No. 694,062. Patented Feb. 25, 1902.

H. E. KENNY.

WEATHER STRIP AND GUIDE FOR WINDOWS.

(Application filed May 4, 1901.)

(No Model.)

FIG. 1.

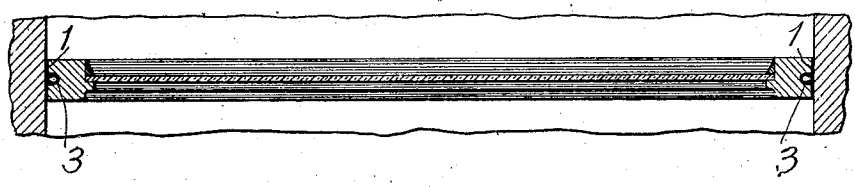


FIG. 2.

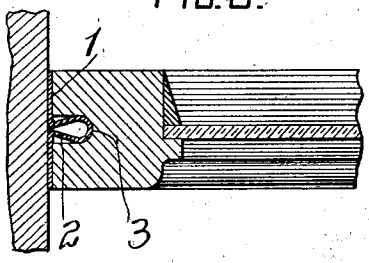


FIG. 3.

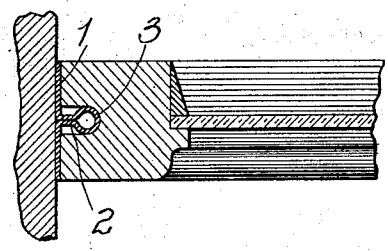


FIG. 4.

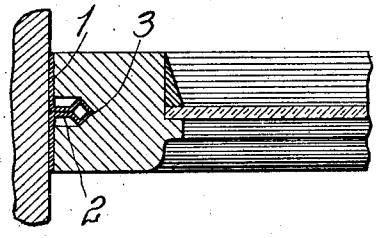
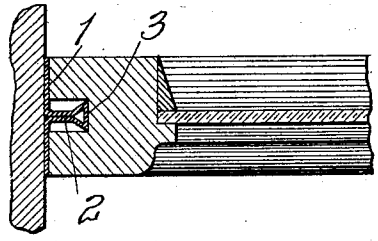


FIG. 5.



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UNITED STATES PATENT OFFICE.

HUGH E. KENNY, OF DETROIT, MICHIGAN, ASSIGNOR TO THE CHAMBERLAIN METAL WEATHER STRIP COMPANY, OF DETROIT, MICHIGAN, A CORPORATION OF MICHIGAN.

WEATHER-STRIP AND GUIDE FOR WINDOWS.

SPECIFICATION forming part of Letters Patent No. 694,062, dated February 25, 1902.

Application filed May 4, 1901. Serial No. 58,720. (No model.)

To all whom it may concern:

Be it known that I, HUGH E. KENNY, a citizen of the United States, residing at Detroit, in the county of Wayne and State of Michigan, have invented or discovered certain new and useful Improvements in Weather-Strips and Guides for Windows, of which improvements the following is a specification.

The invention described herein relates to certain improvements in weather-strips of the class or kind in which a thin bead or rib of metal is secured to the window-frame and projects into a groove formed in the sash. As at present constructed the groove is made of such a width relative to the thickness of the bead or rib that the side walls of the groove will bear against the rib to form a tight joint. In damp weather the wood of the sash will swell, causing the rib to be gripped laterally by the walls of the groove, thereby rendering it difficult to raise and lower the sash.

The object of the present invention is to so construct the rib and groove that ample bearing-surfaces to effect a tight joint will be formed along the edge of the rib and sides closely adjacent thereto and the bottom of the groove, while the side walls of the groove will not bear against the rib, thereby avoiding any gripping of the ribs by the sash.

The invention is hereinafter more fully described and claimed.

In the accompanying drawings, forming a part of this specification, Figure 1 is a transverse section through a portion of a frame and sash, showing my improved weather-strip in position. Fig. 2 is a sectional detail view, on an enlarged scale, showing the form of strip shown in Fig. 1. Figs. 3, 4, and 5 are views similar to Fig. 2, illustrating modifications in the form of the strip.

In the practice of my invention the weather-strip is formed with a base 1 and a rib 2, projecting at right angles from the base 1. This rib is formed with a bead or enlargement 3 along its outer edge. As shown in Figs. 1 and 2, the rib may be formed with outwardly-inclined sides which gradually merge into the bead; or, if preferred, the rib may be formed with parallel or approximately parallel sides and the bead or enlargement along its outer edge may be made circular or angular in cross-section. The groove 4 in the sash is made of such a width and depth that the rib will not bear against or contact with the walls of the groove except at the bottom thereof or the portions of the side walls closely adjacent to the apex of the bead. As the sides of the rib are undercut and as the groove is made of a width at least equal to the thickness of the bead, the swelling of the wood of the sash will not produce any gripping action on the rib, and the sash will move freely, while maintaining a good bearing on the bead.

The weather-strip can be conveniently formed by suitably bending a length of sheet metal of suitable width.

I claim herein as my invention—

1. A combination of a window-sash provided with longitudinal grooves in its edges and a metal weather-strip consisting of a base and a rib formed integral with each other, portions of the rib between its edge and the base having a thickness less than the width of the groove, so that the rib will bear only along its edge or sides adjacent thereto against the bottom of the groove and sides adjacent thereto in the sash.

2. A metal weather-strip consisting of a base and a rib formed integral with each other, the sides of the rib being undercut, substantially as set forth.

3. A metal weather-strip consisting of a base and a rib formed integral with each other, said rib being formed with a bead or enlargement along its edge, substantially as set forth.

In testimony whereof I have hereunto set my hand.

HUGH E. KENNY.

Witnesses:
WILLIAM E. HENZE,
CHAS. H. BREDIN.