

APPLICATION FILED MAY 21, 1908.

2 SHEETS—SHEET 1.



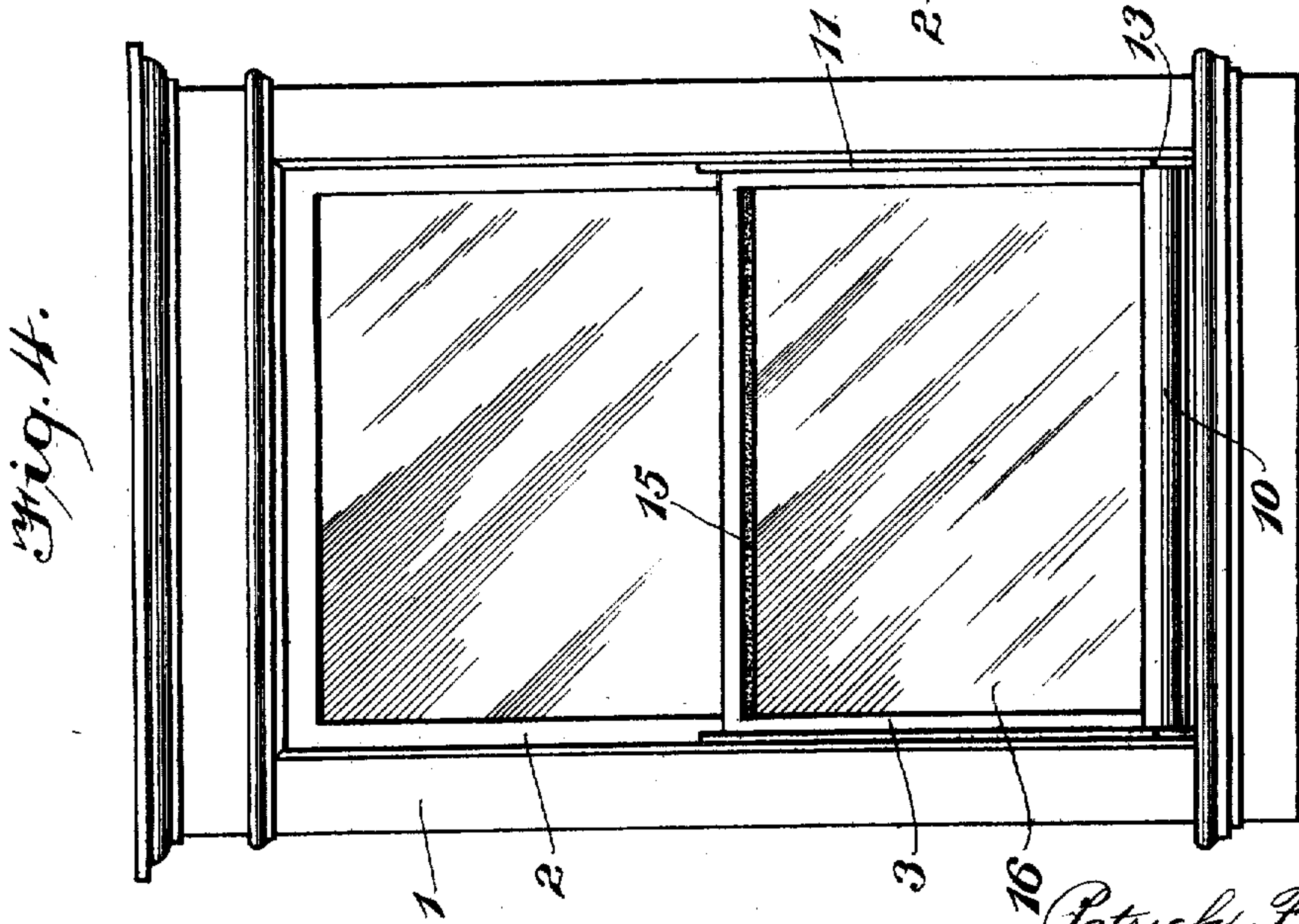
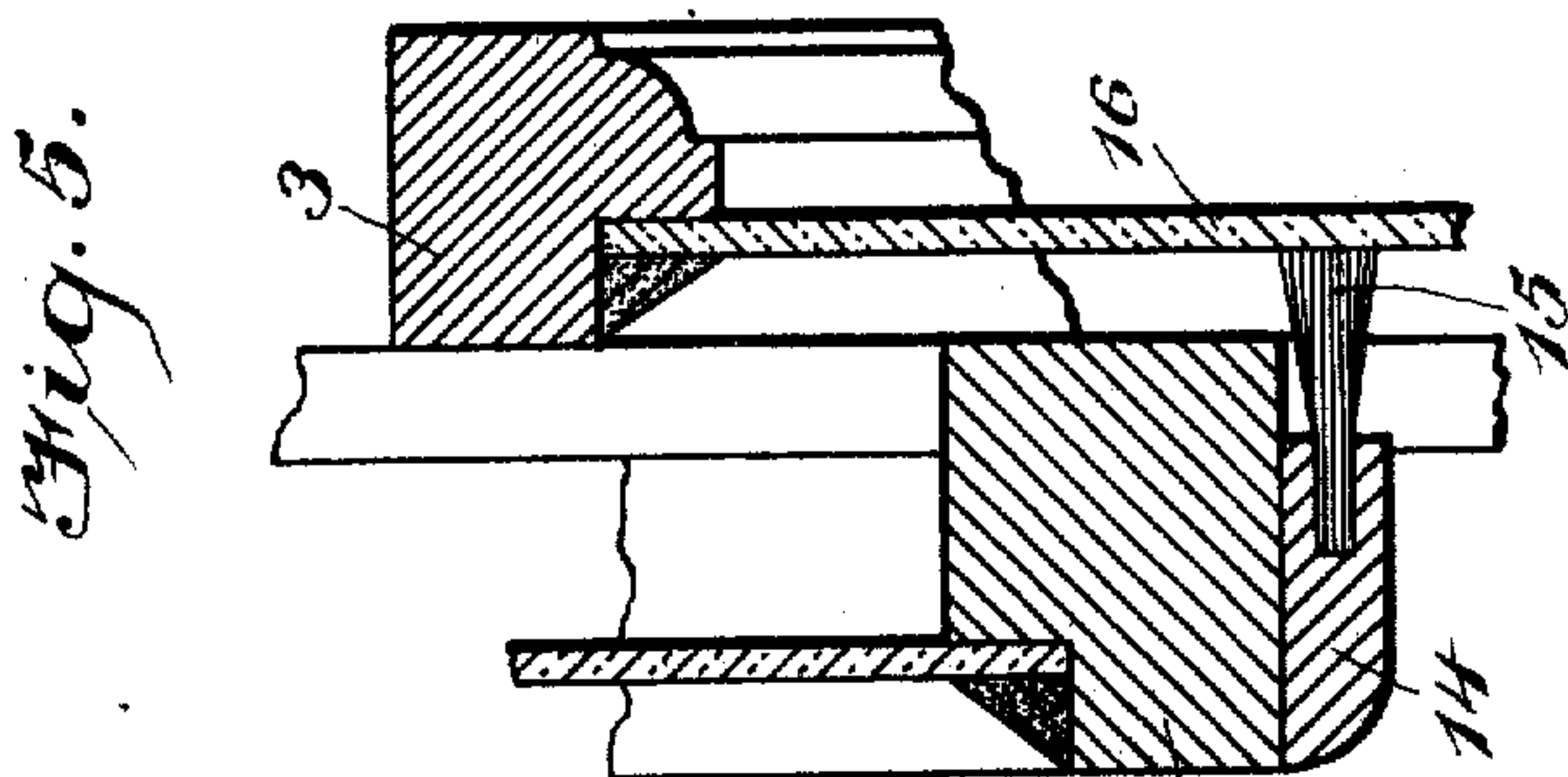
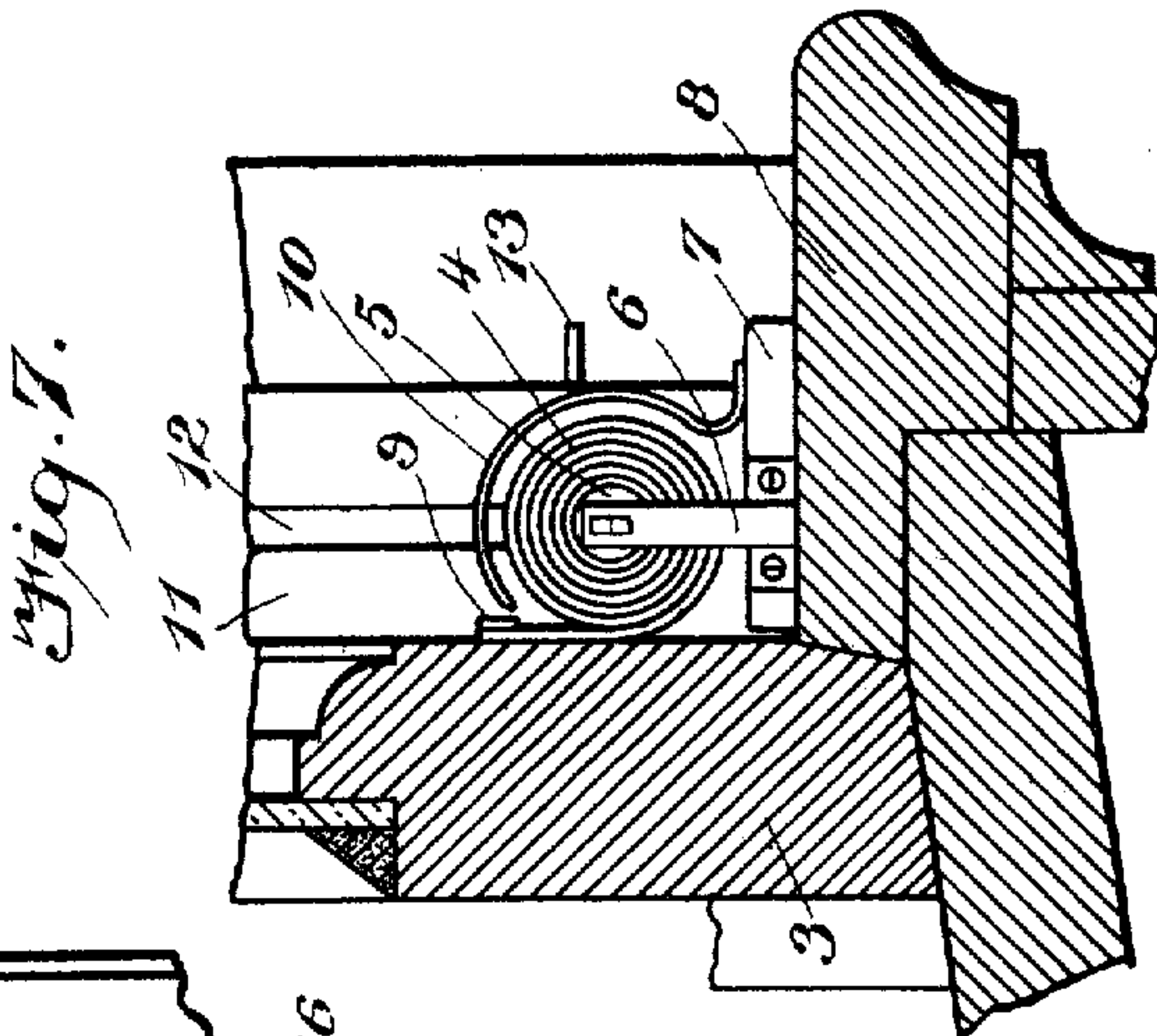
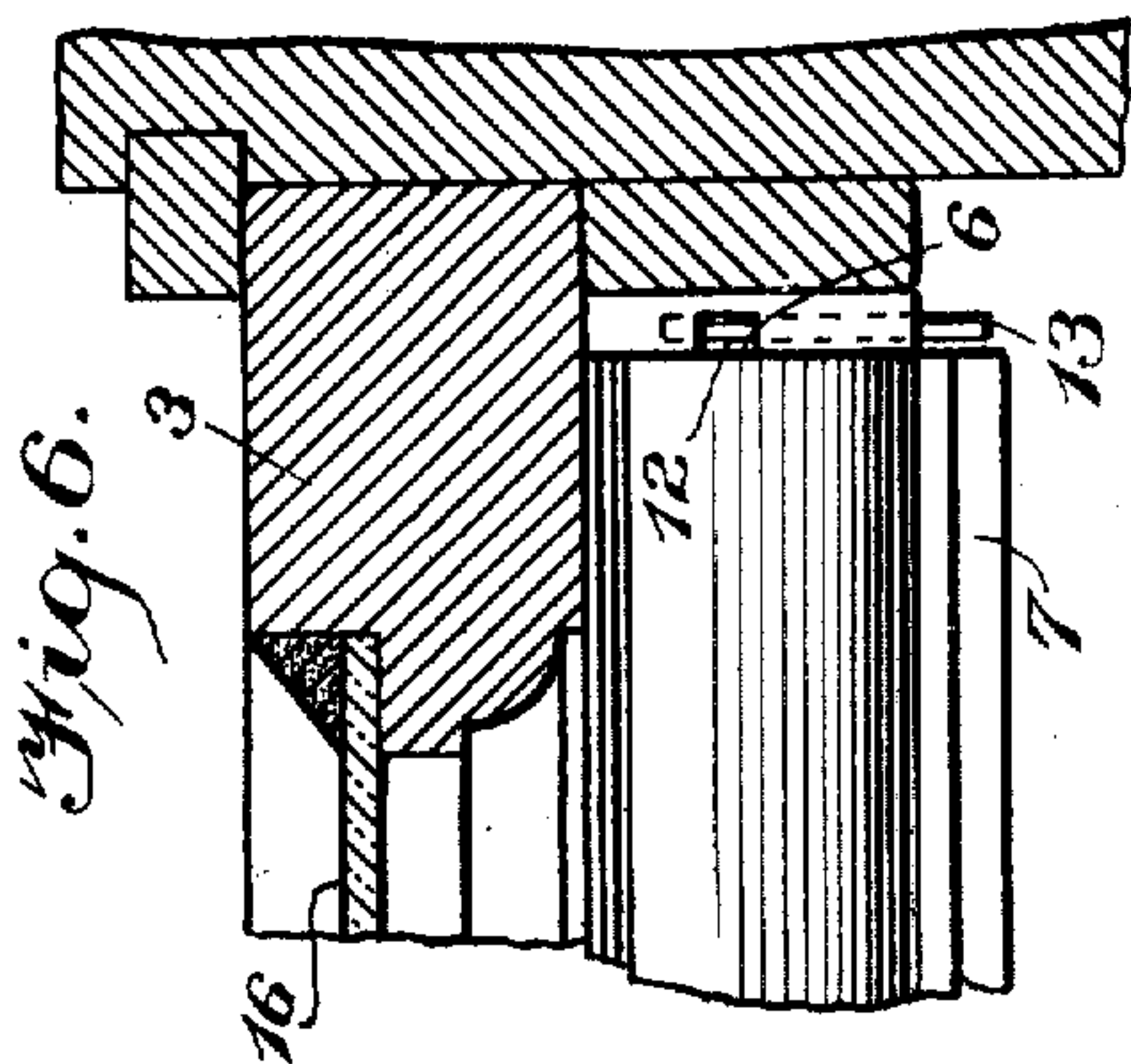
T. P. Brett
E. C. Dwyer

Patrick F. Dowd

C. C. Campbell
Attorney

Attorneys

917,562.



Witnesses

T. P. Britt
E. C. Duffey

Inventor

Patrick F. Dowd

384

E. C. Duffey
 Attorney

UNITED STATES PATENT OFFICE.

PATRICK F. DOWD, OF PORTLAND, OREGON, ASSIGNOR OF ONE-HALF TO EDWARD C. ALLEN,
OF PORTLAND, OREGON.

WINDOW-SCREEN.

No. 917,562.

Specification of Letters Patent.

Patented April 6, 1909.

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To all whom it may concern:

Be it known that I, PATRICK F. DOWD, a citizen of the United States, residing at Portland, in the county of Multnomah and State of Oregon, have invented certain new and useful Improvements in Window - Screens; 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, reference being had to the accompanying drawings, and to the figures of reference marked thereon, which form a part of this specification.

My invention relates to window screens and has for its object to provide a rolling window screen which can be easily and quickly attached to a window and which will effectually prevent the ingress of flies or other insects.

A further object of my invention is to provide a simple means for preventing the ingress of flies or other insects between the window pane of the lower window and the sash of the upper window.

A further object of my invention is to provide a rolling window screen which can be quickly and easily raised in order to allow free passage through the window, as is necessary for washing windows or for passing articles therethrough.

With all these objects in view my invention consists in the novel construction and arrangement of parts all of which will be first fully described and afterward specifically pointed out in the appended claim.

Referring to the accompanying drawings: Figure 1 is an elevation of a window showing my invention in operative position. Fig. 2 is a vertical longitudinal sectional view taken on line 2—2 of Fig. 1. Fig. 3 is a similar view showing rolling screen in raised position. Fig. 4 is an elevation of a window showing bottom sash lowered. Fig. 5 is an enlarged sectional view of the upper portion of the bottom sash and the lower portion of the upper sash. Fig. 6 is an enlarged sectional view showing the guard and guide for the rolling screen, and Fig. 7 is an enlarged sectional view of the rolling screen showing bottom sash in a lowered position.

Like numerals of reference indicate the same parts throughout the several figures in which;

1 indicates a window, 2 the upper sash and 3 the lower sash.

4 indicates the rolling screen which, as shown in Fig. 7, comprises a roller 5 supported on a guide 6 at each end thereof, said roller 5 having a spring therein not shown having normal tendency to rotate the roller 5 to wind the screen 4 thereon. A base 7 is provided to which the guides 6 are secured, said base 7 normally resting on the window sill 8 as clearly shown. The upper or free end of the screen 4 is secured to the lower portion of the lower sash 3 by means of a strip 9 or by any other convenient means, and I provide a guard 10 which is carried on the base 7, said guard being curved as shown in Fig. 7 to protect the screen 4 and which prevents flies or other insects from entering between the screen 4 and base 7.

Along each side of the lower sash 3 and vertically disposed as shown in Figs. 4 and 7 I provide a guiding strip 11, said guiding strip being provided with a longitudinal groove 12 as shown in Fig. 6, said groove 12 accommodating the guides 6 which support the roller 5; and in order to hold said guides in position within the groove 12 in order to maintain the screen in its lowermost position as shown in Fig. 7 I provide a transverse pin 13 which enters the guiding strip 11 above the guides 6, thus preventing movement of the guides 6 within the grooves 12.

Referring now to Fig. 5 it will be seen that under the lower portion of the upper sash 2 I provide a strip 14 carrying a brush 15 which brush extends inwardly beyond the sash 3 and engages the outer surface of the lower window pane 16 as clearly shown.

Having thus fully described the several parts of my invention its operation is as follows: In order to attach the screen to a window the guiding strips 11 are placed in position as shown in Fig. 4; the roller and screen are passed down the grooves 12 until the base 7 rests upon the window sill 8; the pins 13 are then passed through the guiding strips 11 which securely hold the device in position shown in Fig. 7; the outer or free end of the screen is then secured to the lower portion of the bottom sash 3 in any convenient manner. The screen is then in position for use, and when the sash is raised, as shown in Fig. 2, the screen is unwound from the roller 5 which effectually closes the opening through

the window, thus preventing access of flies or other insects; and when the bottom sash is in a lowered position the roller 5 winds up the screen as shown in Figs. 4 and 7. When the bottom sash is in a partially raised position, as shown in Fig. 5, the brush 15 carried on the upper sash prevents the ingress of flies or other insects through the usual space between the lower window pane and the lower portion of the upper sash.

It frequently becomes necessary to remove a screen from the window in order to wash the same or for the purpose of operating shutters or the like and also for passing objects through the opening. In order to accomplish this and to remove obstructions of the screen it is simply necessary to remove the pin 13 from each of the guiding strips 11. The lower sash can then be raised and the entire screen and roller will move upwardly guided by the guide strip 11 to the position shown in Fig. 3. When it is desired to replace the screen the bottom sash is lowered and the pins 13 inserted in proper position as shown in Fig. 7. By this construction and arrangement the screen can be removed from the window in a very short space of time as it simply requires the removal of the

pins 13 in order to allow the entire screen and roller to be raised in position shown in Fig. 3. 30

Having thus described the several parts of my invention what I claim as new and desire to secure by Letters Patent of the United States is;

A rolling screen of the character described comprising a roller to which one end of the screen is secured, a base, guide pieces thereon to which guide pieces the roller is secured, a guard on said base, a guiding strip located on each side edge of the lower sash and in the inner side of the same, said guiding strips being provided with grooves to receive the said guides supporting the said roller, and means entering each of said guiding strips to hold the said guide pieces and roller in a lowered position, the outer or free end of said rolling screen being adapted to be secured to the lower portion of the bottom sash. 45

In testimony whereof, I affix my signature, in presence of two witnesses. 50

PATRICK F. DOWD.

Witnesses:

EDWARD C. ALLEN,
EDWIN L. MINAR.