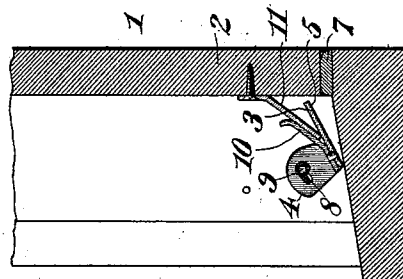
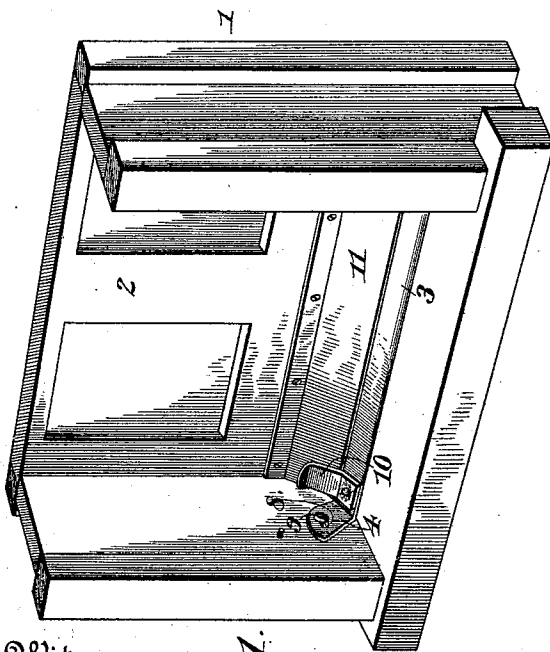
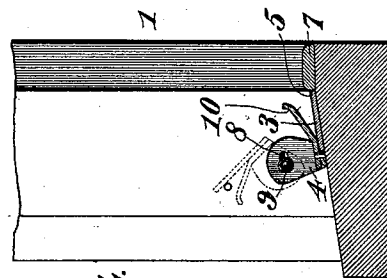
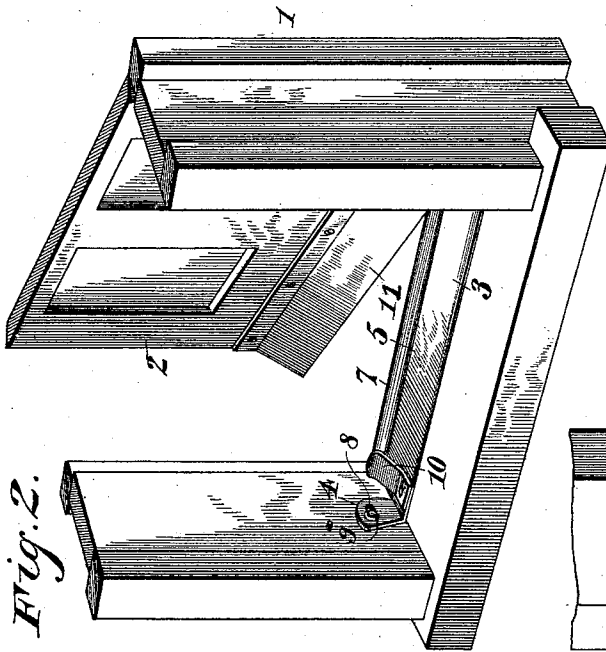


(No Model.)

A. H. COLE & G. R. MENIN.
WEATHER STRIP.

No. 536,919.

Patented Apr. 2, 1895.



Witnesses;

J. M. Withers
R. H. Young

Inventors;

A. H. Cole & G. R. Menin,

By Joseph H. Atkins
Attorney

UNITED STATES PATENT OFFICE.

ALLEN H. COLE AND GEORGE R. MENIN, OF NEWPORT NEWS, VIRGINIA.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 536,919, dated April 2, 1895.

Application filed March 19, 1894. Serial No. 504,343. (No model.)

To all whom it may concern:

Be it known that we, ALLEN H. COLE and GEORGE R. MENIN, of Newport News, in the county of Warwick and State of Virginia, have invented certain new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had to the accompanying drawings.

The object of our invention is the production of a weather strip for doors adapted to be actuated to fulfill its office by the closing of the door without securing the strip or any of its adjuncts to the sill of the door, and which may be swung from contiguous relation to the sill to facilitate sweeping or like operations.

In the accompanying drawings: Figure I is an inside view of a section of door frame and door without the device attached, showing the door closed. Fig. II is a similar view, showing the door partly open. Fig. III is a central vertical section of the door frame and door, the door being closed; and Fig. IV is a similar view showing the position of the strip when the door is open, and in dotted lines illustrating the position of the strip when it is swung upward to facilitate the operation of sweeping.

Referring to the figures on the drawings: 1 indicates an ordinary door frame, and 2 the door.

3 indicates the weather strip which consists of a metallic plate provided at its opposite ends, and adjacent to its rear edge, with upwardly inclined lugs 4, which movably sustain the strip and constitute its forward edge a positive counter-weight which projects considerably beyond them, as indicated at 5, to cause the strip, when not in use, to lie flat upon the threshold 6.

7 indicates an ordinary carpet strip, which is preferably employed in connection with our invention. The weather strip is designed in closing to clear the carpet strip, and to lie flat upon the threshold behind it so as to afford little or no obstruction to ingress or egress through the door-way.

In order that the strip 3 may lie flat upon the threshold, as indicated in full line in Fig. IV, and that its rear edge may rest directly upon the threshold when the strip is swung into the position indicated in Fig. III, the

lugs are pierced by elongated transverse slots 8 through which pins 9 are passed into the door frame to provide a varying pivotal support for the strip. This variable center or pivot is made necessary for the reason that a constant or fixed center would prevent the tilting of the strip from the position illustrated in Fig. IV for the reason that its rear edge would necessarily describe an arc, and would be prevented from so doing by the threshold. If, on the other hand, it were possible to tilt the strip it would be impossible without the employment of a variable center to cause the strip to lie flat.

10 indicates what may be called a trip arm with which a bent plate 11 secured to the door, engages when the door is closed and raises the strip snugly against the plate as shown in Fig. I of the drawings to make a tight joint, the rear edge of the strip resting upon the threshold. When the door is open the weight of the strip causes it to drop toward the threshold, and by reason of the transverse slots, through which the pins pass, the center of rotation changes so that the strip may lie flat thereon, as illustrated in Fig. IV of the drawings.

By the construction and arrangement of parts described, the strip may be completely inverted in order to facilitate the operation of sweeping, and may be held in such position by suitable stop mechanism, as for instance, a pin located in the path of the strip.

We do not desire to limit ourselves to the details of construction herein shown and described, inasmuch as our invention comprehends a strip adapted to be swung into position for facilitating the operation of sweeping, and in the novel construction herein described and illustrated, which renders the same possible while permitting the strip to lie flat upon the threshold, or its rear edge to rest thereupon when the strip is tilted.

What we claim is—

1. The combination with a suitable support of a weather strip having upwardly projecting lugs at its opposite ends provided with apertures and pivot pins passing through the apertures, whereby the strip may be turned to the inverted position and sustained at a considerable distance upon the sill by reason of said lugs, substantially as specified.

2. The combination with a suitable support, as a door frame, of a weather strip provided with upwardly projecting lugs at its opposite ends, transverse elongated slots in the lugs, 5 pivot pins passing through the slots, and mechanism for tilting the strip, substantially as specified.

3. The combination with a support, as a door frame, of a weather strip provided with 10 upwardly projecting lugs at either end, and adjacent to the rear edge thereof provided with transverse elongated slots, and with a trip arm, pivot pins passing through the slots

in the lugs, a bent plate secured to the door and adapted to engage the trip arm to tilt the 15 strip, and means for supporting the weather strip in the inverted position, substantially as specified.

In testimony of all which we have hereunto subscribed our names.

ALLEN H. COLE.
GEORGE R. MENIN.

Witnesses:

M. J. MOORE,
P. T. MAEYE.