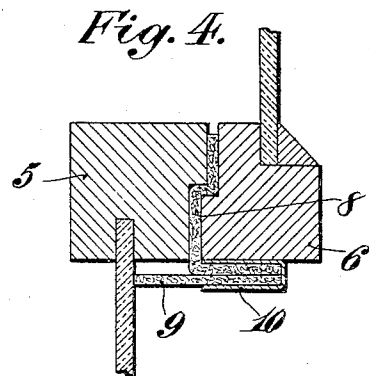
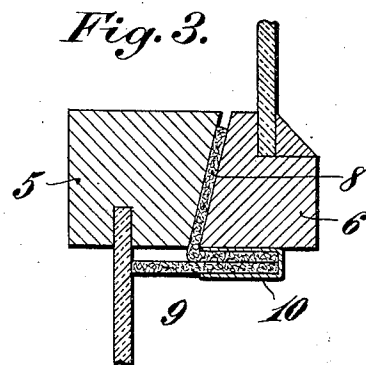
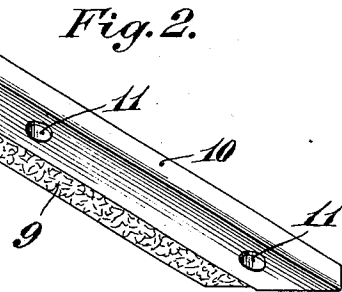
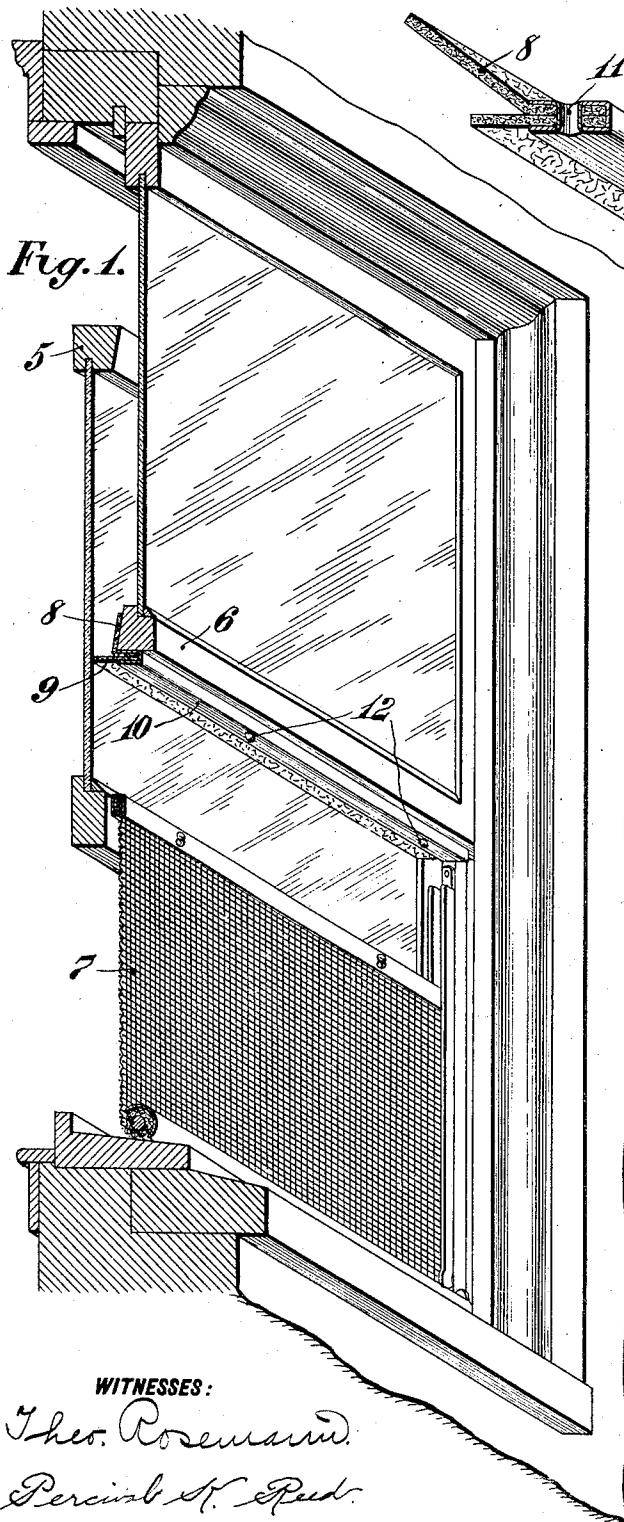


A. B. CLAY.
COMBINATION FLY EXCLUDER AND WEATHER STRIP.
APPLICATION FILED SEPT. 26, 1908.

936,235.

Patented Oct. 5, 1909.



WITNESSES:
Theo. Rosemann.
Percival H. Reed.

INVENTOR
Albert B. Clay,
BY
Jas. C. Woburnsmith
ATTORNEY.

UNITED STATES PATENT OFFICE.

ALBERT B. CLAY, OF SCRANTON, PENNSYLVANIA, ASSIGNOR TO CHARLES E. BRADBURY, TRUSTEE, OF SCRANTON, PENNSYLVANIA.

COMBINATION FLY-EXCLUDER AND WEATHER-STRIP.

936,235.

Specification of Letters Patent.

Patented Oct. 5, 1909.

Application filed September 26, 1908. Serial No. 454,870.

To all whom it may concern:

Be it known that I, ALBERT B. CLAY, a citizen of the United States, residing at Scranton, in the county of Lackawanna and State of Pennsylvania, have invented certain new and useful Improvements in Combination Fly-Excluders and Weather-Strips Adapted for Use in Connection with Fly-Screens, of which the following is a specification.

My invention has relation to a combination fly excluder and weather strip for use in connection with fly screens and it has particular relation to the construction and arrangement of such a device.

It is well known that flies and other insects will enter a house, which is otherwise well screened, through the space left between the upper and lower sash of a window when open, notwithstanding that the window may be provided with screens of any of the well known types.

The principal object of my invention is to provide, in a unitary structure, a device which may readily be applied to an ordinary window for preventing the ingress of flies or other insects in this manner, as well as acting as a weather strip when the window is closed.

The nature and characteristic features of my invention will be more readily understood from the following description taken in connection with the accompanying drawings forming part hereof, in which:

Figure 1 is a perspective view, partly in section, of a window provided with a fly screen of the spring roller type, and the device of my present invention shown in connection therewith, Fig. 2 is a similar perspective view of the device detached, and Figs. 3 and 4 are sectional views of the meeting rails of two forms of window sash with the device of my invention shown applied thereto, the rails of the sash being shown in the position assumed when the window is closed.

Referring to the drawings, 5 is the upper or meeting rail of the lower sash of an ordinary window structure and 6 is the lower or meeting rail of the upper sash. As shown in Fig. 1, the window is provided with a window screen 7 of the spring roller type, but it will be understood that the de-

vice of the present invention is equally well adapted for use in connection with any other of the common forms of window screen.

The particular embodiment of my invention shown in the drawings consists of a strip 8 of felt, rubber or similar resilient material, and another strip 9 of similar material of less width than the strip 8. The two resilient strips 8 and 9 are clamped or held together for a portion of their width by a casing 10, preferably formed of sheet metal bent longitudinally to confine the resilient strips between the inner faces of the metal. It will of course be understood that the two strips 8 and 9 of resilient material may be formed of a single integral piece, folded upon itself longitudinally, if so desired. The metal casing 10 is held in its shape to retain the resilient strips 8 and 9 by means of eyelet like rivets 11, the openings of the eyelets serving to permit of the passage of the screws or nails 12 for securing the device in place on the sash.

The unitary structure, formed as aforesaid, is secured to the underside of the lower or meeting rail 6 of the upper sash by means of the screws or nails 12 being passed through the eyelets 11 and fastened in the sash. The strip 8 is then bent up and secured by any suitable means such as tacks or glue to the inner face of the meeting rail of the upper sash, while the resilient strip 9 extends horizontally inward and contacts with the glass of the lower sash. The horizontally disposed strip 9 serves to close the space, which would be otherwise open, between the two sash against the entrance of flies or other insects, while the strip 8 serves as a cushion and weather strip between the meeting rails of the sash, making a perfect joint instead of the usual loose one, preventing the rattling of the windows in a high wind and shutting out the cold in winter weather.

Having thus described the nature and characteristic features of my invention, what I claim as new and desire to secure by Letters Patent is:

1. In combination with a window structure, a resilient strip secured to the upper sash and extending horizontally to contact with the lower sash, a second resilient strip extending between the meeting rails of the

upper and lower sash, and means for securing said strips together for a portion of their width.

2. A unitary structure adapted to be applied to the lower edge of the upper sash of a window, comprising a resilient strip extending horizontally to contact with the glass of the lower sash, a second resilient strip extending between the meeting rails of the upper and lower sash, and means for securing said strips together for a portion of their width.

3. A unitary structure adapted to be applied to the lower edge of the upper sash of a window, comprising a resilient strip extending horizontally to contact with the glass of the lower sash, a second resilient strip extending between the meeting rails of the upper and lower sash, and a longitudinally bent strip between which the resilient strips are secured for a portion of their width.

4. A unitary structure adapted to be applied to the lower edge of the upper sash of a window, comprising a resilient strip extending horizontally to contact with the glass of the lower sash, a second resilient strip extending between the meeting rails of the upper and lower sash, a casing in which the resilient strips are secured for a portion of their width, and a series of eyelets passing through the structure, said eyelets constituting rivets for uniting the parts together and providing apertures for securing the structure in place.

In testimony whereof I have hereunto signed my name in the presence of two witnesses.

ALBERT B. CLAY.

Witnesses:

FRANK B. WARD,
VICTOR E. WENZEL.