

D. AUSTIN.  
Weather-Strip.

No. 204,122.

Patented May 28, 1878.

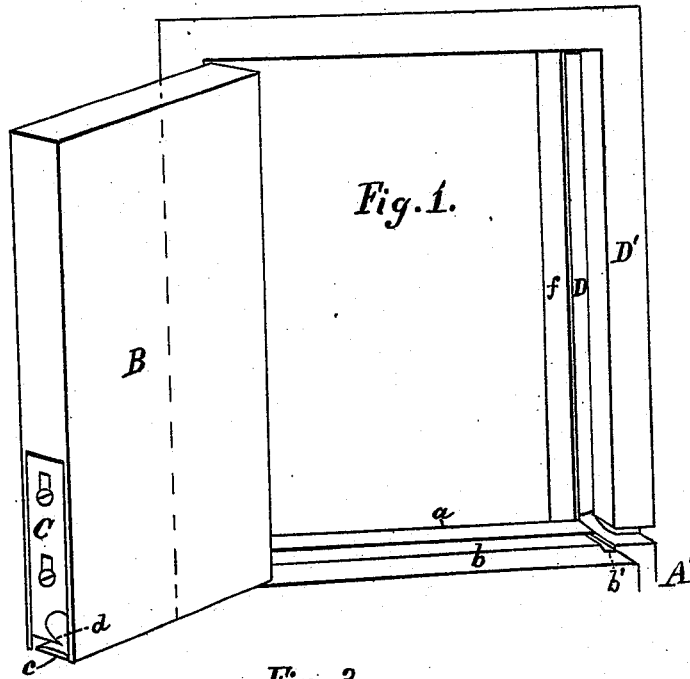


Fig. 3.

Fig. 2.

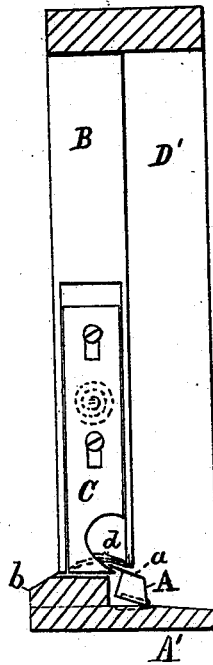
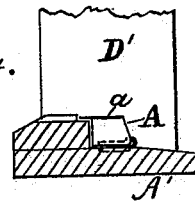


Fig. 4.



Witnesses:  
E. P. Goodwin  
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Inventor:  
Dinsmore Austin  
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# UNITED STATES PATENT OFFICE.

DINSMORE AUSTIN, OF MURRAY, IOWA, ASSIGNOR OF ONE-HALF HIS RIGHT TO EZRA T. DUFER AND JEDEDIAH KNOTTS, OF SAME PLACE.

## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 204,122, dated May 23, 1878; application filed February 5, 1878.

### *To all whom it may concern:*

Be it known that I, DINSMORE AUSTIN, of Murray, in the county of Clarke and State of Iowa, have invented certain new and useful Improvements in Weather-Strips for Doors; and I do hereby declare that the following is a full, clear, and exact description thereof, which will enable others skilled in the art to which it appertains to make and use the same, reference being had to the accompanying drawings, and to the letters of reference marked thereon, which form a part of this specification.

Figure 1 is a perspective view of the door with the improved weather-strip attached. Fig. 2 is an edge view of the door, showing the elastic strip in the groove of the door. Fig. 3 is a vertical sectional view, showing the position of the weather-strip when the door is closed. Fig. 4 shows the position of the hinged strip when the door is open, and when the weather-strip is not in use.

My invention relates to the class of door weather-strips in which the hinged strip is adjusted to be raised into a groove in the lower edge of the door; and the invention consists of an elastic strip, fastened at one edge and free at the other edge in the groove of the door, forming a yielding bearing-surface for and in combination with the hinged strip, as hereinafter fully described, and as shown in the drawings.

A is a strip provided with a metallic plate, *a*, and is hinged to the sill *A'* outside of the strip *b*. The inner edge of the plate extends beyond the hinged strip, and on the outer edge of the strip *b* a rabbet is formed to receive the projecting edge of the plate, so that their surfaces will be flush with each other when the door is open, and when the weather-strips are not in use, as shown in Fig. 4 of the drawings.

The lower edge of the door *B* is provided with a groove, in the lower part of which is adjusted the elastic strip *c*, extending horizontally across the groove. One edge of this strip is fastened in the groove, and the other edge is left free, for the purpose of forming a freely-yielding bearing-surface for the hinged strip, when raised into the groove, and insuring the contact of the hinged strip with it under all circumstances.

C is a plate, having on the lower part a

hook, *d*, curved on the upper edge, as shown in the drawings, to raise the hinged strip into the groove of the door. This plate, being provided with slots to receive its fasteningscrews, is adjusted to slide vertically in a recess in the edge of the door.

A spiral spring, *a'*, is adjusted in a recess in the door to bear against the back of the plate, to hold it in position vertically, to operate, or not, the hinged strip.

The plate *C* being moved downward in position for operating the hinged strip, as the door is closed the hook *d* catches under the plate *a*, raising the inner edge of the hinged strip against the lower side of the elastic strip *c*, which readily yields to the pressure of the hinged strip, allowing it to extend upward into the groove as far as the hook may carry it, forming thus a close joint, with a freely-yielding bearing-surface.

When the door is opened the hinged strip drops into the position shown in Fig. 4 of the drawings; and when the weather-strip is not in use the hook *d* is raised and protected in the recess in the door, as shown in Figs. 1 and 2 of the drawings.

I am aware that a hinged weather-strip, adjusted to be raised into a groove or recess in a door, is not new, and I do not claim such a weather-strip, groove, or recess.

I am also aware that a rubber pad or lining on the inner side of a strip attached to a door to overlap a hinged weather-strip is not new, and I do not claim such a pad or lining on such a strip; but

What I do claim as new, and desire to secure by Letters Patent, is—

In combination with the hinged weather-strip *A*, adjusted to be raised into the groove in the lower edge of the door, the elastic strip *c*, having one edge fastened in the groove and the other edge free, forming a freely-yielding bearing-surface for the hinged strip, substantially as and for the purposes described.

In testimony that I claim the foregoing as my own invention I affix my signature in presence of two witnesses.

DINSMORE AUSTIN.

Witnesses:

E. G. BEESON,  
ALBERT FOLKNER.