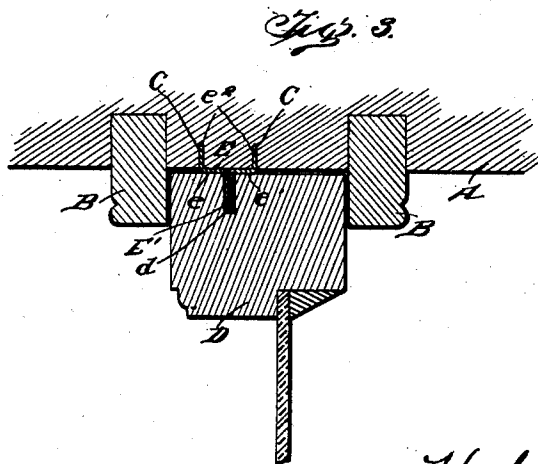
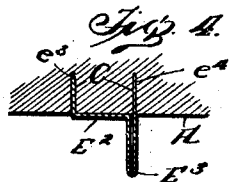
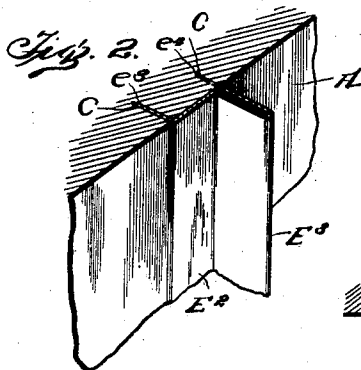
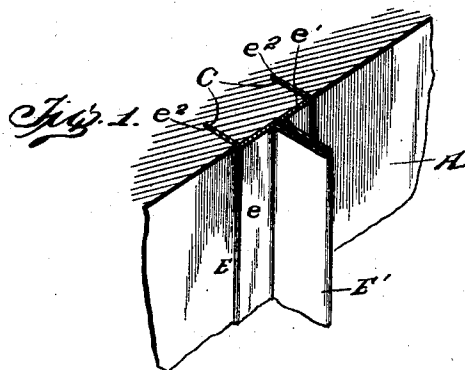


No. 719,472.

PATENTED FEB. 3, 1903.

H. E. KENNY.
METAL WEATHER STRIP.
APPLICATION FILED MAY 20, 1902.

NO MODEL.



Witnesses

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HUGH EDWARD KENNY, OF DETROIT, MICHIGAN, ASSIGNOR TO CHAMBERLIN METAL WEATHER STRIP COMPANY, OF DETROIT, MICHIGAN.

METAL WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 719,472, dated February 3, 1903.

Application filed May 20, 1902. Serial No. 108,205. (No model.)

To all whom it may concern:

Be it known that I, HUGH EDWARD KENNY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented certain new and useful Improvements in Metal Weather-Strips; and I do hereby 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 an improvement in metal weather-strips; and it is embodied in the construction and arrangement described, and defined in the claims.

Many forms of weather-strips have heretofore been suggested, but the so-called "metal" strip is now very largely employed in preference to other types. In connection with metal strips it has been found that in securing the strips to the frame of a window conveniently tacks or nails are employed, which in some cases protrude and prevent an easy action or movement of the sash. It has been suggested to obviate this by extending the base edges of the strip below the parting-beads, which necessarily required the removal of the bead in the application of the strip.

My invention is designed to enable the application of the strip directly to the base of the guide-groove of the frame or, if preferred, to the edge of the window-sash in a manner which will avoid the necessity of the use of nails or tacks.

A further object of the invention is to provide a metal weather-strip which will have a base portion of sufficient width to serve substantially as a guide for the window-sash and a retainer for the strip.

The invention relates more particularly to that type of metal strip wherein the sealing-flange is formed by folding or doubling back the material, a type which has been eminently satisfactory and which resists distortion.

In the accompanying drawings I have shown several forms of strips embodying the principle of the invention; but it is to be understood that other forms can be employed and changes made without departing from the invention.

Figure 1 is a broken perspective view of a

section of a window-casing with a portion of the improved strip attached. Fig. 2 is a similar view showing a strip of slightly-modified form. Fig. 3 is a cross-section through a sash-bar and the adjacent window-frame, and Fig. 4 is a cross-section of a modified form of strip and its engaging parts.

In the drawings, A designates the window-frame; B, the parting-rails. In the frame between the parting-rails are formed two parallel grooves C, which are conveniently of equal depth.

D designates the window-sash, formed with an entering-groove *d*, located conveniently on a plane intermediate the grooves C.

E designates the metal strip, which is constructed, preferably, of zinc and formed with the base portions *ee'* of substantially uniform width, as shown in Figs. 1 and 3, their center portions being bent outward and looped or folded to constitute the sealing-flange *E'* of the strip. The outer edges of the base portions are bent back at right angles, but parallel with each other, forming securing-flanges *e²*, which are forced tightly into the channels or grooves C of the window-frame. The base portions constitute striking portions for forcing the anchoring-flange into the frame and also serve as guiding-surfaces, with which the sash contacts in its up-and-down movement, thus affording a smooth contact-surface antifriction in its nature.

The above-described construction is such that the strip is tightly held in place, and the sealing-flange entering the groove *d* of the sash forms a very tight window and prevents all rattling.

In Fig. 2 I have shown a slightly-modified form, the base member or portion *E²* being on one side of the folded sealing-flange *E³*. The anchoring flanges or edges *e³* *e⁴* are formed, respectively, by the edge of the outer return-bend of the sealing-flange and the outer edge of the base member and may be constructed of different widths, as shown, or a construction such as shown in Fig. 4 may be employed, wherein both of the anchoring-flanges are of the same width.

It is to be understood that while the preferred form of construction is that illustrated in the drawings, wherein two separated

grooves are employed with the parallel anchoring-flanges for the strip, the grooves may be located at any desired point between the parting-beads.

5 Having thus described the invention, what is claimed as new, and desired to be secured by Letters Patent, is—

10 1. A metallic weather-strip comprising a base portion having two substantially parallel anchoring edges spaced apart and arranged at an angle to the base, and a sealing-flange at an angle to the base, substantially as described.

15 2. A metallic weather-strip comprising a base portion having two substantially parallel equal-width anchoring-flanges spaced apart and arranged at an angle to the base, and a sealing-flange at an angle to the base, substantially as described.

20 3. A metallic weather-strip comprising a

sealing-flange base portions arranged at an angle to the sealing-flange, and parallel securing edges at the outer edges of the base portions and arranged at an angle to the said base portions, substantially as described. 25

4. The combination with a window-frame having separated grooves formed therein, a metallic weather-strip having its edges inserted in the grooves and formed with a base portion at an angle to the said edges, and a 30 return-bend portion extending outward at an angle to the said base portion, substantially as described.

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

HUGH EDWARD KENNY.

Witnesses:

C. A. MARION,

ALFRED W. BECK.