

(No Model.)

D. HARKRADER.
WEATHER STRIP.

No. 361,008.

Patented Apr. 12, 1887.

Fig. 1.

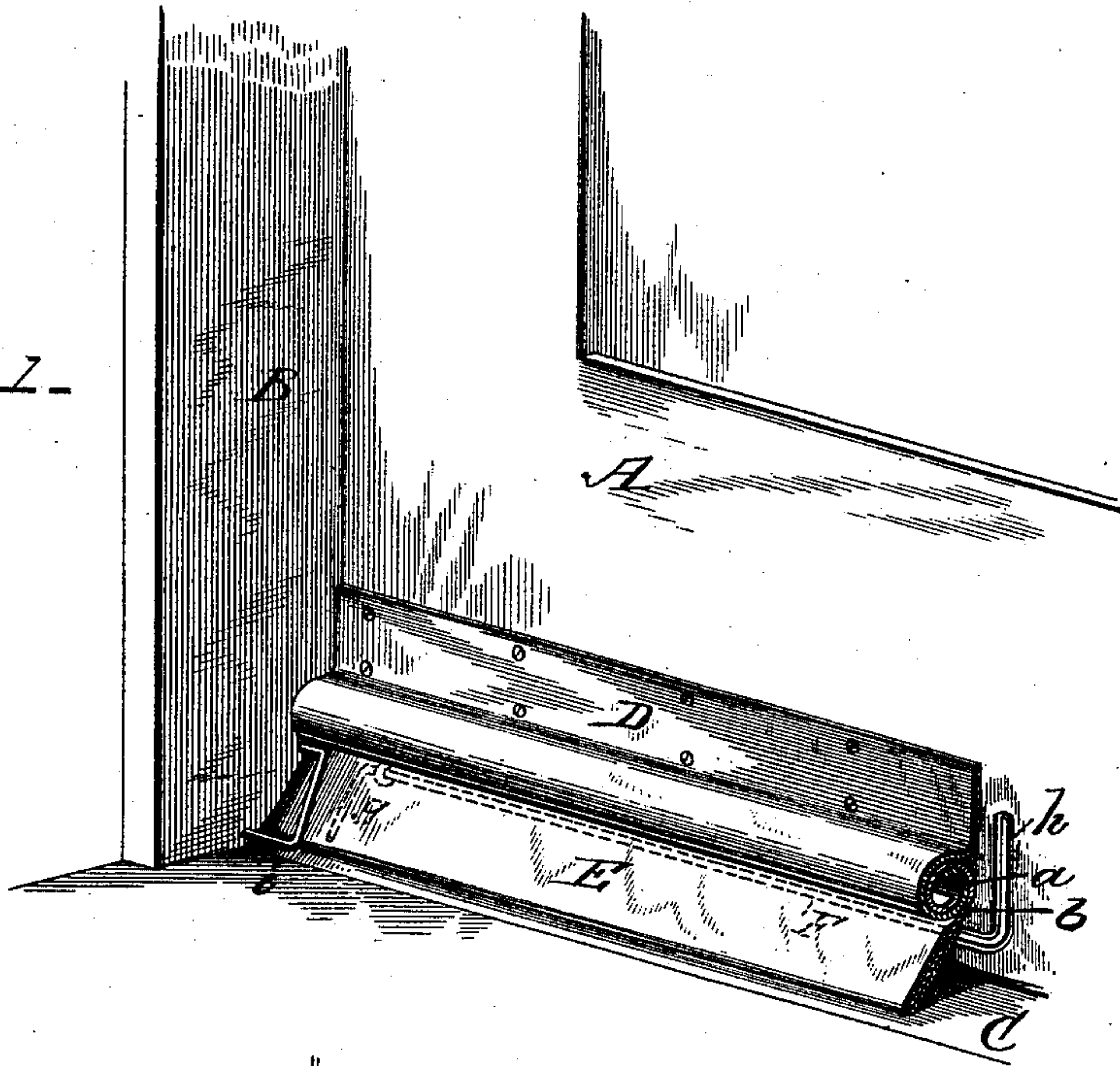
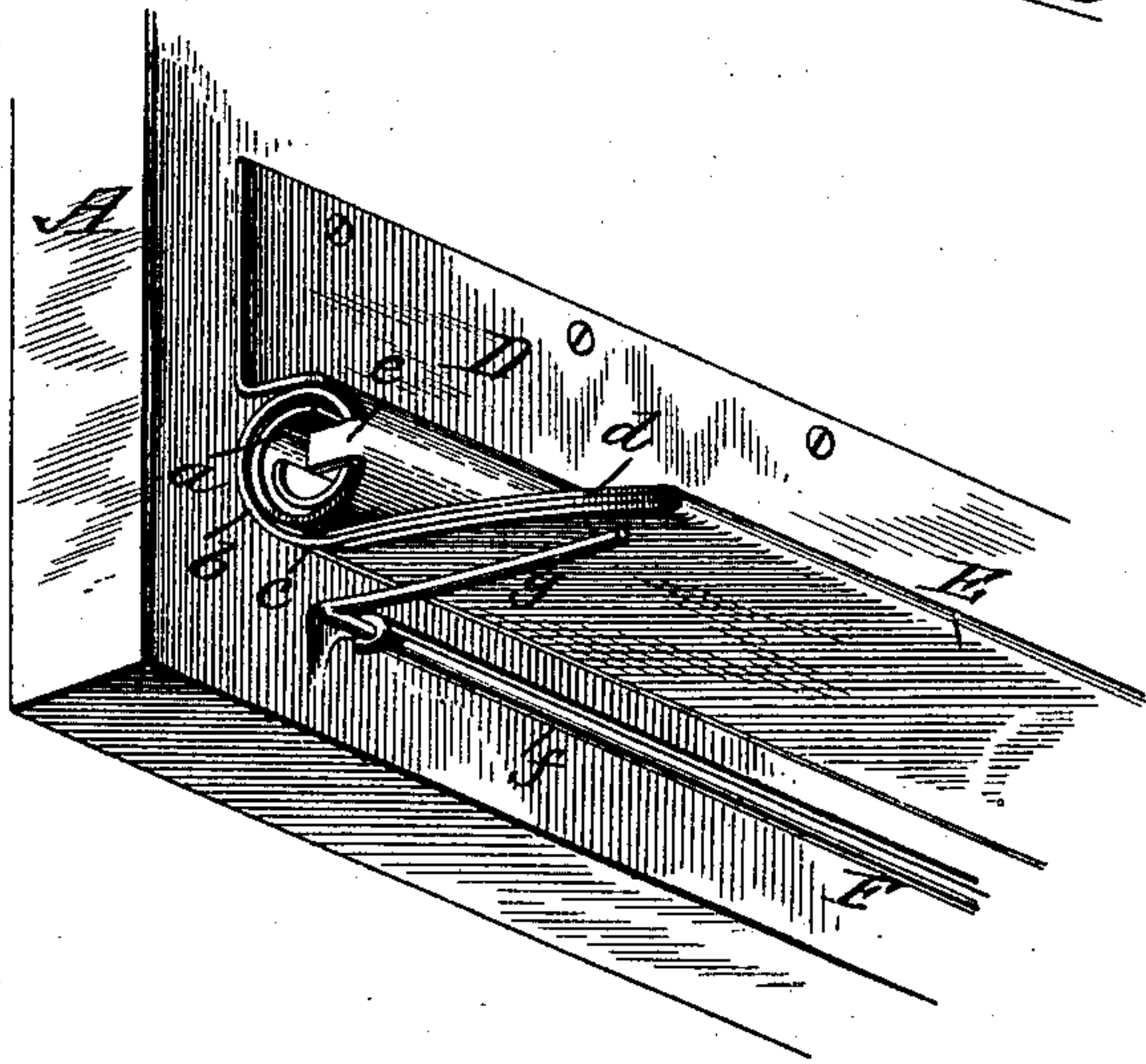


Fig. 2.



Witnesses
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UNITED STATES PATENT OFFICE.

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WEATHER-STRIP.

SPECIFICATION forming part of Letters Patent No. 361,008, dated April 12, 1887.

Application filed November 6, 1886. Serial No. 218,123. (No model.)

To all whom it may concern:

Be it known that I, DAVID HARKRADER, a citizen of the United States, residing at St. Louis, and State of Missouri, have invented certain new and useful Improvements in Weather-Strips; and I do hereby declare that the following is a full, clear, and exact description of the same, reference being had to the annexed drawings, making a part of this specification, and to the letters and figures of reference marked thereon.

Figure 1 of the drawings is a perspective view of my improved weather-strip, partly in broken section, and showing it applied to a door and the strip closed down against the threshold; and Fig. 2, a similar view of the weather-strip, showing it in a raised position.

The present invention has relation to certain new and useful improvements in weather-strips for doors; and it consists in the details of construction substantially as shown in the drawings, and hereinafter described and claimed.

In the accompanying drawings, A represents the door, B the door-frame, and C the threshold, all of which are of the usual construction.

To the door A is connected in any suitable manner the section D of the weather-strip, the same being constructed of sheet metal and bent outwardly and inwardly at its lower edge to form a scroll, *a*, with which engages a similar scroll, *b*, of the lower weather-strip section, E. This lower section, E, consists of the metal strip *c*, bent, as previously described, to form the scroll *b*, and to this strip is secured a second strip of metal (Shown at *d*.) This strip overlaps both sides of the strip *c*, and is secured thereto in any convenient manner, thereby forming the lower weather-strip section, E, with a smooth bearing edge, and greatly increasing the strength and durability thereof, and preventing the possibility of its being bent out of shape. The section E is connected to

the section D by first engaging the scroll *b* with the scroll *a* at the end of the latter and pushing it along until the end of the scroll *b* strikes the stop *e* at the opposite end of the section D. The stop *e*, as will be seen, is formed of the same piece of metal as the section D, and afterward bent down into position, as shown in Fig. 2.

Connected or pivoted to the door A is a rod, F, which is seated in a groove, *f*, said rod at its extremities having lever-arms *g h*, the latter also being seated in an extension to the groove *f*, as shown in Fig. 1. These lever-arms act conjointly to force the weather-strip section E upwardly from contact with the threshold when the door is open, forming a very simple and practical and effective device for the purpose, and dispensing with the use of coiled rubber and other like springs.

When the door is closed, the weather-strip section E will be brought against the stop *i*, secured to the door-frame, and the section forced tightly down against the threshold C to close the space between it and the door.

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

In a weather-strip, the sheet-metal section D, bent to form a scroll, *a*, and having the stop *e*, in combination with the section E, consisting of the strip *c*, bent to form a scroll, *b*, and having the strip *d*, overlapping both sides thereof, and the rod F, seated in the groove *f*, and terminating at its ends in lever-arms *g h*, and operating substantially as and for the purpose set forth.

In testimony that I claim the above I have hereunto subscribed my name in the presence of two witnesses.

DAVID HARKRADER.

Witnesses:

EMIL REMMLER,
ANDREW MULLER.