No. 816,041. PATENTED MAR. 27, 1906.

V. ROSS.

STOP AND GUIDE FOR METAL WINDOWS.

APPLICATION FILED JULY 17, 1905.

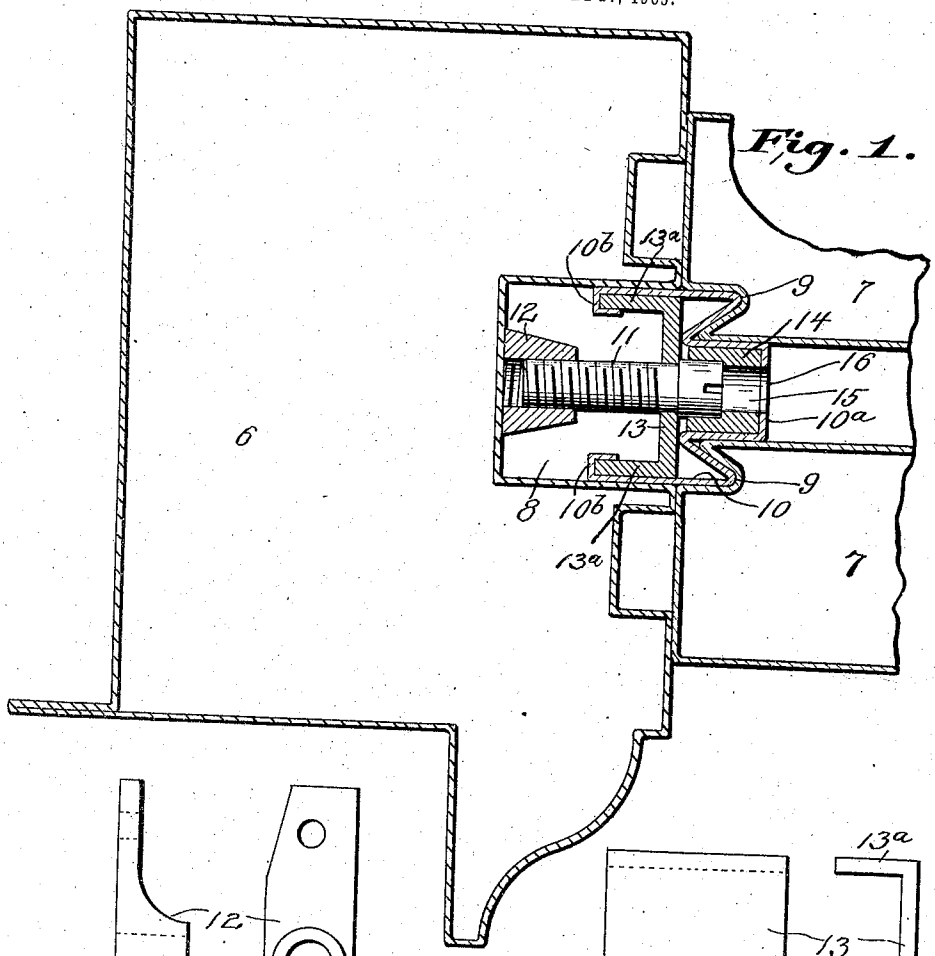


Fig. 1.

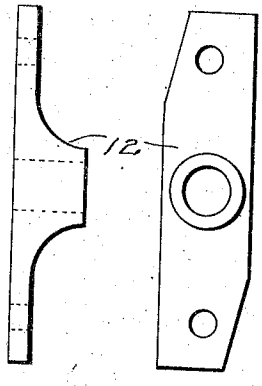


Fig. 2. Fig. 3.

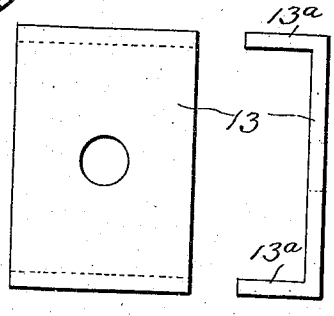


Fig. 4.

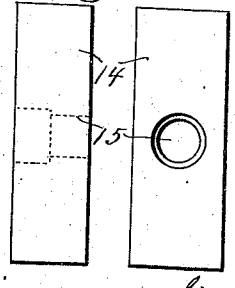


Fig. 5.

Witnesses
M. A. Schmidt.
Geo. E. Tew.

Inventor
Vernon Ross
by Milo B. Stevens & Co.
Attorneys.

UNITED STATES PATENT OFFICE.

VERNON ROSS, OF KANSAS CITY, MISSOURI.

STOP AND GUIDE FOR METAL WINDOWS.

No. 816,041. Specification of Letters Patent. Patented March 27, 1906.

Application filed July 17, 1905. Serial No. 270,003.

To all whom it may concern:

Be it known that I, VERNON ROSS, a citizen of the United States, residing at Kansas City, in the county of Jackson and State of Missouri, have invented new and useful Improvements in Stops and Guides for Metal Windows, of which the following is a specification.

This invention is an adjustable stop or strip for the purpose of making a metal window dust and weather proof.

The invention is particularly adapted for use in connection with sheet-metal or fireproof windows, and it is designed to provide improved means for making a tight joint between the casings and the sash of such windows.

The invention is illustrated in the accompanying drawings.

Figure 1 is a horizontal section of one side of a window provided with the invention. Figs. 2 and 3 are details of a fixed nut which receives an adjusting-screw. Figs. 4 and 5 are details in elevation of plates which coöperate with the screw.

Referring specifically to the drawings, 6 indicates the window-casing, and 7 the sash-stiles. These parts are formed hollow, of sheet metal, in a known manner. In the side of the window-casing adjacent the sash a channel or groove 8 is formed extending vertically from the top to the sill of the casing, and in the inner corners of the sides of the stiles opposite said channel grooves 9 are formed which taper in width as they increase in depth. These grooves extend vertically in the stiles along the whole length thereof.

10 indicates the sheet-metal stop or strip which extends lengthwise from the head to the sill of the window-casing and which is corrugated or bent to fit the channel and grooves in the casing and the stiles. The strip fits at its sides in close contact with the sides of the channel 8, beyond which it is shaped to fit the contour or surface of the grooves 9 and to form at its middle portion a bead 10^a between the stiles. The whole strip or stop for both stiles is preferably made of one sheet of metal properly bent and shaped, as shown.

For adjusting the strip in or out to vary its contact with the grooves 9 a screw 11 is used. This screws into a nut 12, secured to the bottom of the channel 8, and engages under its head a plate 13, having flanges 13^a which fit against offset portions 10^b at the edges of the stop 10. Over or outside its head the screw carries a block 14, having an opening 15 of less size than the head of the screw, through which a screw-driver may be inserted to turn the screw. The strip 10 has an opening at 16 for the same purpose. As shown, the block 14 fits within the bead 10^a, formed by the strip.

The stop is adjusted in or out by means of a screw-driver inserted through the hole 15. By turning the screw in, the plate 13 is moved inwardly, carrying with it the stop or strip. By turning the screw back the block 14 is forced out, pressing the stop 10 to contact in the grooves 9, which contact may be made as tight as desired.

This stop or strip forms guides for the stile of the sash and avoids the necessity for inside and outside beads and also makes a dust and weather proof joint and avoids looseness and rattling of the sash.

What I claim as new, and desire to secure by Letters Patent, is—

The combination with a window-casing having a vertical channel in the side thereof, of sliding sash therein having grooved stiles, a sheet-metal strip bent to form a bead between the sash and ribs fitting in the grooves, and which fits at its sides against the sides of the channel, a screw engaging the casing, and plates fitting within said strip and located respectively under and over the head of the screw, whereby the strip may be adjusted in or out.

In testimony whereof I have signed my name to this specification in the presence of two subscribing witnesses.

VERNON ROSS.

Witnesses:
WM. M. WEIS,
J. G. INGELS.