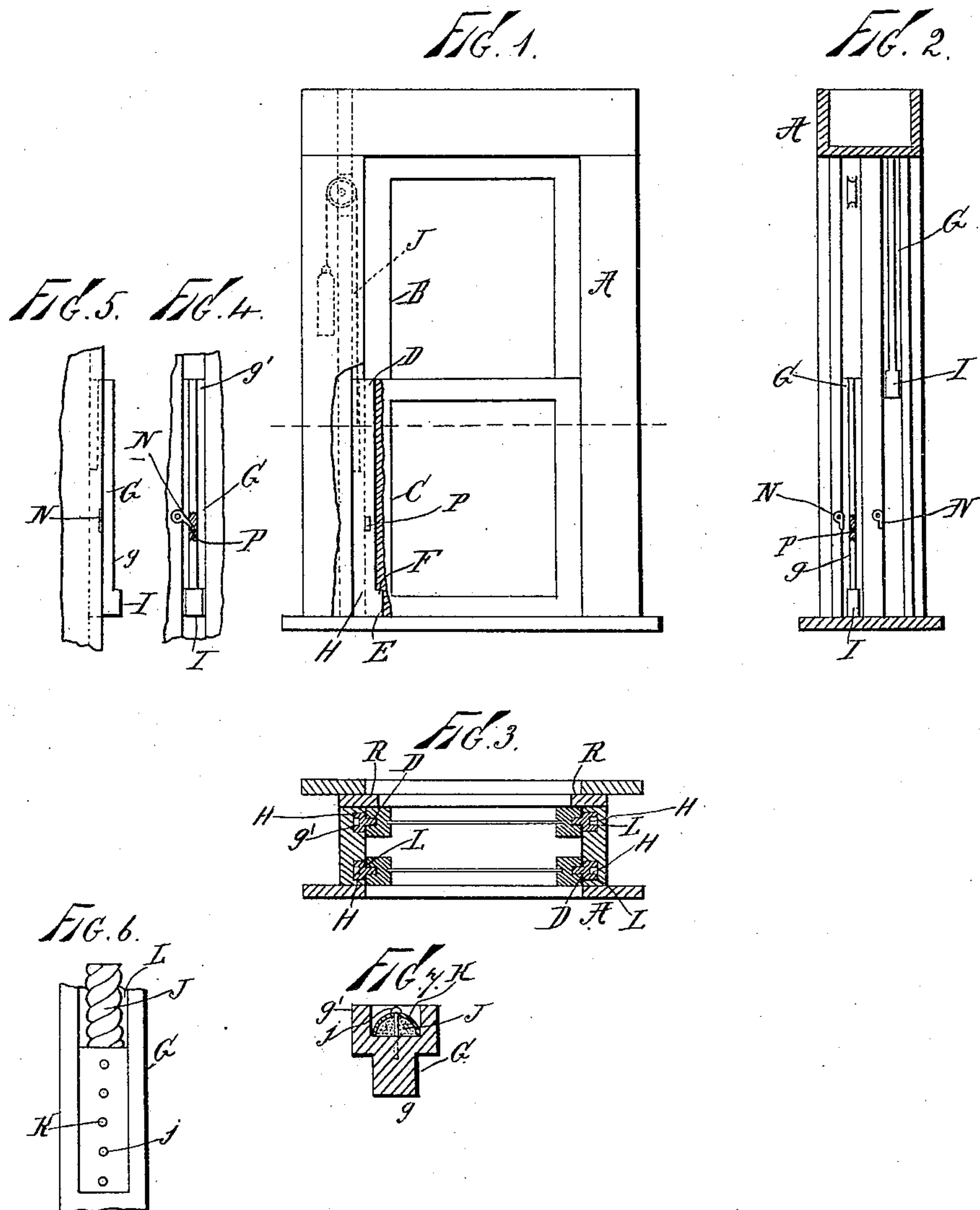


(No Model.)

A. HITT.
WINDOW.

No. 452,409.

Patented May 19, 1891.



Witnesses:
John Buckle,
C. L. Thomas.

A. Hitt, Inventor:
By A. M. Pierce,
Atty.

UNITED STATES PATENT OFFICE.

ADRIAN HITT, OF JERSEY CITY, NEW JERSEY.

WINDOW.

SPECIFICATION forming part of Letters Patent No. 452,409, dated May 19, 1891.

Application filed February 9, 1889. Serial No. 299,272. (No model.)

To all whom it may concern:

Be it known that I, ADRIAN HITT, a citizen of the United States, and a resident of Jersey City, in the county of Hudson and State of New Jersey, have invented certain new and useful Improvements in Windows, of which the following is a specification.

My invention relates especially to means and mechanism employed to support window-sashes in any desired position within the frame, and has for its object the provision of devices whereby the sash or sashes may be quickly and easily removed from the frame without disturbing the sash cords and weights and as easily replaced, my present invention being an improvement upon the window for which Letters Patent No. 373,020 were issued to me November 8, 1887.

To attain the desired end my invention consists, essentially, in the combination, with a sash having a narrow groove the entire length of the side stile and a shoulder at the bottom of said groove, of a fillet having a narrow tongue entering said groove and engaging with the sash and a wide portion or tongue which fits into a groove in the side of the window-frame, a sash-cord attached to said fillet, and an outer rail secured to the window-frame and against which the upper sash bears, all of which will be hereinafter fully described, and then pointed out in the claim.

In the drawings, Figure 1 is an inside elevation and partial section of my improved window. Fig. 2 is a vertical sectional view with the sashes removed. Fig. 3 is a horizontal section at line *xx* of Fig. 1, with the upper sash lowered. Figs. 4 and 5 are detail views. Figs. 6 and 7 illustrate the method of securing the sash-cords to the fillets.

Like letters of reference indicate corresponding parts.

A is the window-frame, made in the usual manner.

B is the upper sash, and C the lower.

D are grooves formed in each side stile, extending the entire length of the sash and each provided at the lower extremity with an indentation E and shoulder F.

G is a fillet, one edge *g* whereof is made narrow and fits into the groove D in the window-sash, and the other edge *g'* is made wide and fits into a groove H in the side of the window-frame, the object in making one edge

of the fillet wider than the other being to prevent the passage of air and dust between the sash and the frame. At the lower extremity of the fillet, projecting inward, is a foot I, which takes under the shoulder F in the side stile of the sash.

J is the sash-cord, which fits into a depression L in the fillet G, and is secured therein by means of a half-round thin metal piece K, having perforations therein, through which the nails *j* are driven, passing through the sash-cord. I have found this method of fastening the sash-cords much more effective and secure than the old methods.

N is a catch secured to the side of the window-frame and normally occupying the position shown in Fig. 2, but which may be brought into engagement with a notch P in the fillet G when it is desired to hold the fillets depressed.

R R are side rails outside the window-frame, against which the upper sash runs, said rails preventing the passage of wind and dust and also the falling out of the sash when the fillets are held down and the sash raised for removal.

In removing the sashes the catches N are first brought into engagement with the fillets at each side of the lower sash, thus holding said fillets down while the sash is raised therefrom and quickly removed. The upper sash is then run down and the fillets secured in like manner, so that then the sash may be lifted therefrom.

What I claim is—

The combination, with the sash having a narrow groove the entire length of the side stile and a shoulder at the bottom of said groove, of a fillet having a narrow tongue entering said groove and engaging with the sash, as set forth, and a wide portion or tongue which fits into a groove in the side of the window-frame, a sash-cord attached to said fillet, and an outer rail secured to the window-frame, against which the upper sash bears, substantially as shown and described.

Signed at New York, in the county of New York and State of New York, this 5th day of February, A. D. 1889.

ADRIAN HITT.

Witnesses:

C. L. THOMAS,
A. M. PIERCE.