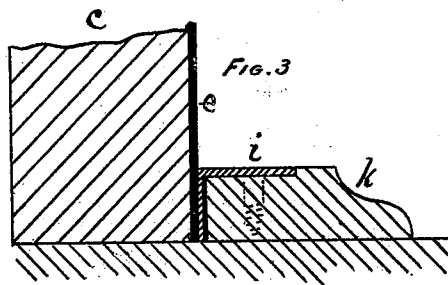
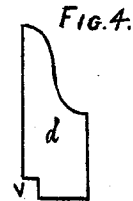
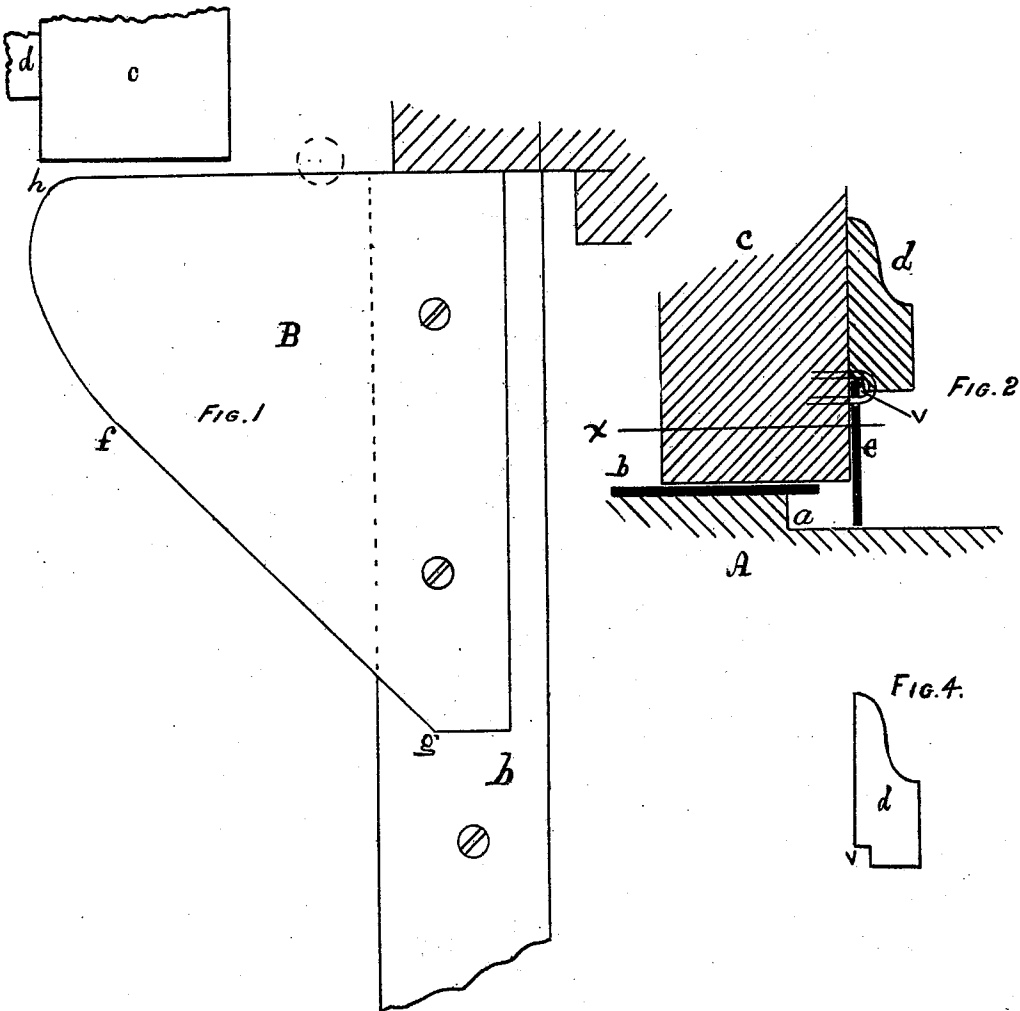


G. A. HERRICK.
WEATHER-STRIP.

No. 171,936.

Patented Jan. 11, 1876.



WITNESSES
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GILBERT A. HERRICK, OF MONTICELLO, WISCONSIN.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **171,936**, dated January 11, 1876; application filed August 13, 1875.

To all whom it may concern:

Be it known that I, GILBERT A. HERRICK, of Monticello, Green county, State of Wisconsin, have invented new and useful Improvements in Weather-Strips for the Bottoms of Doors, of which the following is a full description, reference being had to the accompanying drawings, in which—

Figure 1 is a plan view of the parts shown, except that the door-frame is in section; Fig. 2, a vertical section of the parts shown; Fig. 3, a horizontal section of the parts shown, taken on line *x* of Fig. 2, and Fig. 4 a detail.

This invention consists in providing the threshold with a rabbet and a strip of metal projecting over the same; in providing the strip, which is secured near the bottom of the door, with a rabbet, as hereinafter described; in providing a peculiarly-shaped plate, against which the loose weather-strip strikes when the door is being closed; and in the several combinations hereinafter described or claimed as new.

In the drawings, A represents a threshold. It is provided with a rabbet, *a*. *b* is a strip of metal, secured to the threshold and projecting over the rabbet *a*, as shown in Fig. 2. *c* represents the door. *d* is a strip secured to the door, near the bottom thereof. It is provided with a rabbet, *v*. *e* is a strip of metal, loosely secured to the outside of the door by means of staples, its upper end being in the rabbet *v*. B is a metal plate fastened to the threshold, against the edge of which the end of the strip *e* strikes when the door is being closed. The edge of this piece B is straight between the points *f g*, but from *h* to *f* it is curved, as represented. The edge from *f* to *g* may also be beveled. *i*, Fig. 3, is an angle-iron, recessed into the stop *k* upon the door-frame, against which iron *i* the strip *e* strikes when the door is closed.

I am aware that weather-strips for the bottoms of doors of various kinds are in use. Without the rabbet *a* the water is liable to drive up under the strip *e* and over the threshold, and without the rabbet *v* in the strip *d* the water might pass over the top of the strip *e*, and then down between it and the door and

over the threshold. Both of these difficulties are obviated by my construction, as the plate *b* projects over the rabbet *a* and effectually prevents the passage of water at that point, while the upper edge of *e* is protected by the rabbet *v* in the strip *d*.

I am also aware that irons somewhat similar to B have been used in connection with a strip, *e*; but they have been of such form that, when the door was closed, the parts were liable to be injured or the lower hinge of the door be torn off. The peculiar form of the edge of this piece B, shown, obviates this difficulty.

In Fig. 1 the door is represented as wide open, and in Fig. 2 as closed. When the door is being opened the strip *e* drags over the threshold and the plates *b* B. When the door is wide open *e* will fall down into the same position shown in Fig. 2. In closing the door the end of the strip *e* next to B will come in contact with this plate B, and *e* will be gradually elevated till it passes up over the edge of B on the top thereof, which position it will retain until it passes over the edge of *b*, when it will drop down into the position shown in Fig. 2.

What I claim as new, and desire to secure by Letters Patent, is as follows:

1. The strip or guard *e*, in combination with the door *c* and strip *d*, having a rabbet, *v*, substantially as specified.
2. The strip or guard *e*, in combination with the door *c*, the threshold A having a rabbet, *a*, and the plate *b*, all constructed and arranged substantially as and for the purposes specified.
3. The combination of the strip *e*, strip *d*, having a rabbet, *v*, door *c*, threshold A having a rabbet, *a*, and the plate *b*, substantially as and for the purposes specified.
4. The angle-iron *i*, in combination with the strip *e*, door *c*, and piece *d*, substantially as described.

GILBERT A. HERRICK.

Witnesses:

WM. W. WRIGHT,
S. M. SMITH.