June 2, 1931. L. A. MACKLANBURG 1,808,423

WEATHER STRIPPING

Filed April 17, 1930

Fig. 1.

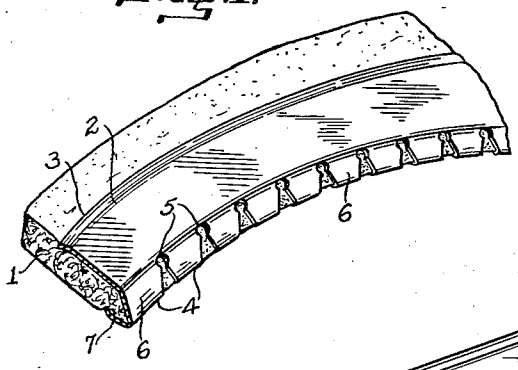


Fig. 2.

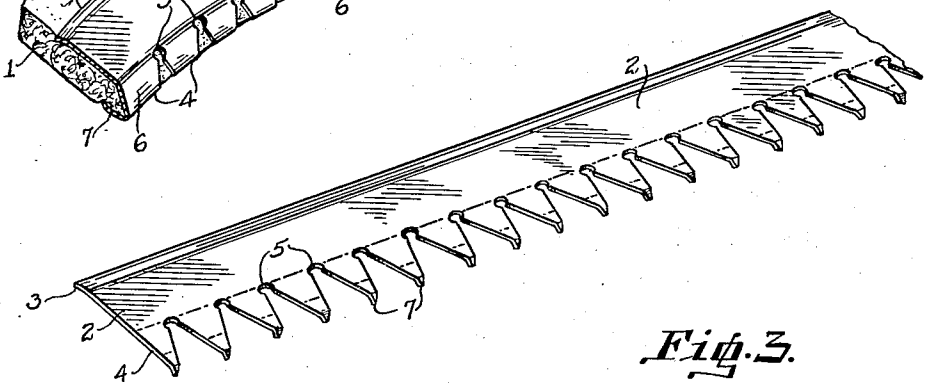
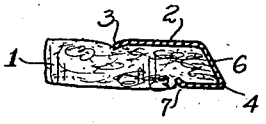


Fig. 3.



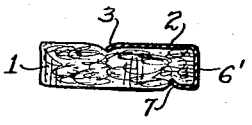
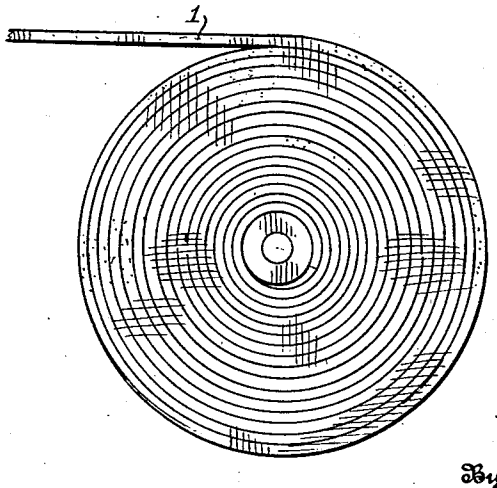


Fig. 4.

Fig. 5.



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UNITED STATES PATENT OFFICE

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WEATHER STRIPPING

Application filed April 17, 1930. Serial No. 445,003.

This invention relates to weather stripping and more particularly to combination fibre and metallic weather stripping in which a fibre or felt packing part is reinforced and secured by a metallic reenforcement strip through which it can be nailed or otherwise secured in position with relation to the doors or windows to be stripped.

An object of the present invention is to provide a weather stripping of the character indicated, structurally formed in such manner as to permit the coiling of the weather strip so that the same can be conveniently stored and handled in coils rather than in lengths as is the common practice.

A further object of the invention is to provide a weather strip of the character indicated adapted to shed rain drip.

A further object is to provide an improved and more efficient means for securing the fibre or felt part to the metallic reinforcement strip.

Further objects will more particularly appear in connection with the following detailed description.

The invention consists in the novel construction, arrangement and combination of parts, hereinafter more particularly described and claimed.

One sheet of drawings accompanies this specification as part thereof in which like reference characters indicate like parts throughout.

Figure 1 is a perspective view of a piece of the improved weather strip, partly in cross section.

Fig. 2 is a perspective view of the metallic reenforcement strip prior to its attachment to the felt packing strip.

Fig. 3 is a transverse cross section taken through the improved weather strip.

Fig. 4 is a transverse cross section taken through a modified form of the improved weather strip.

Fig. 5 illustrates the improved weather strip as packed in a coil for shipment, storage and vending purposes.

In accordance with the present invention a long strip of fibre felt or other suitable packing material is provided of substantially rectangular cross section as illustrated at 1.

A similar length of sheet metal 2 is provided of a width sufficient to embrace part of one face of the packing strip 1 and an adjacent edge.

One edge of the reinforcement strip 2 is bent downward at a very slight oblique angle as at 3. The other edge is provided with a plurality of angular notches which define prongs 4. Preferably the apices of these angular notches are enlarged as at 5.

The metallic reenforcement strip 2 is applied to the felt packing strip 1 by bending the prongs 4 downwardly at an oblique angle as indicated at 6 over an edge of the felt strip, the points 7 of the prongs 4 being bent upwardly against the underface of the packing strip 1 to compress the packing strip between the said prong points 7 and the downturned edge 3 of the reinforcement strip. The inclined faces 6 of the prongs 4 provide a beveled edge to the weather strip well adapted to shed any rain drip. Obviously if preferred the prongs 4 can be bent perpendicular to the face of the weather strip as indicated at 6′ or at any other angle which may be desirable for particular purposes.

By reason of the notched edge of the reinforcement member it will be apparent that the weather strip described will readily bend downwardly and thus permit coiling of the weather strip in indefinite lengths into coils, thus providing compact and convenient bundles for handling, from which, lengths of weather strip can be cut as desired for particular purposes.

The enlargements 5 of the apices of the edge notches prevent splitting of the metal by relieving all possible strains at these points in the bending operation.

Various modifications in the exact shape and construction of the parts will readily suggest themselves to those skilled in the art but within the scope of the invention as claimed.

Having thus fully described my invention, I claim:

1. A flexible weather strip comprising in combination a packing strip and a reenforce-

ment strip, the reenforcement strip engaging one face of the packing strip and provided with teeth bent around one edge of the packing strip and engaging its other face.

2. A flexible weather strip comprising in combination a packing strip of substantially rectangular cross section and a metallic reenforcement strip embracing part of one face and an edge of the packing strip, the edge part of the reenforcement strip having notches with their apices on a line of fold of the metal and enlargements of the notches at their apices.

3. A flexible weather strip comprising in combination a packing strip and a reenforcement, the latter extending over a part of one face of the packing strip and having a plurality of spaced angular notches in one edge, the part between said notches being bent at an obtuse angle over the edge of the packing strip and having their ends bent upward into locking engagement with the packing strip.

4. A flexible weather strip comprising in combination a packing strip and a reenforcement strip, the latter having a body part adapted to extend over part of one face of the packing strip, one edge of the reenforcement strip bent downwardly at a very slight angle, the other edge provided with a plurality of spaced angular notches, the apice of each notch being enlarged and the prongs defined by the notches bent at an obtuse angle to the body part over the edge of the packing strip, the points of the prongs being bent upwards to engage the packing strip and compress same against the opposite downturned edge of the reenforcement strip as specified.

5. A flexible weather strip comprising a packing strip and a metal reinforcement strip, the metal strip embracing a part of one face of the packing strip and being bent over the edge and under a part of the other face of the packing strip, this edge portion of the metal strip having notches with their apices at the first bend, to render the strip longitudinally elastic.

6. A flexible weather strip comprising a packing strip and a metal reinforcement strip, the metal strip embracing a part of one face of the packing strip and being bent over the edge and under a part of the other face of the packing strip, this edge portion of the metal strip having notches whose distance apart is less than their length.

In testimony whereof I affix my signature.

LOUIS A. MACKLANBURG.