

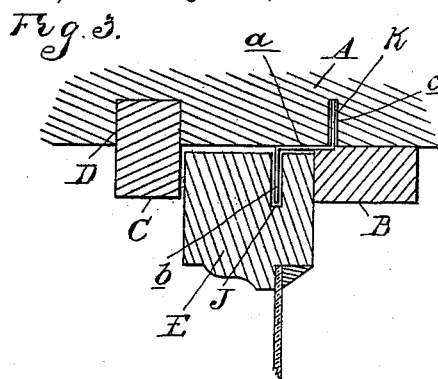
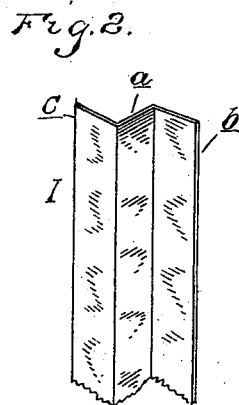
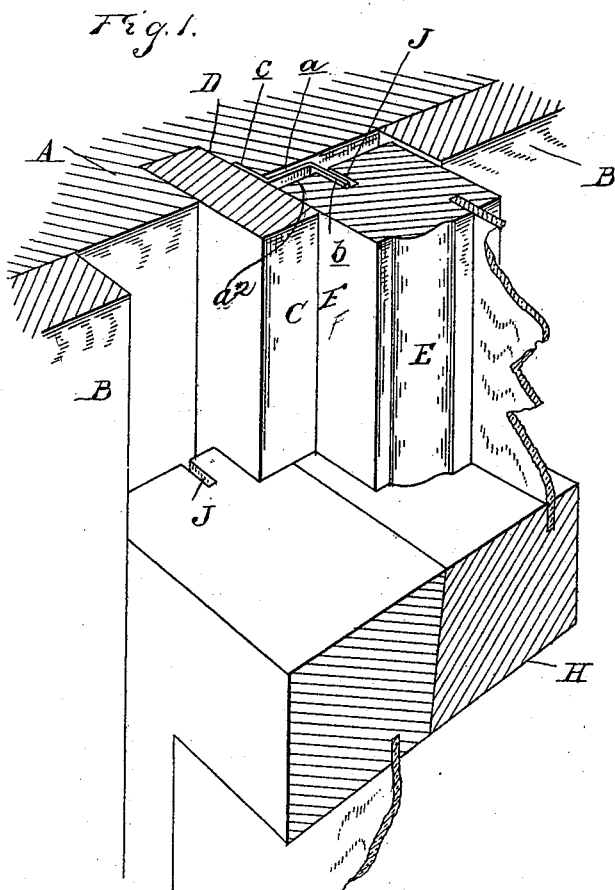
No. 648,198.

Patented Apr. 24, 1900.

E. P. DOTY.
WEATHER STRIP.

(Application filed Jan. 9, 1899.)

(No Model.)



Witnesses
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UNITED STATES PATENT OFFICE.

EDWIN P. DOTY, OF DETROIT, MICHIGAN, ASSIGNOR OF ONE-HALF TO
S. WIGHTMAN STEWART, OF SAME PLACE.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 648,198, dated April 24, 1900.

Application filed January 9, 1899. Serial No. 701,662. (No model.)

To all whom it may concern:

Be it known that I, EDWIN P. DOTY, 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.

The invention has reference generally to weather-strips, and relates particularly to that type of strip that is adapted for use in connection with windows.

One of the objects of my invention is to provide a strip of the kind referred to that will be of simple construction, permitting of its being cheaply manufactured, and of such peculiar formation as will allow of its being readily and quickly applied to a window, causing the latter to be impervious to rain or wind.

A further object of the invention is to form the weather-strip in such manner that it will occupy a minimum amount of space when arranged in operative relation to the window; and a still further object is to provide means whereby the strip will be held or locked in its proper position between the casing and sash by means of the parting-strip and stop of the casing, thus dispensing with the use of nails or similar securing devices.

With these objects in view my invention consists in the novel construction of the weather-strip and the peculiar manner of securing the same within the window-casing, as will be more fully hereinafter described, and shown in the drawings, in which—

Figure 1 is a sectional perspective view illustrating my improved strip as applied to a window. Fig. 2 is a perspective view of a portion of the weather-strip proper, and Fig. 3 is a modified sectional view.

The reference-letter A, Fig. 1, designates a window-casing which is provided on each side with a stop B and a parting-strip C. The latter strips are secured in the usual manner in vertical grooves or recesses D, formed in the casing, and between the strips and stops is arranged the sash E, the sash sides, or what will be hereinafter termed the "side members," being arranged immediately adjacent to the vertical grooves D.

The construction of sash comprises the usual top, (not shown,) side members F, and a meeting-rail H, and between the faces of the side members presented toward the casing, or what will be hereinafter termed the "meeting faces" of the side members, and the casing is placed my weather-strip.

The material from which the strip is made is preferably sheet metal, which is cut into suitable lengths and formed into double angle-bars, as shown in Fig. 2, comprising a main section *a* and oppositely-turned transverse wings *b* and *c*.

In assembling the parts the parting-strip C being first removed from the window-casing, the weather-strip is arranged between the casing and the sash side in such manner that one of the transverse wings of the strip will engage within the vertical groove or kerf J, formed in the meeting faces of the side member intermediate the edges *a*² of the latter, while the opposite wing will engage within the vertical groove D in the casing. This arrangement permits the main section *a* to lie between the meeting face of the side member and the portion of the casing opposite said face and also substantially between the edges *a*² of the meeting face of the sash side, whereby the entire weather-strip is entirely concealed from view. The parting-strips are then driven within their respective recesses and by abutting against the inwardly-extending wings hold the strips fixedly secured in their proper position within the casing.

It will thus be seen that I have provided a strip of simple construction that may be cheaply manufactured and have formed the same in such manner that the parting-strip of the sash is utilized as the locking device of said strip, thus dispensing entirely with the use of brads or other securing means. It will likewise be observed that by forming the strip in the manner as shown and out of thin sheet metal, as I preferably do, the strip may be applied to any window, and while occupying a minimum amount of space will be entirely concealed from view, thus making the strip a desirable one for use.

While the manner of securing the strip to the casing, as before set forth, is a preferable method, it will be readily observed that in-

stead of employing the parting-strip as the
securing device I may use the blind-stop for
that purpose, the arrangement of the parts be-
ing as shown in Fig. 3. In this construction
5 a recess K is formed in the casing forwardly
of the sash in which a wing of the weather-
strip is arranged. The stop B when secured
to the casing covers a part of the weather-
strip—viz., the intermediate portion thereof—
10 thus securely holding the latter in place in
substantially the same manner as the part-
ing-strip.

What I claim as my invention is—

The combination with a window frame or
13 casing, having a vertical groove formed there-
in immediately adjacent to the side member
of a sash, a sash sliding in the casing having
a vertical kerf formed in the meeting face of
its side member, and a weather-strip engag-
20 ing the casing and sash, comprising a main

section arranged between said casing and the
meeting face of the sash side, a transverse
wing at one end of said section projecting
within the vertical groove in the window-cas-
ing and lying concealed from view substan- 25
tially between the edges of the side member
of the sash, an oppositely-turned wing upon
the other end of said main section extending
within the kerf in the meeting face of the
sash side, and a stop extending within the 30
vertical groove in the window-casing and
bearing against the wing therein, for the pur-
pose described.

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

EDWIN P. DOTY.

Witnesses:

M. B. O'DOHERTY,
H. C. SMITH.