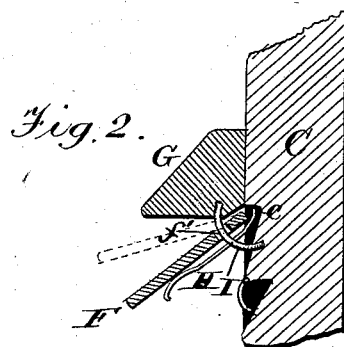
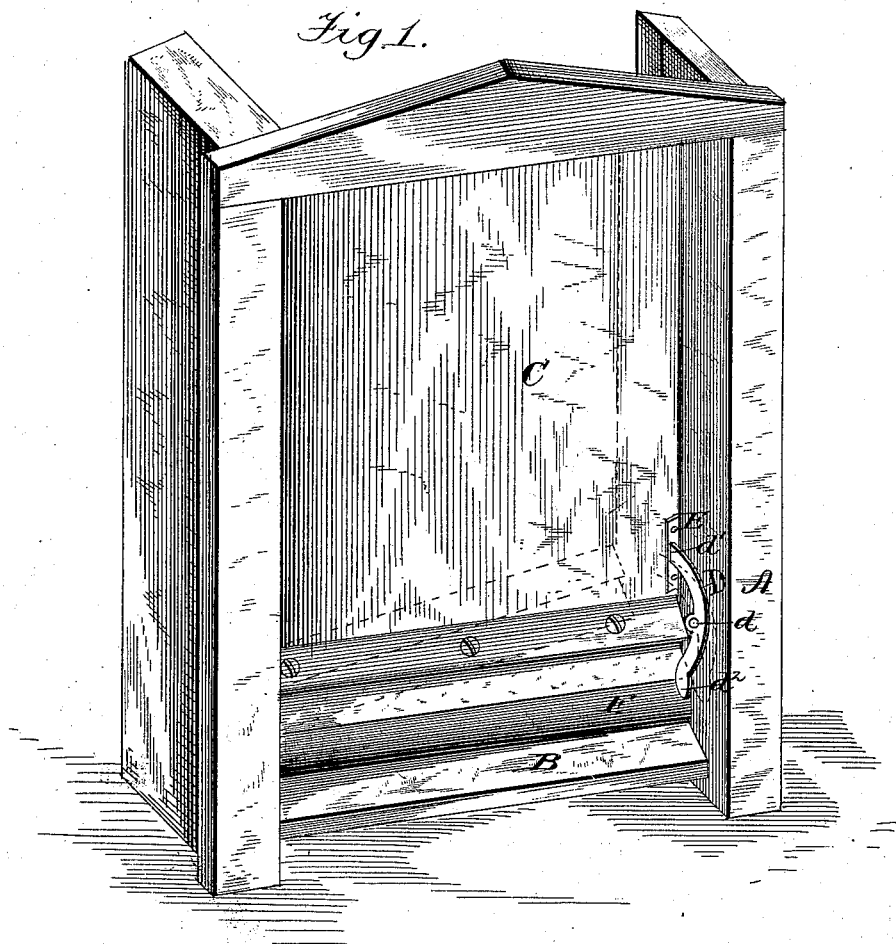


Z. C. BROWNING & J. F. HAY.  
Weather-Strip.

No. 217,262.

Patented July 8, 1879.



Witnesses;  
Walter Fowler  
John O'Sproull

Inventor:  
Z. C. Browning  
J. F. Hay  
By H. F. Ennis  
att'y

# UNITED STATES PATENT OFFICE.

ZARA C. BROWNING AND JAMES F. HAY, OF MONTROSE, ILLINOIS.

## IMPROVEMENT IN WEATHER-STRIPS.

Specification forming part of Letters Patent No. **217,262**, dated July 8, 1879; application filed May 24, 1879.

*To all whom it may concern:*

Be it known that we, ZARA C. BROWNING and JAMES F. HAY, of Montrose, in the county of Effingham and State of Illinois, have invented certain new and useful Improvements in Weather-Strips; and we do hereby declare that the following is a full, clear, and exact description of the invention, 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 our device, and Fig. 2 a sectional edge view.

Our invention relates to a weather-strip for doors and the like; and the novelty consists in the construction and arrangement of parts, as will be more fully hereinafter set forth, and specifically pointed out in the claim.

In carrying out our invention we employ the ordinary door-jambs, sill, and the like, and any proper fastening device, spring-bolt, latch, knob, or otherwise. Pivoted upon the jamb opposite the hinge-jamb of the door is a lever having two bearing ends, one adapted to operate upon a proper bearing on the door and the other to bear upon the pivoted weather-strip. This strip is held outward and elevated by the constant force of a spring or springs, and, being hinged at the top under the shed-strip, swings outward unless depressed by the pivoted lever.

Referring to the drawings, A represents the door jambs or frame, and B the sill. C represents the door, hinged in any proper manner to the frame.

Pivoted at *d* to the jamb A is a curved lever, D, having a bearing-surface, *d*<sup>1</sup>, to operate upon a plate, E, secured to the door, and a bearing end, *d*<sup>2</sup>, to operate upon the weather-strip F. This strip F is pivoted under a

shed-strip, G, upon its top edge to the door C, and a spring, H, exerts a constant force to hold the strip elevated out of contact with the sill B.

The weather-strip is perforated at *f* to receive curved guides I, running from the shed-strip to the door, and the spring H is set in the slot *c* in the door C.

In operation the spring keeps the weather-strip out of contact with the sill even if the door is wide open, and the strip only operates upon the sill when the door is closed, or nearly so.

In closing the door the lever D first operates to depress the strip and brush off any snow, sleet, dust, &c.; next to depress the lever still farther, and entirely preclude drift, rain, or weather from passing thereunder. This second action is due to the bearing of the point *d*<sup>1</sup> of the lever D upon the plate E, as shown, which, acting through the fulcrum, which is the pivot *d*, forces the weather-strip F down in close contact with the sill.

From the foregoing description the operation of our invention is obvious.

What we claim, and desire to secure by Letters Patent of the United States, is—

The combination of the door-frame A B, the pivoted lever D *d*, having bearing-surfaces *d*<sup>1</sup> *d*<sup>2</sup>, in combination with the door C *c*, having bearing-plate E, the shed-strip G, and with the weather-strip F *f*, pivoted upon guides I, from the shed-strip to the door, and the spring H, as and for the purpose set forth.

In testimony that we claim the foregoing as our own we hereby affix our signatures in presence of two witnesses.

ZARA C. BROWNING.  
JAMES F. HAY.

Witnesses:

W. W. PARK,  
V. T. SCOTT.