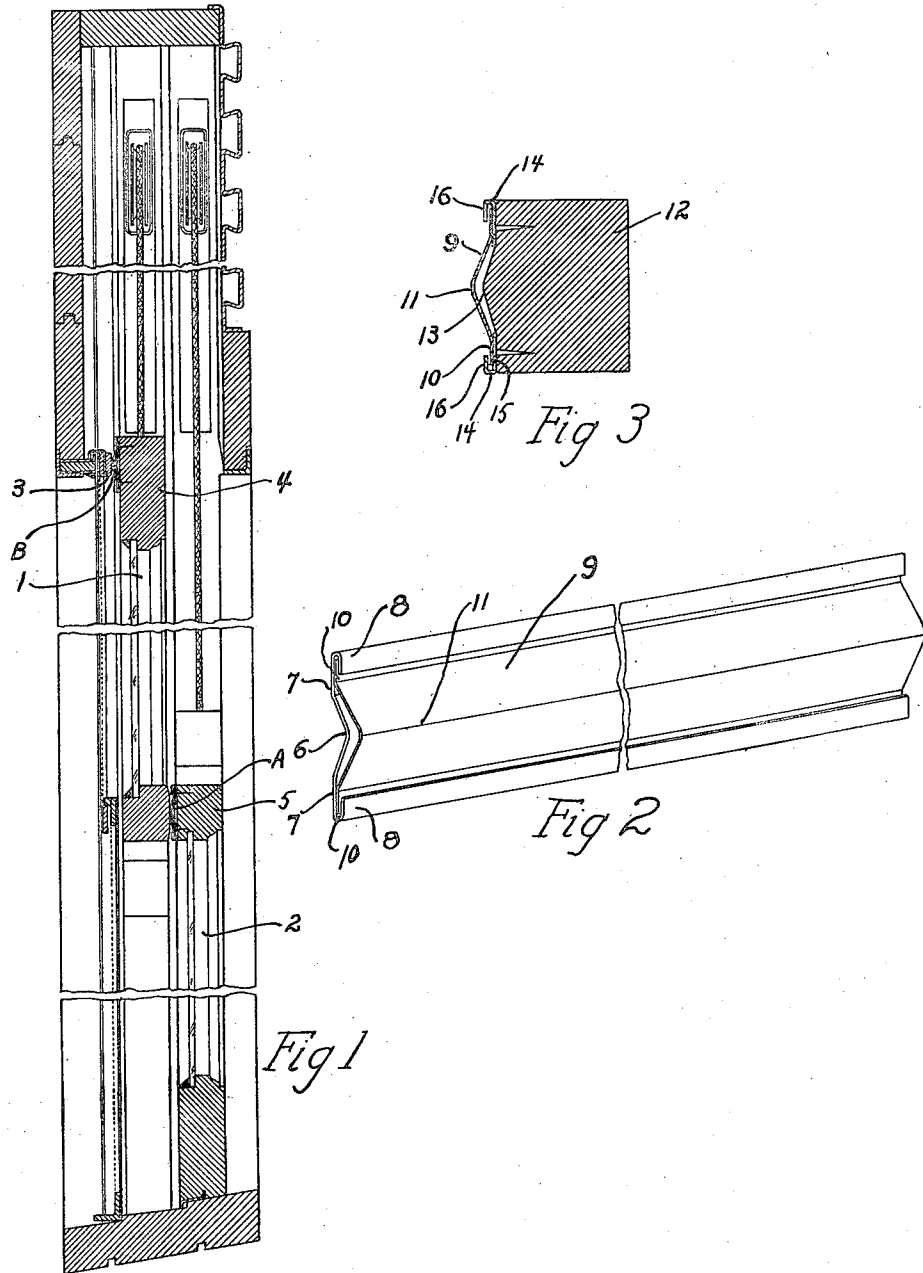


F. A. STICKLE.
 WEATHER STRIP.
 APPLICATION FILED NOV. 3, 1919.

1,398,284.

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WEATHER-STRIP.

1,398,284.

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To all whom it may concern:

Be it known that I, FREDERICK A. STICKLE, a citizen of the United States, and a resident of the city of Cincinnati, in the county of Hamilton and State of Ohio, have invented certain new and useful Improvements in Weather-Strips, of which the following is a full, clear, and exact description, reference being had to the drawings forming a part of this specification.

My invention relates to weather strips, particularly to such strips made of metal.

It is my object to provide such a strip, for use primarily with windows, wherein a resilient member is provided to form a wiping contact, said member being mounted within another member in a simple manner, and moreover being protected against being dented in, should adjustments be such that the contact arranged for the strip be too close.

In order to form an effective resilient weather strip, of bronze particularly, it is necessary to use fairly fine gage metal, and to provide for a wiping contact for such a strip involves problems which so far as I am advised have not been solved prior to my invention.

Thus I provide for a bent spring bronze or light brass strip which is held in another strip so as to have some play and resiliency, but not only do I do this, but I also provide in the other strip which is of heavier metal, preferably, a matching bend or ridge which acts as a support to prevent the caving-in of the exterior or wiping strip.

My object and advantages I accomplish by that certain construction and arrangement of parts to be hereinafter more specifically pointed out and claimed.

In the drawings,

Figure 1 is a vertical section taken through a pocket window illustrating the use of my invention.

Fig. 2 is a perspective view of the strip.

Fig. 3 is a cross section taken through a modified form thereof.

I will not describe in particular the window shown in the drawings except to indicate the upper sash at 1, the lower sash at 2 and the contact or wiping edge for the upper sash in the pocket mouth at 3.

There is a strip made according to my invention shown mounted on the upper rail 4

of the upper window sash, and one on the upper rail 5 of the lower sash.

Preferably, I provide an under or base piece of metal, of fairly heavy gage, bent to form a longitudinal ridge 6, flat portions 7 at each side of the ridge, and return bent flanges 8, at each edge of the piece.

Into this base piece slides the wiping or contact piece which is formed with a longitudinal ridge 9 of sharper angle than the ridge in the base, and with flat portions 10 at each edge of the ridge of less width than the flat portions of the base.

When so constructed the base piece may be nailed or secured as desired to the member to be protected, and the contact or wiping strip slid into place beneath the bent over flanges of the base. There will then be a certain restricted space between the edges of the contact strip and the line of fold of the retaining flanges of the base within which the contact strip may spread, thereby giving resilience to the apex 11 of the ridge.

Should the contact piece tend to spread beyond the expected limits that are provided for in the structure, the under ridge will come into play to prevent the denting or caving-in of the said piece.

In the modification shown (Fig. 3), the body 12 to which the weather strip is to be secured is formed with the central auxiliary ridge 13. The contact strip is of the same construction as now described, but to mount the piece over the body 12, two strips 14 are provided, each having a flat portion to be mounted on the body, and each having a bent over flange or edge 16 to form the guide-way and retaining member for the contact strip.

The use of the strip now described is shown in the first figure, there being a strip, A, at the contact point of the two sash rails, and another strip, B, at the contact point of the upper sash rail with the pocket mouth.

The essential of my invention, as I view it at present, is the provision of a contact or wiping strip of metal or like hard and lasting material having some natural resilience which is so mounted that it may spread a certain distance but which is guarded against excessive spreading or denting by an under piece or base, which has a similar conformation to the contact element but lies normally

with a substantial space intervening between it and said contact element.

Having thus described my invention, what I claim as new and desire to secure by Letters Patent is:—

1. A weather strip comprising a longitudinally extending metallic strip formed up centrally to act as a wiping strip, means for mounting the strip so that it can spread transversely thereby lowering the central formed up portion, and a non-yielding abutment mounted under the strip, spaced therefrom to allow yielding thereof, and formed up centrally to act as a stop upon undue depression of the formed up portion of the strip to prevent caving of the metallic strip.

2. A weather strip comprising a metallic

piece bent to form a longitudinal raised portion, mounting guideways for said metallic piece adapted to retain it in place, but spaced to permit spreading of said metallic piece, and a formed raised portion beneath said metallic piece, and spaced therefrom.

3. A weather strip comprising a base formed with a ridge, said base having flat portions at the sides of the ridge and bent over edges and a contact piece formed with a ridge having a slope of greater angularity than the base ridge, and formed with flat portions at the sides of the ridge adapted to slide and spread in the said bent over edges of the base, for the purpose described.

FREDERICK A. STICKLE.