

S. A. PIPER.
Weather-Strips.

No. 150,785.

Patented May 12, 1874.

Fig. 1.

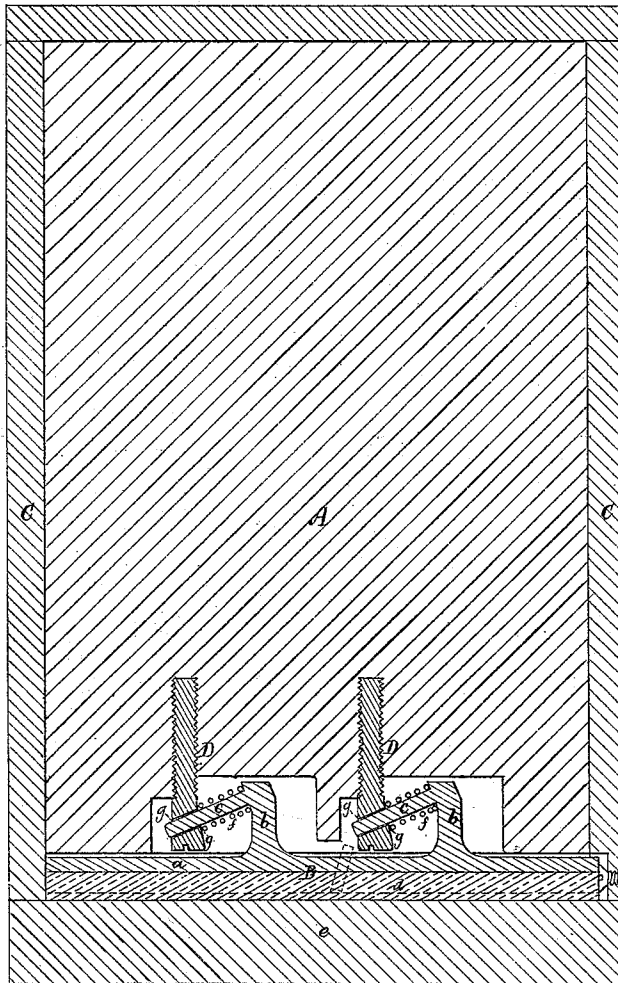


Fig. 5.

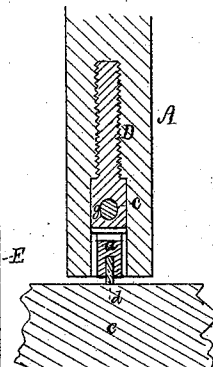


Fig. 2.

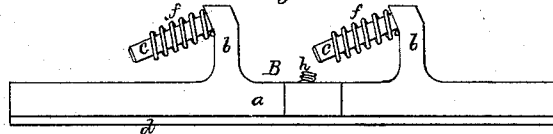


Fig. 3.

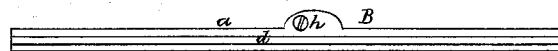


Fig. 4.



Witnesses

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UNITED STATES PATENT OFFICE.

SAMUEL A. PIPER, OF NEWTON UPPER FALLS, MASSACHUSETTS.

IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. 150,785, dated May 12, 1874; application filed April 10, 1874.

To all whom it may concern:

Be it known that I, SAMUEL A. PIPER, of Newton Upper Falls, of the county of Middlesex and State of Massachusetts, have invented a new and useful Improvement in Weather-Guards for Doors; and do hereby declare the same to be fully described in the following specification, and represented in the accompanying drawings, of which—

Figure 1 denotes a vertical section of a door-frame and door with my improved weather-guard applied thereto. Fig. 2 is a side elevation, and Fig. 3 an under-side view of the weather-guard and its springs. Fig. 4 is a side view of one of the perforated screws used with the guard. Fig. 5 is a transverse section of the guard and the lower part of the door.

The door A is chambered at the bottom to receive the guard B, which consists of a metallic bar, *a*, provided with two standards, *b b*, and two inclined cylindrical projections or arms, *c c*, all being formed and arranged as represented. A lip or tongue, *d*, of india-rubber, is inserted in, and projects down, from the bar *a*. When the door is closed such lip is borne or forced down upon the threshold *e* of the door-frame C, and serves to prevent air or water from crossing the threshold and entering the apartment. There is a helical spring, *f*, to each of the inclined arms *c c*, the spring encircling the arm. The said arms extend through holes *g g* in two screws, D D, inserted upward in the door.

When the guard is moved longitudinally in one direction, it, by means of the inclined arms and the screws through which such arms extend, will be moved downward, the springs being contracted in the meanwhile and serv-

ing to move the guard rearward while the door may be in the act of being opened.

A screw, *h*, screwed into and so as to project up from the guard, as shown, will, while the door is being opened, bring up against one of the arm-screws D, and stop the rearward movement of the guard, and prevent such guard from getting out of engagement with the screws D D. A screw E, inserted in the door-frame, answers as an abutment for the end of the guard to be borne against while the door may be in the act of being closed, the guard being shot forward while being forced against the abutment. The screw admits of being adjusted in the door-frame, so as to cause the elastic lip of this guard to properly bear on the threshold when the door is closed.

I do not claim the combination of a weather-guard with a door, said guard to be moved forward and downward while the door may be in the act of being closed.

What I claim as my invention is as follows:

1. The weather-guard, composed of the bar *a*, the standards *b b*, and the inclined arms *c c*, combined and arranged substantially as set forth and represented.

2. In combination with the weather-guard B, made as described, the springs *f f*, and the two perforated screws D D, all arranged together, and in the door, and to operate as specified.

3. The stop-screw *h*, arranged and combined with the guard B, and the screws D D thereof, all applied to the door in manner as shown and explained.

Witnesses:

SAMUEL A. PIPER.

R. H. EDDY,
J. R. SNOW.