trim on said frame closing the other side of said opening around said frame when said means and frame are swung into said opening and concealing said means.

2. A window for a wall having a rectangular opening therein comprising trim on the outer side of said wall overlapping said opening, a sill section extending along the trim at the bottom of the opening above said bottom, a storm sash supported on said sill section and rabbeted into the trim at the top and sides of the opening against removal outwardly of said opening while being removable inwardly of the same; a window frame containing sashes and of substantially the same size as said storm sash for clampingly engaging the top and sides of said storm sash to hold the same in place and having a bottom forming sill section for interfitting with the first mentioned sill section, said frame being spaced from the top, bottom and sides of the opening with the space closed on the outer side of the wall by said trim, means pivotally mounting said frame in said opening for swinging bodily into and out of the same, said means being swingable into said space to swing said window frame into said opening, and trim extending around said window sash and closing said opening on the inner side of the wall when said window frame is swung into said opening whereby to conceal said means.

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