

(No Model.)

A. L. KIRKPATRICK.
WEATHER STRIP.

No. 416,411.

Patented Dec. 3, 1889.

Fig. 1.

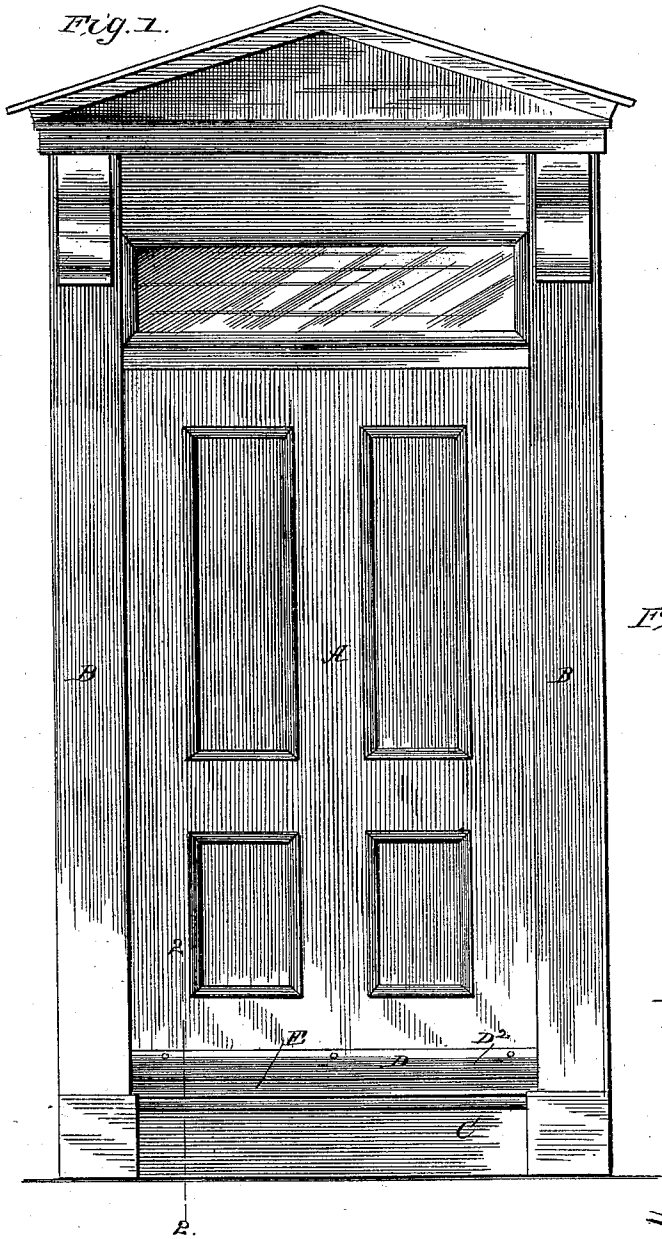


Fig. 4.

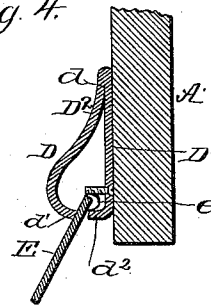


Fig. 2.

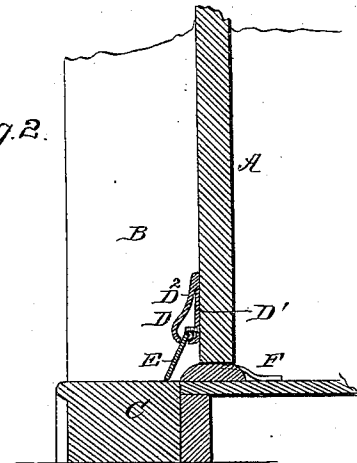


Fig. 3.

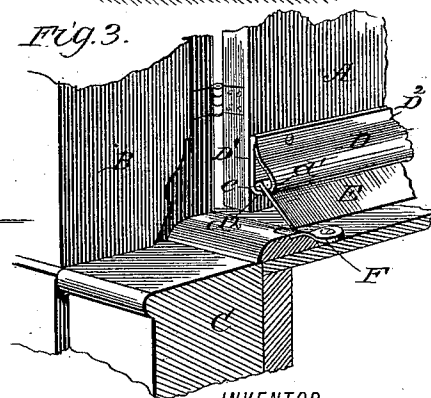
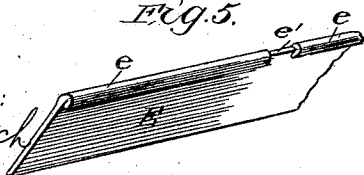


Fig. 5.



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ALEXANDER L. KIRKPATRICK, OF ORRICK, MISSOURI.

WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 416,411, dated December 3, 1889.

Application filed August 14, 1889. Serial No. 320,777. (No model.)

To all whom it may concern:

Be it known that I, ALEXANDER L. KIRKPATRICK, of Orrick, in the county of Ray and State of Missouri, have invented a new and useful Improvement in Weather-Strips, of which the following is a specification.

My invention is an improvement in weather-strips, seeking to provide a simple construction which may be easily applied to the door, will not impede the opening and closing thereof, and will efficiently exclude wind and rain.

The invention consists in certain novel constructions and combinations of parts, as will be hereinafter described, and pointed out in the claims.

In the drawings, Figure 1 is a front view of a door provided with my improvements. Fig. 2 is a section on line 2 2 of Fig. 1. Fig. 3 is a detail perspective view showing a part of the door open. Figs. 4 and 5 are detail views.

The door A is fitted in the frame B, being hinged at one side, as usual, and fitting, when closed, above the threshold C. The weather-strip is secured to the outer face of the door at its lower edge, and consists of the holder D and the strip proper E. The holder D is secured to the door, and is formed of the inner and outer plates D' D², bent, respectively, out and in at their lower edges, forming flanges d' d², the said plates D' D² being, preferably, integral and formed from a single plate by bending the same upon itself at d, as shown. The inner plate D' is made flat and fits against and is secured to the door, while the outer plate curves outward and inward toward its lower end, giving it the appearance of a molding and rendering it more springy or elastic. The flanges d' d² project toward each other, their adjacent edges being separated sufficiently to admit the plate or strip E. This strip E has at its upper edge a rib or bead e, which retains the strip in the holder. In said upper edge is formed a notch or slot e' to receive a pin or screw inserted through the inner plate D, such screw serving to hold the strip in position, and the slot e' being elongated in the

direction of length of the strip and permitting a limited longitudinal movement of the strip to prevent the said strip from injuring the door-frame by striking against it.

It will be seen that the plates of the holder form between them a receiver for the bead e and serve to hold the strip E with its lower edge pressed firmly down, the outer plate D² of the holder operating as a spring to bear against the plate or strip E and operate the latter in such manner as to give its lower edge a tension inward toward the door. When the door is closed, the plate E closes down tightly against the sill and will act to exclude wind and rain. As the door is opened, the strip is raised and held up by the threshold and is held by the latter clear of the carpet unless the door be opened past a right angle to the doorway. To facilitate the lifting of the strip when the door is so open, and it is desired to close the same, I provide on the inner side of the threshold a metal plate or strip F in position for engagement by the end of the strip as the door is closed and adapted to lift said strip onto the threshold.

Having thus described my invention, what I claim as new is—

1. A weather-strip comprising the holder having at its lower edge flange projections or portions which extend toward each other and the plate or strip fitted and held between said projections or portions, substantially as set forth.

2. In a weather-strip, the holder having inner and outer plates, the lower ends of which project, respectively, out and in with their adjacent edges close together, and the plate or strip proper having a bead at its upper edge and fitted in the holder, all combined substantially as set forth.

3. In a weather-strip, the combination of the holder, the strip fitted at its upper edge in such holder and having a notch or slot in such edge, and a pin or projection extended from the holder and entering said notch or slot, substantially as set forth.

4. The improved weather-strip consisting of the holder formed of a plate of metal

folded upon itself, forming the inner and
outer plates, having their lower edges formed
with flanges projecting toward each other,
the plate or strip proper having its upper
5 edge formed with a bead fitting in said
holder and provided with a slot in said beaded
edge, and a pin or projection extended from

said holder and entering the said slot, sub-
stantially as set forth.

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Witnesses:

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