

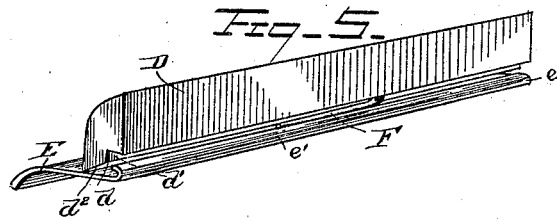
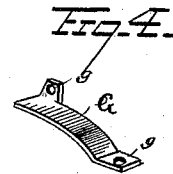
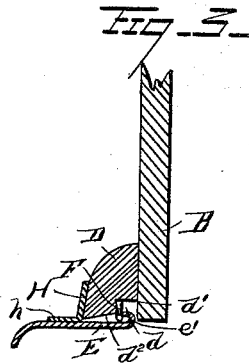
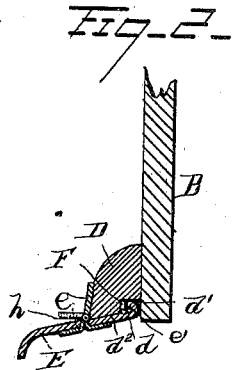
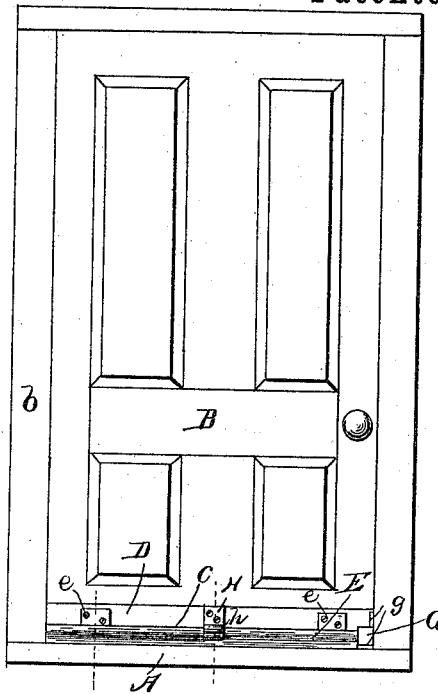
(No Model.)

W. H. RANDLE.

WEATHER STRIP.

No. 344,921.

Patented July 6, 1886.



Witnesses

Wm. J. Glee
H. J. Gerhart

Inventor

Wm. H. Randle

By his Attorney

C. A. Howdler

UNITED STATES PATENT OFFICE.

WILLIAM HENRY RANDLE, OF GLASCO, KANSAS.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 344,921, dated July 6, 1886.

Application filed April 21, 1886. Serial No. 199,554. (No model.)

To all whom it may concern:

Be it known that I, WILLIAM HENRY RANDLE, a citizen of the United States, residing at Glasco, in the county of Cloud and State of Kansas, have invented new and useful Improvements in Weather-Strips, of which the following is a specification, reference being had to the accompanying drawings.

My invention relates to improvements in weather-strips; and it consists of the peculiar and novel construction and combination of parts, that will be hereinafter fully set forth, and particularly pointed out in the claim.

The object of my invention is to provide an improved weather-strip which shall effectually exclude water, snow, wind, and drafts from passing beneath the door and injuring the carpet; to provide an improved device which shall be automatically elevated to clear the carpet or rugs when the door is opened, and likewise depressed to its closed position when the door is closed.

The device is very simple in its construction, and it is also strong and durable. It is very cheap and inexpensive to manufacture, and easily and readily applied and adjusted for use.

In the accompanying drawings, Figure 1 is an elevation of my improved weather-strip applied to a door. Figs. 2 and 3 are transverse vertical sectional views through my improved weather-strip applied to a door, showing it in its open and closed positions. Fig. 5 is a detached detail view of the weather-strip, and Fig. 4 is a like view of the keeper.

Referring to the drawings, in which like letters of reference denote corresponding parts in all the figures, A designates the sill of the door, B the door hinged at one edge to the jamb *b*, and C my improved weather-strip, which comprises a molding-strip, D, and a hinged spring-pressed plate, E. The molding-strip D is of any preferred form or design, and in its lower edge it is provided with a transverse recess, *d*, which is of such a shape as to form a groove, *d'*, and an inclined lip, *d''*, at its front edge, the inclination of which corresponds to the angle of the hinged plate E when in its closed position. The plate E is made of metal, and it is curved transversely, as more clearly shown in Figs. 2 and 3, and

the upper or rear free edge of the plate rests in the groove *d'* when the strip is closed; or, when the door is opened, the said edge of the plate rests or lies in the space between the door and lip *d''*, the strip being nailed or secured on the door near its lower edge. The plate E is hinged to the molding-strip D, as at *e*, and it is normally held in an elevated position when the door is open by means of a spring, F, which is preferably a flat or leaf spring, and seated or fitted in the groove *d'*, one end of said spring being secured to the strip D, and the opposite end is free and bears on the free edge of the plate in rear of its hinges *e*. The upper edge of the hinged plate is bent upon itself to form an angular lip, *e'*, that projects therefrom and fits closely and snugly within the groove, to exclude water and snow from the room or apartment; and the lower curved edge of the plate bears against the door-sill when closed, one end of the plate being confined by a keeper, G, that is curved concentric with the transverse curve of the hinged plate, said keeper serving to depress the plate when the door is being closed, and it has projecting or angular perforated lugs *g*, for the passage of nails or screws to secure it in place to the door sill and jamb.

The operation of my invention is obvious: When the door is closed, the free lower edge of the hinged plate bears against the sill, and one end of said plate lies in rear of the keeper, while the upper edge bears against the inclined lip *d''* of the strip, and the angular lip *e'* rests or fits in the groove *d'*, thus effectually excluding the water, snow, wind, &c. When the door is opened, the plate E is elevated by the pressure-spring so as to clear the sill and the carpet, and upon closing the door the free edge of the plate strikes the keeper and is depressed so that its free edge bears against the sill.

I attach especial importance to the peculiar form of the strip D, having the groove and lip *d''*, and to the hinged plate provided with the angular lip to fit in the groove.

H designates a bracket, which has an angular lip or arm, *h*, that bears against the outer face of the plate E, to limit the upward movement thereof. This bracket thus serves as a stop to the plate E, and it is secured on the

outer face of the molding-strip by screws, so that it can be elevated or depressed, to permit the plate E to have different or varying lengths of movement.

5 Having thus described my invention, what I claim as new, and desire to secure by Letters Patent, is—

As an improvement in weather-strips, the combination of a strip, D, having a longitudinal groove, d' , and an inclined lip, d^2 , in its lower edges, a plate, E, hinged directly to and carried by the strip D at e , and having the transversely-curved lower edge and the lip or flange e' , formed by bending the plate upon 15 itself, and fitting snugly in the ground d' , the

spring F, concealed in the groove of the strip D and bearing on the inner edge of the hinged plate, a keeper, G, against which the lower curved edge of the hinged plate abuts, and the stop H, secured directly to the outer face 20 of the strip D and adjustable vertically thereon, all arranged and combined substantially as set forth.

In testimony that I claim the foregoing as my own I have hereto affixed my signature in 25 presence of two witnesses.

WILLIAM HENRY RANDLE.

Witnesses:

WM. KIMNERLING,
JACOB SHANKS.