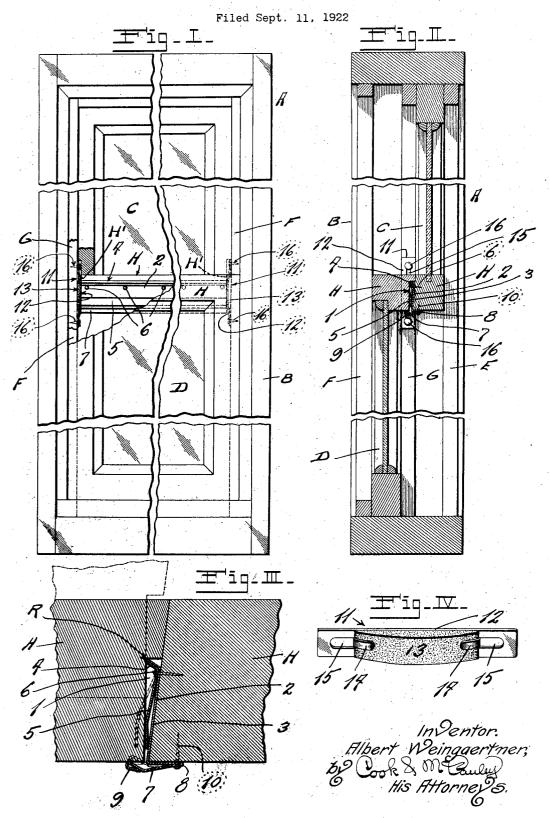
A. WEINGAERTNER

WEATHER STRIP FOR WINDOWS



UNITED STATES PATENT OFFICE.

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WEATHER STRIP FOR WINDOWS.

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To all whom it may concern:
Be it known that I, Albert Weingaert-NER, a citizen of the United States of America, and a resident of the city of St. Louis 5 and the State of Missouri, have invented certain new and useful Improvements in Weather Strips for Windows, of which the following is a full, clear, and exact description, reference being had to the accompany-10 ing drawings forming a part of this specification.

This invention relates to improvements in weather-strips and particularly to weatherstrips intended for use on a window having 15 a pair of vertically movable window sashes be obtained between said meeting rails when 20 said window sashes are in their closed posi-

A further object is to provide a weatherstrip by the use of which a weather-tight joint may be obtained between the ends of 25 the meeting rails of the associated window sashes and the parting strips of the window

With the foregoing and other objects in view, the invention comprises the novel con-30 struction, combination and arrangement of parts hereinafter more specifically described and illustrated in the accompanying drawings wherein is shown the preferred embodiment of the invention. However, it is to be understood that the invention comprehends changes, variations and modifications which come within the scope of the claims hereunto appended.

Fig. I is a fragmentary front elevation of a window provided with my improved weather strips, a portion of the upper and lower sash of said window being broken away to show said weather-strips.

Fig. II is a vertical section of the window shown in Fig. I.

Fig. III is an enlarged fragmentary sec-

tion through the meeting rails of a pair of window sashes, showing my improved

weather-strip interposed therebetween.

Fig. IV is a perspective view of the weather-strip by which a weather-tight joint is obtained between the ends of the meeting rails of the window sashes and the parting strip of the window frame.

In the drawing, A designates a window comprising a window frame B and a pair of with a looped sash contacting portion 9. A

vertically movable window sashes C and D. The window frame B is provided with the usual stop members E and F and with the usual parting strips G interposed between 60 the sashes C and D. The sashes C and D are provided with meeting rails H and these meeting rails are so arranged as to contact with each other when the window sashes are in their closed positions. The joint between 65 the meeting rails of associated window sashes is not usually weather-tight and one of the purposes of the present invention is to provide a means whereby this joint is rendered weather-tight.

As stated above the meeting rails are provided with horizontal meeting rails, said adapted to contact with each other when the weather-strip being intended to provide a window sashes are in their closed positions means whereby a weather-tight joint may and to provide a space for the reception of my improved weather-strip I provide one of 75 said meeting rails with a recess 1 which extends longitudinally of said meeting rail from end to end thereof. My improved weather-strip 2 is located within the recess 1 and extends the full length of the meeting 80 rails H, said weather-strip being preferably formed from a single piece of resilient material. The weather-strip 2 is provided with an L-shaped portion 3 which bears against the inside and the bottom faces of the meet- 85 ing rail of the upper sash C. Extending upwardly at an angle from the upper end of the L-shaped portion 3 is a rigid sash contacting portion 4, said portion being formed by extending the material, of which 90 said weather-strip is formed, upwardly and then doubling same back to form a projection of double thickness. The material extends downwardly from the portion 4 to form a resilient sash contacting tongue 5 which is provided with a portion adapted to bear against the associated window sash (Fig. III). A plurality of nails or similar fastening devices 6 are driven through the upper portion of the L-shaped portion 3 and 100 through the upper portion of the resilient tongue 5 to secure the weather-strip to the meeting rail of the window sash C. Formed at the bottom of the weather-strip 2 is a second resilient sash contacting tongue 7, 105 said tongue being formed by bending the material at the outer end of the horizontal portion of the portion 3 to provide an end portion 8 composed of two thicknesses of material. The tongue 7 extends from the 110 portion 8 and is provided at its outer end

plurality of nails or similar fastening devices 10 are driven through the portion 8 to aid the nails 6 in securing the weather-

strip to the meeting rail.

In the use of my improved weather-strip, said weather-strip is secured to the meeting rail of the upper sash C. When the lower sash D is in a raised position, or the upper sash C is in a lowered position, the resilient 10 tongue 5, and the resilient tongue 7 are in the positions in which they are shown by dotted lines in Fig. III. When the lower sash is moved downwardly the bottom edge of the meeting rail of said sash will contact 15 with the tongue 5 and as said meeting rail continues to move downwardly said tongue will be moved to the position in which it is shown in full lines in Fig. III in which position said tongue is bearing firmly against 20 said meeting rail. Immediately before the lower sash D reaches its closed position the bottom face of the meeting rail thereof will contact with the resilient tongue 7 and said tongue will be moved from the position in 25 which it is shown by dotted lines in Fig. III to the position in which it is shown by full lines in said view, whereby a firm contact is obtained between said tongue and said meeting rail.

As has been stated the lower sash D is provided with a longitudinal recess 1 and said recess is so formed as to have a corner R at its upper end. The rigid sash contacting portion 4 of the weather-strip is so arranged that it will firmly contact with the corner R of the recess 1 when the sashes are in their closed positions thereby aiding the tongues 5 and 7 in rendering the joint between the meeting rails weather proof. From the foregoing it is apparent that the weather-strip disclosed herein contacts with the associated meeting rail at three points whereby the likelihood of drafts and dampness pass-

ing through the joint is greatly reduced. To provide weather-tight joints between the outer ends of the meeting rails H and the parting strips G I employ weather-strips 11 comprising bowed strips of resilient material 12 which are fastened to said parting strips and extend into recesses H' formed in the opposite end faces of the meeting rails H. Interposed between each of the bowed strips 12 and the parting strips G is a body of resilient material, such as felt, said material 55 being designated by the reference character The bowed strip 12 is provided with a pair of integral tongues 14 which are adapted to secure said body of material 13 to said bowed strip. The integral tongues 14 are formed by slitting the strip 12 and bending a portion of the material of said strip outwardly.

The striking out of the tongues 14 from the strip 12 will leave openings 15 which are utilized to receive nails or similar fastening

devices 16 whereby said weather strip is secured to the parting strip.

In use, when the window sashes C and D are in their closed positions the ends of the meeting rails of said sashes will contact with 70 the bowed strips 12 and will produce a weather-tight joint between said meeting rails and the parting strips of the window frame.

I claim:

1. A weather-strip for windows having a pair of window sashes, comprising a single member adapted to be secured to one of said sashes, said member being provided with a rigid contacting portion and a plurality of resilient contacting portions, said rigid contacting portion and said plurality of resilient contacting portions being adapted to bear against the associated sash.

2. The combination with the meeting rail 85 of a window sash provided with a recess, of a single weatherstrip member adapted to lie within said recess, said member being provided with a rigid sash contacting portion at its upper end, a resilient sash contacting tongue at its lower end, and a resilient sash contacting tongue intermediate of said rigid contacting portion and said lowermost resilient sash contacting tongue, said rigid sash contacting portion and said resilient sash contacting tongues being adapted to bear against the associated sash.

3. A weather-strip for windows having a pair of window sashes provided with meeting rails, comprising bowed strips adapted to be secured to the frame of the window, and a body of resilient material interposed between each of said bowed strips and said window frame, said bowed strips being adapted to contact with said meeting rails.

4. A weather-strip for windows having a pair of window sashes provided with meeting rails, comprising bowed strips adapted to be secured to the frame of the window, a body of resilient material interposed between each of said bowed strips and said window frame, and clamping means on said bowed strips for securing said resilient material to said bowed strips, said bowed strips being adapted to contact with said meeting rails.

5. A weather-strip for windows having a pair of window sashes provided with meeting rails, comprising bowed strips adapted to be secured to the frame of the window, a body of resilient material interposed between each of said bowed strips and said window frame, and clamping means comprising integral tongues formed on said bowed strips for securing said resilient material to said bowed strips, said bowed strips being adapted to contact with said meeting rails.

In testimony that I claim the foregoing I

hereunto affix my signature.

ALBERT WEINGAERTNER.