

W. F. HIATT.
WINDOW.
APPLICATION FILED OCT. 27, 1910.

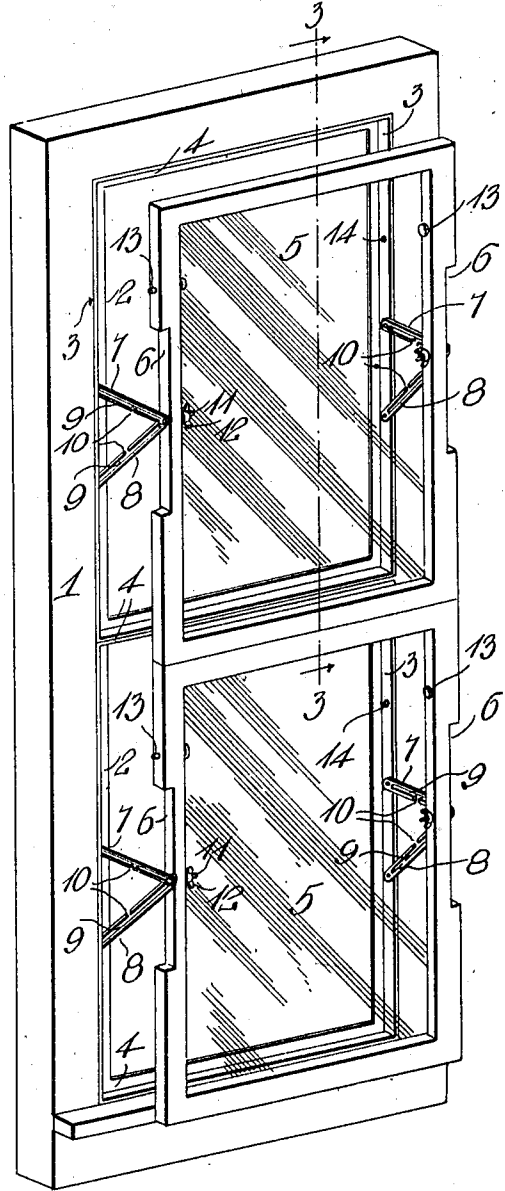
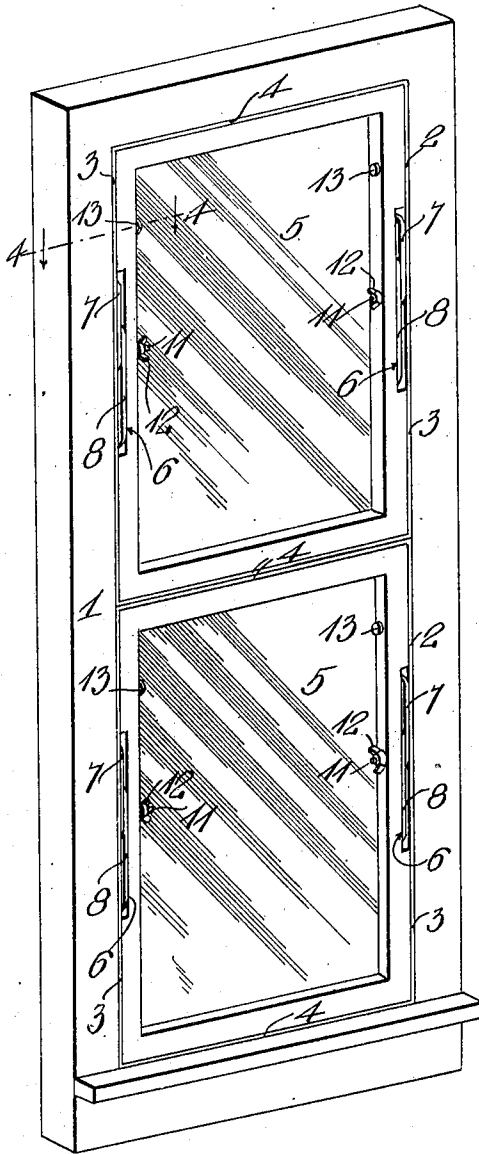
988,778.

Patented Apr. 4, 1911.

2 SHEETS-SHEET 1.

Fig. 1

Fig. 2



Witnesses
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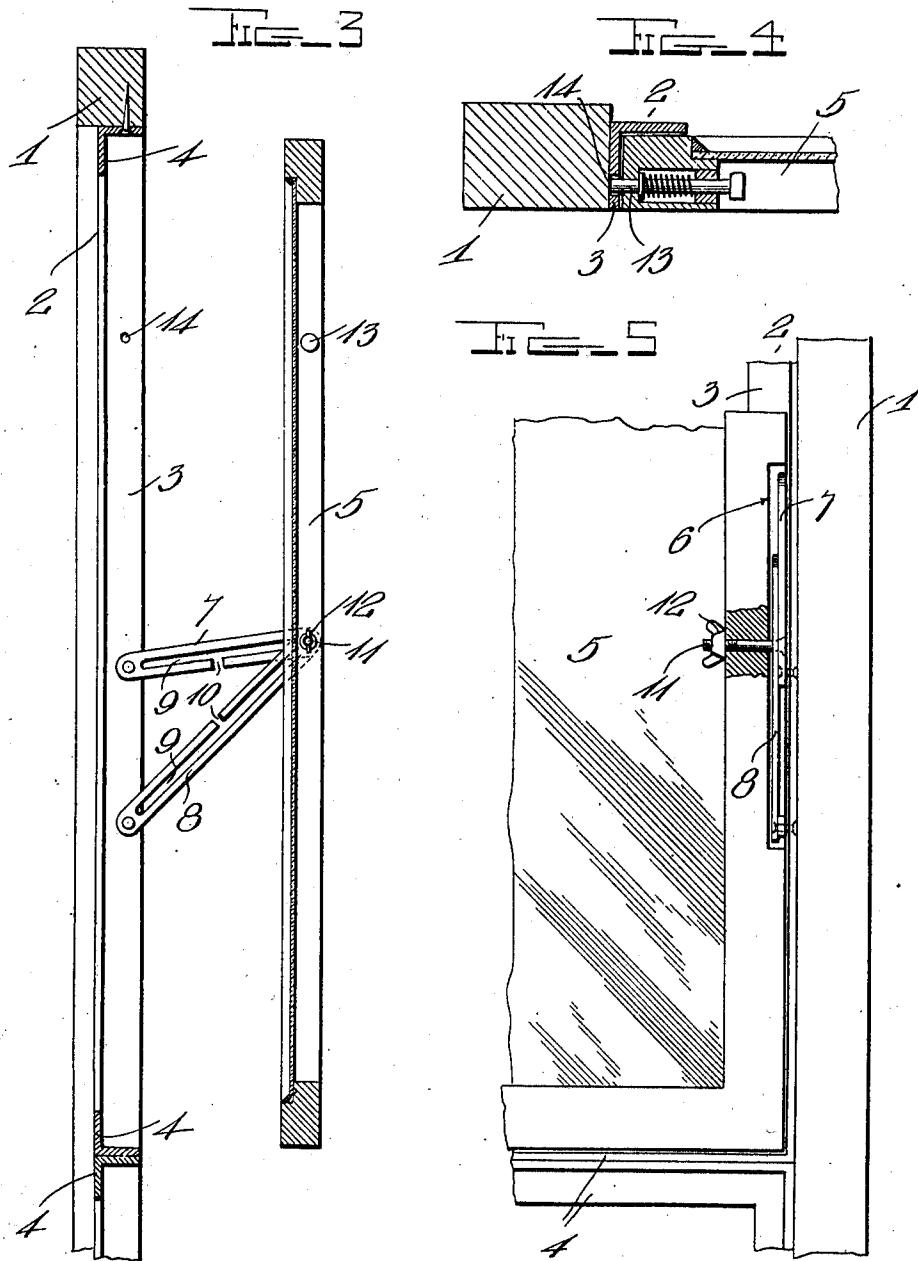
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UNITED STATES PATENT OFFICE.

WILLIAM F. HIATT, OF PITTSBORO, INDIANA.

WINDOW.

988,778.

Specification of Letters Patent.

Patented Apr. 4, 1911.

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To all whom it may concern:

Be it known that I, WILLIAM F. HIATT, a citizen of the United States, residing at Pittsboro, in the county of Hendricks and State of Indiana, have invented certain new and useful Improvements in Windows; and I do declare the following to be a full, clear, and exact description of the invention, such as will enable others skilled in the art to which it appertains to make and use the same.

This invention relates to improvements in windows.

One object of the invention is to provide an improved construction of window sash and supporting mechanism whereby the sash may be readily opened and supported in an open position and whereby when the sash is closed a water and dust tight joint is formed between the sash and its supporting mechanism.

With this and other objects in view the invention consists of certain novel features of construction, combination and arrangement of parts as will be more fully described and particularly pointed out in the appended claims.

In the accompanying drawings; Figure 1 is a perspective view of a window frame illustrating the application of my improved window and sash, the latter being shown in closed position; Fig. 2 is a similar view showing the window in open position; Fig. 3 is a vertical cross section through the upper portion of the window frame and the upper sash, the latter being shown in open position; Fig. 4 is a horizontal sectional view through the frame and window with the sash in closed position; Fig. 5 is a vertical section through the upper portion of one side of the frame and the adjacent portions of the window showing the sash in closed position.

Referring more particularly to the drawing 1 denotes the main window frame in which is arranged my improved construction of window and means whereby the same is supported in an open or closed position. In the embodiment of the invention I provide sash supporting frames 2, one of which is provided for the upper and one for the lower sash of the window. The frames 2 are preferably constructed of angle iron side pieces 3 and top and bottom cross pieces 4. The flanges of the angle iron top, bottom and side pieces are arranged on the

inner edges of said pieces and form stops or seats to receive the sashes when the latter are in closed position.

Adapted to fit into the frames 2 are upper and lower sashes 5 which may be constructed to receive one or more lights of glass as may be desired. The sashes may be formed of wood or other suitable material and in the outer edges of their opposite side pieces midway between the upper ends thereof are formed notches or recesses 6 the purpose of which will be hereinafter described.

Pivotally connected at their inner ends to the inner side pieces 3 of the supporting frames 2 are sash supporting bars 7 and 8, said bars being slotted longitudinally as shown at 9. In one side of the bars 7 and 8 substantially midway between their ends are formed notches 10 which communicate with the slots 9 formed therein, said notches being provided for a purpose hereinafter described. The sashes 5 are pivotally and slidably connected with the slotted bars 7 and 8 by means of clamping bolts 11 which are inserted through the bars and through the side pieces of the frames and have engaged with their threaded inner ends thumb nuts 12 which when screwed up into engagement with the inner edges of the side pieces of the sash will rigidly clamp the bars to the sash. The bars 7 and 8 are arranged in such manner that when the sash is pulled inward to an open position and the clamping nuts tightened up on the bolts the sash will be supported in its open position as clearly shown in Fig. 1 of the drawings. When thus supported in an open position the sash may be tilted to the desired angle. When it is desired to close the sash the clamping nuts are loosened on the bolts and the sash drawn inwardly in which movement the bolts 11 will slide along through the slots 9 in the bars 7 and 8 and said bars will swing inwardly against the inner edges of the side pieces 3 of the supporting arms and will lie in a folded position in the notches or recesses 6 formed in the opposite sides of the sashes.

When the sashes are in closed position the latter are preferably secured by spring projected locking pins 13 arranged in the opposite sides of the sashes 5 preferably near their upper ends as shown. When the sashes are in closed position the pins 13 will be projected into sockets 14 formed in the ad-

jacent side pieces 3 of the frames 2 thus
securely fastening the sashes in closed po-
sition. When it is desired to remove the
sashes for cleaning or repairing, the clamp-
5 ing bolts 11 are disengaged from the slotted
supporting bars 7 and 8 through the notches
10 formed in one side thereof, as will be
readily understood. When the sashes are in
closed position they will fit snugly into the
frames 4 and into engagement with the
flanges of the inner edges thereof thus pro-
viding a water and dust proof joint or
closure between the sashes and the support-
ing frames.

15 From the foregoing description taken in
connection with the accompanying draw-
ings, the construction and operation of the
invention will be readily understood with-
out requiring a more extended explanation.

20 Various changes in the form, proportion
and the minor details of construction may
be resorted to without departing from the
principle or sacrificing any of the advan-
tages of the invention as defined in the ap-
25 pended claims.

Having thus described my invention, what
I claim is:

1. In a window a main frame, angle iron
sash supporting frames arranged therein,
30 sashes adapted to be engaged with said an-
gle iron frames when in closed position, the
flanges on said angle iron frames forming a
water and dust proof joint between the
sashes and said frames, pairs of longitudi-

nally slotted supporting bars pivotally con- 35
nected at their inner ends to said frames, and
clamping bolts arranged in said sashes and
having a sliding pivotal connection with
said slotted bars whereby when the sashes
are in open position the same will be sup- 40
ported by said bars and when in a closed
position, said bars will fold between the
sides of the sashes and the adjacent sides of
the supporting frames.

2. In a window a main frame, angle iron 45
sash supporting frames arranged therein,
sashes adapted to fit in said angle iron
frames when in a closed position, said sashes
having formed in their outer side edges lon-
gitudinal recesses, sash supporting bars piv- 50
otally connected at their inner ends to the
side pieces of the supporting frames, said
bars having formed therein longitudinal
slots and having formed in one side, notches
communicating with said slots, clamping 55
bolts adapted to be inserted through the
slots of said bars and through the adjacent
sides of the window sash, and clamping nuts
arranged on said bolts whereby said support-
ing bars are clamped to the sashes to sup- 60
port the latter in an open position.

In testimony whereof I have hereunto set
my hand in presence of two subscribing wit-
nesses.

WILLIAM F. HIATT.

Witnesses:

JOSEPH G. JONES,
GEORGE STANLEY.