No. 765,844. PATENTED JULY 26, 1904.

H. E. KENNY.

METAL WEATHER STRIP

APPLICATION FILED OCT. 17, 1902.

NO MODEL.

Fig. 1.

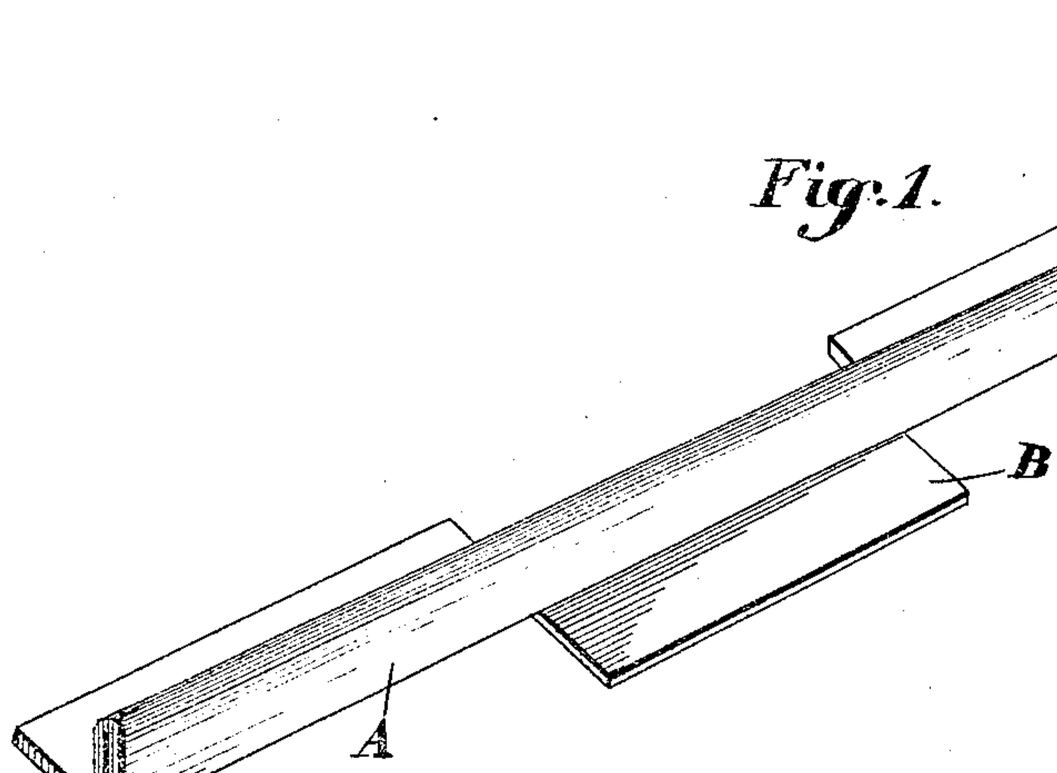


Fig. 2.

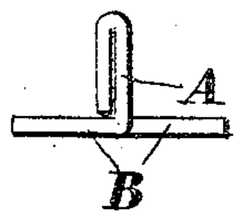
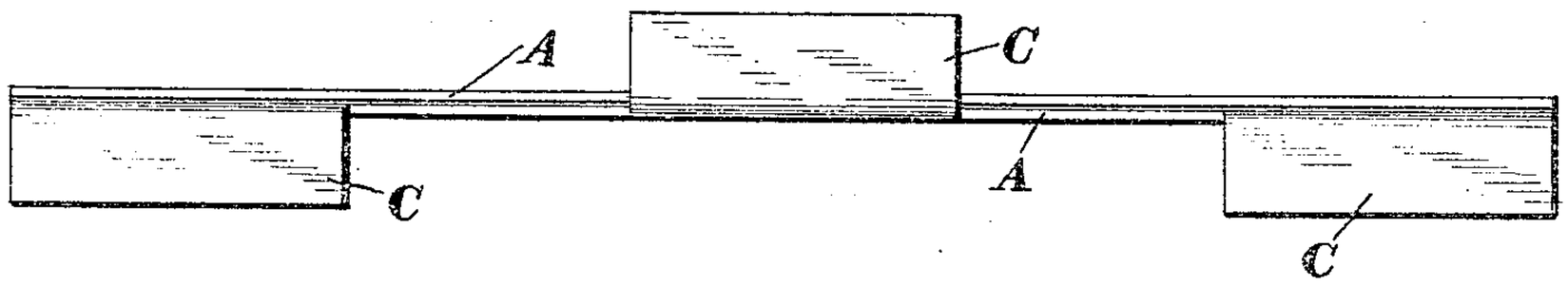


Fig. 3.



Witnesses

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UNITED STATES PATENT OFFICE.

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METAL WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 765,844, dated July 26, 1904.

Application filed October 17, 1902. Serial No. 127,734. (No model.)

To all whom it may concern:

Be it known that I, HUGH EDWARD 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 Metal Weather-Strips, of which the following is a specification, reference being had therein to the accompanying drawings.

This invention relates to an improvement in weather-strips, and more particularly to that type of strip which is now commonly known as the "metal" strip; and it consists in the construction and arrangement of parts presently to be described, and defined in the claims.

It is now generally recognized that the metal type of strip is preferable to the yielding or elastic type. The strips of the former type are more usually applied by being placed directly at the bottom of the grooves of the window-casing, with their sealing edges fitted loosely in grooves in the sliding sash. The metal type of strip constitute not only a weather-strip, but also a guide-strip for the sash, preventing largely the annoyance of rattling of the sash. Heretofore the more usual type of metal strips have been formed with a U-shaped or return-bent sealing-flange and securing or base flanges located on opposite sides of the sealing-strip. My present invention relates to this particular type of strip; and its object is the production of an inexpensive strip employing much less metal than is usually employed in a double base or flanged type and at the same time forming a very rigid and satisfactory strip.

In the accompanying drawings I have shown the invention in various forms. Figure 1 represents in perspective what may be termed the "preferred" form of strip. Fig. 2 is an end view of the strip shown in Fig. 1. Fig. 3 is a modified construction.

In the drawings, A designates the sealing-strip, which is conveniently and in the preferred form constructed in the form of a U-shaped strip, the metal being bent onto itself. From alternately opposite sides of the strip are extended securing-flanges B. In practice I have found it convenient to form these flanges from the same side of the metal strip, bending one in one direction and the other directly below the edge of the return sealing-flange and in the opposite direction. This affords economy in manufacture and insures the parallelism of the branches or return-bends of the sealing-strip, in that in forcing of tacks or nails through the securing-flanges B the tension or strain is brought entirely on one of the flanges. This construction, however, while being preferred may be slightly modified, as shown in Fig. 3. In that form in lieu of the longitudinal securing-flanges B are shown small ears C struck up from the metal of the sealing-flange at the lower edge and conveniently at points diagonally opposite or staggered.

In attaching the strips to window-frames the tacks or nails are projected directly through the flanges B at either one or more points or through the ears C, and the strip is thereby quickly and firmly secured to the frame. It will be noticed that in the constructions shown large saving of metal is acquired, and in addition thereto the sealing flange or strip is firmly and rigidly secured in position.

An additional advantage in the construction shown is that while the securing-flanges are formed from the metal at one side of the return-bend or sealing-flange, yet as the securing-flanges are on opposite sides the strip when secured in place cannot be forced over by bending the securing-flange at a point between the tacks and the sealing-flange, as would be the case were the securing-flange on one side only.

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

1. A metal weather-strip consisting of a sealing-flange formed of a strip bent upon itself and having at one edge a series of securing-flanges extending at an angle thereto, part of the series being bent under the sealing-flange.

2. A metal weather-strip consisting of a sealing-flange formed of a strip of metal bent upon itself, and a series of securing-flanges extending from one edge of the strip in op-

posite directions whereby the strip may be secured on opposite sides.

3. A metal weather-strip consisting of a return-bend sealing-flange having a series of securing-flanges on one edge only, bent alternately in opposite directions.

4. A metal weather-strip comprising a U-shaped sealing-flange one edge of which is extended throughout its length and separated alternately at intervals, the adjacent portions being bent in opposite directions and at right angles to the sealing-flange.

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

HUGH EDWARD KENNY.

Witnesses:

MAY M. CAROLIN,

ALFRED W. BECK.