

No. 786,972.

PATENTED APR. 11, 1905.

H. E. KENNY.
WEATHER STRIP.
APPLICATION FILED OCT. 11, 1904.

Fig. 1.

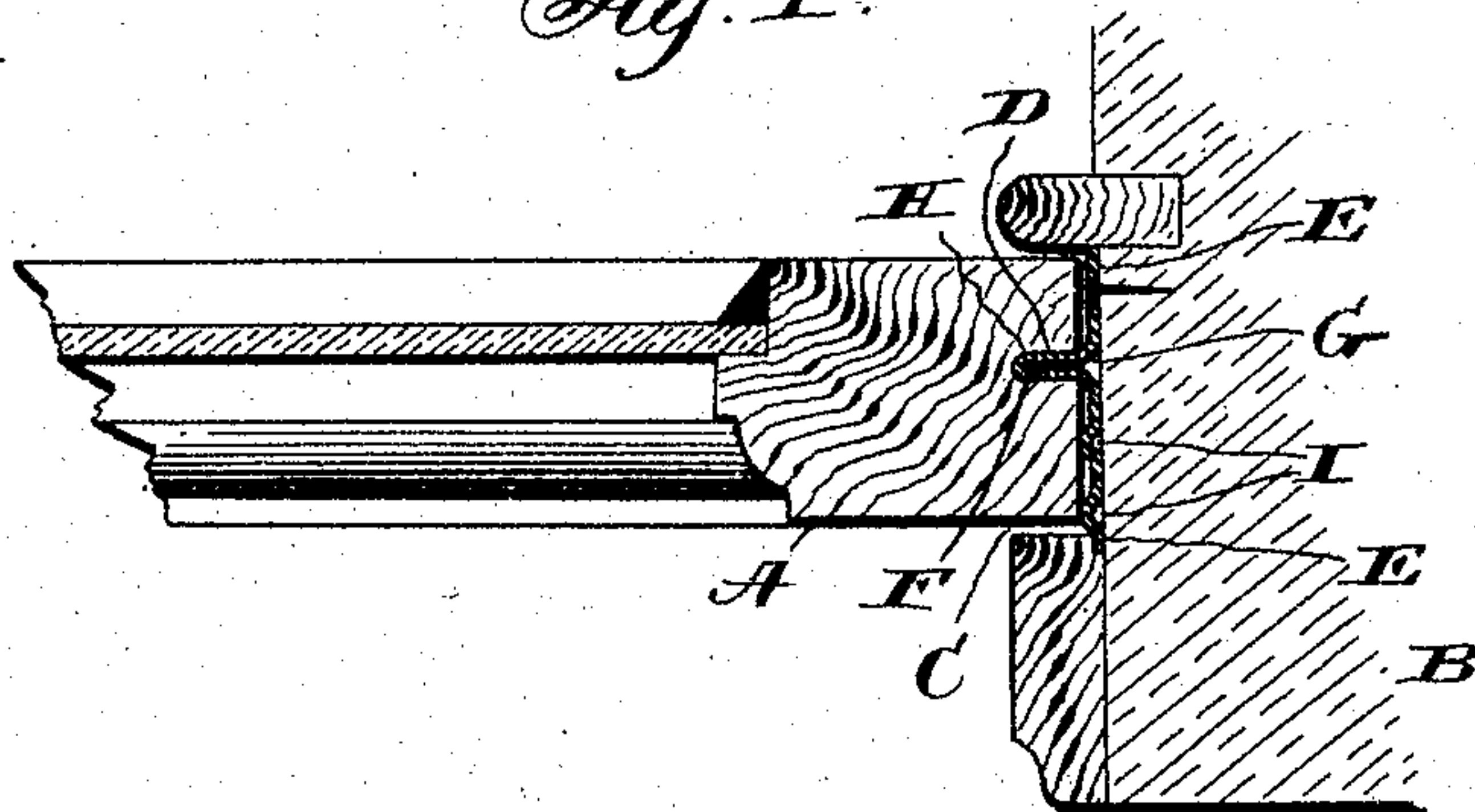


Fig. 2.

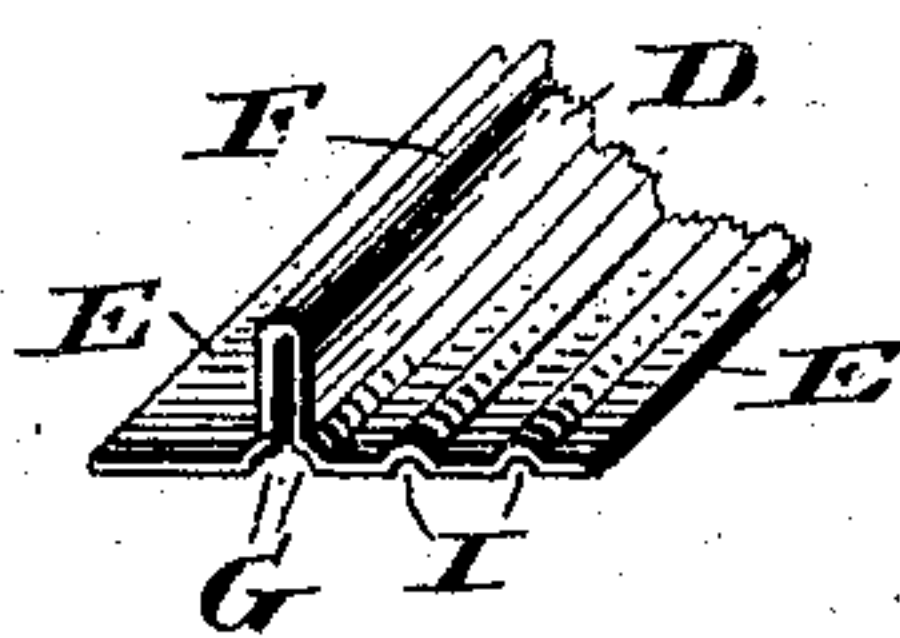


Fig. 3.

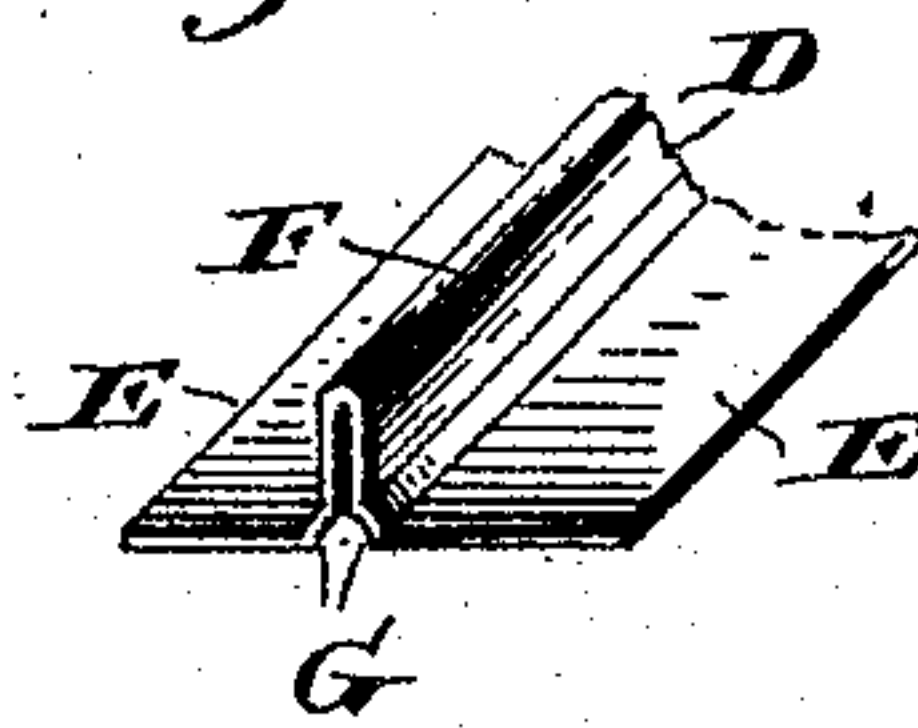
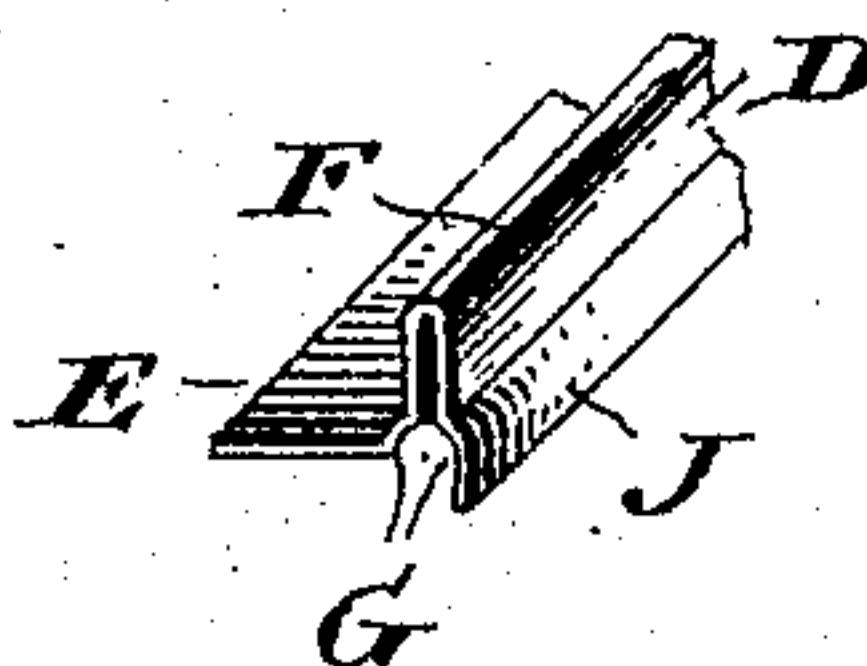


Fig. 4.



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UNITED STATES PATENT OFFICE.

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WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 786,972, dated April 11, 1905.

Application filed October 11, 1904. Serial No. 228,028.

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 certain new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to improvements in weather-strips, and has for its object the provision of a strip of this character having a base or securing flange and a sealing rib or flange adapted to enter a complementary groove in a window-sash or the like, a portion of the sealing rib or flange being enlarged, whereby the same may effectually close the side opening of the groove incident to a loose fitting of the parts or the wearing away of the corners of the sash bordering said groove.

The novel characteristics of the invention will be apparent from the detailed description hereinafter when read in connection with the accompanying drawings, forming part hereof, and wherein several convenient embodiments of the invention are illustrated, it being understood that the several embodiments disclosed are merely to enable a clear understanding of the invention and that the invention is susceptible of still further embodiments without departing from the spirit thereof.

In the drawings, Figure 1 is a cross-sectional view of a window-frame and sliding sash with a preferred form of my strip applied thereto. Fig. 2 is a perspective view of a part of the strip shown in Fig. 1 detached from the frame. Fig. 3 is a view similar to Fig. 2 of another embodiment of the invention, and Fig. 4 is a similar view of a third embodiment of the invention.

Referring more specifically to the drawings, wherein like reference characters indicate corresponding parts in the several views, A designates a sectional fragment of a sliding window-sash, and B the window frame or casing, having the usual runway C for the reception of the edge of the sash A, and within which

said sash slides up and down in the ordinary manner.

D represents my improved strip, which may be formed of any suitable material, conveniently sheet metal, the same having base or securing flanges E of any desired width to secure proper mounting of the same according to the size and style of the sash or frame to which the same is to be applied and a longitudinally-disposed sealing rib or flange F, in the present instance bent up from the base-flange E, said sealing rib or flange being of substantially uniform width throughout and enlarged at its respective sides and adjoining the juncture of said sides with said base-flanges, as indicated at G.

In Fig. 1 it will be noted that one of the securing-flanges is tacked in place while the other is free, the latter being held against outward movement by the usual molding or facing strip.

Although it is obvious that the strip as above defined may be applied to either the base of the runway C in the casing B or to the edge of the sliding sash A and that the sealing rib or flange F may work in a complementary groove in said sash or casing, as the case may be, I have shown in Fig. 1 the usual arrangement, in which the base or securing-flanges E are fastened to the base of the groove or runway C and the sealing rib or flange F projects into a groove H in the edge of the window-frame A. As is also represented in this figure, the enlargements G of the sealing rib or flange are so arranged that they take up the space between the side edges of the sash and base of the runway or groove in the frame and effectually close the side opening of the groove H by contacting with the corners of the sash bordering said groove, these enlargements not only closing any opening resulting from an initial loose fitting of the parts, but also taking up any slight space resulting from the wearing away of said corners of the frame when in use, it being noted that the enlargements are either curved or

inclined to diverge toward the base or securing flanges E.

In the form of the strip shown in Figs. 1 and 2 the strip is formed with longitudinally-disposed small rubbing-surfaces I, they being in the nature of corrugations or ribs and their purpose being to greatly reduce the frictional contact-surface between the sash and base of the guide-groove. When these rubbing-surfaces are employed, the enlargements G are particularly useful in that they fill the space between the base of the runway and the edge of the sash, which might otherwise leave the opening of the groove unobstructed, the enlargement G also serving as small rubbing-surfaces.

The embodiment of the strip illustrated in Fig. 3 is in all respects like that of the preceding figures save only that the rubbing-surfaces are omitted.

In the form shown in Fig. 4 the rubbing-surfaces are also omitted and one of the base or securing flanges (represented at J) is bent downwardly in a plane substantially parallel to that of the sealing rib or flange rather than in a horizontal plane, as in the other embodiments.

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

1. In combination with a grooved sash or the like and its frame, a weather-strip having a securing-flange and a rib or flange slidably engaging the groove in the sash, and an enlargement on the rib or flange for closing the side opening of said groove.

2. A weather-strip provided with a securing-flange and a narrow sealing rib or flange, and an enlargement on the rib or flange for closing the side opening of a sash-groove.

3. In combination with a sash member and its frame member one of which has a groove, a weather-strip having a securing-flange and a rib or flange slidably engaging said grooved member and fastened to the other member, and an enlargement on the rib or flange for closing the side opening of the groove.

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

HUGH E. KENNY.

Witnesses:

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